

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: P636503

Luminaire Tested: **IFLD-L-SA8C-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636503
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27837.3 lumens
Efficiency: N/A
Efficacy: 66.2 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): 420.3
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



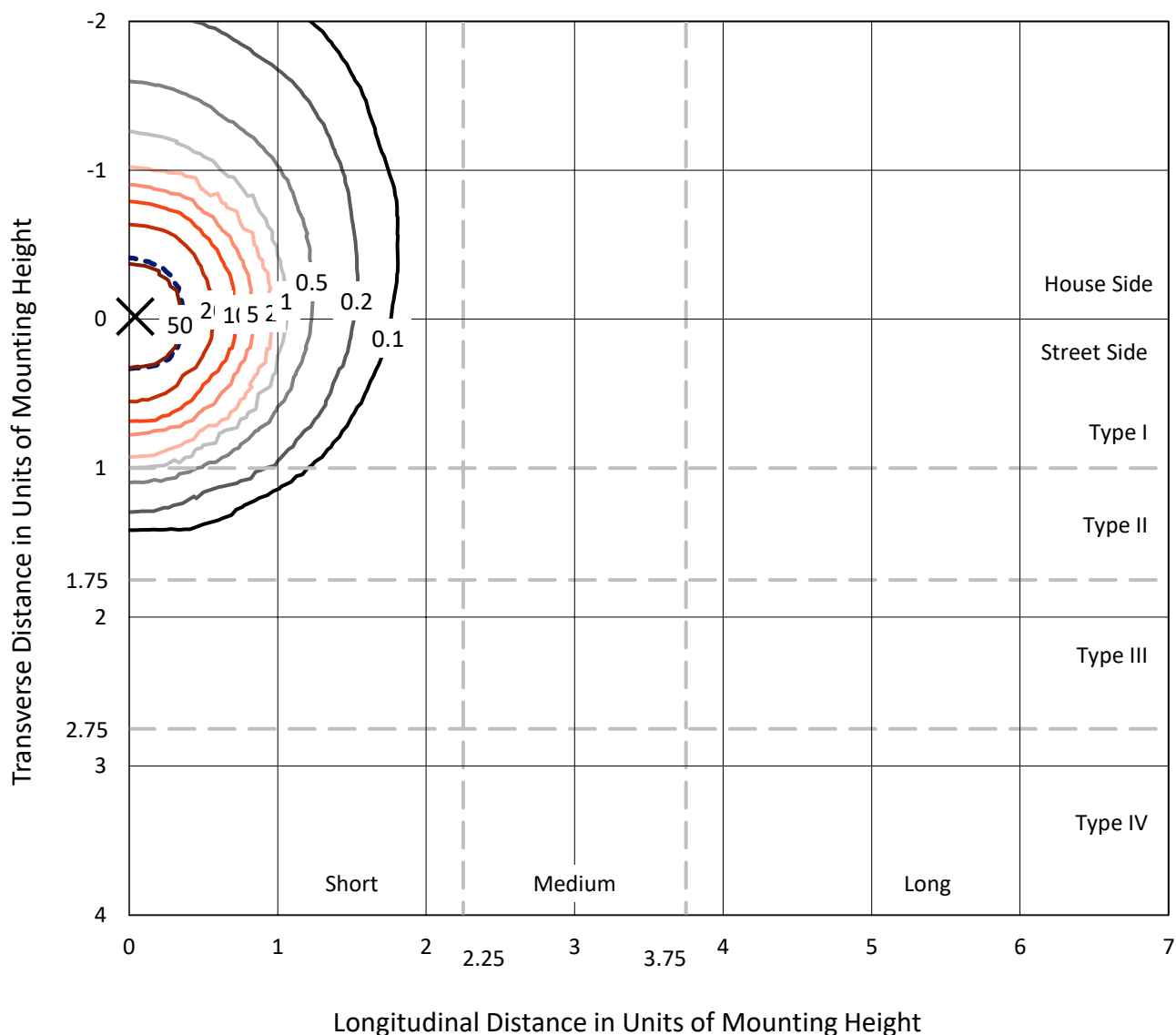
REPORT NUMBER: P636503

CATALOG NUMBER: IFLD-L-SA8C-935-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

