

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P636473

Luminaire Tested: **IFLD-L-SA8B-930-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636473
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-930-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21553.6 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



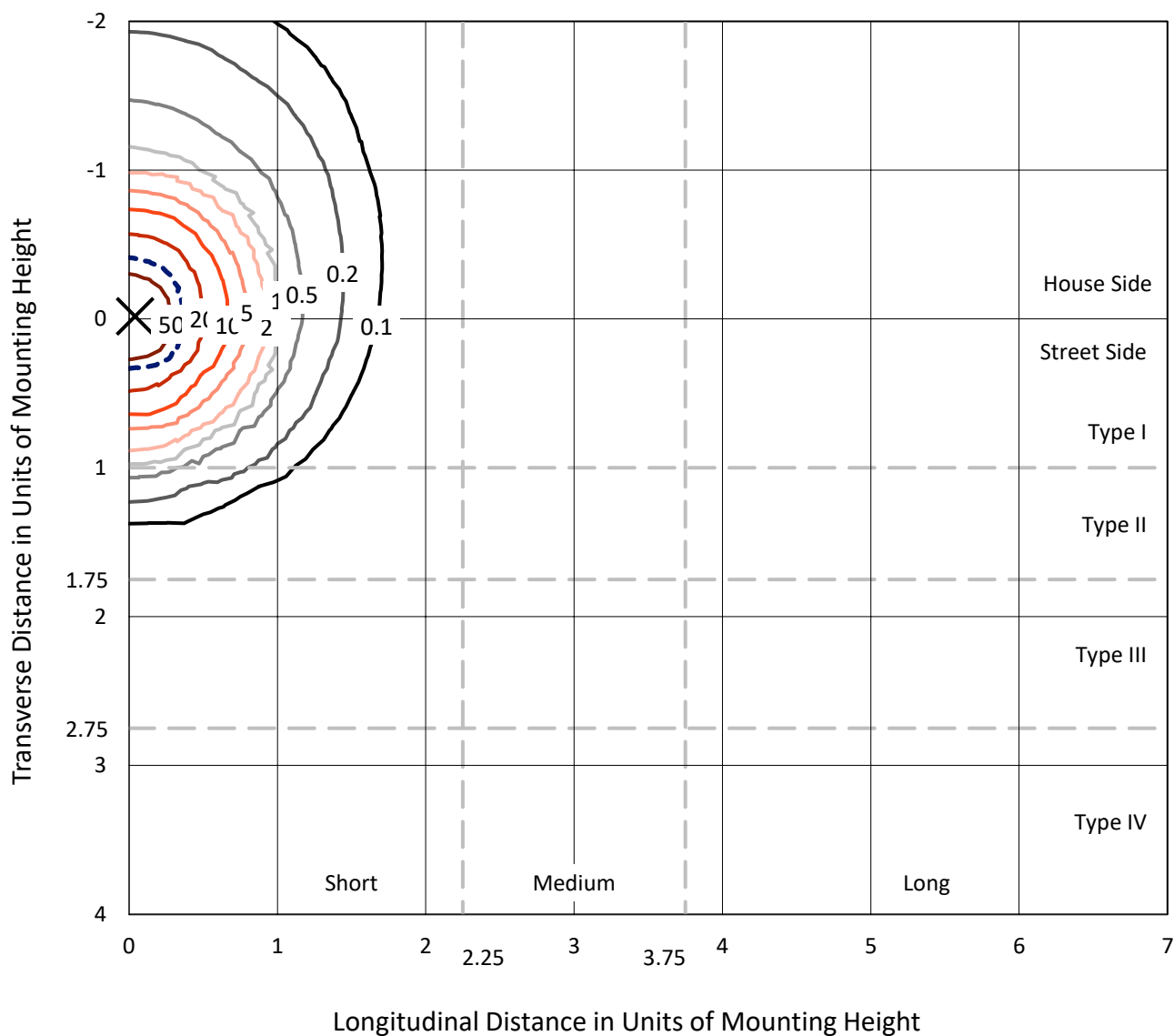
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

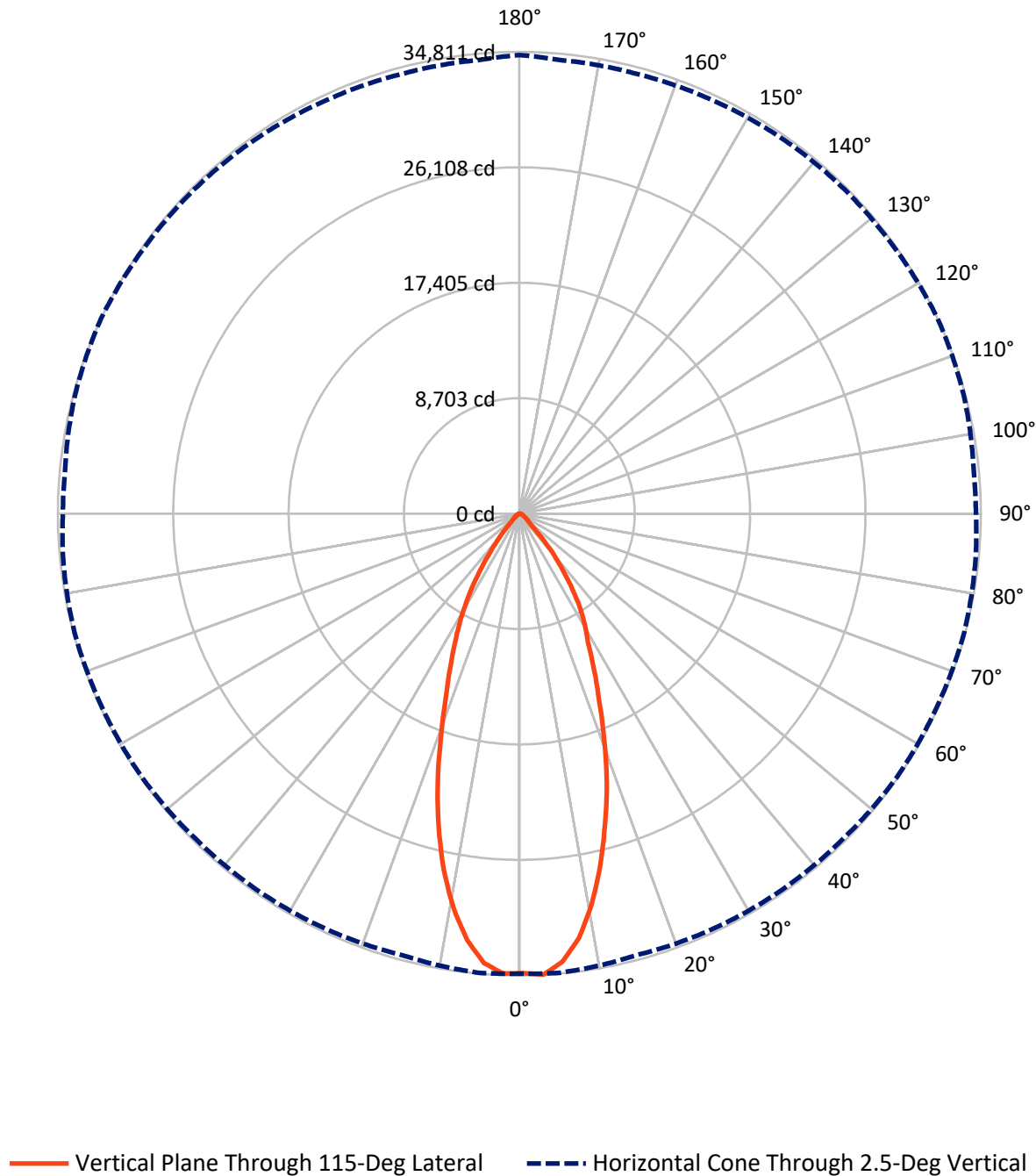


Based on 20 foot mounting height. Maximum calculated value = 86.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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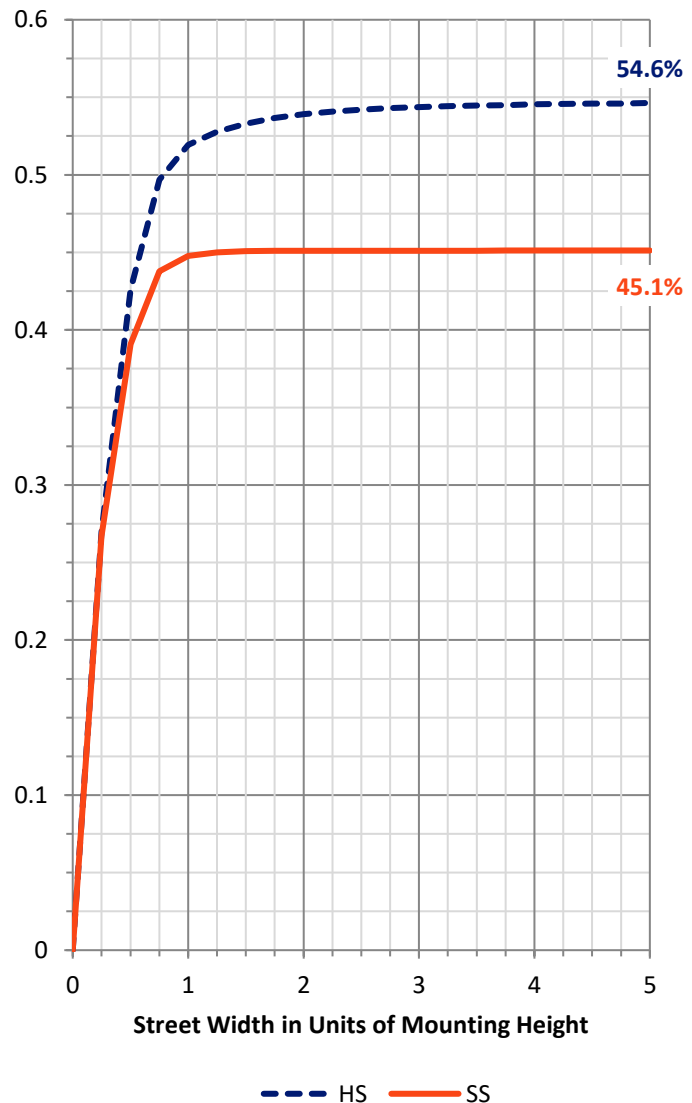
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11895.1	0.0	11895.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9658.5	0.0	9658.5
	% Fixture	44.8	0.0	44.8
Total	Lumens	21553.6	0.0	21553.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3107.6	14.4
10°-20°	6567.9	30.5
20°-30°	5927.9	27.5
30°-40°	3922.8	18.2
40°-50°	1175.1	5.5
50°-60°	471.4	2.2
60°-70°	244.1	1.1
70°-80°	106.0	0.5
80°-90°	30.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21553.6	100.0
0°-180°	21553.6	100.0

