

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: P637619

Luminaire Tested: **IFLD-S-SA6C-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637619
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38496.6 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 321.5
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



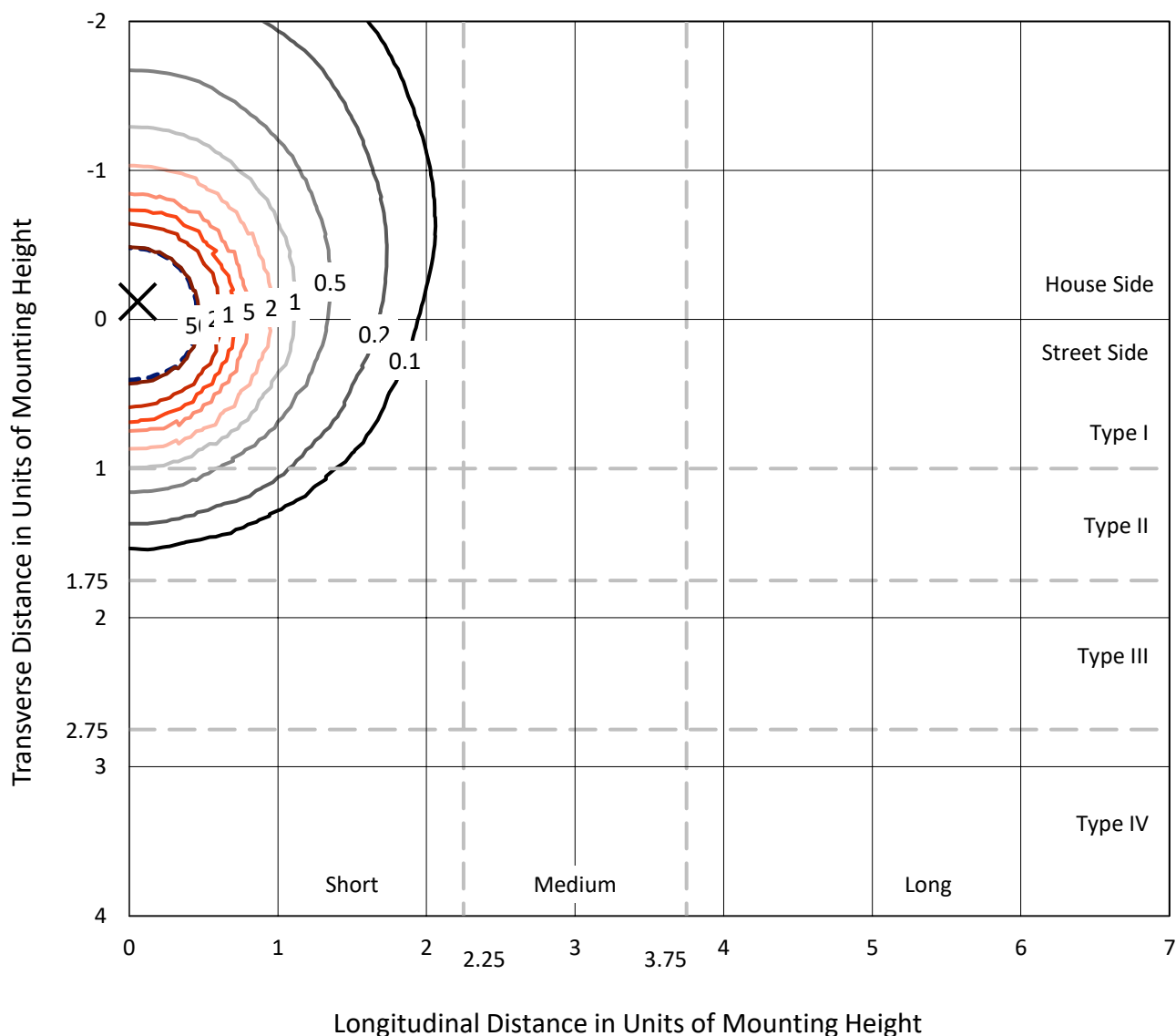
REPORT NUMBER: P637619

CATALOG NUMBER: IFLD-S-SA6C-735-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