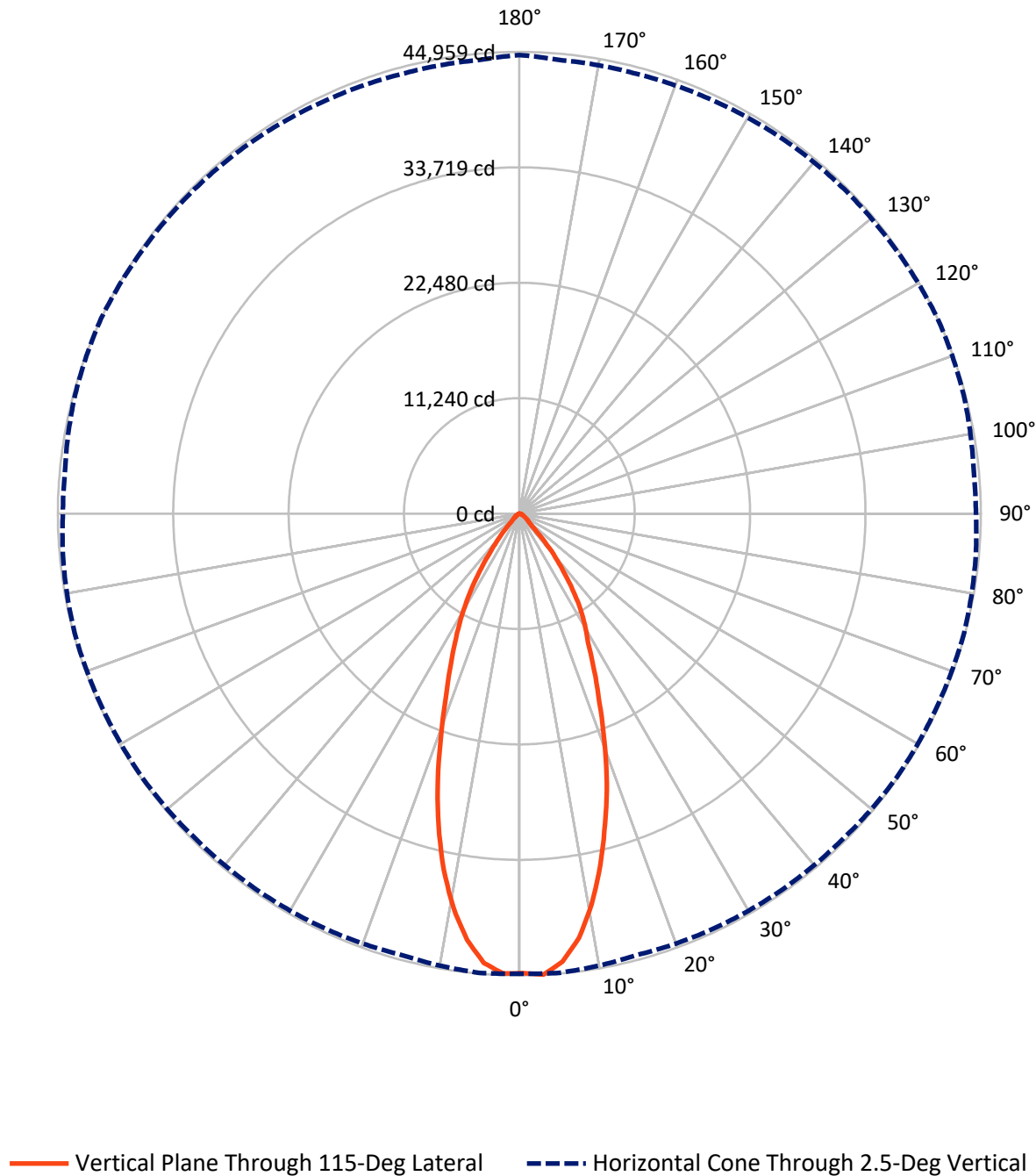


Based on 20 foot mounting height. Maximum calculated value = 111.9 fc

Type I - Short - N/A

REPORT NUMBER: P636503
CATALOG NUMBER: IFLD-L-SA8C-935-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P636503