Coefficient of Utilization



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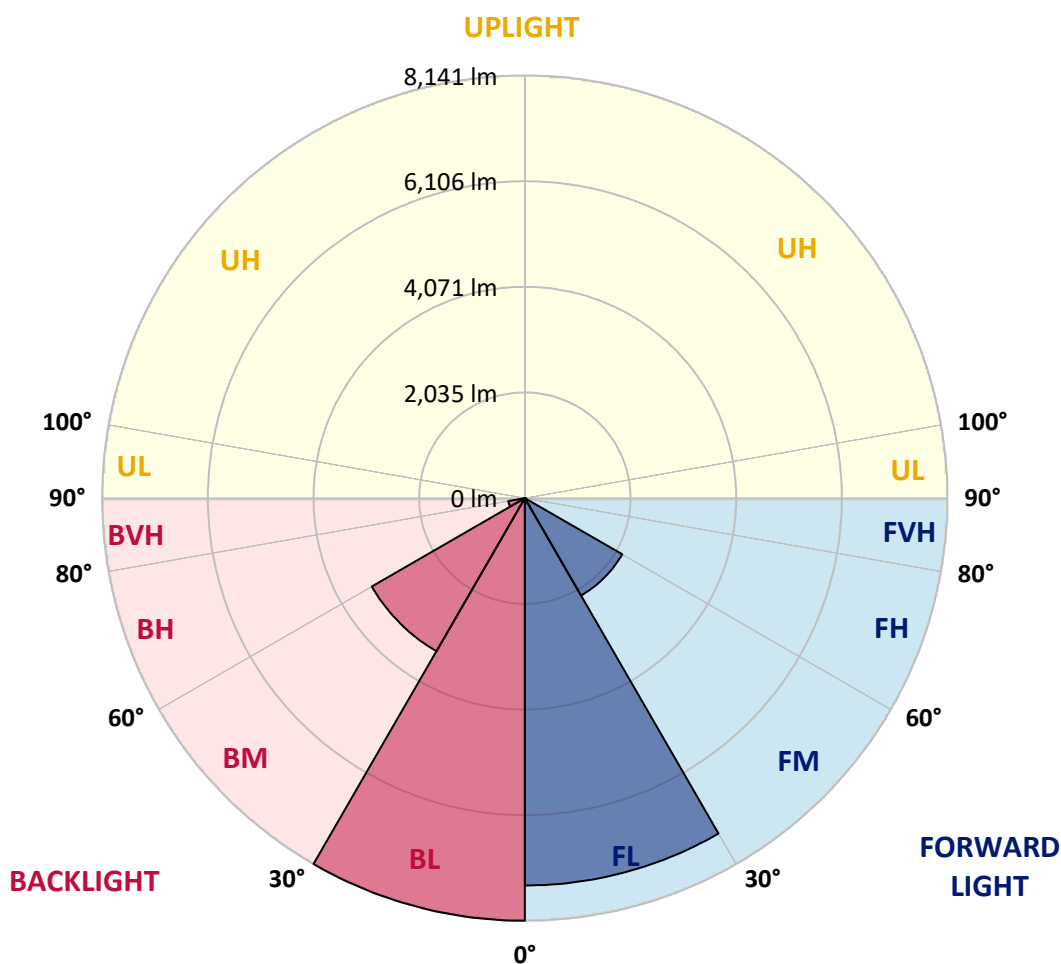
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7462.0	34.6			
FM	(30°-60°)	2165.3	10.0			
FH	(60°-80°)	26.8	0.1			G0/660
FVH	(80°-90°)	4.4	0.0			G0/10
BL	(0°-30°)	8141.3	37.8	B5		
BM	(30°-60°)	3404.1	15.8	B3/5000		
BH	(60°-80°)	323.3	1.5	B1/500		G1/500
BVH	(80°-90°)	26.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	34647.4	34647.4	34647.4	34647.4	34647.4	34647.4	34647.4	34647.4	34647.4	34647.4
2.5°	34691.5	34753.2	34444.7	34550.5	34594.5	34607.8	34718.0	34700.3	34731.2	34568.1
5°	34233.1	34114.1	33884.8	33889.2	33876.0	33752.6	34003.9	33986.2	33933.3	33739.4
7.5°	32672.6	32844.5	32412.5	32403.7	32394.9	32245.0	32575.6	32372.9	32417.0	32139.2
10°	30389.2	30411.3	30027.8	29992.5	30023.4	29829.4	30212.9	30133.6	30217.3	29926.4
12.5°	27590.1	27713.5	27290.4	27228.7	27352.1	27078.8	27387.3	27427.0	27303.6	27263.9
15°	21639.2	21965.4	22767.7	23993.1	24310.5	24081.3	24328.1	24323.7	24376.6	24076.9
17.5°	16486.2	16517.0	16327.5	16913.8	20308.0	21410.0	21462.9	21044.1	20726.7	20616.5
20°	14392.3	14498.1	14326.2	14374.7	14916.9	18148.0	18271.5	17641.1	17098.9	17054.8