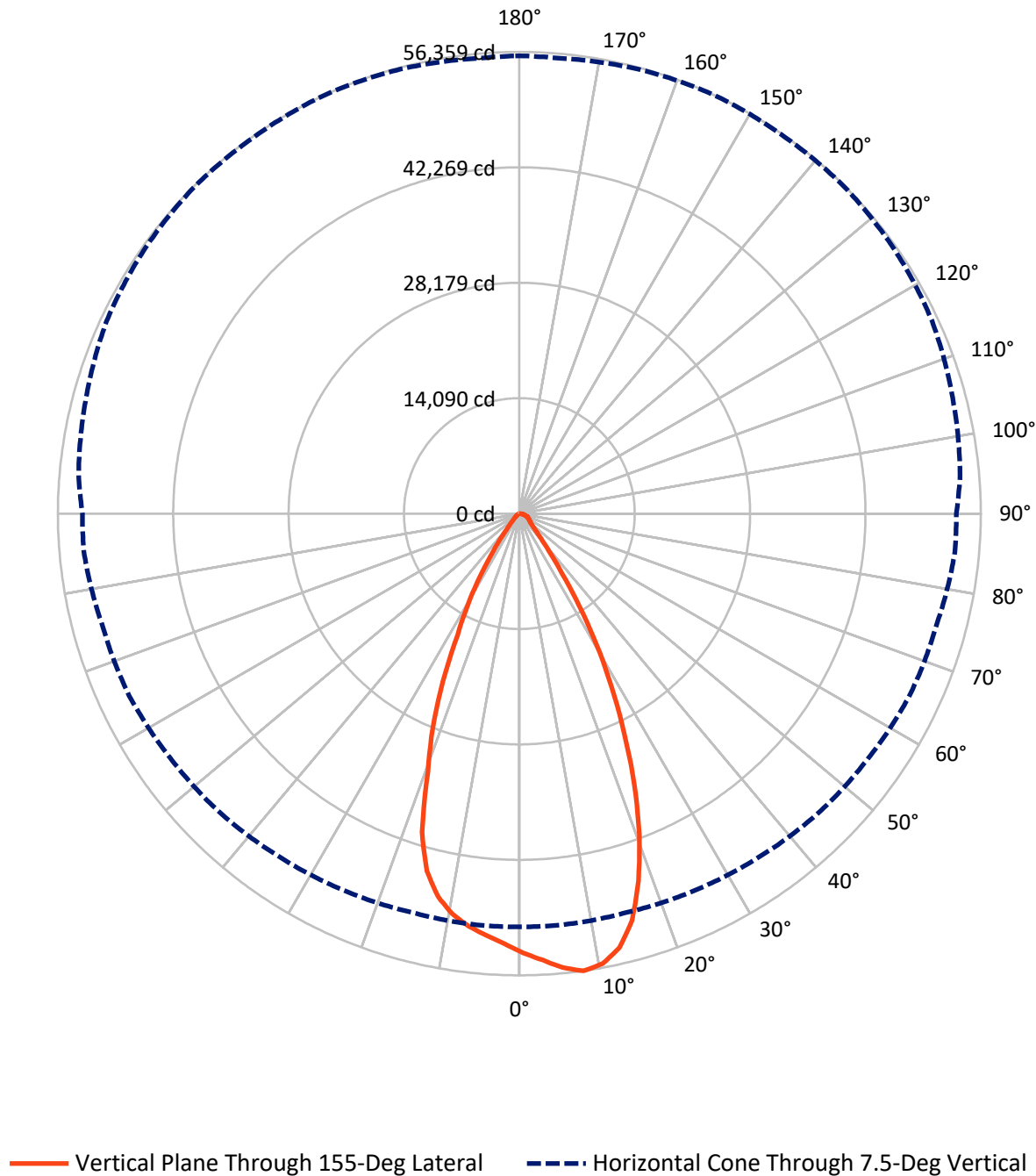
Based on 20 foot mounting height. Maximum calculated value = 136.3 fc

Type I - Short - N/A

REPORT NUMBER: P637619

CATALOG NUMBER: IFLD-S-SA6C-735-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637619

CATALOG NUMBER: IFLD-S-SA6C-735-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21251.5	0.0	21251.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	17245.1	0.0	17245.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	38496.6	0.0	38496.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5113.9	13.3
10°-20°	13260.2	34.4
20°-30°	12150.1	31.6
30°-40°	4908.6	12.8
40°-50°	1440.0	3.7
50°-60°	805.1	2.1
60°-70°	489.0	1.3
70°-80°	248.5	0.6
80°-90°	81.3	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°	38496.6	100.0
0°-180°	38496.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637619

