

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: P636528

Luminaire Tested: **IFLD-L-SA7D-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636528
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29167 lumens
Efficiency: N/A
Efficacy: 69.0 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): 422.6
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



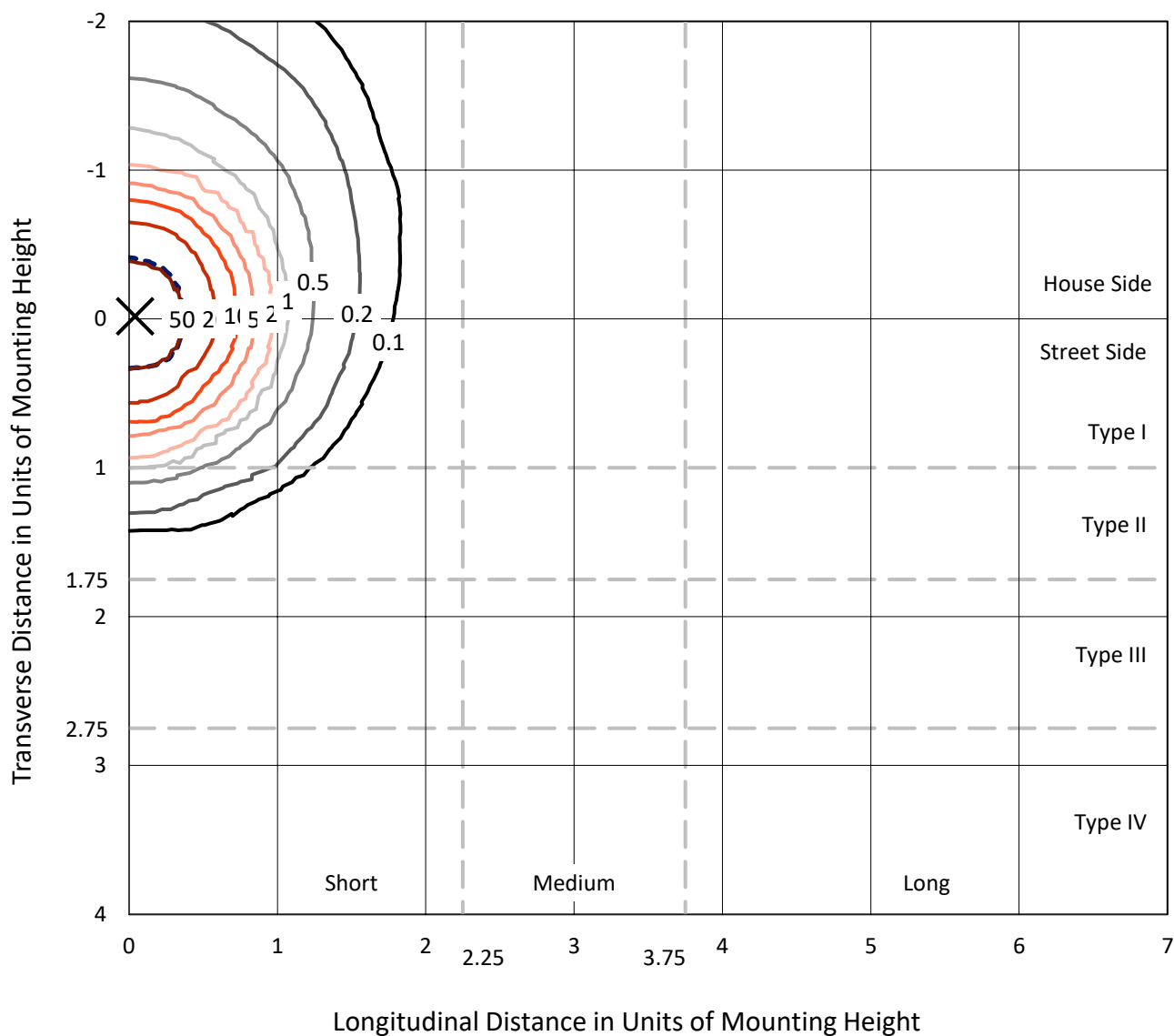
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

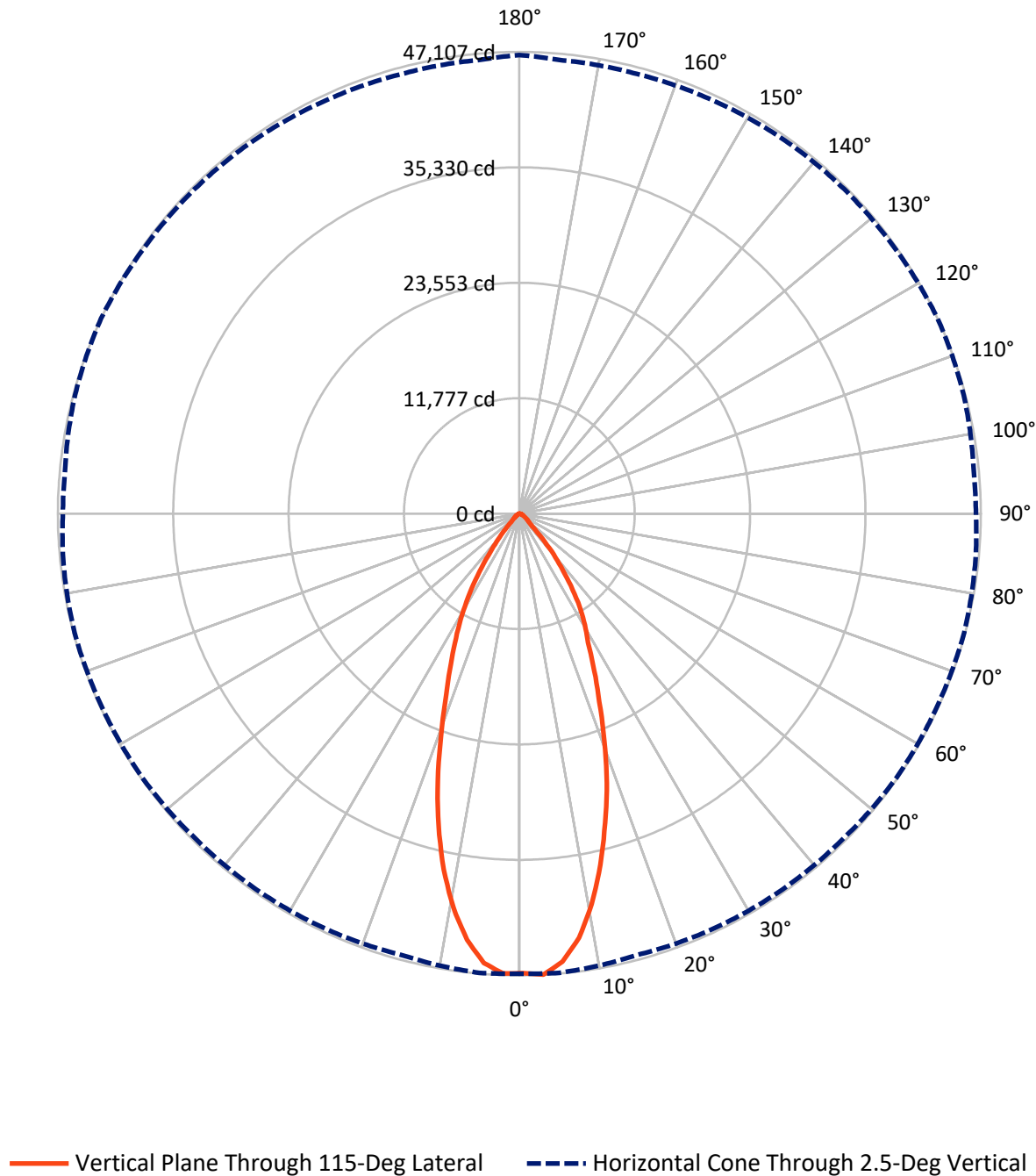


Based on 20 foot mounting height. Maximum calculated value = 117.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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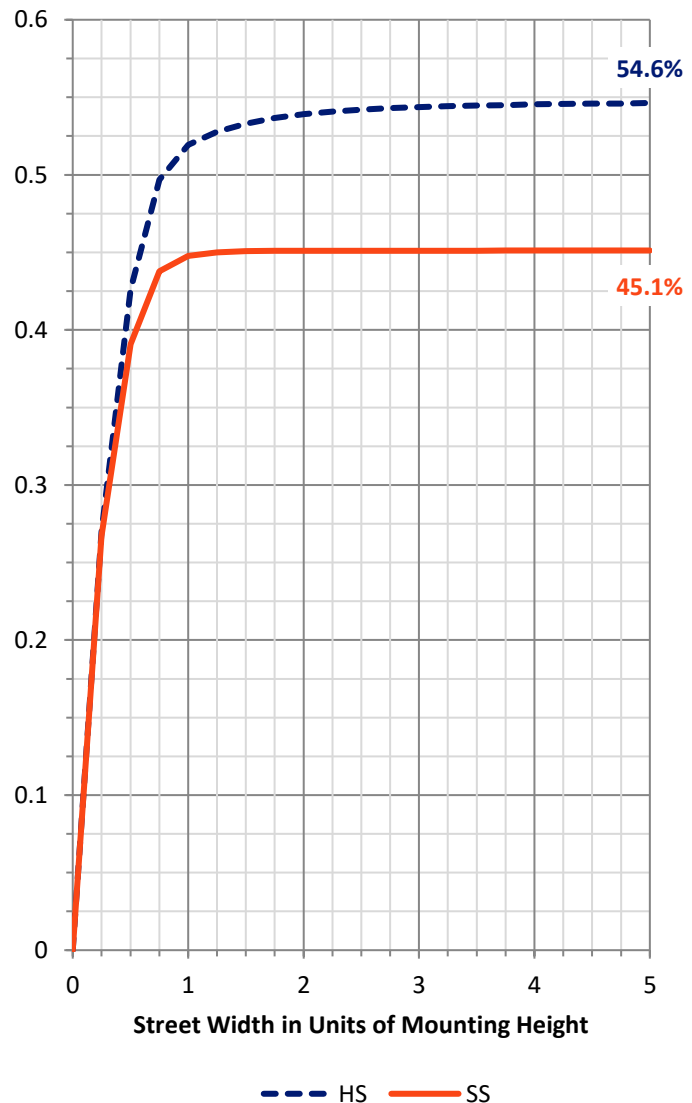
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16096.8	0.0	16096.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13070.2	0.0	13070.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	29167.0	0.0	29167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4205.3	14.4
10°-20°	8887.8	30.5
20°-30°	8021.8	27.5
30°-40°	5308.5	18.2
40°-50°	1590.2	5.5
50°-60°	637.9	2.2
60°-70°	330.3	1.1
70°-80°	143.4	0.5
80°-90°	41.7	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°	29167.0	100.0
