

Nighttime Protection Report-Routh.txt

Night Allocation Protection Report

Proposed modification of Construction Permit

Note: Calculations to YVLP-B, TGMM-B and HJCY are to the skywave 0.5 mV/m. contour.
The proposed facility will not cause interference to those stations at the boundaries of those countries.

Call: WEUS

Freq: 810 kHz

ORLOVISTA, FL, US

Lat: 28-33-52.50 N

Lng: 081-25-08.50 W

Power: 2.0 kW

Theo RMS: 414.71 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	1.837	-16.9	227.8	6.2	90.0	0	0	0.0	0.0	0.0	0.0
3	0.995	-29.4	454.0	5.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.720	252.5	90.0	81.5	90.0	0	0	0.0	0.0	0.0	0.0
5	1.485	234.6	228.0	1.8	90.0	1	0	0.0	0.0	0.0	0.0
6	0.824	205.5	228.8	8.6	90.0	1	0	0.0	0.0	0.0	0.0

Call	Permis	Cur Rad	Margin	Azi	Ang Low	Ang High	SWFF	Req Prot
Letters		Ct St City		(deg)	(deg)	(deg)	(100uV/m)	(mV/m)
(mV/m)	(mV/m)	(mV/m)						
YVLP-B (0)	VE	VALENCIA	1	122.66	2.75	2.75	18.45	0.50
154.52E	227.13	-72.60						
YVLP-B (5)	VE	VALENCIA	1	120.87	2.30	2.30	15.93	0.50
171.11E	291.91	-120.80						

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YVLP-B (10)	VE	VALENCIA	1	119.45	1.84	1.84	13.81	0.50
184.13E	347.78	-163.65						
YVLP-B (15)	VE	VALENCIA	1	118.37	1.39	1.39	11.95	0.50
209.16S	392.70	-183.53						
YVLP-B (20)	VE	VALENCIA	1	117.60	0.94	0.94	10.34	0.50
241.81S	425.91	-184.10						
YVLP-B (25)	VE	VALENCIA	1	117.10	0.50	0.50	9.13	0.50
273.70S	447.61	-173.91						
YVLP-B (30)	VE	VALENCIA	1	116.85	0.08	0.08	8.13	0.50
307.62S	458.50	-150.88						
YVLP-B (35)	VE	VALENCIA	1	116.83	0.00	0.00	7.21	0.50
346.86S	459.52	-112.66						
YVLP-B (40)	VE	VALENCIA	1	117.00	0.00	0.00	6.58	0.50
380.09S	451.76	-71.67						
YVLP-B (45)	VE	VALENCIA	1	117.35	0.00	0.00	5.95	0.50
420.47S	436.30	-15.83						
YVLP-B (50)	VE	VALENCIA	1	117.86	0.00	0.00	5.37	0.50
465.38S	414.27	51.11						
YVLP-B (55)	VE	VALENCIA	1	118.50	0.00	0.00	4.92	0.50
508.52S	386.74	121.78						
YVLP-B (60)	VE	VALENCIA	1	119.27	0.00	0.00	4.54	0.50
550.26S	354.80	195.46						
YVLP-B (65)	VE	VALENCIA	1	120.14	0.00	0.00	4.22	0.50
592.90S	319.49	273.41						
YVLP-B (70)	VE	VALENCIA	1	121.12	0.00	0.00	3.94	0.50
635.25S	281.88	353.37						
YVLP-B (75)	VE	VALENCIA	1	122.18	0.00	0.00	3.70	0.50
676.06S	242.99	433.07						
YVLP-B (80)	VE	VALENCIA	1	123.31	0.00	0.00	3.50	0.50
714.68S	203.82	510.86						
YVLP-B (85)	VE	VALENCIA	1	124.52	0.00	0.00	3.33	0.50
751.35S	165.34	586.00						
YVLP-B (90)	VE	VALENCIA	1	125.78	0.00	0.00	3.16	0.50
790.09S	128.49	661.60						
YVLP-B (95)	VE	VALENCIA	1	127.10	0.00	0.00	3.03	0.50

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825.27S	94.20	731.07						
YVLP-B (100)	VE	VALENCIA	1	128.47	0.00	0.00	2.92	0.50
856.42S	63.52	792.90						
YVLP-B (105)	VE	VALENCIA	1	129.88	0.00	0.00	2.82	0.50
887.31S	38.23	849.07						
YVLP-B (110)	VE	VALENCIA	1	131.33	0.00	0.00	2.73	0.50
916.63S	23.56	893.07						
YVLP-B (115)	VE	VALENCIA	1	132.80	0.00	0.00	2.65	0.50
942.52S	26.85	915.68						
YVLP-B (120)	VE	VALENCIA	1	134.31	0.00	0.00	2.59	0.50
964.76S	37.77	926.99						
YVLP-B (125)	VE	VALENCIA	1	135.83	0.00	0.00	2.54	0.50
983.84S	47.38	936.46						
YVLP-B (130)	VE	VALENCIA	1	137.38	0.00	0.00	2.50	0.50
999.15S	53.65	945.51						
YVLP-B (135)	VE	VALENCIA	1	138.93	0.00	0.00	2.47	0.50
1010.14S	56.24	953.90						
YVLP-B (140)	VE	VALENCIA	1	140.50	0.00	0.00	2.46	0.50
1017.63S	55.34	962.29						
YVLP-B (145)	VE	VALENCIA	1	142.07	0.00	0.00	2.45	0.50
1021.52S	51.40	970.12						
YVLP-B (150)	VE	VALENCIA	1	143.65	0.00	0.00	2.45	0.50
1021.74S	45.11	976.63						
YVLP-B (155)	VE	VALENCIA	1	145.22	0.00	0.00	2.46	0.50
1018.29S	37.65	980.64						
YVLP-B (160)	VE	VALENCIA	1	146.78	0.00	0.00	2.47	0.50
1011.23S	31.16	980.07						
YVLP-B (165)	VE	VALENCIA	1	148.34	0.00	0.00	2.50	0.50
1000.63S	29.27	971.37						
YVLP-B (170)	VE	VALENCIA	1	149.88	0.00	0.00	2.54	0.50
985.86S	34.63	951.23						
YVLP-B (175)	VE	VALENCIA	1	151.41	0.00	0.00	2.59	0.50
967.12S	45.55	921.57						
YVLP-B (180)	VE	VALENCIA	1	152.91	0.00	0.00	2.65	0.50
945.18S	59.21	885.96						

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YVLP-B (185)	VE	VALENCIA	1	154.38	0.00	0.00	2.72	0.50
919.70S	73.96	845.75						
YVLP-B (190)	VE	VALENCIA	1	155.83	0.00	0.00	2.81	0.50
890.56S	88.88	801.68						
YVLP-B (195)	VE	VALENCIA	1	157.23	0.00	0.00	2.91	0.50
859.57S	103.45	756.12						
YVLP-B (200)	VE	VALENCIA	1	158.60	0.00	0.00	3.02	0.50
828.47S	117.31	711.16						
YVLP-B (205)	VE	VALENCIA	1	159.92	0.00	0.00	3.15	0.50
793.79S	130.23	663.56						
YVLP-B (210)	VE	VALENCIA	1	161.18	0.00	0.00	3.31	0.50
754.95S	142.07	612.89						
YVLP-B (215)	VE	VALENCIA	1	162.38	0.00	0.00	3.48	0.50
717.91S	152.72	565.18						
YVLP-B (220)	VE	VALENCIA	1	163.51	0.00	0.00	3.68	0.50
679.45S	162.16	517.30						
YVLP-B (225)	VE	VALENCIA	1	164.56	0.00	0.00	3.91	0.50
638.64S	170.36	468.27						
YVLP-B (230)	VE	VALENCIA	1	165.53	0.00	0.00	4.19	0.50
596.00S	177.37	418.62						
YVLP-B (235)	VE	VALENCIA	1	166.40	0.00	0.00	4.52	0.50
553.16S	183.23	369.93						
YVLP-B (240)	VE	VALENCIA	1	167.16	0.00	0.00	4.89	0.50
511.16S	188.00	323.16						
YVLP-B (245)	VE	VALENCIA	1	167.79	0.00	0.00	5.34	0.50
468.02S	191.73	276.29						
YVLP-B (250)	VE	VALENCIA	1	168.29	0.00	0.00	5.91	0.50
422.97S	194.47	228.49						
YVLP-B (255)	VE	VALENCIA	1	168.63	0.00	0.00	6.55	0.50
381.63S	196.27	185.37						
YVLP-B (260)	VE	VALENCIA	1	168.79	0.00	0.00	7.17	0.50
348.72S	197.10	151.62						
YVLP-B (265)	VE	VALENCIA	1	168.75	0.06	0.06	8.09	0.50
309.05S	196.90	112.14						
YVLP-B (270)	VE	VALENCIA	1	168.49	0.49	0.49	9.09	0.50

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274.90S	195.48	79.43						
YVLP-B (275)	VE	VALENCIA	1	167.97	0.93	0.93	10.30	0.50
242.73S	192.55	50.18						
YVLP-B (280)	VE	VALENCIA	1	167.18	1.38	1.38	11.90	0.50
210.00S	187.65	22.34						
YVLP-B (285)	VE	VALENCIA	1	166.08	1.83	1.83	13.77	0.50
181.60S	180.32	1.28						
YVLP-B (290)	VE	VALENCIA	1	164.63	2.29	2.29	15.88	0.50
164.34E	169.61	-5.28						
YVLP-B (295)	VE	VALENCIA	1	162.82	2.74	2.74	18.41	0.50
156.63E	154.82	1.81						
YVLP-B (300)	VE	VALENCIA	1	160.63	3.17	3.17	21.21	0.50
146.40E	134.78	11.62						
YVLP-B (305)	VE	VALENCIA	1	158.05	3.57	3.57	24.10	0.50
133.27E	109.22	24.05						
YVLP-B (310)	VE	VALENCIA	1	155.10	3.92	3.92	26.59	0.50
116.78E	78.78	37.99						
YVLP-B (315)	VE	VALENCIA	1	151.82	4.21	4.21	28.67	0.50
96.50E	47.01	49.48						
YVLP-B (320)	VE	VALENCIA	1	148.28	4.41	4.41	30.19	0.50
82.81S	28.93	53.87						
YVLP-B (325)	VE	VALENCIA	1	144.57	4.51	4.51	31.00	0.50
80.65S	41.35	39.30						
YVLP-B (330)	VE	VALENCIA	1	140.80	4.52	4.52	31.00	0.50
80.64S	54.61	26.03						
YVLP-B (335)	VE	VALENCIA	1	137.09	4.41	4.41	30.20	0.50
82.78S	51.73	31.05						
YVLP-B (340)	VE	VALENCIA	1	133.56	4.21	4.21	28.68	0.50
87.17S	30.96	56.21						
YVLP-B (345)	VE	VALENCIA	1	130.30	3.93	3.93	26.61	0.50
93.96S	33.60	60.35						
YVLP-B (350)	VE	VALENCIA	1	127.38	3.58	3.58	24.13	0.50
110.08E	89.34	20.74						
YVLP-B (355)	VE	VALENCIA	1	124.82	3.18	3.18	21.25	0.50
134.17E	157.53	-23.36						

