

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: P636446

Luminaire Tested: **IFLD-L-SA8D-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636446
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29205.1 lumens
Efficiency: N/A
Efficacy: 59.8 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): 488.3
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



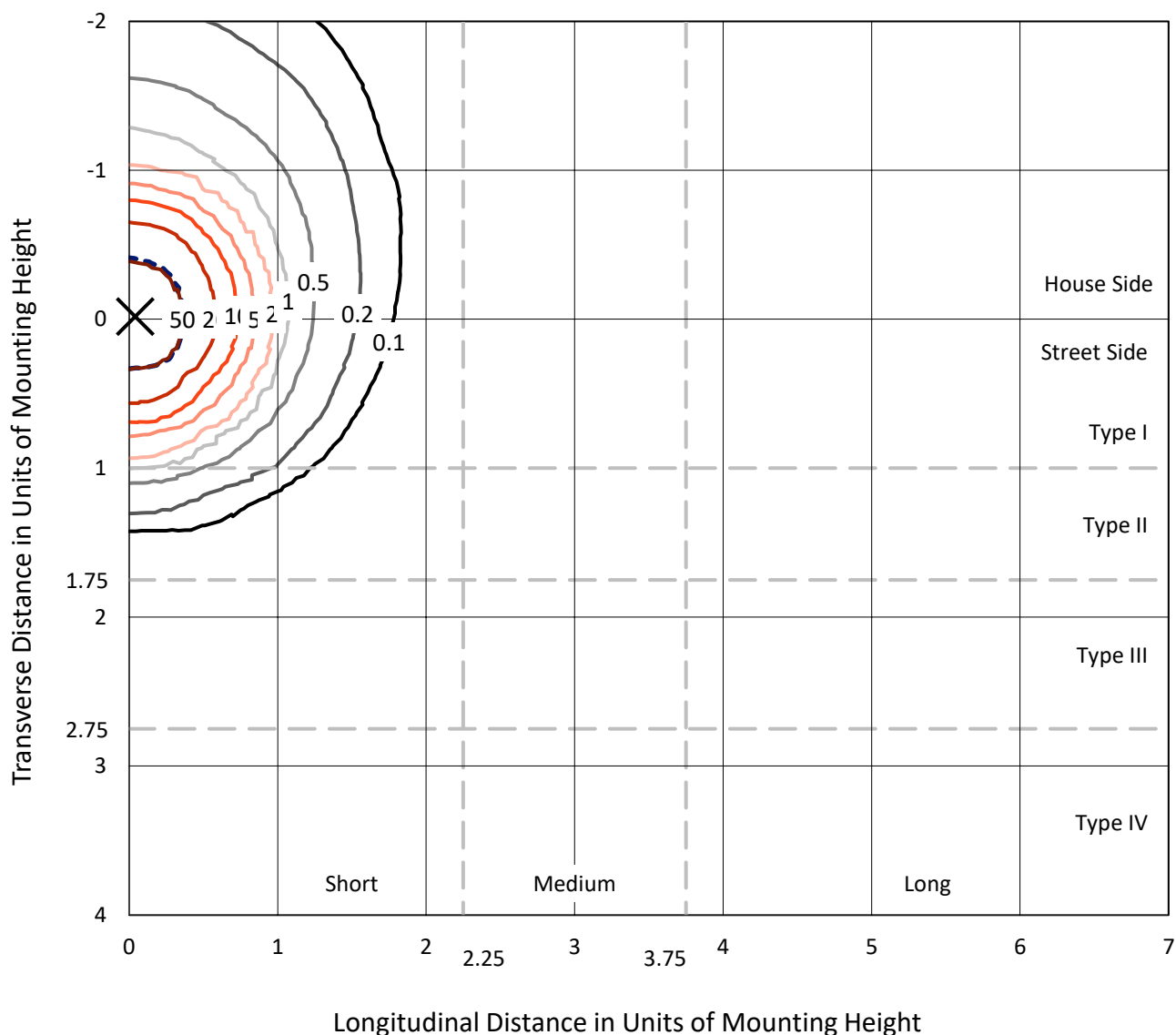
REPORT NUMBER: P636446

CATALOG NUMBER: IFLD-L-SA8D-927-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