0°-180°	29167.0	100.0

Coefficient of Utilization



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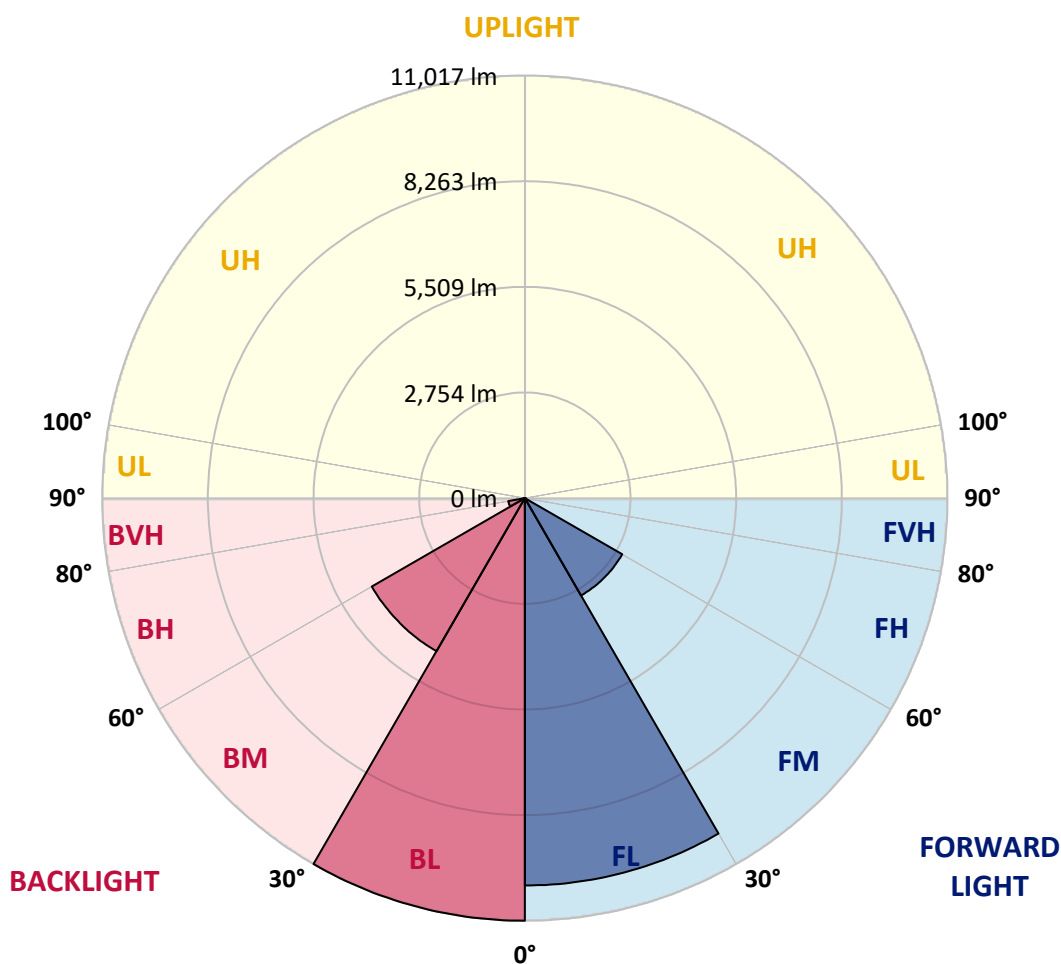
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10097.8	34.6			
FM	(30°-60°)	2930.1	10.0			
FH	(60°-80°)	36.3	0.1			G0/660
FVH	(80°-90°)	6.0	0.0			G0/10
BL	(0°-30°)	11017.1	37.8	B5		
BM	(30°-60°)	4606.5	15.8	B3/5000		
BH	(60°-80°)	437.4	1.5	B1/500		G1/500
BVH	(80°-90°)	35.7	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°	46885.9	46885.9	46885.9	46885.9	46885.9	46885.9	46885.9	46885.9	46885.9	46885.9
2.5°	46945.5	47029.1	46611.5	46754.7	46814.3	46832.2	46981.3	46957.5	46999.2	46778.5
5°	46325.2	46164.1	45853.9	45859.9	45842.0	45675.0	46015.0	45991.1	45919.5	45657.1
7.5°	44213.5	44446.2	43861.6	43849.6	43837.7	43634.9	44082.3	43807.9	43867.5	43491.7
10°	41123.6	41153.4	40634.4	40586.7	40628.5	40366.0	40885.0	40777.6	40890.9	40497.2
12.5°	37335.7	37502.8	36930.1	36846.6	37013.6	36643.8	37061.3	37115.0	36948.0	36894.3
15°	29282.8	29724.2	30809.9	32468.2	32897.7	32587.5	32921.5	32915.6	32987.2	32581.5
17.5°	22309.6	22351.3	22094.8	22888.2	27481.3	28972.6	29044.2	28477.5	28048.0	27898.9