22.5°	12726.1	12792.2	12668.8	12708.5	12734.9	13114.0	15260.7	14705.3	14445.2	14246.9
25°	11315.5	11315.5	11249.4	11262.6	11236.2	10676.3	11778.4	12413.1	12263.3	12192.7
27.5°	10028.4	10046.0	9962.2	10010.7	9688.9	8785.3	8653.0	10526.5	10367.8	10239.9
30°	8807.3	8864.6	8785.3	8811.7	8110.8	7370.3	6991.2	8780.9	8979.2	8944.0
32.5°	6629.7	6889.8	7529.0	7555.4	6603.3	6034.6	5867.1	7048.5	7802.3	7736.2
35°	4108.3	4095.1	4121.5	5391.1	5064.9	4677.0	4738.7	5324.9	6175.7	6144.9
37.5°	3134.1	3129.7	3178.2	3050.4	3319.3	3548.5	3597.0	3597.0	4509.5	4513.9
40°	2375.9	2358.3	2353.9	2151.1	1802.9	2662.5	2583.1	2517.0	3134.1	3200.3
42.5°	1516.4	1569.3	1529.6	1309.2	1177.0	1454.7	1622.2	1569.3	1935.1	1983.6
45°	846.3	846.3	811.1	687.7	683.3	736.1	925.7	864.0	991.8	1057.9
47.5°	410.0	401.1	440.8	542.2	564.2	546.6	661.2	687.7	749.4	811.1
50°	330.6	330.6	313.0	282.1	467.3	449.6	489.3	524.6	559.8	612.7
52.5°	277.7	277.7	255.7	238.0	268.9	343.8	348.2	414.4	410.0	484.9
55°	141.1	145.5	207.2	207.2	180.7	282.1	286.5	335.0	343.8	405.5
57.5°	13.2	17.6	26.4	127.8	141.1	154.3	216.0	246.9	286.5	313.0
60°	4.4	4.4	8.8	17.6	83.8	105.8	136.7	163.1	198.4	260.1