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TGMM-B (0)	GT	RADIOMOPAN	222.73	6.40	6.40	46.23	0.50
94.93E	126.81	-31.88					
TGMM-B (5)	GT	RADIOMOPAN	221.46	6.58	6.58	47.75	0.50
102.80E	125.65	-22.85					
TGMM-B (10)	GT	RADIOMOPAN	220.07	6.75	6.75	49.07	0.50
110.89E	124.51	-13.62					
TGMM-B (15)	GT	RADIOMOPAN	218.58	6.88	6.88	50.17	0.50
119.28E	123.38	-4.10					
TGMM-B (20)	GT	RADIOMOPAN	217.01	6.98	6.98	51.05	0.50
127.64E	122.52	5.12					
TGMM-B (25)	GT	RADIOMOPAN	215.38	7.04	7.04	51.61	0.50
135.78E	122.06	13.72					
TGMM-B (30)	GT	RADIOMOPAN	213.73	7.06	7.06	51.81	0.50
143.68E	122.01	21.67					
TGMM-B (35)	GT	RADIOMOPAN	212.07	7.04	7.04	51.65	0.50
151.06E	122.65	28.40					
TGMM-B (40)	GT	RADIOMOPAN	210.43	6.99	6.99	51.14	0.50
157.96E	123.84	34.12					
TGMM-B (45)	GT	RADIOMOPAN	208.85	6.89	6.89	50.29	0.50
164.16E	125.69	38.47					
TGMM-B (50)	GT	RADIOMOPAN	207.34	6.76	6.76	49.21	0.50
169.63E	128.06	41.57					
TGMM-B (55)	GT	RADIOMOPAN	205.93	6.60	6.60	47.92	0.50
174.54E	130.91	43.64					
TGMM-B (60)	GT	RADIOMOPAN	204.63	6.42	6.42	46.41	0.50
178.60E	134.00	44.60					
TGMM-B (65)	GT	RADIOMOPAN	203.46	6.21	6.21	44.72	0.50
182.32E	137.18	45.14					
TGMM-B (70)	GT	RADIOMOPAN	202.42	5.98	5.98	42.88	0.50
185.29E	140.30	44.99					
TGMM-B (75)	GT	RADIOMOPAN	201.52	5.75	5.75	40.92	0.50
187.74E	143.31	44.43					
TGMM-B (80)	GT	RADIOMOPAN	200.76	5.50	5.50	38.88	0.50
189.86E	145.93	43.93					
TGMM-B (85)	GT	RADIOMOPAN	200.15	5.25	5.25	36.81	0.50

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191.44E	148.27	43.17					
TGMM-B (90)	GT	RADIOMOPAN	199.67	4.99	4.99	34.77	0.50
192.79E	150.10	42.69					
TGMM-B (95)	GT	RADIOMOPAN	199.33	4.74	4.74	32.75	0.50
193.70E	151.58	42.13					
TGMM-B (100)	GT	RADIOMOPAN	199.12	4.49	4.49	30.80	0.50
194.45E	152.51	41.94					
TGMM-B (105)	GT	RADIOMOPAN	199.03	4.24	4.24	28.93	0.50
194.83E	153.08	41.75					
TGMM-B (110)	GT	RADIOMOPAN	199.06	4.01	4.01	27.19	0.50
195.09E	153.14	41.95					
TGMM-B (115)	GT	RADIOMOPAN	199.19	3.78	3.78	25.54	0.50
195.01E	152.80	42.21					
TGMM-B (120)	GT	RADIOMOPAN	199.42	3.56	3.56	24.00	0.50
194.73E	152.09	42.64					
TGMM-B (125)	GT	RADIOMOPAN	199.74	3.35	3.35	22.45	0.50
194.24E	151.11	43.13					
TGMM-B (130)	GT	RADIOMOPAN	200.15	3.15	3.15	21.05	0.50
193.54E	149.76	43.78					
TGMM-B (135)	GT	RADIOMOPAN	200.64	2.96	2.96	19.78	0.50
192.63E	148.11	44.52					
TGMM-B (140)	GT	RADIOMOPAN	201.20	2.78	2.78	18.67	0.50
191.50E	146.31	45.20					
TGMM-B (145)	GT	RADIOMOPAN	201.82	2.62	2.62	17.67	0.50
190.16E	144.34	45.81					
TGMM-B (150)	GT	RADIOMOPAN	202.50	2.47	2.47	16.82	0.50
188.52E	142.23	46.29					
TGMM-B (155)	GT	RADIOMOPAN	203.24	2.32	2.32	16.06	0.50
186.71E	140.09	46.61					
TGMM-B (160)	GT	RADIOMOPAN	204.02	2.20	2.20	15.42	0.50
184.60E	137.91	46.69					
TGMM-B (165)	GT	RADIOMOPAN	204.85	2.08	2.08	14.87	0.50
182.25E	135.77	46.49					
TGMM-B (170)	GT	RADIOMOPAN	205.71	1.97	1.97	14.39	0.50
179.66E	133.71	45.95					

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TGMM-B (175)	GT	RADIOMOPAN	206.61	1.88	1.88	13.98	0.50
178.86S	131.78	47.08					
TGMM-B (180)	GT	RADIOMOPAN	207.53	1.80	1.80	13.63	0.50
183.42S	130.01	53.41					
TGMM-B (185)	GT	RADIOMOPAN	208.48	1.73	1.73	13.34	0.50
187.40S	128.43	58.97					
TGMM-B (190)	GT	RADIOMOPAN	209.45	1.68	1.68	13.11	0.50
190.67S	127.06	63.61					
TGMM-B (195)	GT	RADIOMOPAN	210.43	1.63	1.63	12.94	0.50
193.27S	125.94	67.34					
TGMM-B (200)	GT	RADIOMOPAN	211.43	1.60	1.60	12.81	0.50
195.17S	125.05	70.12					
TGMM-B (205)	GT	RADIOMOPAN	212.44	1.59	1.59	12.73	0.50
196.33S	124.42	71.91					
TGMM-B (210)	GT	RADIOMOPAN	213.44	1.58	1.58	12.71	0.50
196.73S	124.03	72.70					
TGMM-B (215)	GT	RADIOMOPAN	214.45	1.58	1.58	12.73	0.50
196.37S	123.87	72.50					
TGMM-B (220)	GT	RADIOMOPAN	215.46	1.60	1.60	12.80	0.50
195.26S	123.93	71.33					
TGMM-B (225)	GT	RADIOMOPAN	216.46	1.63	1.63	12.93	0.50
193.41S	124.18	69.23					
TGMM-B (230)	GT	RADIOMOPAN	217.44	1.68	1.68	13.10	0.50
190.85S	124.58	66.27					
TGMM-B (235)	GT	RADIOMOPAN	218.42	1.73	1.73	13.32	0.50
187.62S	125.13	62.49					
TGMM-B (240)	GT	RADIOMOPAN	219.37	1.80	1.80	13.61	0.50
183.69S	125.76	57.93					
TGMM-B (245)	GT	RADIOMOPAN	220.30	1.88	1.88	13.95	0.50
179.16S	126.46	52.71					
TGMM-B (250)	GT	RADIOMOPAN	221.20	1.97	1.97	14.36	0.50
174.13S	127.19	46.94					
TGMM-B (255)	GT	RADIOMOPAN	222.07	2.07	2.07	14.83	0.50
168.57S	127.93	40.64					
TGMM-B (260)	GT	RADIOMOPAN	222.91	2.19	2.19	15.38	0.50

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162.57S	128.65	33.92					
TGMM-B (265)	GT	RADIOMOPAN	223.70	2.31	2.31	16.00	0.50
156.21S	129.32	26.89					
TGMM-B (270)	GT	RADIOMOPAN	224.45	2.45	2.45	16.76	0.50
149.19S	129.91	19.28					
TGMM-B (275)	GT	RADIOMOPAN	225.14	2.61	2.61	17.60	0.50
142.02S	130.44	11.59					
TGMM-B (280)	GT	RADIOMOPAN	225.78	2.77	2.77	18.59	0.50
134.51S	130.86	3.66					
TGMM-B (285)	GT	RADIOMOPAN	226.35	2.95	2.95	19.69	0.50
126.99S	131.22	-4.23					
TGMM-B (290)	GT	RADIOMOPAN	226.85	3.13	3.13	20.94	0.50
119.41S	131.46	-12.05					
TGMM-B (295)	GT	RADIOMOPAN	227.28	3.33	3.33	22.33	0.50
111.98S	131.62	-19.65					
TGMM-B (300)	GT	RADIOMOPAN	227.62	3.54	3.54	23.86	0.50
104.77S	131.72	-26.94					
TGMM-B (305)	GT	RADIOMOPAN	227.87	3.76	3.76	25.39	0.50
98.45S	131.70	-33.25					
TGMM-B (310)	GT	RADIOMOPAN	228.03	3.99	3.99	27.03	0.50
92.50S	131.68	-39.18					
TGMM-B (315)	GT	RADIOMOPAN	228.07	4.22	4.22	28.76	0.50
86.93S	131.61	-44.67					
TGMM-B (320)	GT	RADIOMOPAN	228.01	4.46	4.46	30.61	0.50
81.68S	131.43	-49.75					
TGMM-B (325)	GT	RADIOMOPAN	227.82	4.71	4.71	32.55	0.50
76.81S	131.26	-54.45					
TGMM-B (330)	GT	RADIOMOPAN	227.51	4.96	4.96	34.56	0.50
72.34S	130.96	-58.62					
TGMM-B (335)	GT	RADIOMOPAN	227.06	5.22	5.22	36.59	0.50
68.32S	130.64	-62.32					
TGMM-B (340)	GT	RADIOMOPAN	226.48	5.47	5.47	38.65	0.50
70.69E	130.14	-59.45					
TGMM-B (345)	GT	RADIOMOPAN	225.75	5.72	5.72	40.69	0.50
75.50E	129.56	-54.06					

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TGMM-B (350)	GT	RADIOMOPAN	224.88	5.96	5.96	42.67	0.50
81.27E	128.77	-47.49					
TGMM-B (355)	GT	RADIOMOPAN	223.88	6.18	6.18	44.51	0.50
87.83E	127.87	-40.03					
HJCY-B (0)	CO	BOGOTA 22	142.64	5.80	5.80	41.39	0.50
60.41S	49.68	10.72					
HJCY-B (5)	CO	BOGOTA 22	137.82	5.04	5.04	35.20	0.50
71.02S	53.63	17.39					
HJCY-B (10)	CO	BOGOTA 22	133.97	4.24	4.24	28.87	0.50
86.60S	33.96	52.64					
HJCY-B (15)	CO	BOGOTA 22	131.00	3.42	3.42	22.98	0.50
108.77S	25.92	82.85					
HJCY-B (20)	CO	BOGOTA 22	128.80	2.63	2.63	17.72	0.50
141.09S	57.93	83.16					
HJCY-B (25)	CO	BOGOTA 22	127.25	1.87	1.87	13.91	0.50
179.71S	91.39	88.32					
HJCY-B (30)	CO	BOGOTA 22	126.24	1.15	1.15	11.04	0.50
226.40S	116.51	109.89					
HJCY-B (35)	CO	BOGOTA 22	125.69	0.47	0.47	9.05	0.50
276.37S	131.47	144.90					
HJCY-B (40)	CO	BOGOTA 22	125.50	0.00	0.00	7.56	0.50
330.69S	136.49	194.20					
HJCY-B (45)	CO	BOGOTA 22	125.64	0.00	0.00	6.51	0.50
384.17S	132.77	251.40					
HJCY-B (50)	CO	BOGOTA 22	126.03	0.00	0.00	5.54	0.50
450.86S	121.94	328.92					
HJCY-B (55)	CO	BOGOTA 22	126.64	0.00	0.00	4.82	0.50
518.30S	105.80	412.50					
HJCY-B (60)	CO	BOGOTA 22	127.44	0.00	0.00	4.26	0.50
586.55S	86.19	500.37					
HJCY-B (65)	CO	BOGOTA 22	128.40	0.00	0.00	3.81	0.50
656.97S	64.95	592.02					
HJCY-B (70)	CO	BOGOTA 22	129.50	0.00	0.00	3.44	0.50
725.79S	44.25	681.54					
HJCY-B (75)	CO	BOGOTA 22	130.72	0.00	0.00	3.13	0.50