20°	19476.1	19619.3	19386.7	19452.3	20186.0	24558.4	24725.5	23872.4	23138.7	23079.1
22.5°	17221.3	17310.8	17143.8	17197.5	17233.3	17746.3	20651.3	19899.7	19547.7	19279.3
25°	15312.5	15312.5	15223.0	15240.9	15205.1	14447.5	15938.8	16797.8	16595.0	16499.5
27.5°	13570.7	13594.5	13481.2	13546.8	13111.3	11888.5	11709.5	14244.7	14030.0	13857.0
30°	11918.3	11995.9	11888.5	11924.3	10975.8	9973.7	9460.7	11882.5	12151.0	12103.2
32.5°	8971.6	9323.5	10188.4	10224.2	8935.8	8166.3	7939.6	9538.2	10558.3	10468.8
35°	5559.5	5541.6	5577.4	7295.4	6853.9	6329.0	6412.5	7205.9	8357.1	8315.4
37.5°	4241.2	4235.2	4300.9	4127.9	4491.7	4801.9	4867.5	4867.5	6102.3	6108.3
40°	3215.2	3191.3	3185.4	2911.0	2439.7	3602.9	3495.6	3406.1	4241.2	4330.7
42.5°	2052.0	2123.6	2069.9	1771.6	1592.7	1968.5	2195.2	2123.6	2618.7	2684.3
45°	1145.3	1145.3	1097.6	930.6	924.6	996.2	1252.7	1169.2	1342.2	1431.6
47.5°	554.8	542.8	596.5	733.7	763.5	739.7	894.8	930.6	1014.1	1097.6
50°	447.4	447.4	423.5	381.8	632.3	608.4	662.1	709.9	757.6	829.2
52.5°	375.8	375.8	346.0	322.1	363.9	465.3	471.2	560.7	554.8	656.2
55°	190.9	196.8	280.4	280.4	244.6	381.8	387.7	453.3	465.3	548.8
57.5°	17.9	23.9	35.8	173.0	190.9	208.8	292.3	334.0	387.7	423.5
60°	6.0	6.0	11.9	23.9	113.3	143.2	184.9	220.7	268.4	351.9