62.5°	0.0	0.0	4.4	8.8	17.6	66.1	74.9	83.8	119.0	163.1
65°	0.0	0.0	4.4	4.4	8.8	22.0	30.9	52.9	74.9	101.4
67.5°	0.0	0.0	4.4	4.4	8.8	13.2	17.6	26.4	35.3	66.1
70°	0.0	0.0	4.4	4.4	8.8	13.2	13.2	17.6	22.0	30.9
72.5°	0.0	0.0	4.4	4.4	8.8	17.6	13.2	13.2	17.6	22.0
75°	0.0	0.0	4.4	4.4	8.8	13.2	13.2	13.2	13.2	13.2
77.5°	0.0	0.0	4.4	4.4	8.8	13.2	13.2	13.2	8.8	8.8
80°	0.0	0.0	4.4	4.4	8.8	13.2	17.6	17.6	8.8	8.8
82.5°	0.0	0.0	4.4	8.8	8.8	22.0	26.4	22.0	8.8	4.4
85°	0.0	0.0	4.4	4.4	13.2	22.0	22.0	13.2	8.8	4.4
87.5°	0.0	0.0	0.0	4.4	4.4	8.8	13.2	13.2	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
34647.4	0°	34647.4	34647.4	34647.4	34647.4	34647.4	34647.4	34647.4	34647.4	34647.4
34435.8	2.5°	34418.2	34687.1	34810.5	34682.7	34621.0	34532.8	34405.0	34316.8	34334.5
33633.6	5°	33558.6	33840.8	33937.7	33827.5	33735.0	33686.5	33664.4	33708.5	33823.1
32020.2	7.5°	32011.4	32192.1	32297.9	32245.0	32117.2	32262.7	32302.3	32275.9	32443.4
29838.2	10°	29847.0	30045.4	29948.4	29970.5	29820.6	29895.5	29873.5	29970.5	30138.0
27233.1	12.5°	27056.7	27246.3	27171.3	27158.1	26999.4	27140.5	27052.3	27158.1	27378.5
23953.5	15°	24125.4	24244.4	24195.9	24121.0	23979.9	24028.4	24301.7	24284.1	24381.0