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798.71S	27.70	771.01					
HJCY-B (80)	CO	BOGOTA 22	132.05	0.00	0.00	2.88	0.50
868.31S	23.19	845.13					
HJCY-B (85)	CO	BOGOTA 22	133.47	0.00	0.00	2.65	0.50
943.49S	31.54	911.95					
HJCY-B (90)	CO	BOGOTA 22	134.96	0.00	0.00	2.46	0.50
1015.40S	42.28	973.13					
HJCY-B (95)	CO	BOGOTA 22	136.53	0.00	0.00	2.30	0.50
1085.82S	50.69	1035.13					
HJCY-B (100)	CO	BOGOTA 22	138.17	0.00	0.00	2.16	0.50
1156.57S	55.43	1101.15					
HJCY-B (105)	CO	BOGOTA 22	139.86	0.00	0.00	2.05	0.50
1218.31S	56.11	1162.19					
HJCY-B (110)	CO	BOGOTA 22	141.60	0.00	0.00	1.96	0.50
1272.74S	52.87	1219.87					
HJCY-B (115)	CO	BOGOTA 22	143.38	0.00	0.00	1.88	0.50
1327.33S	46.29	1281.04					
HJCY-B (120)	CO	BOGOTA 22	145.21	0.00	0.00	1.81	0.50
1382.16S	37.71	1344.45					
HJCY-B (125)	CO	BOGOTA 22	147.06	0.00	0.00	1.74	0.50
1435.50S	30.36	1405.14					
HJCY-B (130)	CO	BOGOTA 22	148.95	0.00	0.00	1.68	0.50
1485.70S	30.53	1455.17					
HJCY-B (135)	CO	BOGOTA 22	150.87	0.00	0.00	1.65	0.50
1514.62S	41.22	1473.40					
HJCY-B (140)	CO	BOGOTA 22	152.80	0.00	0.00	1.61	0.50
1548.56S	58.18	1490.38					
HJCY-B (145)	CO	BOGOTA 22	154.76	0.00	0.00	1.59	0.50
1576.72S	77.78	1498.95					
HJCY-B (150)	CO	BOGOTA 22	156.72	0.00	0.00	1.56	0.50
1598.86S	98.18	1500.68					
HJCY-B (155)	CO	BOGOTA 22	158.70	0.00	0.00	1.55	0.50
1614.79S	118.34	1496.45					
HJCY-B (160)	CO	BOGOTA 22	160.69	0.00	0.00	1.54	0.50
1624.37S	137.54	1486.83					

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HJCY-B (165)	CO	BOGOTA 22	162.67	0.00	0.00	1.54	0.50
1627.52S	155.26	1472.27					
HJCY-B (170)	CO	BOGOTA 22	164.66	0.00	0.00	1.54	0.50
1624.22S	171.11	1453.11					
HJCY-B (175)	CO	BOGOTA 22	166.65	0.00	0.00	1.55	0.50
1614.49S	184.83	1429.66					
HJCY-B (180)	CO	BOGOTA 22	168.62	0.00	0.00	1.56	0.50
1598.40S	196.26	1402.14					
HJCY-B (185)	CO	BOGOTA 22	170.59	0.00	0.00	1.59	0.50
1576.09S	205.33	1370.76					
HJCY-B (190)	CO	BOGOTA 22	172.54	0.00	0.00	1.62	0.50
1547.74S	212.08	1335.67					
HJCY-B (195)	CO	BOGOTA 22	174.47	0.00	0.00	1.65	0.50
1513.60S	216.58	1297.02					
HJCY-B (200)	CO	BOGOTA 22	176.38	0.00	0.00	1.68	0.50
1484.35S	218.99	1265.36					
HJCY-B (205)	CO	BOGOTA 22	178.27	0.00	0.00	1.74	0.50
1433.85S	219.49	1214.36					
HJCY-B (210)	CO	BOGOTA 22	180.12	0.00	0.00	1.81	0.50
1380.37S	218.31	1162.06					
HJCY-B (215)	CO	BOGOTA 22	181.94	0.00	0.00	1.89	0.50
1325.39S	215.69	1109.69					
HJCY-B (220)	CO	BOGOTA 22	183.72	0.00	0.00	1.97	0.50
1270.59S	211.90	1058.69					
HJCY-B (225)	CO	BOGOTA 22	185.45	0.00	0.00	2.06	0.50
1216.04S	207.19	1008.85					
HJCY-B (230)	CO	BOGOTA 22	187.14	0.00	0.00	2.17	0.50
1153.65S	201.82	951.84					
HJCY-B (235)	CO	BOGOTA 22	188.76	0.00	0.00	2.31	0.50
1082.31S	196.02	886.29					
HJCY-B (240)	CO	BOGOTA 22	190.32	0.00	0.00	2.47	0.50
1011.92S	190.03	821.89					
HJCY-B (245)	CO	BOGOTA 22	191.81	0.00	0.00	2.66	0.50
939.53S	184.05	755.48					
HJCY-B (250)	CO	BOGOTA 22	193.21	0.00	0.00	2.89	0.50

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864.09S	178.26	685.83					
HJCY-B (255)	CO	BOGOTA 22	194.52	0.00	0.00	3.15	0.50
793.96S	172.81	621.15					
HJCY-B (260)	CO	BOGOTA 22	195.73	0.00	0.00	3.47	0.50
721.40S	167.82	553.58					
HJCY-B (265)	CO	BOGOTA 22	196.81	0.00	0.00	3.83	0.50
652.17S	163.41	488.76					
HJCY-B (270)	CO	BOGOTA 22	197.75	0.00	0.00	4.30	0.50
581.37S	159.66	421.71					
HJCY-B (275)	CO	BOGOTA 22	198.53	0.00	0.00	4.87	0.50
513.27S	156.64	356.63					
HJCY-B (280)	CO	BOGOTA 22	199.11	0.00	0.00	5.61	0.50
445.50S	154.42	291.08					
HJCY-B (285)	CO	BOGOTA 22	199.47	0.00	0.00	6.58	0.50
380.13S	153.08	227.05					
HJCY-B (290)	CO	BOGOTA 22	199.56	0.00	0.00	7.68	0.50
325.43S	152.74	172.70					
HJCY-B (295)	CO	BOGOTA 22	199.33	0.53	0.53	9.20	0.50
271.68S	153.56	118.12					
HJCY-B (300)	CO	BOGOTA 22	198.72	1.21	1.21	11.28	0.50
221.71S	155.76	65.96					
HJCY-B (305)	CO	BOGOTA 22	197.65	1.94	1.94	14.23	0.50
199.05E	159.70	39.35					
HJCY-B (310)	CO	BOGOTA 22	196.01	2.70	2.70	18.18	0.50
201.21E	165.83	35.38					
HJCY-B (315)	CO	BOGOTA 22	193.71	3.50	3.50	23.59	0.50
203.42E	174.62	28.80					
HJCY-B (320)	CO	BOGOTA 22	190.63	4.32	4.32	29.50	0.50
205.03E	186.09	18.94					
HJCY-B (325)	CO	BOGOTA 22	186.64	5.13	5.13	35.86	0.50
204.86E	198.95	5.90					
HJCY-B (330)	CO	BOGOTA 22	181.69	5.88	5.88	42.01	0.50
201.11E	209.09	-7.99					
HJCY-B (335)	CO	BOGOTA 22	175.80	6.50	6.50	47.05	0.50
191.77E	208.83	-17.06					

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HJCY-B (340)	CO	BOGOTA 22	169.13	6.91	6.91	50.43	0.50
174.46E	187.46	-13.00					
HJCY-B (345)	CO	BOGOTA 22	162.04	7.04	7.04	51.64	0.50
147.78E	139.01	8.77					
HJCY-B (350)	CO	BOGOTA 22	154.98	6.88	6.88	50.14	0.50
112.24E	72.40	39.84					
HJCY-B (355)	CO	BOGOTA 22	148.41	6.44	6.44	46.58	0.50
71.00E	28.74	42.25					
WGY (0)	US NY	SCHENECTADY	17.78	0.00	2.64	12.49	0.88
350.69s	24.39	326.31					
WGY (5)	US NY	SCHENECTADY	18.37	0.00	2.59	12.37	0.88
355.32s	22.43	332.89					
WGY (10)	US NY	SCHENECTADY	18.96	0.00	2.54	12.24	0.88
361.23s	20.55	340.68					
WGY (15)	US NY	SCHENECTADY	19.57	0.00	2.48	12.12	0.89
368.14s	18.81	349.33					
WGY (20)	US NY	SCHENECTADY	20.21	0.00	2.42	11.98	0.91
377.72s	17.29	360.43					
WGY (25)	US NY	SCHENECTADY	20.88	0.00	2.36	11.86	0.91
385.01s	16.13	368.88					
WGY (30)	US NY	SCHENECTADY	21.60	0.00	2.30	11.71	0.92
394.26s	15.54	378.72					
WGY (35)	US NY	SCHENECTADY	23.60	0.00	0.53	7.86	0.50
318.26S	17.84	300.41					
WGY (40)	US NY	SCHENECTADY	25.00	0.00	0.54	7.94	0.50
314.77S	21.90	292.87					
WGY (45)	US NY	SCHENECTADY	26.41	0.00	0.57	8.06	0.50
310.34S	26.85	283.49					
WGY (50)	US NY	SCHENECTADY	27.60	0.00	0.75	8.45	0.53
315.35s	31.20	284.15					
WGY (55)	US NY	SCHENECTADY	28.56	0.00	1.00	9.01	0.59
325.95s	34.58	291.37					
WGY (60)	US NY	SCHENECTADY	29.80	0.00	1.10	9.28	0.59
320.26s	38.63	281.63					
WGY (65)	US NY	SCHENECTADY	31.28	0.00	1.13	9.41	0.58

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306.12s	42.73	263.39					
WGY (70)	US NY	SCHENECTADY	32.00	0.00	1.41	10.05	0.63
312.24s	44.37	267.87					
WGY (75)	US NY	SCHENECTADY	32.60	0.00	1.69	10.70	0.68
316.51s	45.50	271.00					
WGY (80)	US NY	SCHENECTADY	33.24	0.00	1.94	11.30	0.71
315.92s	46.50	269.42					
WGY (85)	US NY	SCHENECTADY	33.86	0.00	2.17	11.90	0.74
312.40s	47.22	265.19					
WGY (90)	US NY	SCHENECTADY	35.04	0.00	2.31	12.30	0.73
298.03s	47.82	250.22					
WGY (95)	US NY	SCHENECTADY	36.79	0.00	2.40	12.60	0.69
273.65s	46.69	226.96					
WGY (100)	US NY	SCHENECTADY	38.90	0.00	2.48	12.92	0.63
245.59s	41.66	203.93					
WGY (105)	US NY	SCHENECTADY	41.53	0.00	2.56	13.25	0.57
213.41s	29.66	183.75					
WGY (110)	US NY	SCHENECTADY	44.53	0.00	2.66	13.68	0.50
182.80S	19.52	163.27					
WGY (115)	US NY	SCHENECTADY	45.71	0.13	2.99	14.62	0.50
171.01S	27.71	143.29					
WGY (120)	US NY	SCHENECTADY	46.78	0.41	3.36	15.69	0.50
159.35S	40.65	118.71					
WGY (125)	US NY	SCHENECTADY	47.77	0.71	3.77	16.89	0.50
147.99S	55.61	92.38					
WGY (130)	US NY	SCHENECTADY	48.64	1.04	4.21	18.26	0.50
136.94S	70.67	66.26					
WGY (135)	US NY	SCHENECTADY	49.33	1.40	4.70	19.80	0.50
127.94E	84.13	43.81					
WGY (140)	US NY	SCHENECTADY	49.88	1.78	5.23	21.56	0.50
132.19E	95.60	36.58					
WGY (145)	US NY	SCHENECTADY	50.18	2.20	5.80	23.55	0.50
134.67E	102.88	31.80					
WGY (150)	US NY	SCHENECTADY	50.24	2.65	6.43	25.79	0.50
135.45E	105.13	30.32					