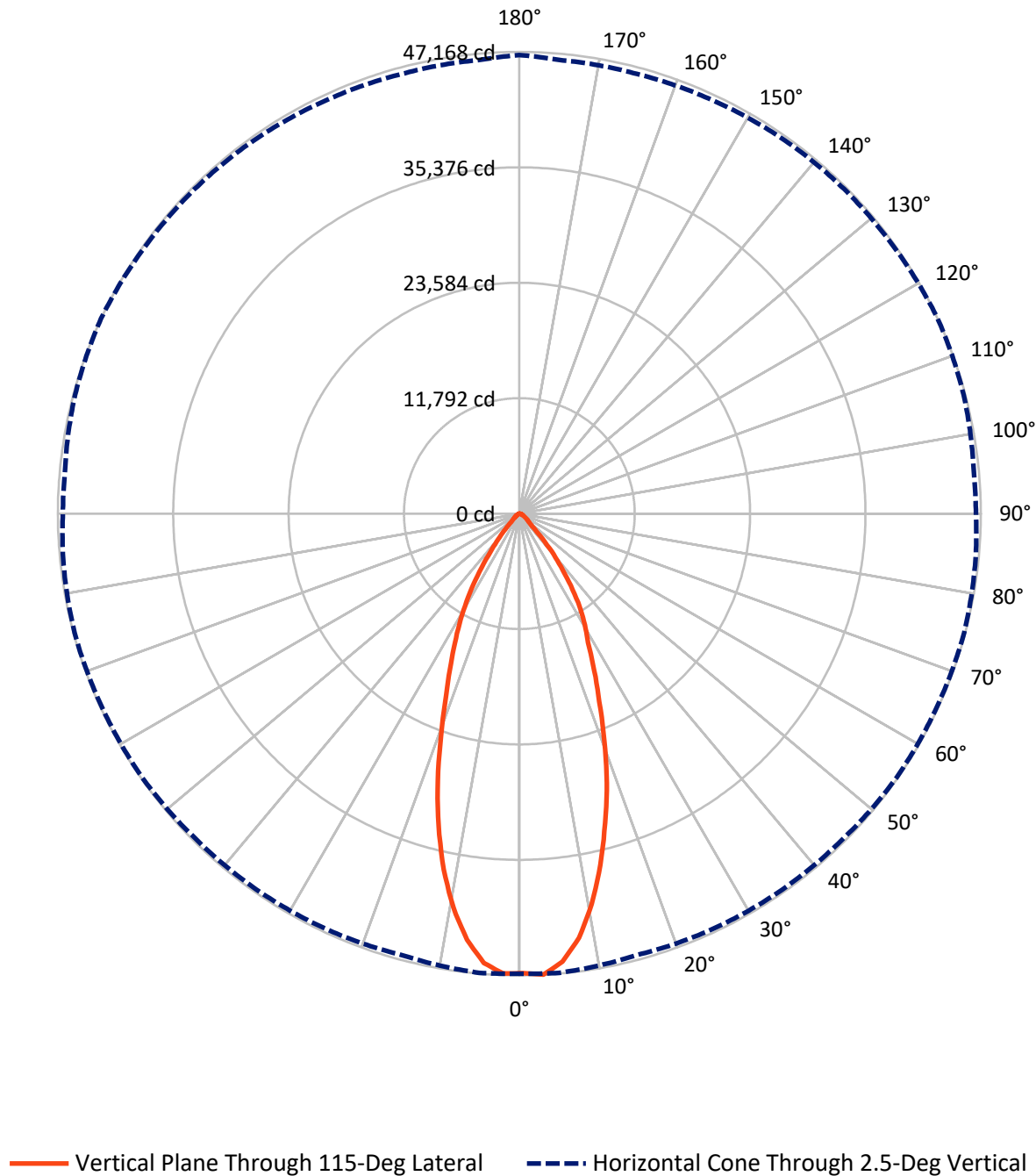
Based on 20 foot mounting height. Maximum calculated value = 117.4 fc