20550.4	17.5°	20462.3	21035.3	21348.3	21414.4	21299.8	21396.8	21590.7	21542.2	21762.6
16962.3	20°	16931.4	17508.9	18280.3	18906.2	18919.4	18932.7	19056.1	19086.9	19276.5
14251.3	22.5°	14189.6	14599.5	15428.2	16257.0	16830.0	16949.0	16935.8	16979.9	17032.8
12095.7	25°	12064.9	12364.6	13122.8	13695.9	14700.9	15035.9	15132.9	15035.9	15066.8
10195.9	27.5°	10310.5	10768.9	11020.2	11632.9	12615.9	13391.7	13360.9	13303.6	13312.4
8873.4	30°	8869.0	9362.7	9733.0	9918.2	10658.7	11778.4	11893.0	11729.9	11734.3
7705.3	32.5°	7656.8	7811.1	8357.7	8507.6	8983.6	10001.9	10394.2	10270.8	10248.8
6162.5	35°	6343.2	6427.0	6678.2	6973.6	7255.7	8027.1	8675.1	8560.5	8617.8
4531.5	37.5°	4513.9	4857.7	5100.1	5342.6	5545.4	6030.2	6810.5	6704.7	6762.0
3209.1	40°	3182.6	3336.9	3755.7	3861.5	4161.2	4386.0	5047.2	5012.0	5082.5
1992.4	42.5°	1957.2	2067.4	2279.0	2380.4	2583.1	2711.0	3098.9	3143.0	3235.5
1102.0	45°	1110.8	1159.3	1304.8	1415.0	1564.9	1617.8	1754.4	1816.1	1869.0
855.2	47.5°	846.3	899.2	996.2	1093.2	1216.6	1260.7	1357.7	1450.3	1498.7
661.2	50°	692.1	740.6	841.9	921.3	1044.7	1084.4	1163.7	1265.1	1326.8
502.5	52.5°	524.6	595.1	718.5	802.3	930.1	978.6	1053.5	1154.9	1212.2