CATALOG NUMBER: IFLD-L-SA8C-935-U-55-VI

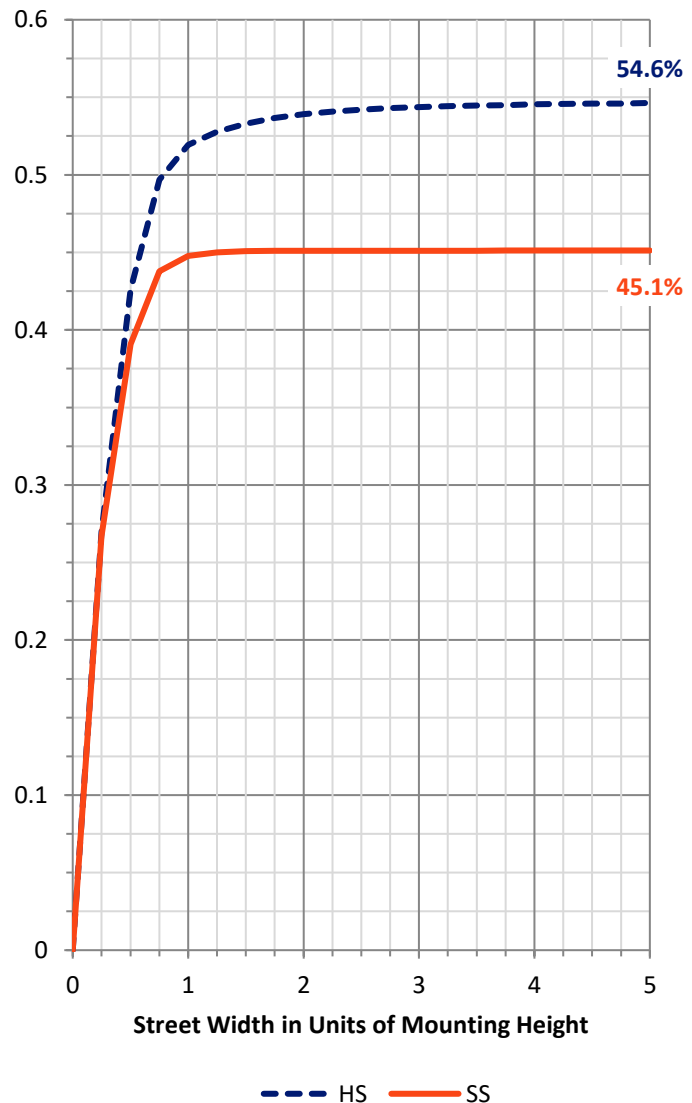
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15362.9	0.0	15362.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12474.4	0.0	12474.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	27837.3	0.0	27837.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4013.6	14.4
10°-20°	8482.6	30.5
20°-30°	7656.1	27.5
30°-40°	5066.5	18.2
40°-50°	1517.7	5.5
50°-60°	608.8	2.2
60°-70°	315.3	1.1
70°-80°	136.9	0.5
80°-90°	39.8	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°	27837.3	100.0
0°-180°	27837.3	100.0