62.5°	0.0	0.0	6.0	11.9	23.9	89.5	101.4	113.3	161.1	220.7
65°	0.0	0.0	6.0	6.0	11.9	29.8	41.8	71.6	101.4	137.2
67.5°	0.0	0.0	6.0	6.0	11.9	17.9	23.9	35.8	47.7	89.5
70°	0.0	0.0	6.0	6.0	11.9	17.9	17.9	23.9	29.8	41.8
72.5°	0.0	0.0	6.0	6.0	11.9	23.9	17.9	17.9	23.9	29.8
75°	0.0	0.0	6.0	6.0	11.9	17.9	17.9	17.9	17.9	17.9
77.5°	0.0	0.0	6.0	6.0	11.9	17.9	17.9	17.9	11.9	11.9
80°	0.0	0.0	6.0	6.0	11.9	17.9	23.9	23.9	11.9	11.9
82.5°	0.0	0.0	6.0	11.9	11.9	29.8	35.8	29.8	11.9	6.0
85°	0.0	0.0	6.0	6.0	17.9	29.8	29.8	17.9	11.9	6.0
87.5°	0.0	0.0	0.0	6.0	6.0	11.9	17.9	17.9	6.0	6.0
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°
46885.9	0°	46885.9	46885.9	46885.9	46885.9	46885.9	46885.9	46885.9	46885.9	46885.9
46599.6	2.5°	46575.7	46939.6	47106.6	46933.6	46850.1	46730.8	46557.8	46438.5	46462.4
45513.9	5°	45412.5	45794.3	45925.5	45776.4	45651.1	45585.5	45555.7	45615.3	45770.4
43330.7	7.5°	43318.8	43563.3	43706.5	43634.9	43461.9	43658.8	43712.4	43676.7	43903.3
40377.9	10°	40389.9	40658.3	40527.1	40556.9	40354.1	40455.5	40425.7	40556.9	40783.6
36852.6	12.5°	36613.9	36870.4	36769.0	36751.1	36536.4	36727.3	36608.0	36751.1	37049.4
32414.5	15°	32647.1	32808.2	32742.6	32641.2	32450.3	32515.9	32885.7	32861.9	32993.1
