

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: P637655

Luminaire Tested: **IFLD-M-SA4E-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637655
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34008.5 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 314.8
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



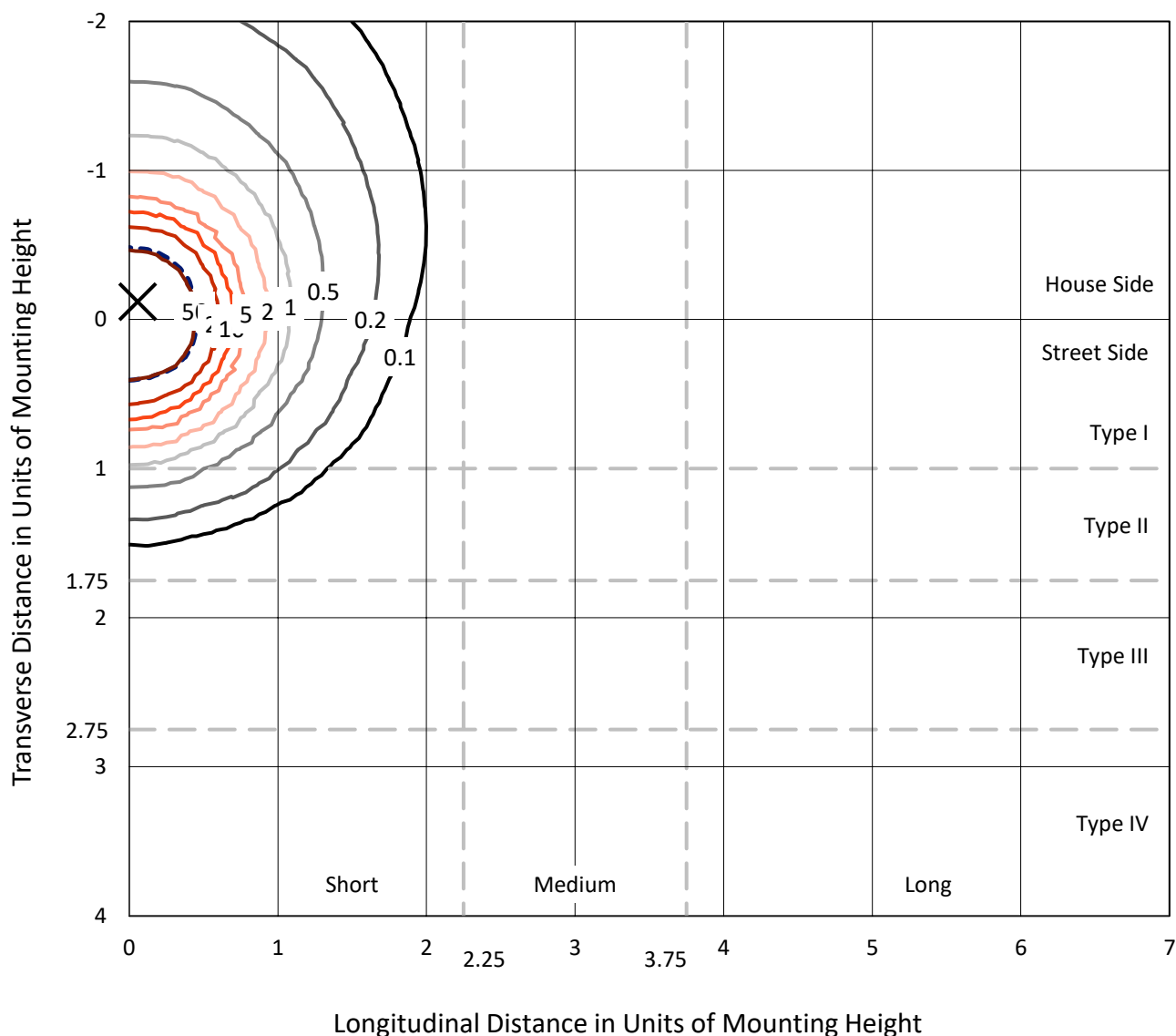
REPORT NUMBER: P637655

CATALOG NUMBER: IFLD-M-SA4E-740-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