Coefficient of Utilization



REPORT NUMBER: P636503

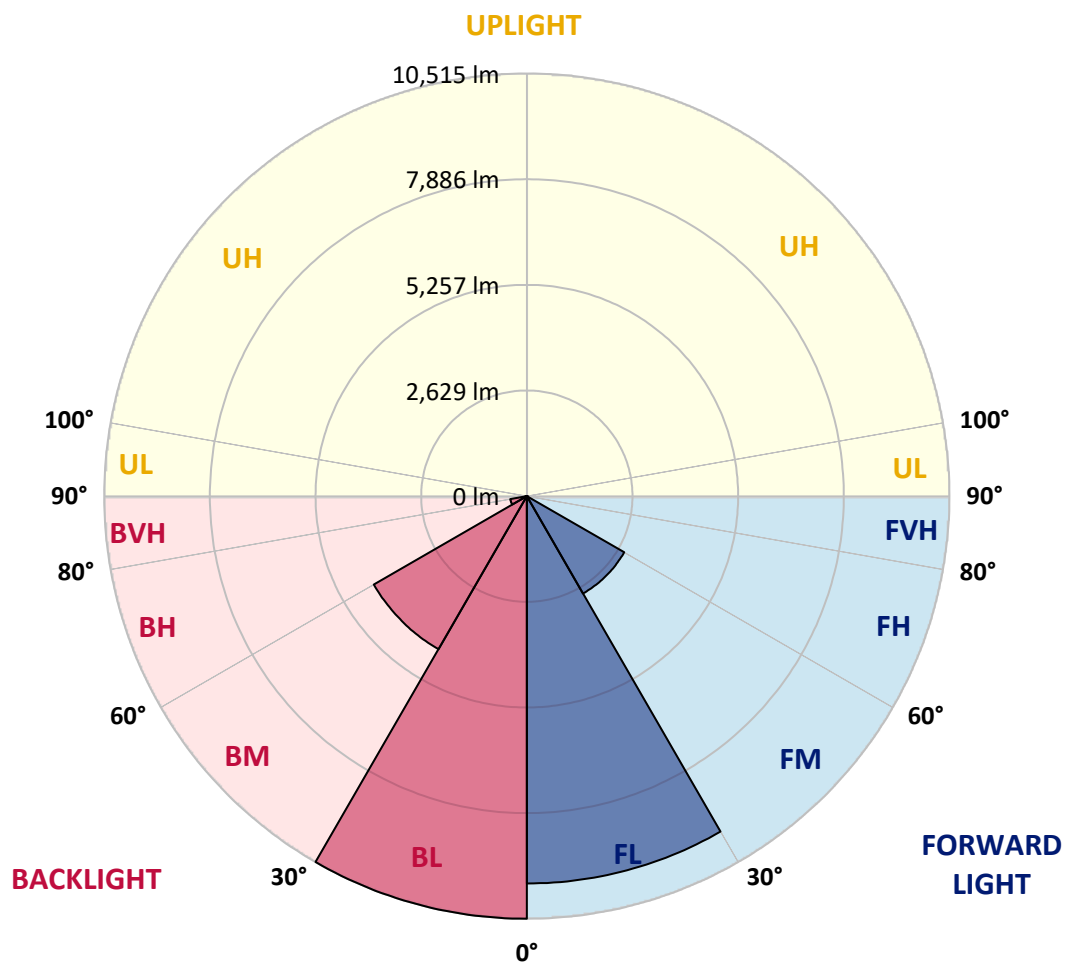
CATALOG NUMBER: IFLD-L-SA8C-935-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9637.5	34.6			
FM	(30°-60°)	2796.5	10.0			
FH	(60°-80°)	34.6	0.1			G0/660
FVH	(80°-90°)	5.7	0.0			G0/10
BL	(0°-30°)	10514.9	37.8	B5		
BM	(30°-60°)	4396.5	15.8	B3/5000		
BH	(60°-80°)	417.5	1.5	B1/500		G1/500
BVH	(80°-90°)	34.1	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: P636503