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WGY (155)	US NY	SCHENECTADY	49.99	3.13	7.11	28.33	0.50
134.06E	101.54	32.52					
WGY (160)	US NY	SCHENECTADY	49.40	3.64	7.84	31.18	0.50
130.35E	91.27	39.08					
WGY (165)	US NY	SCHENECTADY	48.35	4.17	8.61	34.33	0.50
123.58E	74.00	49.58					
WGY (170)	US NY	SCHENECTADY	46.88	4.73	9.42	37.80	0.50
114.12E	52.13	61.99					
WGY (175)	US NY	SCHENECTADY	44.83	5.30	10.25	41.47	0.50
101.43E	28.47	72.95					
WGY (180)	US NY	SCHENECTADY	42.20	5.86	11.07	45.25	0.50
85.74E	23.40	62.33					
WGY (185)	US NY	SCHENECTADY	38.96	6.38	11.84	48.93	0.50
67.62E	38.66	28.95					
WGY (190)	US NY	SCHENECTADY	35.13	6.84	12.52	52.22	0.50
48.41E	46.37	2.04					
WGY (195)	US NY	SCHENECTADY	30.77	7.18	13.02	54.73	0.50
45.68S	42.30	3.38					
WGY (200)	US NY	SCHENECTADY	26.06	7.39	13.33	56.25	0.50
44.44S	32.76	11.68					
WGY (205)	US NY	SCHENECTADY	21.19	7.42	13.38	56.43	0.50
44.30S	19.88	24.42					
WGY (210)	US NY	SCHENECTADY	16.40	7.30	13.19	55.40	0.50
45.13S	23.54	21.59					
WGY (215)	US NY	SCHENECTADY	11.92	7.01	12.77	53.16	0.50
47.03S	37.36	9.67					
WGY (220)	US NY	SCHENECTADY	7.93	6.60	12.16	50.02	0.50
49.98S	47.31	2.67					
WGY (225)	US NY	SCHENECTADY	4.48	6.12	11.45	46.47	0.50
53.80S	53.21	0.59					
WGY (230)	US NY	SCHENECTADY	1.63	5.60	10.68	42.73	0.50
58.51S	56.14	2.38					
WGY (235)	US NY	SCHENECTADY	359.38	5.05	9.88	38.99	0.50
64.12S	57.38	6.74					
WGY (240)	US NY	SCHENECTADY	357.64	4.52	9.11	35.48	0.50

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70.47S	57.95	12.53					
WGY (245)	US	NY	SCHENECTADY	356.40	4.00	8.35	0.50
77.62S	58.10	19.52					
WGY (250)	US	NY	SCHENECTADY	355.57	3.50	7.64	0.50
85.47S	58.20	27.27					
WGY (255)	US	NY	SCHENECTADY	355.09	3.03	6.98	0.50
93.97S	58.34	35.63					
WGY (260)	US	NY	SCHENECTADY	354.91	2.60	6.36	0.50
103.10S	58.51	44.59					
WGY (265)	US	NY	SCHENECTADY	359.44	2.11	5.67	0.62
143.09s	60.18	82.91					
WGY (270)	US	NY	SCHENECTADY	355.28	1.82	5.27	0.50
123.00S	59.10	63.90					
WGY (275)	US	NY	SCHENECTADY	355.73	1.47	4.79	0.50
133.67S	59.44	74.23					
WGY (280)	US	NY	SCHENECTADY	356.32	1.14	4.35	0.50
144.75S	59.83	84.91					
WGY (285)	US	NY	SCHENECTADY	357.04	0.84	3.94	0.50
156.16S	60.19	95.97					
WGY (290)	US	NY	SCHENECTADY	11.16	0.94	4.07	0.96
292.89s	45.99	246.90					
WGY (295)	US	NY	SCHENECTADY	12.71	0.85	3.94	0.91
281.99s	41.54	240.45					
WGY (300)	US	NY	SCHENECTADY	12.88	0.74	3.81	0.90
288.14s	41.04	247.10					
WGY (305)	US	NY	SCHENECTADY	13.04	0.64	3.67	0.90
293.80s	40.56	253.24					
WGY (310)	US	NY	SCHENECTADY	13.30	0.55	3.54	0.89
299.41s	39.75	259.66					
WGY (315)	US	NY	SCHENECTADY	13.68	0.46	3.43	0.88
302.36s	38.54	263.81					
WGY (320)	US	NY	SCHENECTADY	14.17	0.39	3.33	0.87
302.69s	36.95	265.74					
WGY (325)	US	NY	SCHENECTADY	14.38	0.30	3.21	0.88
314.02s	36.25	277.77					

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WGY (330)	US	NY	SCHENECTADY	14.68	0.21	3.09	13.62	0.88
323.36s	35.24		288.12					
WGY (335)	US	NY	SCHENECTADY	15.02	0.12	2.98	13.31	0.88
332.29s	34.06		298.23					
WGY (340)	US	NY	SCHENECTADY	15.42	0.04	2.87	13.03	0.89
342.96s	32.66		310.30					
WGY (345)	US	NY	SCHENECTADY	15.90	0.00	2.77	12.79	0.89
349.87s	30.98		318.88					
WGY (350)	US	NY	SCHENECTADY	16.56	0.00	2.73	12.70	0.88
348.39s	28.64		319.75					
WGY (355)	US	NY	SCHENECTADY	17.19	0.00	2.69	12.60	0.88
348.76s	26.44		322.32					
YSAX-D (0)	ES		SAN SALVADOR	213.76	3.87	3.87	26.21	0.50
147.18E	123.45		23.73					
YSAX-D (5)	ES		SAN SALVADOR	212.64	3.98	3.98	26.97	0.50
152.19E	123.77		28.43					
YSAX-D (10)	ES		SAN SALVADOR	211.46	4.06	4.06	27.59	0.50
157.23E	124.42		32.81					
YSAX-D (15)	ES		SAN SALVADOR	210.22	4.12	4.12	28.04	0.50
162.19E	125.52		36.68					
YSAX-D (20)	ES		SAN SALVADOR	208.95	4.16	4.16	28.31	0.50
167.09E	127.02		40.07					
YSAX-D (25)	ES		SAN SALVADOR	207.66	4.17	4.17	28.40	0.50
171.73E	129.03		42.71					
YSAX-D (30)	ES		SAN SALVADOR	206.37	4.16	4.16	28.29	0.50
176.06E	131.48		44.59					
YSAX-D (35)	ES		SAN SALVADOR	205.10	4.12	4.12	27.99	0.50
180.12E	134.37		45.75					
YSAX-D (40)	ES		SAN SALVADOR	203.87	4.05	4.05	27.51	0.50
183.68E	137.53		46.15					
YSAX-D (45)	ES		SAN SALVADOR	202.69	3.96	3.96	26.87	0.50
186.93E	140.95		45.98					
YSAX-D (50)	ES		SAN SALVADOR	201.58	3.85	3.85	26.09	0.50
189.77E	144.48		45.29					
YSAX-D (55)	ES		SAN SALVADOR	200.54	3.73	3.73	25.17	0.50

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192.30E	148.05	44.25					
YSAX-D (60)	ES	SAN SALVADOR	199.60	3.58	3.58	24.17	0.50
194.37E	151.44	42.93					
YSAX-D (65)	ES	SAN SALVADOR	198.75	3.42	3.42	23.01	0.50
196.19E	154.67	41.51					
YSAX-D (70)	ES	SAN SALVADOR	198.01	3.25	3.25	21.79	0.50
197.61E	157.55	40.06					
YSAX-D (75)	ES	SAN SALVADOR	197.38	3.08	3.08	20.56	0.50
198.84E	160.15	38.69					
YSAX-D (80)	ES	SAN SALVADOR	196.85	2.89	2.89	19.35	0.50
199.83E	162.36	37.47					
YSAX-D (85)	ES	SAN SALVADOR	196.43	2.71	2.71	18.20	0.50
200.61E	164.16	36.45					
YSAX-D (90)	ES	SAN SALVADOR	196.11	2.52	2.52	17.10	0.50
201.19E	165.54	35.65					
YSAX-D (95)	ES	SAN SALVADOR	195.90	2.33	2.33	16.08	0.50
201.61E	166.51	35.10					
YSAX-D (100)	ES	SAN SALVADOR	195.79	2.14	2.14	15.16	0.50
201.81E	167.06	34.75					
YSAX-D (105)	ES	SAN SALVADOR	195.77	1.96	1.96	14.31	0.50
201.94E	167.18	34.75					
YSAX-D (110)	ES	SAN SALVADOR	195.85	1.78	1.78	13.53	0.50
201.92E	166.97	34.96					
YSAX-D (115)	ES	SAN SALVADOR	196.00	1.60	1.60	12.81	0.50
201.78E	166.40	35.38					
YSAX-D (120)	ES	SAN SALVADOR	196.24	1.44	1.44	12.14	0.50
205.93S	165.49	40.43					
YSAX-D (125)	ES	SAN SALVADOR	196.56	1.27	1.27	11.51	0.50
217.11S	164.25	52.86					
YSAX-D (130)	ES	SAN SALVADOR	196.94	1.12	1.12	10.96	0.50
228.19S	162.77	65.42					
YSAX-D (135)	ES	SAN SALVADOR	197.11	0.95	0.95	10.37	0.50
241.15S	162.12	79.04					
YSAX-D (140)	ES	SAN SALVADOR	197.89	0.84	0.84	10.06	0.50
248.57S	159.05	89.52					

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YSAX-D (145)	ES	SAN SALVADOR	198.45	0.71	0.71	9.70	0.50
257.63S	156.89	100.74					
YSAX-D (150)	ES	SAN SALVADOR	198.92	0.57	0.57	9.32	0.50
268.18S	155.12	113.06					
YSAX-D (155)	ES	SAN SALVADOR	198.96	0.34	0.34	8.75	0.50
285.67S	154.96	130.71					
YSAX-D (160)	ES	SAN SALVADOR	199.18	0.11	0.11	8.21	0.50
304.38S	154.17	150.21					
YSAX-D (165)	ES	SAN SALVADOR	199.65	0.00	0.00	7.75	0.50
322.70S	152.42	170.28					
YSAX-D (170)	ES	SAN SALVADOR	200.52	0.00	0.00	7.49	0.50
333.65S	149.28	184.37					
YSAX-D (175)	ES	SAN SALVADOR	201.47	0.00	0.00	7.29	0.50
343.02S	146.04	196.98					
YSAX-D (180)	ES	SAN SALVADOR	202.46	0.00	0.00	7.12	0.50
350.90S	142.83	208.07					
YSAX-D (185)	ES	SAN SALVADOR	203.44	0.00	0.00	6.97	0.50
358.94S	139.87	219.06					
YSAX-D (190)	ES	SAN SALVADOR	204.46	0.00	0.00	6.86	0.50
364.45S	137.04	227.40					
YSAX-D (195)	ES	SAN SALVADOR	205.53	0.00	0.00	6.79	0.50
368.37S	134.38	233.99					
YSAX-D (200)	ES	SAN SALVADOR	206.62	0.00	0.00	6.74	0.50
370.66S	131.95	238.71					
YSAX-D (205)	ES	SAN SALVADOR	207.73	0.00	0.00	6.74	0.50
371.06S	129.83	241.23					
YSAX-D (210)	ES	SAN SALVADOR	208.82	0.00	0.00	6.78	0.50
368.92S	128.06	240.87					
YSAX-D (215)	ES	SAN SALVADOR	209.89	0.00	0.00	6.85	0.50
365.21S	126.65	238.56					
YSAX-D (220)	ES	SAN SALVADOR	210.92	0.00	0.00	6.95	0.50
359.71S	125.59	234.13					
YSAX-D (225)	ES	SAN SALVADOR	211.87	0.00	0.00	7.14	0.50
350.14S	124.85	225.29					
YSAX-D (230)	ES	SAN SALVADOR	212.70	0.00	0.00	7.44	0.50