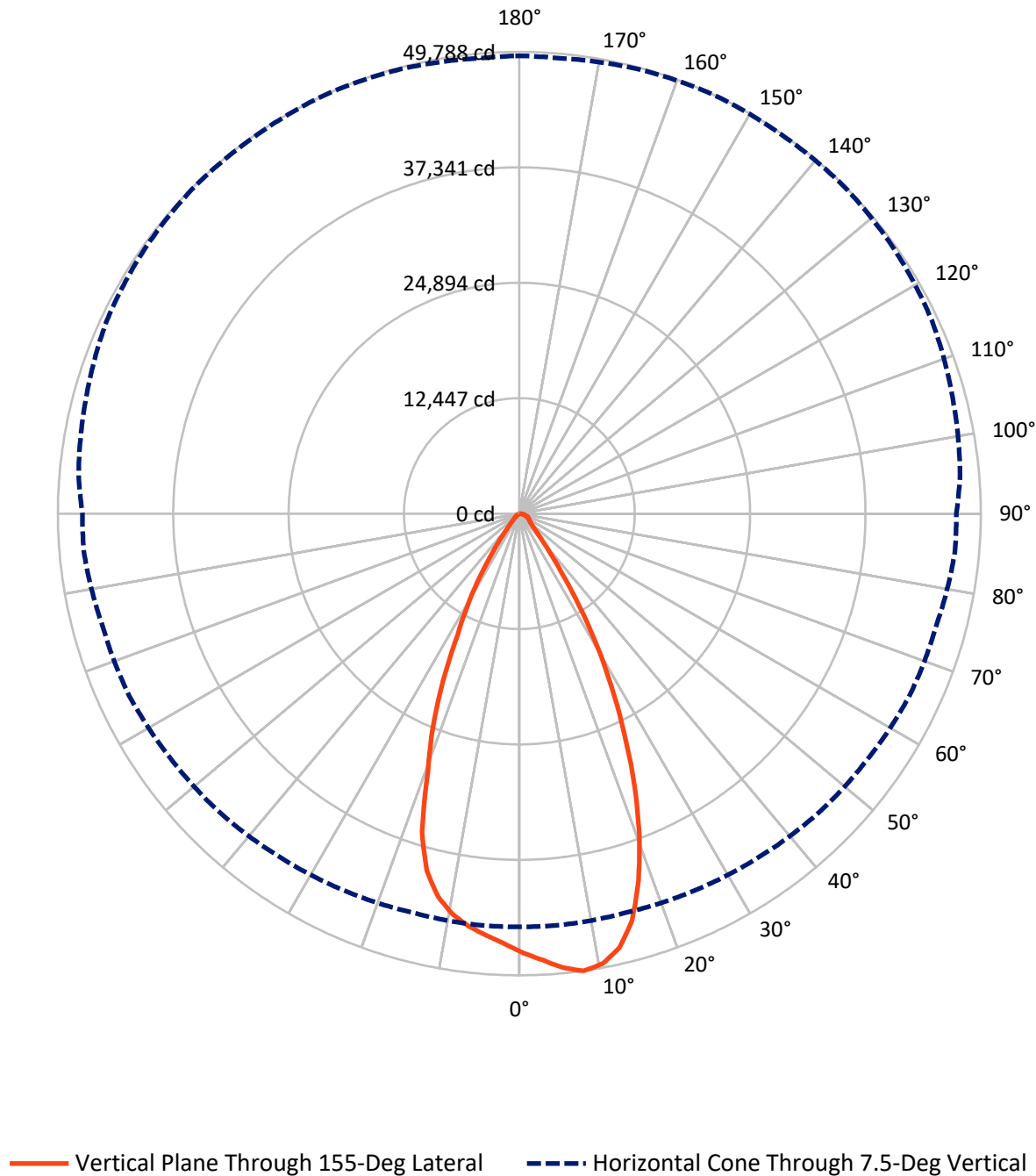


Based on 20 foot mounting height. Maximum calculated value = 120.4 fc

Type I - Short - N/A

REPORT NUMBER: P637655
CATALOG NUMBER: IFLD-M-SA4E-740-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637655

CATALOG NUMBER: IFLD-M-SA4E-740-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18773.9	0.0	18773.9
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15234.6	0.0	15234.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	34008.5	0.0	34008.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4517.7	13.3
10°-20°	11714.3	34.4
20°-30°	10733.6	31.6
30°-40°	4336.4	12.8
40°-50°	1272.1	3.7
50°-60°	711.3	2.1
60°-70°	432.0	1.3
70°-80°	219.5	0.6
80°-90°	71.8	0.2
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°	34008.5	100.0
0°-180°	34008.5	100.0