CATALOG NUMBER: IFLD-L-SA8C-935-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5
2.5°	44805.4	44885.1	44486.6	44623.2	44680.1	44697.2	44839.5	44816.8	44856.6	44646.0
5°	44213.3	44059.6	43763.5	43769.2	43752.2	43592.7	43917.3	43894.5	43826.2	43575.7
7.5°	42197.9	42419.9	41862.0	41850.6	41839.2	41645.7	42072.7	41810.8	41867.7	41509.0
10°	39248.8	39277.3	38782.0	38736.5	38776.3	38525.8	39021.1	38918.6	39026.8	38651.1
12.5°	35633.7	35793.1	35246.5	35166.8	35326.2	34973.3	35371.8	35423.0	35263.6	35212.4
15°	27947.9	28369.2	29405.3	30988.0	31397.9	31101.9	31420.7	31415.0	31483.3	31096.2
17.5°	21292.5	21332.4	21087.6	21844.8	26228.5	27651.8	27720.1	27179.3	26769.4	26627.0
20°	18588.3	18724.9	18502.9	18565.5	19265.7	23438.9	23598.3	22784.1	22083.9	22026.9
22.5°	16436.2	16521.6	16362.2	16413.5	16447.6	16937.2	19709.8	18992.5	18656.6	18400.4
25°	14614.4	14614.4	14529.0	14546.1	14511.9	13788.9	15212.2	16032.0	15838.4	15747.4
27.5°	12952.0	12974.8	12866.6	12929.2	12513.6	11346.5	11175.7	13595.3	13390.4	13225.3
30°	11375.0	11449.0	11346.5	11380.7	10475.5	9519.0	9029.4	11340.8	11597.0	11551.5
32.5°	8562.6	8898.5	9724.0	9758.1	8528.4	7794.0	7577.6	9103.4	10076.9	9991.5
35°	5306.1	5289.0	5323.1	6962.8	6541.5	6040.5	6120.2	6877.4	7976.2	7936.3
37.5°	4047.9	4042.2	4104.8	3939.7	4287.0	4583.0	4645.6	4645.6	5824.1	5829.8
40°	3068.6	3045.9	3040.2	2778.3	2328.5	3438.7	3336.2	3250.8	4047.9	4133.3
42.5°	1958.5	2026.8	1975.5	1690.9	1520.1	1878.8	2095.1	2026.8	2499.3	2561.9
45°	1093.1	1093.1	1047.5	888.1	882.4	950.8	1195.6	1115.9	1281.0	1366.4
47.5°	529.5	518.1	569.3	700.3	728.7	706.0	854.0	888.1	967.8	1047.5
50°	427.0	427.0	404.2	364.4	603.5	580.7	631.9	677.5	723.0	791.4
52.5°	358.7	358.7	330.2	307.4	347.3	444.1	449.8	535.2	529.5	626.3
55°	182.2	187.9	267.6	267.6	233.4	364.4	370.1	432.7	444.1	523.8
57.5°	17.1	22.8	34.2	165.1	182.2	199.3	279.0	318.8	370.1	404.2
60°	5.7	5.7	11.4	22.8	108.2	136.6	176.5	210.6	256.2	335.9
62.5°	0.0	0.0	5.7	11.4	22.8	85.4	96.8	108.2	153.7	210.6
65°	0.0	0.0	5.7	5.7	11.4	28.5	39.9	68.3	96.8	130.9
67.5°	0.0	0.0	5.7	5.7	11.4	17.1	22.8	34.2	45.5	85.4
70°	0.0	0.0	5.7	5.7	11.4	17.1	17.1	22.8	28.5	39.9
72.5°	0.0	0.0	5.7	5.7	11.4	22.8	17.1	17.1	22.8	28.5
75°	0.0	0.0	5.7	5.7	11.4	17.1	17.1	17.1	17.1	17.1
77.5°	0.0	0.0	5.7	5.7	11.4	17.1	17.1	17.1	11.4	11.4
80°	0.0	0.0	5.7	5.7	11.4	17.1	22.8	22.8	11.4	11.4
82.5°	0.0	0.0	5.7	11.4	11.4	28.5	34.2	28.5	11.4	5.7
85°	0.0	0.0	5.7	5.7	17.1	28.5	28.5	17.1	11.4	5.7
87.5°	0.0	0.0	0.0	5.7	5.7	11.4	17.1	17.1	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P636503