Type I - Short - N/A

REPORT NUMBER: P636446

CATALOG NUMBER: IFLD-L-SA8D-927-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636446

CATALOG NUMBER: IFLD-L-SA8D-927-U-55-VI

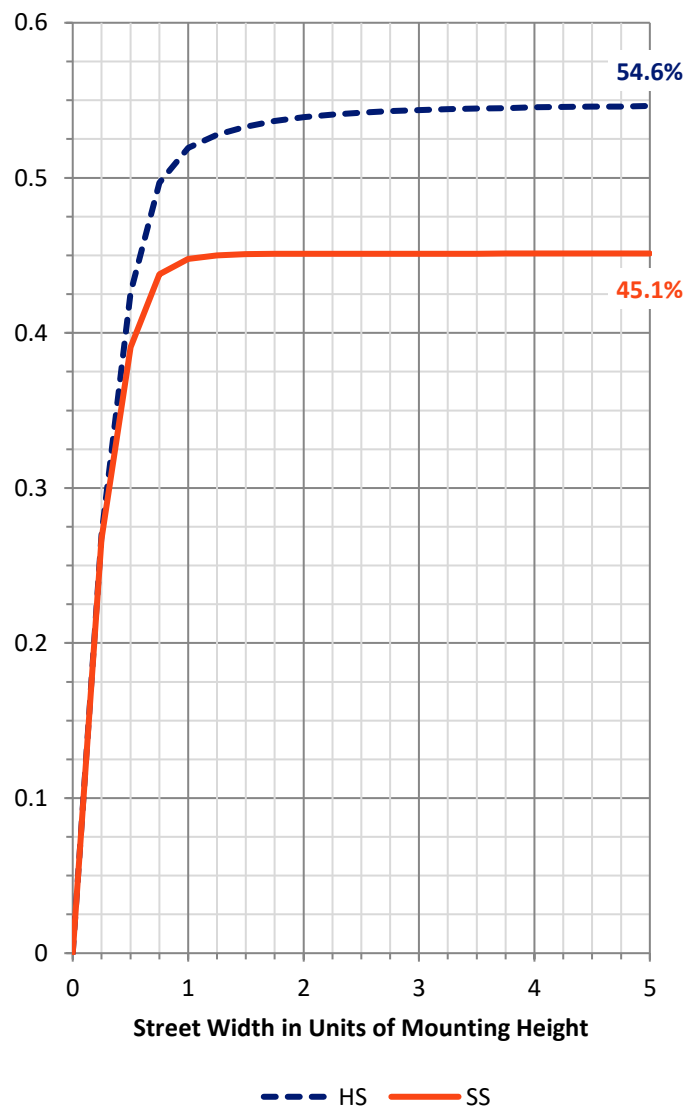
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16117.8	0.0	16117.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13087.3	0.0	13087.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	29205.1	0.0	29205.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4210.8	14.4
10°-20°	8899.4	30.5
20°-30°	8032.3	27.5
30°-40°	5315.4	18.2
40°-50°	1592.3	5.5
50°-60°	638.7	2.2
60°-70°	330.8	1.1
70°-80°	143.6	0.5
80°-90°	41.8	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°	29205.1	100.0
0°-180°	29205.1	100.0