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335.80S	124.40	211.40					
YSAX-D (235)	ES	SAN SALVADOR	213.37	0.00	0.00	7.83	0.50
319.37S	124.15	195.22					
YSAX-D (240)	ES	SAN SALVADOR	213.77	0.17	0.17	8.34	0.50
299.88S	124.05	175.83					
YSAX-D (245)	ES	SAN SALVADOR	214.31	0.31	0.31	8.68	0.50
288.04S	123.98	164.07					
YSAX-D (250)	ES	SAN SALVADOR	215.03	0.40	0.40	8.89	0.50
281.06S	123.97	157.09					
YSAX-D (255)	ES	SAN SALVADOR	215.72	0.50	0.50	9.14	0.50
273.42S	124.07	149.35					
YSAX-D (260)	ES	SAN SALVADOR	216.37	0.61	0.61	9.44	0.50
264.90S	124.24	140.67					
YSAX-D (265)	ES	SAN SALVADOR	216.98	0.73	0.73	9.76	0.50
256.06S	124.46	131.60					
YSAX-D (270)	ES	SAN SALVADOR	217.53	0.86	0.86	10.12	0.50
246.98S	124.71	122.27					
YSAX-D (275)	ES	SAN SALVADOR	218.03	1.00	1.00	10.54	0.50
237.27S	124.97	112.29					
YSAX-D (280)	ES	SAN SALVADOR	218.48	1.15	1.15	11.05	0.50
226.34S	125.23	101.10					
YSAX-D (285)	ES	SAN SALVADOR	218.86	1.30	1.30	11.62	0.50
215.21S	125.46	89.75					
YSAX-D (290)	ES	SAN SALVADOR	219.16	1.46	1.46	12.25	0.50
204.10S	125.65	78.45					
YSAX-D (295)	ES	SAN SALVADOR	219.40	1.63	1.63	12.92	0.50
193.44S	125.81	67.64					
YSAX-D (300)	ES	SAN SALVADOR	219.55	1.81	1.81	13.65	0.50
183.10S	125.89	57.21					
YSAX-D (305)	ES	SAN SALVADOR	219.62	1.99	1.99	14.44	0.50
173.08S	125.91	47.17					
YSAX-D (310)	ES	SAN SALVADOR	219.60	2.17	2.17	15.30	0.50
163.36S	125.86	37.49					
YSAX-D (315)	ES	SAN SALVADOR	219.48	2.36	2.36	16.24	0.50
153.97S	125.74	28.24					

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YSAX-D (320)	ES	SAN SALVADOR	219.26	2.55	2.55	17.27	0.50
144.79S	125.56	19.23					
YSAX-D (325)	ES	SAN SALVADOR	218.94	2.74	2.74	18.37	0.50
136.07S	125.29	10.77					
YSAX-D (330)	ES	SAN SALVADOR	218.52	2.92	2.92	19.53	0.50
128.00S	124.97	3.04					
YSAX-D (335)	ES	SAN SALVADOR	217.98	3.10	3.10	20.75	0.50
126.18E	124.60	1.59					
YSAX-D (340)	ES	SAN SALVADOR	217.34	3.28	3.28	21.97	0.50
129.57E	124.21	5.35					
YSAX-D (345)	ES	SAN SALVADOR	216.59	3.45	3.45	23.18	0.50
133.41E	123.87	9.54					
YSAX-D (350)	ES	SAN SALVADOR	215.74	3.60	3.60	24.32	0.50
137.74E	123.57	14.16					
YSAX-D (355)	ES	SAN SALVADOR	214.79	3.75	3.75	25.31	0.50
142.30E	123.43	18.87					
WKVM	US PR	SAN JUAN	122.78	0.00	2.73	19.11	1.02
267.28	228.33	38.95					
50% = 4.086, 25% = 4.086; WGY=4.09							
YSFA-B (0)	ES	SAN VICENTE	207.60	2.36	2.36	16.26	0.50
173.23E	129.75	43.48					
YSFA-B (5)	ES	SAN VICENTE	207.34	2.38	2.38	16.36	0.50
174.13E	130.23	43.90					
YSFA-B (10)	ES	SAN VICENTE	207.07	2.40	2.40	16.46	0.50
175.05E	130.74	44.31					
YSFA-B (15)	ES	SAN VICENTE	206.79	2.41	2.41	16.52	0.50
175.98E	131.28	44.70					
YSFA-B (20)	ES	SAN VICENTE	206.52	2.47	2.47	16.84	0.50
176.81E	131.80	45.01					
YSFA-B (25)	ES	SAN VICENTE	206.21	2.49	2.49	16.93	0.50
177.85E	132.47	45.38					
YSFA-B (30)	ES	SAN VICENTE	205.88	2.49	2.49	16.93	0.50
178.89E	133.19	45.70					
YSFA-B (35)	ES	SAN VICENTE	205.57	2.47	2.47	16.84	0.50

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179.88E	133.91	45.96					
YSFA-B (40)	ES	SAN VICENTE	205.26	2.45	2.45	16.74	0.50
180.81E	134.64	46.18					
YSFA-B (45)	ES	SAN VICENTE	204.97	2.43	2.43	16.61	0.50
181.69E	135.38	46.31					
YSFA-B (50)	ES	SAN VICENTE	204.81	2.36	2.36	16.26	0.50
182.22E	135.78	46.44					
YSFA-B (55)	ES	SAN VICENTE	204.70	2.30	2.30	15.92	0.50
182.59E	136.09	46.51					
YSFA-B (60)	ES	SAN VICENTE	204.44	2.28	2.28	15.83	0.50
183.35E	136.76	46.59					
YSFA-B (65)	ES	SAN VICENTE	204.24	2.25	2.25	15.67	0.50
183.93E	137.33	46.61					
YSFA-B (70)	ES	SAN VICENTE	204.16	2.20	2.20	15.43	0.50
184.21E	137.53	46.67					
YSFA-B (75)	ES	SAN VICENTE	203.97	2.17	2.17	15.28	0.50
184.76E	138.06	46.69					
YSFA-B (80)	ES	SAN VICENTE	203.70	2.14	2.14	15.16	0.50
185.51E	138.84	46.66					
YSFA-B (85)	ES	SAN VICENTE	203.52	2.10	2.10	14.98	0.50
186.05E	139.35	46.70					
YSFA-B (90)	ES	SAN VICENTE	203.29	2.07	2.07	14.81	0.50
186.66E	140.01	46.66					
YSFA-B (95)	ES	SAN VICENTE	202.96	2.03	2.03	14.65	0.50
187.55E	141.02	46.53					
YSFA-B (100)	ES	SAN VICENTE	203.10	1.97	1.97	14.38	0.50
187.22E	140.59	46.62					
YSFA-B (105)	ES	SAN VICENTE	202.72	1.93	1.93	14.19	0.50
188.26E	141.76	46.49					
YSFA-B (110)	ES	SAN VICENTE	202.73	1.87	1.87	13.95	0.50
188.23E	141.74	46.49					
YSFA-B (115)	ES	SAN VICENTE	202.83	1.82	1.82	13.72	0.50
188.00E	141.45	46.56					
YSFA-B (120)	ES	SAN VICENTE	203.32	1.78	1.78	13.55	0.50
186.72E	140.01	46.71					

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YSFA-B (125)	ES	SAN VICENTE	202.05	1.68	1.68	13.11	0.50
190.67S	143.92	46.75					
YSFA-B (130)	ES	SAN VICENTE	201.11	1.55	1.55	12.58	0.50
198.75S	147.06	51.69					
YSFA-B (135)	ES	SAN VICENTE	200.54	1.41	1.41	12.02	0.50
207.91S	149.06	58.84					
YSFA-B (140)	ES	SAN VICENTE	200.35	1.28	1.28	11.53	0.50
216.86S	149.73	67.13					
YSFA-B (145)	ES	SAN VICENTE	199.79	1.08	1.08	10.81	0.50
231.17S	151.80	79.38					
YSFA-B (150)	ES	SAN VICENTE	199.93	0.95	0.95	10.37	0.50
241.11S	151.34	89.77					
YSFA-B (155)	ES	SAN VICENTE	200.28	0.84	0.84	10.07	0.50
248.37S	150.08	98.28					
YSFA-B (160)	ES	SAN VICENTE	200.42	0.68	0.68	9.62	0.50
259.84S	149.59	110.25					
YSFA-B (165)	ES	SAN VICENTE	200.92	0.58	0.58	9.35	0.50
267.26S	147.85	119.41					
YSFA-B (170)	ES	SAN VICENTE	201.56	0.52	0.52	9.17	0.50
272.51S	145.72	126.79					
YSFA-B (175)	ES	SAN VICENTE	202.26	0.47	0.47	9.06	0.50
275.82S	143.44	132.39					
YSFA-B (180)	ES	SAN VICENTE	202.97	0.44	0.44	8.99	0.50
278.21S	141.25	136.96					
YSFA-B (185)	ES	SAN VICENTE	203.68	0.42	0.42	8.92	0.50
280.20S	139.19	141.01					
YSFA-B (190)	ES	SAN VICENTE	204.37	0.39	0.39	8.86	0.50
282.31S	137.27	145.03					
YSFA-B (195)	ES	SAN VICENTE	205.07	0.36	0.36	8.80	0.50
284.25S	135.48	148.77					
YSFA-B (200)	ES	SAN VICENTE	205.78	0.35	0.35	8.76	0.50
285.28S	133.78	151.50					
YSFA-B (205)	ES	SAN VICENTE	206.49	0.35	0.35	8.76	0.50
285.40S	132.21	153.19					
YSFA-B (210)	ES	SAN VICENTE	207.21	0.36	0.36	8.78	0.50

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284.62S	130.77	153.85					
YSFA-B (215)	ES	SAN VICENTE	207.91	0.38	0.38	8.84	0.50
282.94S	129.50	153.44					
YSFA-B (220)	ES	SAN VICENTE	208.60	0.41	0.41	8.92	0.50
280.32S	128.39	151.93					
YSFA-B (225)	ES	SAN VICENTE	209.17	0.50	0.50	9.14	0.50
273.53S	127.55	145.97					
YSFA-B (230)	ES	SAN VICENTE	209.60	0.63	0.63	9.49	0.50
263.51S	126.99	136.52					
YSFA-B (235)	ES	SAN VICENTE	209.87	0.78	0.78	9.89	0.50
252.69S	126.64	126.05					
YSFA-B (240)	ES	SAN VICENTE	209.96	0.95	0.95	10.36	0.50
241.34S	126.53	114.81					
YSFA-B (245)	ES	SAN VICENTE	210.27	1.03	1.03	10.64	0.50
235.05S	126.18	108.87					
YSFA-B (250)	ES	SAN VICENTE	210.87	1.05	1.05	10.70	0.50
233.55S	125.58	107.97					
YSFA-B (255)	ES	SAN VICENTE	210.45	1.25	1.25	11.40	0.50
219.23S	125.97	93.26					
YSFA-B (260)	ES	SAN VICENTE	209.60	1.46	1.46	12.22	0.50
204.53S	126.89	77.64					
YSFA-B (265)	ES	SAN VICENTE	208.12	1.68	1.68	13.12	0.50
190.59S	129.00	61.59					
YSFA-B (270)	ES	SAN VICENTE	208.22	1.71	1.71	13.23	0.50
188.98S	128.85	60.13					
YSFA-B (275)	ES	SAN VICENTE	208.29	1.74	1.74	13.35	0.50
187.28S	128.73	58.55					
YSFA-B (280)	ES	SAN VICENTE	209.13	1.73	1.73	13.32	0.50
187.72S	127.49	60.23					
YSFA-B (285)	ES	SAN VICENTE	209.69	1.75	1.75	13.42	0.50
186.22S	126.74	59.48					
YSFA-B (290)	ES	SAN VICENTE	209.70	1.81	1.81	13.65	0.50
183.18S	126.72	56.46					
YSFA-B (295)	ES	SAN VICENTE	209.25	1.86	1.86	13.88	0.50
180.12S	127.28	52.84					