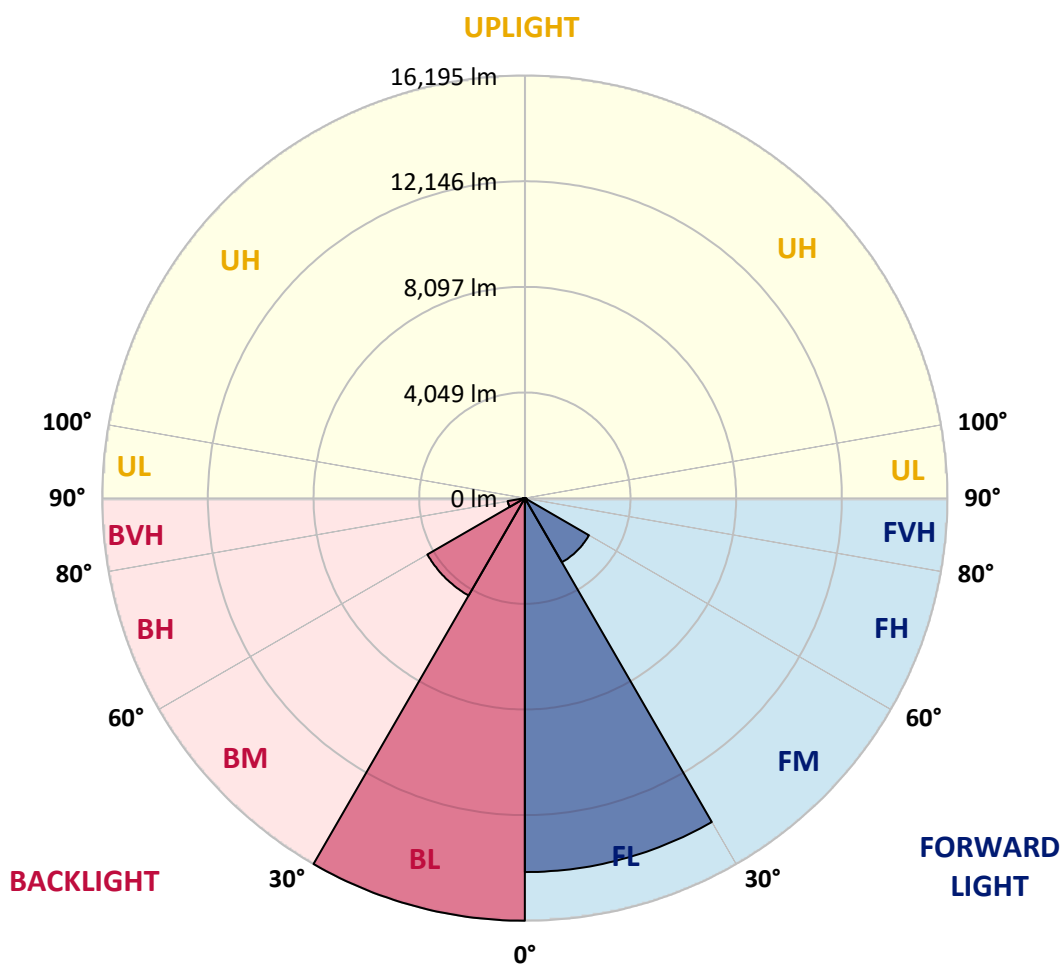
CATALOG NUMBER: IFLD-S-SA6C-735-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14329.4	37.2			
FM	(30°-60°)	2839.8	7.4			
FH	(60°-80°)	68.8	0.2			G0/660
FVH	(80°-90°)	7.0	0.0			G0/10
BL	(0°-30°)	16194.8	42.1	B5		
BM	(30°-60°)	4313.9	11.2	B3/5000		
BH	(60°-80°)	668.7	1.7	B2/1000		G2/1000
BVH	(80°-90°)	74.2	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: P637619