Coefficient of Utilization



REPORT NUMBER: P636446

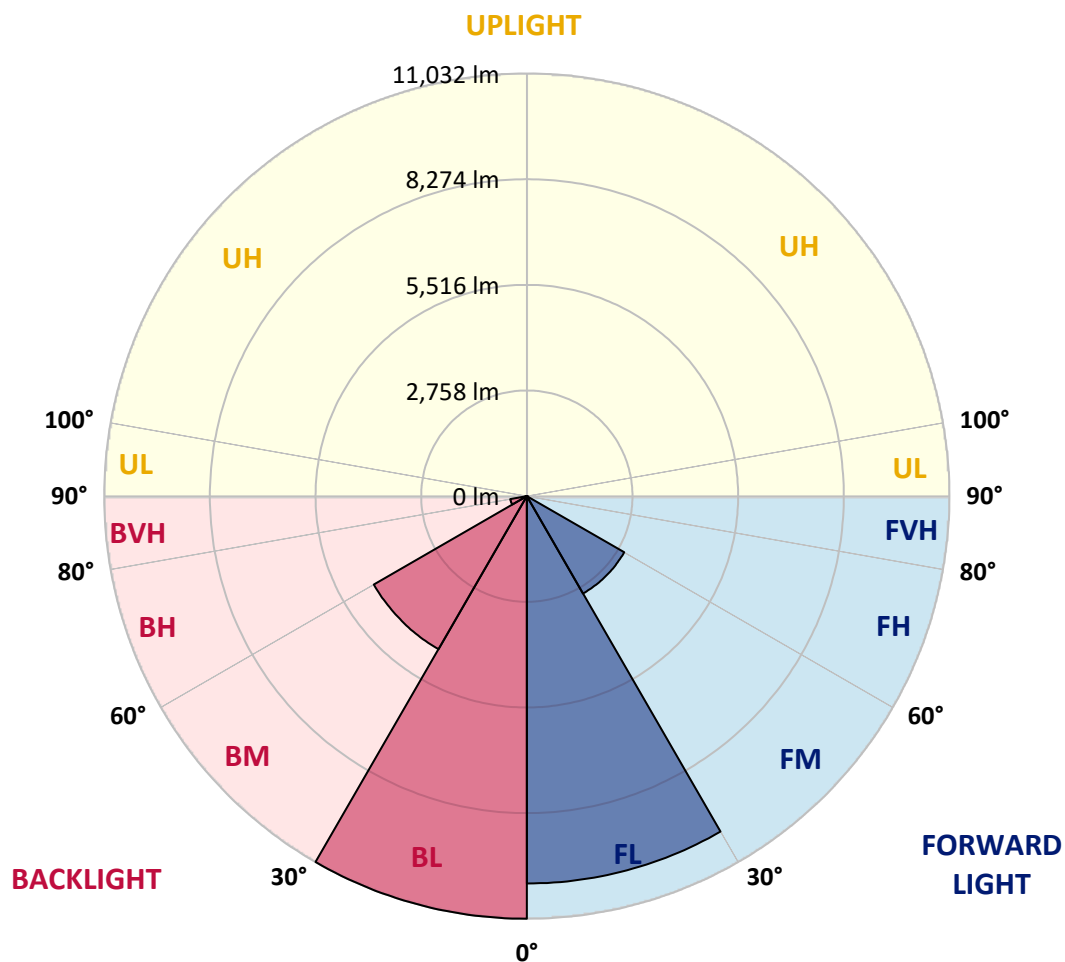
CATALOG NUMBER: IFLD-L-SA8D-927-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10111.0	34.6			
FM	(30°-60°)	2933.9	10.0			
FH	(60°-80°)	36.3	0.1			G0/660
FVH	(80°-90°)	6.0	0.0			G0/10
BL	(0°-30°)	11031.5	37.8	B5		
BM	(30°-60°)	4612.5	15.8	B3/5000		
BH	(60°-80°)	438.0	1.5	B1/500		G1/500
BVH	(80°-90°)	35.8	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