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YSFA-B (300)	ES	SAN VICENTE	209.21	1.90	1.90	14.07	0.50
177.64S	127.34	50.30					
YSFA-B (305)	ES	SAN VICENTE	209.14	1.95	1.95	14.26	0.50
175.27S	127.44	47.84					
YSFA-B (310)	ES	SAN VICENTE	209.15	1.99	1.99	14.47	0.50
172.81S	127.40	45.41					
YSFA-B (315)	ES	SAN VICENTE	209.05	2.03	2.03	14.66	0.50
170.58S	127.54	43.03					
YSFA-B (320)	ES	SAN VICENTE	208.86	2.07	2.07	14.82	0.50
168.80E	127.78	41.02					
YSFA-B (325)	ES	SAN VICENTE	208.74	2.11	2.11	14.99	0.50
169.28E	127.97	41.31					
YSFA-B (330)	ES	SAN VICENTE	208.54	2.13	2.13	15.13	0.50
169.97E	128.27	41.70					
YSFA-B (335)	ES	SAN VICENTE	208.39	2.17	2.17	15.29	0.50
170.51E	128.48	42.03					
YSFA-B (340)	ES	SAN VICENTE	208.32	2.22	2.22	15.51	0.50
170.78E	128.59	42.19					
YSFA-B (345)	ES	SAN VICENTE	208.22	2.26	2.26	15.76	0.50
171.06E	128.72	42.34					
YSFA-B (350)	ES	SAN VICENTE	208.02	2.30	2.30	15.91	0.50
171.78E	129.04	42.74					
YSFA-B (355)	ES	SAN VICENTE	207.84	2.34	2.34	16.12	0.50
172.37E	129.35	43.02					
C6B3-B	BF	FREEPORT	130.02	21.80	34.39	173.69	7.37
212.15	149.53	62.63					

50% = 15.754, 25% = 17.927; CMMB-D=13.92 HJCY-B=7.37 WGY=7.07 TGMM-B=4.81

WNSI	US AL	JACKSONVILLE	326.00	9.71	16.78	75.42	2.84
188.49	116.21	72.28					
50% = 11.372, 25% = 11.372; WGY=11.37							

XERB1/O	MX QR	COZUMEL	212.82	7.90	7.90	58.34	2.45
210.06	121.69	88.36					
50% = 4.902, 25% = 6.592; XEOE/A=4.90 WGY=2.38 XEIN/A=2.27 WSJC=2.20 WNSI=1.95							

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XEMQ1/O MX YC MERIDA 226.22 6.62 6.62 47.85 2.80
 292.93 129.37 163.56
 50% = 6.213, 25% = 7.688; XEOE/A=5.54 XEIN/A=2.80 WSJC=2.49 WGY=2.25 WHB=2.24
 WNSI=2.06

XE/O MX QR FELIPE CARRILLO 215.63 6.37 6.37 45.82 2.94
 321.01 122.46 198.55
 50% = 5.883, 25% = 7.079; XEOE/A=5.88 XEIN/A=2.72 WGY=2.12 WSJC=1.91

KGO (0)	US CA SAN FRANCISCO	313.80	0.00	0.00	2.06	0.50
1210.83S	162.18 1048.65					
KGO (5)	US CA SAN FRANCISCO	313.62	0.00	0.00	2.26	0.50
1104.06S	162.42 941.64					
KGO (10)	US CA SAN FRANCISCO	313.18	0.00	0.00	2.49	0.50
1004.03S	162.90 841.13					
KGO (15)	US CA SAN FRANCISCO	312.46	0.00	0.00	2.74	0.50
913.41S	163.40 750.00					
KGO (20)	US CA SAN FRANCISCO	311.49	0.00	0.00	3.00	0.50
834.39S	163.53 670.86					
KGO (25)	US CA SAN FRANCISCO	310.55	0.00	0.00	3.25	0.50
769.85S	163.01 606.84					
KGO (30)	US CA SAN FRANCISCO	308.96	0.00	0.00	3.50	0.50
713.73S	160.66 553.07					
KGO (35)	US CA SAN FRANCISCO	306.81	0.00	0.00	3.72	0.50
671.75S	154.48 517.27					
KGO (40)	US CA SAN FRANCISCO	304.71	0.00	0.00	3.88	0.50
644.79S	145.31 499.48					
KGO (45)	US CA SAN FRANCISCO	302.27	0.00	0.00	3.94	0.50
634.66S	131.34 503.32					
KGO (50)	US CA SAN FRANCISCO	299.37	0.00	0.00	3.85	0.50
648.85S	112.55 536.30					
KGO (55)	US CA SAN FRANCISCO	297.74	0.00	0.00	3.77	0.50
663.22S	102.82 560.40					
KGO (60)	US CA SAN FRANCISCO	297.78	0.00	0.00	3.86	0.50

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647.52S	103.05	544.47					
KGO (65)	US	CA	SAN FRANCISCO	297.27	0.00	0.00	3.86 0.50
646.99S	100.38	546.60					
KGO (70)	US	CA	SAN FRANCISCO	297.19	0.00	0.00	3.97 0.50
630.27S	100.02	530.25					
KGO (75)	US	CA	SAN FRANCISCO	296.94	0.00	0.00	4.05 0.50
616.87S	98.89	517.99					
KGO (80)	US	CA	SAN FRANCISCO	296.61	0.00	0.00	4.13 0.50
604.87S	97.47	507.40					
KGO (85)	US	CA	SAN FRANCISCO	296.23	0.00	0.00	4.22 0.50
591.97S	96.03	495.94					
KGO (90)	US	CA	SAN FRANCISCO	295.75	0.00	0.00	4.24 0.50
589.87S	94.56	495.31					
KGO (95)	US	CA	SAN FRANCISCO	295.28	0.00	0.00	4.30 0.50
581.66S	93.50	488.16					
KGO (100)	US	CA	SAN FRANCISCO	294.52	0.00	0.00	4.66 0.50
536.21S	92.72	443.49					
KGO (105)	US	CA	SAN FRANCISCO	293.07	0.00	0.00	5.29 0.50
472.80S	94.65	378.15					
KGO (110)	US	CA	SAN FRANCISCO	291.05	0.00	0.00	5.91 0.50
422.89S	104.77	318.12					
KGO (115)	US	CA	SAN FRANCISCO	288.64	0.00	0.00	6.43 0.50
388.54S	125.47	263.08					
KGO (120)	US	CA	SAN FRANCISCO	285.94	0.00	0.00	6.83 0.50
366.13S	153.83	212.29					
KGO (125)	US	CA	SAN FRANCISCO	285.32	0.00	0.00	6.41 0.62
486.30s	160.58	325.72					
KGO (130)	US	CA	SAN FRANCISCO	286.56	0.00	0.00	5.64 0.91
807.13s	147.16	659.97					
KGO (135)	US	CA	SAN FRANCISCO	286.46	0.00	0.00	5.35 1.09
1017.90s	148.28	869.62					
KGO (140)	US	CA	SAN FRANCISCO	286.44	0.00	0.00	5.10 1.27
1240.73s	148.51	1092.22					
KGO (145)	US	CA	SAN FRANCISCO	286.20	0.00	0.00	4.92 1.39
1408.47s	151.10	1257.37					

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KGO (150)	US CA SAN FRANCISCO	285.05	0.00	0.00	4.88	1.34
1375.48s	163.59 1211.89					
KGO (155)	US CA SAN FRANCISCO	283.87	0.00	0.00	4.81	1.27
1321.10s	176.24 1144.87					
KGO (160)	US CA SAN FRANCISCO	283.74	0.00	0.00	4.64	1.31
1408.34s	177.59 1230.76					
KGO (165)	US CA SAN FRANCISCO	283.62	0.00	0.00	4.47	1.31
1466.53s	178.79 1287.74					
KGO (170)	US CA SAN FRANCISCO	283.52	0.00	0.00	4.32	1.29
1492.47s	179.87 1312.59					
KGO (175)	US CA SAN FRANCISCO	283.43	0.00	0.00	4.17	1.24
1483.97s	180.86 1303.11					
KGO (180)	US CA SAN FRANCISCO	272.69	0.00	0.00	4.40	0.50
568.27S	244.37 323.89					
KGO (185)	US CA SAN FRANCISCO	274.22	0.00	0.00	4.11	0.50
607.82S	242.60 365.21					
KGO (190)	US CA SAN FRANCISCO	276.01	0.00	0.00	3.86	0.50
648.21S	237.14 411.07					
KGO (195)	US CA SAN FRANCISCO	278.00	0.00	0.00	3.63	0.50
688.50S	227.01 461.49					
KGO (200)	US CA SAN FRANCISCO	280.14	0.00	0.00	3.44	0.50
727.56S	211.65 515.91					
KGO (205)	US CA SAN FRANCISCO	282.42	0.00	0.00	3.28	0.50
762.36S	191.08 571.28					
KGO (210)	US CA SAN FRANCISCO	284.87	0.00	0.00	3.21	0.50
778.43S	165.72 612.72					
KGO (215)	US CA SAN FRANCISCO	287.50	0.00	0.00	3.19	0.50
783.97S	137.28 646.69					
KGO (220)	US CA SAN FRANCISCO	289.77	0.00	0.00	3.19	0.50
782.55S	114.99 667.55					
KGO (225)	US CA SAN FRANCISCO	290.62	0.00	0.00	3.15	0.50
793.12S	108.01 685.11					
KGO (230)	US CA SAN FRANCISCO	291.21	0.00	0.00	3.10	0.50
806.09S	103.84 702.24					
KGO (235)	US CA SAN FRANCISCO	291.57	0.00	0.00	3.03	0.50

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824.20S	101.52	722.67					
KGO (240)	US	CA	SAN FRANCISCO	291.98	0.00	0.00	2.97 0.50
842.45S	99.20	743.26					
KGO (245)	US	CA	SAN FRANCISCO	292.44	0.00	0.00	2.91 0.50
860.40S	96.99	763.41					
KGO (250)	US	CA	SAN FRANCISCO	292.97	0.00	0.00	2.85 0.50
875.73S	95.00	780.73					
KGO (255)	US	CA	SAN FRANCISCO	293.54	0.00	0.00	2.81 0.50
888.14S	93.55	794.59					
KGO (260)	US	CA	SAN FRANCISCO	294.12	0.00	0.00	2.78 0.50
897.85S	92.81	805.04					
KGO (265)	US	CA	SAN FRANCISCO	294.68	0.00	0.00	2.76 0.50
907.20S	92.78	814.42					
KGO (270)	US	CA	SAN FRANCISCO	295.21	0.00	0.00	2.68 0.50
933.39S	93.36	840.02					
KGO (275)	US	CA	SAN FRANCISCO	295.84	0.00	0.00	2.53 0.50
986.96S	94.75	892.21					
KGO (280)	US	CA	SAN FRANCISCO	296.86	0.00	0.00	2.20 0.50
1136.25S	98.42	1037.83					
KGO (285)	US	CA	SAN FRANCISCO	298.17	0.00	0.00	1.96 0.50
1275.86S	105.09	1170.77					
KGO (290)	US	CA	SAN FRANCISCO	299.63	0.00	0.00	1.78 0.50
1402.31S	114.06	1288.25					
KGO (295)	US	CA	SAN FRANCISCO	301.14	0.00	0.00	1.65 0.50
1511.37S	123.93	1387.44					
KGO (300)	US	CA	SAN FRANCISCO	302.63	0.00	0.00	1.56 0.50
1597.95S	133.40	1464.55					
KGO (305)	US	CA	SAN FRANCISCO	304.07	0.00	0.00	1.50 0.50
1664.32S	141.79	1522.53					
KGO (310)	US	CA	SAN FRANCISCO	305.46	0.00	0.00	1.46 0.50
1712.14S	148.80	1563.34					
KGO (315)	US	CA	SAN FRANCISCO	306.78	0.00	0.00	1.44 0.50
1740.97S	154.31	1586.66					
KGO (320)	US	CA	SAN FRANCISCO	308.04	0.00	0.00	1.43 0.50
1751.89S	158.39	1593.50					