CATALOG NUMBER: IFLD-S-SA6C-735-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	53628.8	53628.8	53628.8	53628.8	53628.8	53628.8	53628.8	53628.8	53628.8	53628.8
2.5°	52465.7	52643.3	52288.2	52523.4	52705.4	53140.5	53176.0	53326.9	53380.2	53775.3
5°	51471.4	51609.0	51320.4	51635.6	51893.1	52279.3	52576.7	52994.0	53224.8	53690.9
7.5°	50437.1	50468.1	50410.4	50743.4	51129.6	51662.3	52030.7	52576.7	52718.8	53384.6
10°	49185.2	48958.8	49069.8	49558.1	50135.2	50952.0	51205.0	51751.0	52004.1	52683.2
12.5°	47187.6	47303.1	47165.4	47786.9	48266.3	49194.1	49460.5	50010.9	50494.8	51094.0
15°	44373.2	44306.7	44586.3	45070.2	45589.6	46326.5	46757.0	47356.3	47724.8	48346.2
17.5°	38047.5	38273.9	39428.1	40640.0	41705.3	42566.5	43081.5	43578.7	43845.0	44519.7
20°	32858.2	32574.1	32729.5	33413.1	36445.0	37763.4	38305.0	38424.9	38535.8	39068.5
22.5°	27056.3	26963.1	27482.5	28250.4	28969.6	32010.4	32747.2	32467.6	32698.4	33200.0
25°	20091.4	20561.9	21023.6	22497.4	23429.6	24921.1	26319.4	26443.7	26528.1	26843.2
27.5°	16353.6	16189.4	16180.5	16593.4	17969.5	19212.4	20402.1	20677.3	20628.5	20930.4
30°	12855.6	12802.4	12615.9	12713.6	12576.0	13681.3	14240.6	15372.6	15310.5	15319.3
32.5°	9273.3	9073.5	8998.1	9144.5	9002.5	8900.4	9388.7	10667.2	10645.0	10733.7
35°	5611.0	5584.4	5646.5	5775.3	5491.2	5482.3	5584.4	6787.4	6933.9	7075.9
37.5°	3098.5	3071.9	3120.7	3595.7	3502.5	3418.1	3444.7	4079.5	4501.2	4607.8
40°	2042.0	2037.5	2073.1	2157.4	2317.2	2286.1	2299.5	2583.6	2983.1	3076.3
42.5°	1367.2	1371.7	1393.9	1491.5	1513.7	1673.5	1646.9	1713.5	2086.4	2166.3
45°	1092.0	1087.6	1100.9	1056.5	1083.1	1247.4	1265.1	1269.6	1589.2	1638.0
47.5°	861.2	861.2	874.5	816.8	803.5	905.6	998.8	1012.1	1269.6	1336.2
50°	603.7	603.7	670.3	643.7	674.7	705.8	807.9	821.2	1038.7	1109.8
52.5°	443.9	452.8	461.7	466.1	568.2	563.8	652.5	714.7	785.7	910.0
55°	337.4	346.2	324.1	346.2	421.7	470.5	488.3	577.1	625.9	763.5
57.5°	222.0	244.2	226.4	266.3	284.1	364.0	390.6	475.0	506.1	625.9
60°	31.1	35.5	57.7	186.4	199.8	239.7	301.9	377.3	408.4	510.5
62.5°	4.4	4.4	13.3	31.1	133.2	159.8	226.4	261.9	301.9	381.8
65°	0.0	0.0	4.4	8.9	26.6	93.2	115.4	142.1	208.6	275.2
67.5°	0.0	0.0	4.4	8.9	13.3	31.1	48.8	93.2	119.9	190.9
70°	0.0	0.0	4.4	8.9	13.3	17.8	26.6	35.5	71.0	111.0
72.5°	0.0	0.0	4.4	8.9	13.3	17.8	22.2	26.6	31.1	71.0
75°	0.0	0.0	4.4	8.9	13.3	22.2	26.6	26.6	26.6	31.1
77.5°	0.0	0.0	4.4	8.9	17.8	26.6	31.1	26.6	22.2	22.2
80°	0.0	0.0	4.4	13.3	22.2	31.1	35.5	26.6	17.8	13.3
82.5°	0.0	0.0	4.4	13.3	22.2	31.1	35.5	31.1	17.8	13.3
85°	0.0	0.0	4.4	13.3	17.8	22.2	35.5	31.1	17.8	8.9
87.5°	0.0	0.0	0.0	4.4	4.4	8.9	17.8	13.3	8.9	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637619