Coefficient of Utilization



REPORT NUMBER: P637655

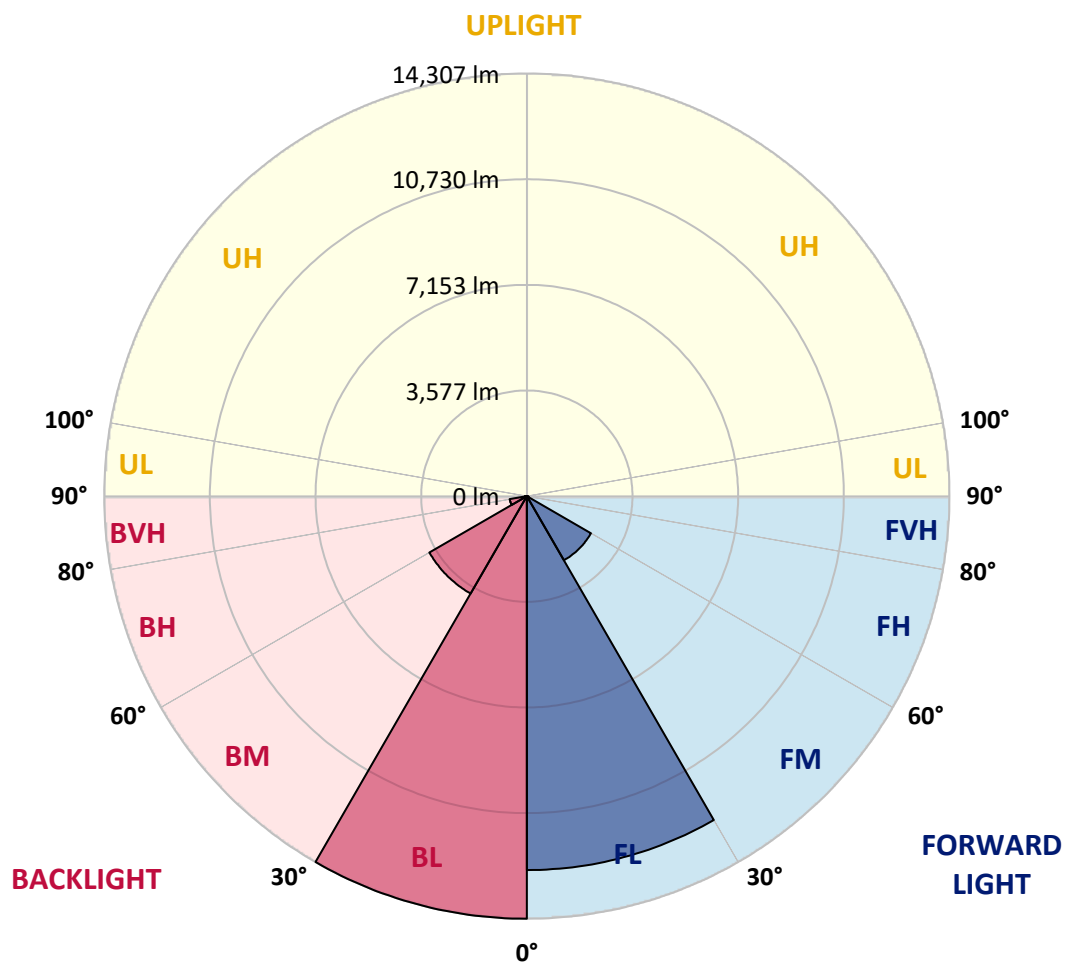
CATALOG NUMBER: IFLD-M-SA4E-740-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12658.8	37.2			
FM	(30°-60°)	2508.8	7.4			
FH	(60°-80°)	60.8	0.2			G0/660
FVH	(80°-90°)	6.2	0.0			G0/10
BL	(0°-30°)	14306.7	42.1	B5		
BM	(30°-60°)	3810.9	11.2	B3/5000		
BH	(60°-80°)	590.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	65.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short