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KGO (325)	US CA SAN FRANCISCO	309.24	0.00	0.00	1.43	0.50
1745.90S	161.18 1584.72					
KGO (330)	US CA SAN FRANCISCO	310.37	0.00	0.00	1.45	0.50
1723.11S	162.82 1560.28					
KGO (335)	US CA SAN FRANCISCO	311.39	0.00	0.00	1.49	0.50
1679.51S	163.50 1516.01					
KGO (340)	US CA SAN FRANCISCO	312.25	0.00	0.00	1.55	0.50
1612.56S	163.49 1449.07					
KGO (345)	US CA SAN FRANCISCO	312.95	0.00	0.00	1.64	0.50
1526.86S	163.10 1363.75					
KGO (350)	US CA SAN FRANCISCO	313.45	0.00	0.00	1.75	0.50
1427.46S	162.62 1264.84					
KGO (355)	US CA SAN FRANCISCO	313.07	0.00	0.00	1.96	0.54
1386.09S	163.00 1223.09					
WSJC	US MS MAGEE	296.83	7.36	13.29	57.06	3.92
343.52	106.38 237.14					
50% = 15.154, 25% = 15.68; WNSI=10.33 WHB=8.31 WGY=7.34 WBAP=4.03						
WPLK	US FL PALATKA	352.12	49.42	62.66	371.52	3.36
451.65	182.79 268.87					
50% = 11.856, 25% = 13.424; XEROK/A=9.37 WJAT=7.26 WDSC=3.79 WPJM=3.59 WSHO=3.52						
WDDD	US IL JOHNSTON CITY	328.12	3.80	8.08	31.74	2.77
436.02	103.62 332.40					
50% = 11.071, 25% = 11.071; WGY=11.07						
WHB	US MO KANSAS CITY	318.07	1.01	4.17	18.13	2.03
558.59	151.58 407.02					
50% = 7.268, 25% = 8.1; WGY=6.41 WBAP=3.43 WDDD=2.70 XEROK/A=2.35						
WMGG	US FL LARGO	241.65	43.08	57.19	341.80	3.65
533.38	105.77 427.62					
50% = 14.07, 25% = 14.585; WBAP=14.07 HJED-A=3.84						
KSJL	US TX SOMERSET	277.00	1.20	4.42	20.95	3.32

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793.41 232.30 561.11

50% = 11.613, 25% = 13.296; KXOI=7.45 WBAP=6.97 XEROK/A=5.55 WHB=5.32 WGY=3.70

XERI/O MX TA REYNOSA 264.49 2.69 2.69 17.99 3.00

833.90 211.63 622.27

50% = 6.002, 25% = 8.244; WHB=4.59 KSJL=3.87 WSJC=2.79 XERSV1/A=2.30 KXOI=2.24

XEUX/A=2.24 WGY=2.14

WNSI=2.06

XEOE/A MX CS TAPACHULA 218.52 1.55 1.55 12.55 1.93

770.21 125.30 644.91

50% = 3.866, 25% = 4.471; XEIN/A=3.87 XEAGR/A=1.38 WGY=1.31 WHB=1.19

WBAP (0) US TX FORT WORTH 302.36 1.10 4.29 19.32 0.50

1294.09G 132.44 1161.65

WBAP (5) US TX FORT WORTH 302.33 1.27 4.52 20.03 0.50

1248.42G 132.30 1116.12

WBAP (10) US TX FORT WORTH 301.52 1.46 4.78 20.88 0.50

1197.15G 127.34 1069.81

WBAP (15) US TX FORT WORTH 301.86 1.60 4.97 21.48 0.50

1164.04G 129.48 1034.57

WBAP (20) US TX FORT WORTH 302.08 1.75 5.18 22.13 0.50

1129.71G 130.89 998.82

WBAP (25) US TX FORT WORTH 302.18 1.90 5.39 22.83 0.50

1094.83G 131.58 963.25

WBAP (30) US TX FORT WORTH 302.20 2.06 5.61 23.59 0.50

1059.98G 131.75 928.23

WBAP (35) US TX FORT WORTH 302.18 2.23 5.85 24.38 0.50

1025.25G 131.65 893.60

WBAP (40) US TX FORT WORTH 302.19 2.41 6.10 25.25 0.50

989.93G 131.82 858.12

WBAP (45) US TX FORT WORTH 302.22 2.60 6.37 26.22 0.50

953.37G 132.08 821.29

WBAP (50) US TX FORT WORTH 301.52 2.76 6.59 27.06 0.50

923.81G 127.84 795.96

Nighttime Protection Report-Routh.txt

WBAP (55)	US	TX	FORT WORTH	299.63	2.79	6.64	27.33	0.50
914.64G	115.96		798.68					
WBAP (60)	US	TX	FORT WORTH	298.35	2.85	6.72	27.68	0.50
903.19G	108.33		794.86					
WBAP (65)	US	TX	FORT WORTH	297.31	2.91	6.81	28.05	0.50
891.12G	102.89		788.23					
WBAP (70)	US	TX	FORT WORTH	296.75	3.05	7.00	28.81	0.50
867.84G	100.46		767.38					
WBAP (75)	US	TX	FORT WORTH	296.07	3.18	7.19	29.55	0.50
846.06G	98.04		748.02					
WBAP (80)	US	TX	FORT WORTH	295.05	3.24	7.27	29.88	0.50
836.59G	95.56		741.03					
WBAP (85)	US	TX	FORT WORTH	294.02	3.28	7.33	30.16	0.50
828.97G	94.88		734.09					
WBAP (90)	US	TX	FORT WORTH	293.00	3.31	7.37	30.37	0.50
823.25G	96.34		726.91					
WBAP (95)	US	TX	FORT WORTH	291.98	3.33	7.40	30.51	0.50
819.50G	99.86		719.65					
WBAP (100)	US	TX	FORT WORTH	290.95	3.33	7.40	30.58	0.50
817.63G	105.31		712.31					
WBAP (105)	US	TX	FORT WORTH	289.94	3.33	7.39	30.57	0.50
817.80G	113.01		704.80					
WBAP (110)	US	TX	FORT WORTH	288.96	3.29	7.34	30.39	0.50
822.59G	121.73		700.86					
WBAP (115)	US	TX	FORT WORTH	288.14	3.16	7.16	29.75	0.50
840.30G	129.70		710.61					
WBAP (120)	US	TX	FORT WORTH	287.43	3.05	7.00	29.17	0.50
857.19G	137.06		720.13					
WBAP (125)	US	TX	FORT WORTH	286.81	2.94	6.84	28.61	0.50
873.80G	143.70		730.10					
WBAP (130)	US	TX	FORT WORTH	286.16	2.86	6.73	28.21	0.50
886.15G	150.65		735.50					
WBAP (135)	US	TX	FORT WORTH	285.53	2.78	6.62	27.83	0.50
898.20G	157.50		740.70					
WBAP (140)	US	TX	FORT WORTH	284.90	2.70	6.51	27.46	0.50

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910.29G	164.25	746.04					
WBAP (145)	US TX	FORT WORTH	284.29	2.62	6.39	27.08	0.50
923.10G	170.77	752.33					
WBAP (150)	US TX	FORT WORTH	283.74	2.53	6.27	26.66	0.50
937.67G	176.63	761.04					
WBAP (155)	US TX	FORT WORTH	283.15	2.44	6.15	26.25	0.50
952.26G	182.75	769.51					
WBAP (160)	US TX	FORT WORTH	282.58	2.35	6.02	25.82	0.50
968.39G	188.46	779.93					
WBAP (165)	US TX	FORT WORTH	281.16	2.29	5.94	25.60	0.50
976.61G	201.87	774.74					
WBAP (170)	US TX	FORT WORTH	279.52	2.21	5.82	25.25	0.50
990.12G	215.58	774.55					
WBAP (175)	US TX	FORT WORTH	278.77	2.07	5.62	24.60	0.50
1016.14G	221.09	795.05					
WBAP (180)	US TX	FORT WORTH	278.49	1.91	5.40	23.88	0.50
1046.84G	223.09	823.76					
WBAP (185)	US TX	FORT WORTH	278.54	1.75	5.18	23.16	0.50
1079.24G	222.89	856.35					
WBAP (190)	US TX	FORT WORTH	278.97	1.60	4.97	22.50	0.50
1111.10G	219.96	891.14					
WBAP (195)	US TX	FORT WORTH	280.96	1.51	4.85	22.06	0.50
1133.52G	204.10	929.42					
WBAP (200)	US TX	FORT WORTH	281.18	1.39	4.69	21.54	0.50
1160.57G	202.13	958.44					
WBAP (205)	US TX	FORT WORTH	281.45	1.28	4.54	21.05	0.50
1187.51G	199.70	987.80					
WBAP (210)	US TX	FORT WORTH	281.76	1.17	4.39	20.59	0.50
1214.34G	196.85	1017.49					
WBAP (215)	US TX	FORT WORTH	282.12	1.07	4.24	20.15	0.50
1240.93G	193.50	1047.43					
WBAP (220)	US TX	FORT WORTH	282.51	0.96	4.11	19.73	0.50
1267.23G	189.66	1077.57					
WBAP (225)	US TX	FORT WORTH	282.95	0.87	3.98	19.33	0.50
1293.21G	185.34	1107.87					

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WBAP (230)	US	TX FORT WORTH	283.42	0.78	3.85	18.96	0.50
1318.76G	180.52	1138.23					
WBAP (235)	US	TX FORT WORTH	283.93	0.69	3.73	18.60	0.50
1343.97G	175.26	1168.71					
WBAP (240)	US	TX FORT WORTH	284.48	0.61	3.62	18.27	0.50
1368.42G	169.46	1198.96					
WBAP (245)	US	TX FORT WORTH	285.08	0.53	3.53	17.98	0.50
1390.76G	162.96	1227.79					
WBAP (250)	US	TX FORT WORTH	285.73	0.47	3.44	17.72	0.50
1410.81G	155.91	1254.91					
WBAP (255)	US	TX FORT WORTH	286.40	0.42	3.37	17.49	0.50
1429.73G	148.62	1281.11					
WBAP (260)	US	TX FORT WORTH	287.10	0.37	3.30	17.27	0.50
1447.29G	141.14	1306.15					
WBAP (265)	US	TX FORT WORTH	287.82	0.32	3.24	17.09	0.50
1463.25G	133.59	1329.66					
WBAP (270)	US	TX FORT WORTH	288.57	0.30	3.22	16.98	0.50
1472.52G	125.90	1346.62					
WBAP (275)	US	TX FORT WORTH	289.35	0.31	3.23	16.97	0.50
1473.27G	118.48	1354.80					
WBAP (280)	US	TX FORT WORTH	290.09	0.26	3.16	16.76	0.50
1491.36G	111.98	1379.38					
WBAP (285)	US	TX FORT WORTH	290.92	0.04	2.87	15.95	0.50
1567.57G	105.57	1462.00					
WBAP (290)	US	TX FORT WORTH	291.82	0.03	2.85	15.86	0.50
1576.58G	99.98	1476.60					
WBAP (295)	US	TX FORT WORTH	292.73	0.03	2.85	15.81	0.50
1580.93G	95.92	1485.02					
WBAP (300)	US	TX FORT WORTH	293.64	0.04	2.87	15.82	0.50
1580.75G	93.60	1487.16					
WBAP (305)	US	TX FORT WORTH	294.55	0.07	2.91	15.86	0.50
1575.93G	93.09	1482.85					
WBAP (310)	US	TX FORT WORTH	295.44	0.11	2.96	15.95	0.50
1567.47G	94.28	1473.19					
WBAP (315)	US	TX FORT WORTH	295.94	0.27	3.17	16.48	0.50

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1516.92G	95.66	1421.26					
WBAP (320)	US	TX FORT WORTH	296.66	0.35	3.27	16.72	0.50
1495.12G	98.29	1396.83					
WBAP (325)	US	TX FORT WORTH	297.39	0.42	3.37	16.95	0.50
1474.60G	101.66	1372.94					
WBAP (330)	US	TX FORT WORTH	298.27	0.47	3.44	17.09	0.50
1463.00G	106.46	1356.54					
WBAP (335)	US	TX FORT WORTH	299.17	0.53	3.52	17.26	0.50
1448.38G	111.90	1336.48					
WBAP (340)	US	TX FORT WORTH	299.96	0.62	3.63	17.54	0.50
1425.34G	116.95	1308.39					
WBAP (345)	US	TX FORT WORTH	300.87	0.70	3.74	17.80	0.50
1404.71G	122.85	1281.86					
WBAP (350)	US	TX FORT WORTH	301.71	0.79	3.88	18.13	0.50
1378.55G	128.31	1250.24					
WBAP (355)	US	TX FORT WORTH	302.07	0.95	4.08	18.71	0.50
1336.10G	130.61	1205.49					
XEFW/O	MX	TA TAMPICO	250.55	2.06	2.06	14.69	2.48