CATALOG NUMBER: IFLD-S-SA6C-735-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
53628.8	0°	53628.8	53628.8	53628.8	53628.8	53628.8	53628.8	53628.8	53628.8	53628.8
53766.4	2.5°	54165.9	54365.7	54716.4	54814.0	55115.9	54769.6	54578.7	54596.5	54183.7
53633.2	5°	54165.9	54623.1	55235.7	55528.7	55750.7	55732.9	55684.1	55559.8	55257.9
53366.9	7.5°	54023.9	54769.6	55613.1	56003.7	56270.0	56247.8	56358.8	56159.1	55790.6
52891.9	10°	53566.6	54214.7	55253.5	55573.1	56003.7	56012.6	55875.0	55914.9	55257.9
51156.2	12.5°	52128.4	52634.4	53544.4	53908.4	54432.3	54516.6	54365.7	54308.0	53686.5
48310.7	15°	49345.0	49638.0	50552.5	50916.5	51435.9	51364.8	51515.8	51453.6	50907.6
44466.5	17.5°	45274.4	45367.6	46326.5	46632.8	47121.1	47311.9	47085.5	47374.1	46903.5
39161.7	20°	39437.0	39938.6	41017.3	41487.8	41771.9	42113.7	41816.3	42140.4	41589.9
32725.0	22.5°	33515.2	33812.6	34789.2	35468.4	35996.7	36063.3	35952.3	36178.7	35437.3
27051.9	25°	27047.4	27540.2	28312.6	29200.4	29719.8	30039.4	29750.9	29897.3	29777.5
20979.2	27.5°	21334.3	21773.8	22355.3	23016.7	23798.0	24215.3	23984.5	24233.0	23647.1
15643.4	30°	15656.7	15878.7	16535.6	17237.0	18093.8	18599.8	18622.0	18875.1	18528.8
10960.1	32.5°	11040.0	11235.4	11639.3	12105.4	12922.2	13486.0	13397.2	13432.7	13219.6
7142.5	35°	7178.0	7439.9	7728.5	7950.4	8443.2	9064.6	9015.8	8971.4	8824.9
4696.6	37.5°	4798.7	4900.8	5060.6	5260.3	5579.9	5970.6	6099.3	5939.5	5877.4
3169.5	40°	3245.0	3422.5	3529.1	3680.0	3830.9	4159.4	4248.2	4217.1	4155.0
2219.6	42.5°	2303.9	2441.5	2574.7	2721.2	2801.1	3005.3	3178.4	3129.6	3102.9
1686.9	45°	1749.0	1873.3	2028.7	2139.6	2219.6	2339.4	2503.7	2521.4	2481.5
1353.9	47.5°	1402.8	1513.7	1638.0	1775.6	1868.9	1944.3	2086.4	2139.6	2113.0
1140.8	50°	1189.7	1274.0	1393.9	1531.5	1633.6	1700.2	1824.5	1882.2	1864.4
954.4	52.5°	1012.1	1114.2	1225.2	1340.6	1464.9	1531.5	1646.9	1731.2	1717.9
790.2	55°	839.0	972.2	1087.6	1203.0	1345.0	1411.6	1513.7	1624.7	1602.5
670.3	57.5°	732.5	843.4	963.3	1074.3	1225.2	1314.0	1407.2	1522.6	1518.2
550.4	60°	612.6	723.6	856.7	950.0	1109.8	1234.1	1318.4	1438.3	1447.1
417.3	62.5°	488.3	625.9	728.0	856.7	1003.2	1149.7	1229.6	1349.5	1393.9
319.6	65°	364.0	514.9	630.4	759.1	896.7	1060.9	1132.0	1251.8	1296.2
230.8	67.5°	270.8	386.2	532.7	643.7	799.0	941.1	1025.4	1136.4	1167.5
137.6	70°	204.2	297.4	443.9	541.6	701.4	816.8	901.1	985.5	1025.4
93.2	72.5°	119.9	222.0	350.7	466.1	603.7	701.4	763.5	830.1	856.7
44.4	75°	84.3	168.7	275.2	386.2	488.3	568.2	625.9	683.6	710.3
22.2	77.5°	44.4	124.3	217.5	310.7	381.8	448.3	506.1	550.4	568.2
17.8	80°	26.6	88.8	177.6	244.2	293.0	350.7	408.4	439.5	435.0
13.3	82.5°	17.8	71.0	128.7	177.6	213.1	257.5	297.4	319.6	319.6
8.9	85°	13.3	48.8	88.8	137.6	142.1	177.6	186.4	208.6	213.1
8.9	87.5°	8.9	31.1	48.8	79.9	75.5	93.2	97.7	111.0	119.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
53628.8
53850.7
55355.6
55875.0
55067.0
53544.4
51080.7
46788.1
41545.5
35335.2
29702.0
23798.0
18591.0
13339.5
8696.2
5864.1
4163.9
3080.7
2477.0
2099.7
1860.0
1709.1
1602.5
1513.7
1447.1
1389.4
1291.8
1167.5
1016.6
847.9
701.4
563.8
430.6
315.2
208.6
115.4
0.0

(END OF REPORT)