CATALOG NUMBER: IFLD-L-SA8C-935-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
44748.5	0°	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5	44748.5
44475.2	2.5°	44452.4	44799.7	44959.1	44794.0	44714.3	44600.4	44435.3	44321.5	44344.2
43439.0	5°	43342.2	43706.6	43831.9	43689.5	43570.0	43507.3	43478.9	43535.8	43683.8
41355.3	7.5°	41343.9	41577.4	41714.0	41645.7	41480.6	41668.4	41719.7	41685.5	41901.9
38537.2	10°	38548.6	38804.8	38679.5	38708.0	38514.4	38611.2	38582.7	38708.0	38924.3
35172.5	12.5°	34944.8	35189.6	35092.8	35075.7	34870.8	35053.0	34939.1	35075.7	35360.4
30936.8	15°	31158.8	31312.5	31249.9	31153.1	30970.9	31033.6	31386.5	31363.8	31489.0
26541.6	17.5°	26427.8	27167.9	27572.1	27657.5	27509.5	27634.7	27885.2	27822.6	28107.3
21907.4	20°	21867.5	22613.3	23609.7	24418.1	24435.2	24452.2	24611.7	24651.5	24896.3
18406.1	22.5°	18326.4	18855.8	19926.2	20996.5	21736.6	21890.3	21873.2	21930.2	21998.5
15622.1	25°	15582.3	15969.4	16948.6	17688.7	18986.8	19419.5	19544.7	19419.5	19459.3
13168.3	27.5°	13316.4	13908.5	14233.0	15024.3	16293.9	17295.9	17256.1	17182.0	17193.4
11460.4	30°	11454.7	12092.3	12570.6	12809.7	13766.1	15212.2	15360.2	15149.6	15155.3
9951.7	32.5°	9889.1	10088.3	10794.3	10987.9	11602.7	12917.8	13424.5	13265.1	13236.7
7959.1	35°	8192.5	8300.7	8625.2	9006.6	9371.0	10367.3	11204.2	11056.2	11130.2
5852.6	37.5°	5829.8	6273.9	6587.0	6900.1	7162.0	7788.3	8796.0	8659.3	8733.4
4144.6	40°	4110.5	4309.7	4850.6	4987.2	5374.4	5664.7	6518.7	6473.2	6564.2
2573.3	42.5°	2527.8	2670.1	2943.4	3074.3	3336.2	3501.3	4002.3	4059.2	4178.8
1423.3	45°	1434.7	1497.3	1685.2	1827.5	2021.1	2089.4	2265.9	2345.6	2413.9
1104.5	47.5°	1093.1	1161.4	1286.7	1411.9	1571.3	1628.3	1753.5	1873.1	1935.7
854.0	50°	893.8	956.5	1087.4	1189.9	1349.3	1400.5	1503.0	1633.9	1713.6
649.0	52.5°	677.5	768.6	928.0	1036.2	1201.3	1263.9	1360.7	1491.6	1565.6
535.2	55°	557.9	626.3	768.6	916.6	1070.3	1155.7	1218.3	1377.8	1457.5
438.4	57.5°	478.2	529.5	620.6	797.0	928.0	1053.2	1104.5	1252.5	1332.2
347.3	60°	364.4	444.1	523.8	660.4	808.4	939.4	996.3	1127.3	1189.9
250.5	62.5°	301.7	353.0	455.5	529.5	694.6	831.2	888.1	1007.7	1053.2
165.1	65°	210.6	284.7	381.4	427.0	580.7	711.6	791.4	882.4	928.0
96.8	67.5°	125.3	210.6	301.7	364.4	472.5	603.5	688.9	774.3	814.1
56.9	70°	79.7	165.1	239.1	307.4	370.1	495.3	597.8	671.8	654.7
34.2	72.5°	45.5	102.5	176.5	250.5	307.4	415.6	512.4	569.3	404.2
22.8	75°	28.5	74.0	148.0	205.0	250.5	330.2	421.3	432.7	250.5
11.4	77.5°	22.8	56.9	113.9	165.1	170.8	244.8	296.0	335.9	187.9
11.4	80°	11.4	45.5	96.8	136.6	108.2	170.8	227.7	261.9	148.0
5.7	82.5°	11.4	28.5	74.0	96.8	79.7	130.9	165.1	187.9	125.3
5.7	85°	5.7	22.8	39.9	56.9	56.9	85.4	74.0	91.1	79.7
5.7	87.5°	5.7	11.4	22.8	28.5	22.8	34.2	39.9	39.9	34.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
44748.5
44651.7
43991.3
42118.2
39009.7
35411.6
31517.5
28061.7
24845.1
21873.2
19396.7
17210.5
15161.0
13305.0
11198.5
8796.0
6598.4
4315.4
2408.2
1964.1
1747.8
1616.9
1480.2
1366.4
1201.3
1058.9
928.0
808.4
603.5
358.7
233.4
187.9
153.7
136.6
79.7
28.5
0.0

(END OF REPORT)