REPORT NUMBER: P637655

CATALOG NUMBER: IFLD-M-SA4E-740-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	47376.4	47376.4	47376.4	47376.4	47376.4	47376.4	47376.4	47376.4	47376.4	47376.4
2.5°	46349.0	46505.9	46192.1	46400.0	46560.8	46945.1	46976.4	47109.8	47156.8	47505.9
5°	45470.6	45592.1	45337.2	45615.7	45843.1	46184.3	46447.0	46815.7	47019.6	47431.3
7.5°	44556.8	44584.3	44533.3	44827.4	45168.6	45639.2	45964.7	46447.0	46572.5	47160.8
10°	43451.0	43251.0	43349.0	43780.4	44290.2	45011.7	45235.3	45717.6	45941.1	46541.1
12.5°	41686.2	41788.2	41666.6	42215.7	42639.2	43458.8	43694.1	44180.4	44607.8	45137.2
15°	39200.0	39141.2	39388.2	39815.7	40274.5	40925.5	41305.9	41835.3	42160.8	42709.8
17.5°	33611.7	33811.7	34831.3	35901.9	36843.1	37603.9	38058.8	38498.0	38733.3	39329.4
20°	29027.4	28776.5	28913.7	29517.6	32196.1	33360.8	33839.2	33945.1	34043.1	34513.7
22.5°	23901.9	23819.6	24278.4	24956.8	25592.1	28278.4	28929.4	28682.3	28886.3	29329.4
25°	17749.0	18164.7	18572.5	19874.5	20698.0	22015.7	23251.0	23360.8	23435.3	23713.7
27.5°	14447.0	14302.0	14294.1	14658.8	15874.5	16972.5	18023.5	18266.7	18223.5	18490.2
30°	11356.9	11309.8	11145.1	11231.4	11109.8	12086.3	12580.4	13580.4	13525.5	13533.3
32.5°	8192.2	8015.7	7949.0	8078.4	7952.9	7862.7	8294.1	9423.5	9403.9	9482.3
35°	4956.9	4933.3	4988.2	5102.0	4851.0	4843.1	4933.3	5996.1	6125.5	6251.0
37.5°	2737.3	2713.7	2756.9	3176.5	3094.1	3019.6	3043.1	3603.9	3976.5	4070.6
40°	1803.9	1800.0	1831.4	1905.9	2047.1	2019.6	2031.4	2282.4	2635.3	2717.6
42.5°	1207.8	1211.8	1231.4	1317.6	1337.3	1478.4	1454.9	1513.7	1843.1	1913.7
45°	964.7	960.8	972.5	933.3	956.9	1102.0	1117.6	1121.6	1403.9	1447.1
47.5°	760.8	760.8	772.5	721.6	709.8	800.0	882.4	894.1	1121.6	1180.4
50°	533.3	533.3	592.2	568.6	596.1	623.5	713.7	725.5	917.6	980.4
52.5°	392.2	400.0	407.8	411.8	502.0	498.0	576.5	631.4	694.1	803.9
55°	298.0	305.9	286.3	305.9	372.5	415.7	431.4	509.8	552.9	674.5
57.5°	196.1	215.7	200.0	235.3	251.0	321.6	345.1	419.6	447.1	552.9
60°	27.5	31.4	51.0	164.7	176.5	211.8	266.7	333.3	360.8	451.0
62.5°	3.9	3.9	11.8	27.5	117.6	141.2	200.0	231.4	266.7	337.3
65°	0.0	0.0	3.9	7.8	23.5	82.4	102.0	125.5	184.3	243.1
67.5°	0.0	0.0	3.9	7.8	11.8	27.5	43.1	82.4	105.9	168.6
70°	0.0	0.0	3.9	7.8	11.8	15.7	23.5	31.4	62.7	98.0
72.5°	0.0	0.0	3.9	7.8	11.8	15.7	19.6	23.5	27.5	62.7
75°	0.0	0.0	3.9	7.8	11.8	19.6	23.5	23.5	23.5	27.5
77.5°	0.0	0.0	3.9	7.8	15.7	23.5	27.5	23.5	19.6	19.6
80°	0.0	0.0	3.9	11.8	19.6	27.5	31.4	23.5	15.7	11.8
82.5°	0.0	0.0	3.9	11.8	19.6	27.5	31.4	27.5	15.7	11.8
85°	0.0	0.0	3.9	11.8	15.7	19.6	31.4	27.5	15.7	7.8
87.5°	0.0	0.0	0.0	3.9	3.9	7.8	15.7	11.8	7.8	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637655