843.64 103.51 740.13
 50% = 5.206, 25% = 6.853; XEOE/A=3.84 XEIN/A=2.49 XEUX/A=2.48 WHB=2.38 KSJL=2.03
 KGO=1.95

XERSV1/A=1.78 XEAGR/A=1.77

XEFW1/O	MX	TA TAMPICO	250.55	2.06	2.06	14.69	2.48
843.64	103.51	740.13					

50% = 5.206, 25% = 6.853; XEOE/A=3.84 XEIN/A=2.49 XEUX/A=2.48 WHB=2.38 KSJL=2.03
 KGO=1.95

XERSV1/A=1.78 XEAGR/A=1.77

KXOI	US	TX CRANE	284.31	0.00	2.10	14.38	3.59
1248.90	171.76	1077.14					

50% = 12.372, 25% = 14.678; XEROK/A=12.37 WBAP=5.80 KGO=3.98 WHB=3.59

CMMB-D	CU	GUANTANAMO	144.56	7.08	7.08	20.69	5.10
1233.12	42.75	1190.37					

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50% = 10.207, 25% = 10.847; HJCY-B=8.20 YVLP-B=6.08 WKVM=3.67

XEHT/O MX TL HUAMANTLA 242.06 1.14 1.14 10.97 3.06
 1394.47 111.56 1282.92
 50% = 6.116, 25% = 7.19; XEOE/A=5.28 XEIN/A=3.09 XEAGR/A=2.33 XEUX/A=2.32 KGO=1.86

XEHT1/O MX TL HUAMANTLA 241.97 1.14 1.14 10.95 3.07
 1400.40 111.83 1288.58
 50% = 6.136, 25% = 7.206; XEOE/A=5.30 XEIN/A=3.10 XEAGR/A=2.33 XEUX/A=2.32 KGO=1.86

XEIN/A MX CS CINTALAPA 226.24 1.89 1.89 13.93 4.20
 1507.89 131.50 1376.38
 50% = 8.402, 25% = 8.402; XEOE/A=8.40

XEIM/O MX CI SALTILLO 264.51 1.12 1.12 10.91 3.56
 1629.80 212.33 1417.47
 50% = 7.316, 25% = 8.844; KSJL=5.22 KXOI=3.70 XERSV1/A=3.56 KGO=3.01 XEUX/A=3.00
 WHB=2.57

WJAT US GA SWAINSBORO 348.83 16.49 26.62 136.29 4.25
 1557.96 39.20 1518.75
 50% = 14.18, 25% = 16.986; XEROK/A=9.94 WPJM=7.79 WDSC=6.44 WPLK=6.10 WDEH=5.34
 WKBC=4.66

XEYM/O MX MC MORELIA 248.18 0.00 0.00 7.64 2.53
 1656.03 99.50 1556.53
 50% = 5.336, 25% = 7.105; XEOE/A=3.38 XEUX/A=3.26 KGO=2.53 XEAGR/A=2.31
 XERSV1/A=2.20 XEIN/A=2.19
 KXOI=1.98 KSJL=1.76

XEAGR/A MX GR ACAPULCO 239.28 0.00 0.00 7.04 2.79
 1981.33 119.92 1861.41
 50% = 5.634, 25% = 6.435; XEOE/A=4.89 XEIN/A=2.79 XEUX/A=2.37 KGO=2.02

WBCU US SC UNION 357.89 10.19 17.50 79.23 3.58

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2257.81 48.43 2209.38

50% = 13.574, 25% = 14.31; WBAP=13.57 WTRU=4.53

XEMAX/O MX CL TECOMAN 249.81 0.00 0.00 5.54 2.64
2387.52 101.49 2286.03

50% = 5.486, 25% = 6.796; XEUX/A=3.67 KGO=3.10 XERSV1/A=2.64 KXOI=2.61 XEOE/A=2.28
XEAGR/A=2.02

XEMAX1/O MX CL ARMERIA 249.89 0.00 0.00 5.51 2.66
2416.96 101.66 2315.30

50% = 5.509, 25% = 6.808; XEUX/A=3.68 KGO=3.12 XERSV1/A=2.66 KXOI=2.63 XEOE/A=2.25
XEAGR/A=2.01

XEZC/O MX ZA RIO GRANDE 261.27 0.00 0.00 7.78 4.28
2753.58 185.25 2568.33

50% = 8.702, 25% = 10.215; KXOI=6.23 XERSV1/A=4.31 KSJL=4.28 XEUX/A=3.86 KGO=3.71

XEZC/O MX ZA RIO GRANDE 261.27 0.00 0.00 7.78 4.28
2753.58 185.25 2568.33

50% = 8.702, 25% = 10.215; KXOI=6.23 XERSV1/A=4.31 KSJL=4.28 XEUX/A=3.86 KGO=3.71

WDSC US SC DILLON 15.99 10.55 18.02 82.35 4.74
2879.60 19.53 2860.07

50% = 15.145, 25% = 18.971; CKLW/A=10.51 WPJM=7.71 XEROK/A=7.71 WJAT=7.19 WKBC=6.89
WSVS=5.61

WPJM US SC GREER 353.94 9.78 16.89 75.70 4.97
3281.40 49.06 3232.34

50% = 17.036, 25% = 19.873; XEROK/A=9.53 WJAT=8.61 WDEH=7.98 WKBC=7.84 WDSC=7.62
CKLW/A=6.84

XEUX/A MX NA TUXPAN 258.26 0.00 0.00 5.63 4.07
3613.75 157.36 3456.39

50% = 8.138, 25% = 8.625; KXOI=5.26 XERSV1/A=4.47 KGO=4.31 KSJL=2.86

Nighttime Protection Report-Routh.txt

WGGM	US VA CHESTER	19.73	5.45	10.47	41.87	3.08
3681.76	16.57 3665.19					
50% = 10.354, 25% = 12.333; WBAP=8.18 WXTR=6.35 WOSU=4.34 WGY=3.63 WWLZ=3.58						
WDEH	US TN SWEETWATER	340.72	7.91	14.10	60.31	4.50
3733.26	56.96 3676.30					
50% = 14.175, 25% = 18.348; XEROK/A=11.28 WPJM=8.58 WJAT=6.34 CKLW/A=6.14 WKBC=6.12						
WDSC=4.50						
WSHO	US LA NEW ORLEANS	281.68	7.62	13.68	59.33	4.99
4205.40	191.59 4013.81					
50% = 19.96, 25% = 19.96; XEROK/A=19.96						
WKBC	US NC NORTH WILKESBOR	1.69	7.72	13.82	58.65	5.48
4675.33	52.48 4622.84					
50% = 17.458, 25% = 21.938; CKLW/A=12.33 WPJM=8.99 XEROK/A=8.48 WDSC=7.80 WDEH=6.53						
WSVS=6.18						
WJAT=5.90						
WOSU	US OH COLUMBUS	353.65	3.60	7.79	29.86	2.98
4993.12	57.14 4935.97					
50% = 11.928, 25% = 11.928; WBAP=11.93						
WXTR	US MD FREDERICK	15.71	3.68	7.90	30.38	3.18
5230.08	29.76 5200.31					
50% = 10.776, 25% = 12.711; WBAP=7.47 WWLZ=5.65 WGY=5.32 WGGM=4.14 WOSU=3.96						
CHAM/B=3.56						
XENVA2/O	MX CH NUEVO CASAS GRA	281.00	0.00	0.00	5.22	5.77
5518.99	204.33 5314.65					
50% = 11.535, 25% = 11.535; KGO=11.53						
CKJS/	CA MB WINNIPEG	334.76	0.00	0.00	4.62	6.42
6945.50	73.93 6871.56					
50% = 12.842, 25% = 14.302; WHB=12.84 WGY=6.30						

Nighttime Protection Report-Routh.txt

XERSV1/A	MX SO CD.OBREGON	274.47	0.00	0.00	4.25	6.98
8217.58	241.98 7975.60					
50% = 13.961, 25% = 14.549; KGO=13.96 KXOI=4.10						
WSVS	US VA CREWE	16.69	5.87	11.09	44.76	7.37
8229.27	24.20 8205.07					
50% = 28.518, 25% = 29.47; CKLW/A=28.52 WTMR=7.43						
WKZI	US IL CASEY	334.93	3.13	7.11	27.60	4.57
8281.84	73.26 8208.58					
50% = 18.288, 25% = 18.288; XEROK/A=13.12 CKLW/A=12.74						
WWLZ	US NY HORSEHEADS	14.05	1.72	5.14	19.92	3.46
8687.14	36.74 8650.40					
50% = 12.917, 25% = 13.845; WXTR=8.85 WGY=7.25 WBAP=5.99 WOSU=4.98						
WNYC	US NY NEW YORK	24.25	2.04	5.59	21.70	4.01
9227.59	21.48 9206.10					
50% = 13.031, 25% = 16.021; WXTR=10.83 WGY=7.24 WWLZ=5.56 WGGM=5.30 WBAP=5.27						
NEW/A	CA AB BROOKS	322.17	0.00	0.00	2.47	5.30
10730.55	133.89 10596.67					
50% = 10.596, 25% = 10.596; KGO=10.60						
WDUX	US WI WAUPACA	340.94	0.13	2.99	13.66	3.42
12504.44	58.62 12445.82					
50% = 13.664, 25% = 13.664; XEROK/A=9.81 CKLW/A=9.51						
XENVA2/O	MX SO NOGALES	283.50	0.00	0.00	4.03	10.92
13553.21	180.27 13372.94					
50% = 21.849, 25% = 21.849; KGO=21.85						
CJVA/A	CA NB CARAQUET	28.98	0.00	0.00	5.33	19.33
18118.97	36.33 18082.64					

Nighttime Protection Report-Routh.txt

50% = 38.652, 25% = 38.652; WGY=38.65

WVAL	US MN SAUK RAPIDS	332.92	0.00	1.24	9.75	3.80
19486.81	81.01 19405.80					

50% = 13.952, 25% = 15.196; XEROK/A=11.82 WDUX=7.42 CKDR/A=4.29 CKLW/A=4.22

WTMR	US NJ CAMDEN	23.00	2.79	6.64	25.51	11.09
21739.52	18.51 21721.01					

50% = 44.374, 25% = 44.374; CKLW/A=44.37

WLAD	US CT DANBURY	24.81	1.55	4.91	19.40	8.78
22622.02	22.88 22599.14					

50% = 35.117, 25% = 35.117; CKLW/A=35.12

KUTR	US UT TAYLORSVILLE	303.25	0.00	0.00	5.48	2.83
25774.79	136.74 25638.04					

50% = 11.303, 25% = 11.303; WBAP=11.30

KGNW	US WA BURIEEN-SEATTLE	312.21	0.00	0.00	2.17	1.13
26037.90	163.53 25874.37					

50% = 4.514, 25% = 4.514; WBAP=3.36 KGO=3.01

KQCV	US OK OKLAHOMA CITY	300.58	0.96	4.11	18.87	11.50
30473.63	120.38 30353.25					

50% = 46.013, 25% = 46.013; XEROK/A=46.01

XENVA2/O	MX SO SAN LUIS RIO CO	286.20	0.00	0.00	3.05	22.54
36916.06	151.49 36764.57					

50% = 45.075, 25% = 45.075; KGO=45.07

KPDQ	US OR PORTLAND	308.96	0.00	0.00	2.41	3.02
62713.37	160.44 62552.93					

50% = 10.457, 25% = 12.076; XEROK/A=10.46 KGO=4.47 CKOR/A=4.06

HCDE2-B	EC GUAYAQUIL	177.00	0.00	0.00	1.05	15.18
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Nighttime Protection Report-Routh.txt

72126.09 219.34 71906.75

50% = 30.366, 25% = 30.366; HJCY-B=30.37

KDFO US CA BAKERSFIELD

291.80

0.00

0.00

4.38

7.80

88983.15 100.43 88882.73

50% = 29.847, 25% = 31.19; XEROK/A=29.85 KGO=9.06