REPORT NUMBER: P636446

CATALOG NUMBER: IFLD-L-SA8D-927-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	46947.2	46947.2	46947.2	46947.2	46947.2	46947.2	46947.2	46947.2	46947.2	46947.2
2.5°	47006.9	47090.5	46672.4	46815.8	46875.5	46893.4	47042.8	47018.9	47060.7	46839.7
5°	46385.7	46224.5	45913.9	45919.8	45901.9	45734.7	46075.1	46051.3	45979.6	45716.8
7.5°	44271.3	44504.3	43918.9	43907.0	43895.0	43691.9	44139.9	43865.2	43924.9	43548.6
10°	41177.3	41207.2	40687.6	40639.8	40681.6	40418.8	40938.4	40830.9	40944.4	40550.2
12.5°	37384.5	37551.8	36978.4	36894.8	37062.0	36691.7	37109.8	37163.5	36996.3	36942.5
15°	29321.1	29763.1	30850.2	32510.6	32940.7	32630.1	32964.6	32958.6	33030.3	32624.1
17.5°	22338.7	22380.6	22123.7	22918.1	27517.3	29010.5	29082.2	28514.7	28084.7	27935.4
20°	19501.6	19645.0	19412.0	19477.7	20212.4	24590.5	24757.8	23903.6	23169.0	23109.2
22.5°	17243.8	17333.4	17166.2	17219.9	17255.8	17769.5	20678.3	19925.7	19573.3	19304.5
25°	15332.5	15332.5	15242.9	15260.8	15225.0	14466.4	15959.7	16819.8	16616.7	16521.1
27.5°	13588.4	13612.3	13498.8	13564.5	13128.5	11904.0	11724.9	14263.3	14048.3	13875.1
30°	11933.9	12011.6	11904.0	11939.9	10990.2	9986.7	9473.1	11898.1	12166.8	12119.1
32.5°	8983.3	9335.7	10201.8	10237.6	8947.4	8176.9	7950.0	9550.7	10572.1	10482.5
35°	5566.8	5548.8	5584.7	7304.9	6862.9	6337.3	6420.9	7215.3	8368.1	8326.3
37.5°	4246.7	4240.8	4306.5	4133.3	4497.6	4808.2	4873.9	4873.9	6110.3	6116.3
40°	3219.4	3195.5	3189.5	2914.8	2442.9	3607.6	3500.1	3410.5	4246.7	4336.3
42.5°	2054.7	2126.4	2072.6	1774.0	1594.8	1971.1	2198.0	2126.4	2622.1	2687.8
45°	1146.8	1146.8	1099.0	931.8	925.8	997.5	1254.3	1170.7	1343.9	1433.5
47.5°	555.5	543.5	597.3	734.7	764.5	740.6	895.9	931.8	1015.4	1099.0
50°	448.0	448.0	424.1	382.3	633.1	609.2	663.0	710.8	758.6	830.2
52.5°	376.3	376.3	346.4	322.5	364.3	465.9	471.9	561.5	555.5	657.0
55°	191.1	197.1	280.7	280.7	244.9	382.3	388.2	453.9	465.9	549.5
57.5°	17.9	23.9	35.8	173.2	191.1	209.1	292.7	334.5	388.2	424.1
60°	6.0	6.0	11.9	23.9	113.5	143.4	185.2	221.0	268.8	352.4
62.5°	0.0	0.0	6.0	11.9	23.9	89.6	101.5	113.5	161.3	221.0
65°	0.0	0.0	6.0	6.0	11.9	29.9	41.8	71.7	101.5	137.4
67.5°	0.0	0.0	6.0	6.0	11.9	17.9	23.9	35.8	47.8	89.6
70°	0.0	0.0	6.0	6.0	11.9	17.9	17.9	23.9	29.9	41.8
72.5°	0.0	0.0	6.0	6.0	11.9	23.9	17.9	17.9	23.9	29.9
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	29.9	35.8	29.9	11.9	6.0
85°	0.0	0.0	6.0	6.0	17.9	29.9	29.9	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