CATALOG NUMBER: IFLD-M-SA4E-740-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
47376.4	0°	47376.4	47376.4	47376.4	47376.4	47376.4	47376.4	47376.4	47376.4	47376.4
47498.0	2.5°	47850.9	48027.4	48337.2	48423.5	48690.2	48384.3	48215.7	48231.3	47866.6
47380.4	5°	47850.9	48254.9	48796.0	49054.9	49250.9	49235.3	49192.1	49082.3	48815.7
47145.1	7.5°	47725.5	48384.3	49129.4	49474.5	49709.8	49690.2	49788.2	49611.7	49286.2
46725.5	10°	47321.5	47894.1	48811.7	49094.1	49474.5	49482.3	49360.8	49396.0	48815.7
45192.1	12.5°	46051.0	46498.0	47301.9	47623.5	48086.2	48160.8	48027.4	47976.4	47427.4
42678.4	15°	43592.1	43851.0	44658.8	44980.4	45439.2	45376.4	45509.8	45454.9	44972.5
39282.3	17.5°	39996.1	40078.4	40925.5	41196.1	41627.4	41796.1	41596.1	41851.0	41435.3
34596.1	20°	34839.2	35282.3	36235.3	36651.0	36901.9	37203.9	36941.2	37227.4	36741.2
28909.8	22.5°	29607.8	29870.6	30733.3	31333.3	31800.0	31858.8	31760.8	31960.8	31305.9
23898.0	25°	23894.1	24329.4	25011.7	25796.1	26254.9	26537.2	26282.3	26411.7	26305.9
18533.3	27.5°	18847.0	19235.3	19749.0	20333.3	21023.5	21392.1	21188.2	21407.8	20890.2
13819.6	30°	13831.4	14027.4	14607.8	15227.4	15984.3	16431.4	16451.0	16674.5	16368.6
9682.3	32.5°	9752.9	9925.5	10282.3	10694.1	11415.7	11913.7	11835.3	11866.7	11678.4
6309.8	35°	6341.2	6572.5	6827.4	7023.5	7458.8	8007.8	7964.7	7925.5	7796.1
4149.0	37.5°	4239.2	4329.4	4470.6	4647.1	4929.4	5274.5	5388.2	5247.1	5192.2
2800.0	40°	2866.7	3023.5	3117.6	3251.0	3384.3	3674.5	3752.9	3725.5	3670.6
1960.8	42.5°	2035.3	2156.9	2274.5	2403.9	2474.5	2654.9	2807.8	2764.7	2741.2
1490.2	45°	1545.1	1654.9	1792.2	1890.2	1960.8	2066.7	2211.8	2227.4	2192.2
1196.1	47.5°	1239.2	1337.3	1447.1	1568.6	1651.0	1717.6	1843.1	1890.2	1866.7
1007.8	50°	1051.0	1125.5	1231.4	1352.9	1443.1	1502.0	1611.8	1662.7	1647.1
843.1	52.5°	894.1	984.3	1082.4	1184.3	1294.1	1352.9	1454.9	1529.4	1517.6
698.0	55°	741.2	858.8	960.8	1062.7	1188.2	1247.1	1337.3	1435.3	1415.7
592.2	57.5°	647.1	745.1	851.0	949.0	1082.4	1160.8	1243.1	1345.1	1341.2
486.3	60°	541.2	639.2	756.9	839.2	980.4	1090.2	1164.7	1270.6	1278.4
368.6	62.5°	431.4	552.9	643.1	756.9	886.3	1015.7	1086.3	1192.2	1231.4
282.4	65°	321.6	454.9	556.9	670.6	792.2	937.3	1000.0	1105.9	1145.1
203.9	67.5°	239.2	341.2	470.6	568.6	705.9	831.4	905.9	1003.9	1031.4
121.6	70°	180.4	262.7	392.2	478.4	619.6	721.6	796.1	870.6	905.9
82.4	72.5°	105.9	196.1	309.8	411.8	533.3	619.6	674.5	733.3	756.9
39.2	75°	74.5	149.0	243.1	341.2	431.4	502.0	552.9	603.9	627.5
19.6	77.5°	39.2	109.8	192.2	274.5	337.3	396.1	447.1	486.3	502.0
15.7	80°	23.5	78.4	156.9	215.7	258.8	309.8	360.8	388.2	384.3
11.8	82.5°	15.7	62.7	113.7	156.9	188.2	227.5	262.7	282.4	282.4
7.8	85°	11.8	43.1	78.4	121.6	125.5	156.9	164.7	184.3	188.2
7.8	87.5°	7.8	27.5	43.1	70.6	66.7	82.4	86.3	98.0	105.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
47376.4
47572.5
48901.9
49360.8
48647.0
47301.9
45125.5
41333.3
36701.9
31215.7
26239.2
21023.5
16423.5
11784.3
7682.3
5180.4
3678.4
2721.6
2188.2
1854.9
1643.1
1509.8
1415.7
1337.3
1278.4
1227.5
1141.2
1031.4
898.0
749.0
619.6
498.0
380.4
278.4
184.3
102.0
0.0

(END OF REPORT)