27809.4	17.5°	27690.1	28465.6	28889.1	28978.6	28823.5	28954.7	29217.2	29151.6	29449.8
22953.8	20°	22912.1	23693.5	24737.4	25584.4	25602.3	25620.2	25787.2	25829.0	26085.5
19285.3	22.5°	19201.7	19756.5	20877.9	21999.4	22774.9	22935.9	22918.0	22977.7	23049.2
16368.3	25°	16326.6	16732.2	17758.2	18533.6	19893.7	20347.0	20478.3	20347.0	20388.8
13797.3	27.5°	13952.4	14572.8	14912.8	15742.0	17072.2	18122.1	18080.3	18002.8	18014.7
12007.8	30°	12001.8	12669.9	13171.0	13421.5	14423.7	15938.8	16093.9	15873.2	15879.2
10427.0	32.5°	10361.4	10570.2	11309.9	11512.7	12156.9	13534.9	14065.8	13898.7	13868.9
8339.2	35°	8583.8	8697.2	9037.2	9436.8	9818.6	10862.5	11739.4	11584.3	11661.8
6132.2	37.5°	6108.3	6573.6	6901.7	7229.7	7504.1	8160.3	9216.1	9073.0	9150.5
4342.6	40°	4306.8	4515.6	5082.3	5225.5	5631.1	5935.3	6830.1	6782.3	6877.8
2696.2	42.5°	2648.5	2797.6	3084.0	3221.2	3495.6	3668.6	4193.5	4253.1	4378.4
1491.3	45°	1503.2	1568.8	1765.7	1914.8	2117.6	2189.2	2374.1	2457.6	2529.2
1157.2	47.5°	1145.3	1216.9	1348.1	1479.4	1646.4	1706.0	1837.3	1962.5	2028.1
894.8	50°	936.5	1002.1	1139.3	1246.7	1413.7	1467.4	1574.8	1712.0	1795.5
680.0	52.5°	709.9	805.3	972.3	1085.7	1258.6	1324.3	1425.7	1562.9	1640.4