REPORT NUMBER: P636446

CATALOG NUMBER: IFLD-L-SA8D-927-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
46947.2	0°	46947.2	46947.2	46947.2	46947.2	46947.2	46947.2	46947.2	46947.2	46947.2
46660.5	2.5°	46636.6	47000.9	47168.2	46995.0	46911.4	46791.9	46618.7	46499.2	46523.1
45573.4	5°	45471.9	45854.1	45985.6	45836.2	45710.8	45645.1	45615.2	45675.0	45830.3
43387.3	7.5°	43375.4	43620.3	43763.6	43691.9	43518.7	43715.8	43769.6	43733.8	43960.7
40430.7	10°	40442.7	40711.5	40580.1	40609.9	40406.8	40508.4	40478.5	40609.9	40836.9
36900.7	12.5°	36661.8	36918.6	36817.1	36799.2	36584.2	36775.3	36655.8	36799.2	37097.8
32456.9	15°	32689.8	32851.1	32785.4	32683.8	32492.7	32558.4	32928.7	32904.8	33036.2
27845.8	17.5°	27726.3	28502.8	28926.9	29016.5	28861.2	28992.6	29255.4	29189.7	29488.3
22983.8	20°	22942.0	23724.5	24769.7	25617.9	25635.8	25653.7	25821.0	25862.8	26119.6
19310.5	22.5°	19226.8	19782.3	20905.2	22028.1	22804.6	22965.9	22948.0	23007.7	23079.4
16389.7	25°	16347.9	16754.1	17781.4	18557.9	19919.7	20373.6	20505.1	20373.6	20415.5
13815.4	27.5°	13970.7	14591.9	14932.3	15762.5	17094.5	18145.7	18103.9	18026.3	18038.2
12023.5	30°	12017.5	12686.5	13188.2	13439.1	14442.5	15959.7	16115.0	15894.0	15899.9
10440.7	32.5°	10375.0	10584.0	11324.7	11527.7	12172.8	13552.6	14084.2	13916.9	13887.1
8350.1	35°	8595.0	8708.5	9049.0	9449.2	9831.4	10876.7	11754.7	11599.4	11677.1
6140.2	37.5°	6116.3	6582.2	6910.7	7239.2	7513.9	8171.0	9228.2	9084.8	9162.5
4348.3	40°	4312.5	4521.5	5088.9	5232.3	5638.4	5943.1	6839.0	6791.2	6886.8
2699.8	42.5°	2652.0	2801.3	3088.0	3225.4	3500.1	3673.3	4199.0	4258.7	4384.1
1493.2	45°	1505.2	1570.9	1768.0	1917.3	2120.4	2192.1	2377.2	2460.8	2532.5
1158.7	47.5°	1146.8	1218.5	1349.9	1481.3	1648.5	1708.3	1839.7	1965.1	2030.8
895.9	50°	937.7	1003.5	1140.8	1248.3	1415.6	1469.3	1576.9	1714.2	1797.9
680.9	52.5°	710.8	806.3	973.6	1087.1	1260.3	1326.0	1427.5	1564.9	1642.6
561.5	55°	585.3	657.0	806.3	961.6	1122.9	1212.5	1278.2	1445.4	1529.1
459.9	57.5°	501.7	555.5	651.0	836.2	973.6	1105.0	1158.7	1314.0	1397.7
364.3	60°	382.3	465.9	549.5	692.9	848.2	985.5	1045.3	1182.6	1248.3
262.8	62.5°	316.6	370.3	477.8	555.5	728.7	872.0	931.8	1057.2	1105.0
173.2	65°	221.0	298.6	400.2	448.0	609.2	746.6	830.2	925.8	973.6
101.5	67.5°	131.4	221.0	316.6	382.3	495.8	633.1	722.7	812.3	854.1
59.7	70°	83.6	173.2	250.9	322.5	388.2	519.6	627.2	704.8	686.9
35.8	72.5°	47.8	107.5	185.2	262.8	322.5	436.0	537.6	597.3	424.1
23.9	75°	29.9	77.6	155.3	215.0	262.8	346.4	442.0	453.9	262.8
11.9	77.5°	23.9	59.7	119.5	173.2	179.2	256.8	310.6	352.4	197.1
11.9	80°	11.9	47.8	101.5	143.4	113.5	179.2	238.9	274.8	155.3
6.0	82.5°	11.9	29.9	77.6	101.5	83.6	137.4	173.2	197.1	131.4
6.0	85°	6.0	23.9	41.8	59.7	59.7	89.6	77.6	95.6	83.6
6.0	87.5°	6.0	11.9	23.9	29.9	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°
46947.2
46845.7
46152.8
44187.7
40926.5
37151.6
33066.1
29440.5
26065.8
22948.0
20349.8
18056.2
15905.9
13958.7
11748.7
9228.2
6922.6
4527.5
2526.5
2060.7
1833.7
1696.3
1553.0
1433.5
1260.3
1111.0
973.6
848.2
633.1
376.3
244.9
197.1
161.3
143.4
83.6
29.9
0.0

(END OF REPORT)