414.4	55°	432.0	484.9	595.1	709.7	828.7	894.8	943.3	1066.8	1128.5
339.4	57.5°	370.3	410.0	480.5	617.1	718.5	815.5	855.2	969.8	1031.5
268.9	60°	282.1	343.8	405.5	511.3	625.9	727.3	771.4	872.8	921.3
194.0	62.5°	233.6	273.3	352.6	410.0	537.8	643.6	687.7	780.2	815.5
127.8	65°	163.1	220.4	295.3	330.6	449.6	551.0	612.7	683.3	718.5
74.9	67.5°	97.0	163.1	233.6	282.1	365.9	467.3	533.4	599.5	630.4
44.1	70°	61.7	127.8	185.1	238.0	286.5	383.5	462.8	520.2	506.9
26.4	72.5°	35.3	79.3	136.7	194.0	238.0	321.8	396.7	440.8	313.0
17.6	75°	22.0	57.3	114.6	158.7	194.0	255.7	326.2	335.0	194.0
8.8	77.5°	17.6	44.1	88.2	127.8	132.2	189.5	229.2	260.1	145.5
8.8	80°	8.8	35.3	74.9	105.8	83.8	132.2	176.3	202.8	114.6
4.4	82.5°	8.8	22.0	57.3	74.9	61.7	101.4	127.8	145.5	97.0
4.4	85°	4.4	17.6	30.9	44.1	44.1	66.1	57.3	70.5	61.7
4.4	87.5°	4.4	8.8	17.6	22.0	17.6	26.4	30.9	30.9	26.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
34647.4
34572.5
34061.2
32610.9
30204.1
27418.2
24403.1
21727.4
19236.8
16935.8
15018.3
13325.6
11738.7
10301.7
8670.7
6810.5
5109.0
3341.3
1864.6
1520.8
1353.3
1251.9
1146.1
1057.9
930.1
819.9
718.5
625.9
467.3
277.7
180.7
145.5
119.0
105.8
61.7
22.0
0.0

(END OF REPORT)