560.7	55°	584.6	656.2	805.3	960.4	1121.4	1210.9	1276.5	1443.6	1527.1
459.3	57.5°	501.1	554.8	650.2	835.1	972.3	1103.5	1157.2	1312.3	1395.8
363.9	60°	381.8	465.3	548.8	692.0	847.0	984.2	1043.9	1181.1	1246.7
262.5	62.5°	316.2	369.8	477.2	554.8	727.7	870.9	930.6	1055.8	1103.5
173.0	65°	220.7	298.3	399.7	447.4	608.4	745.6	829.2	924.6	972.3
101.4	67.5°	131.2	220.7	316.2	381.8	495.1	632.3	721.8	811.3	853.0
59.7	70°	83.5	173.0	250.5	322.1	387.7	519.0	626.3	703.9	686.0
35.8	72.5°	47.7	107.4	184.9	262.5	322.1	435.5	536.9	596.5	423.5
23.9	75°	29.8	77.5	155.1	214.7	262.5	346.0	441.4	453.3	262.5
11.9	77.5°	23.9	59.7	119.3	173.0	179.0	256.5	310.2	351.9	196.8
11.9	80°	11.9	47.7	101.4	143.2	113.3	179.0	238.6	274.4	155.1
6.0	82.5°	11.9	29.8	77.5	101.4	83.5	137.2	173.0	196.8	131.2
6.0	85°	6.0	23.9	41.8	59.7	59.7	89.5	77.5	95.4	83.5
6.0	87.5°	6.0	11.9	23.9	29.8	23.9	35.8	41.8	41.8	35.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
46885.9
46784.5
46092.5
44130.0
40873.0
37103.1
33022.9
29402.1
26031.8
22918.0
20323.2
18032.6
15885.1
13940.5
11733.4
9216.1
6913.6
4521.6
2523.2
2058.0
1831.3
1694.1
1550.9
1431.6
1258.6
1109.5
972.3
847.0
632.3
375.8
244.6
196.8
161.1
143.2
83.5
29.8
0.0

(END OF REPORT)