

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: P637779

Luminaire Tested: **IFLD-L-SA8C-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637779
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37815.6 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

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



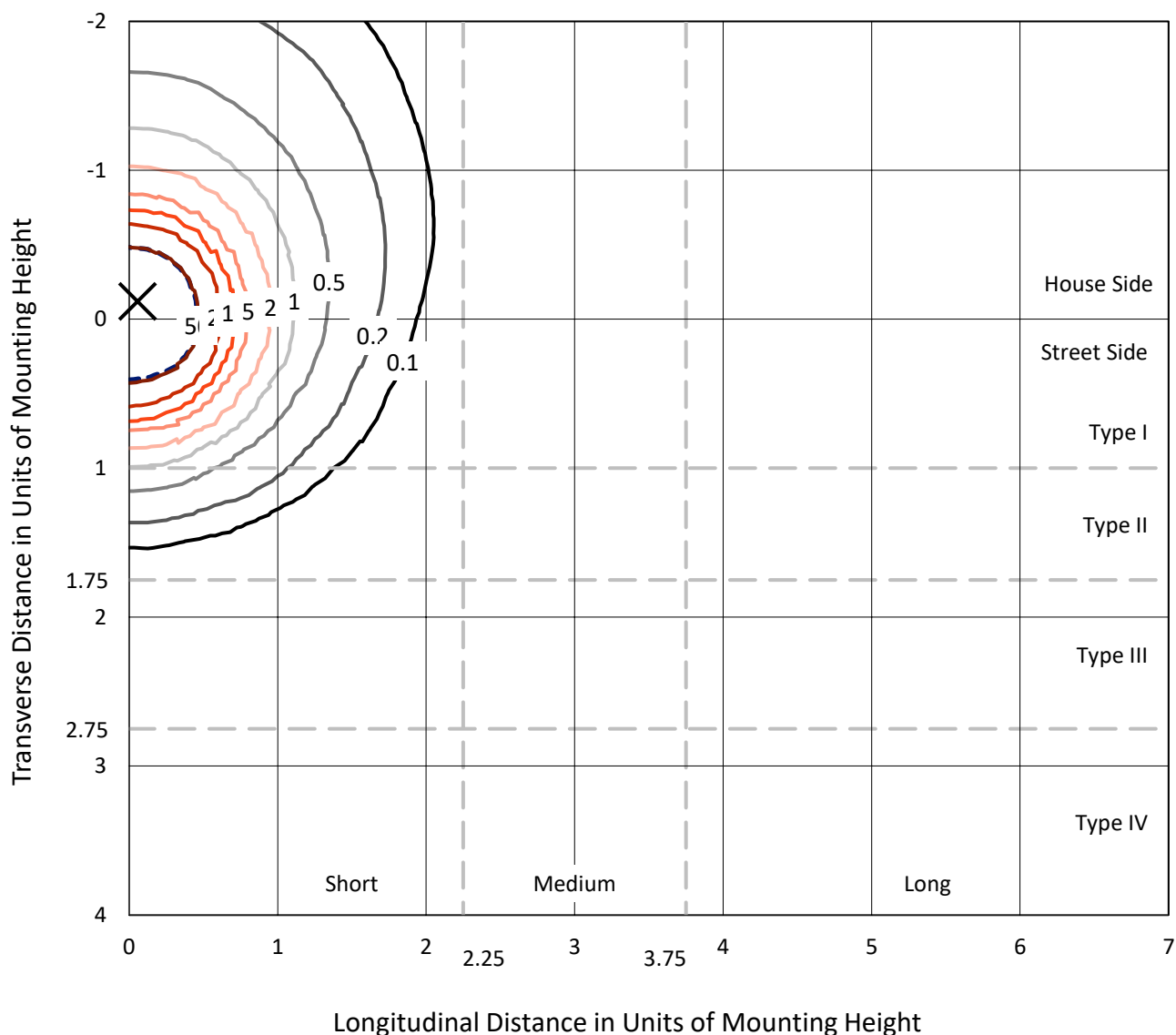
REPORT NUMBER: P637779

CATALOG NUMBER: IFLD-L-SA8C-830-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



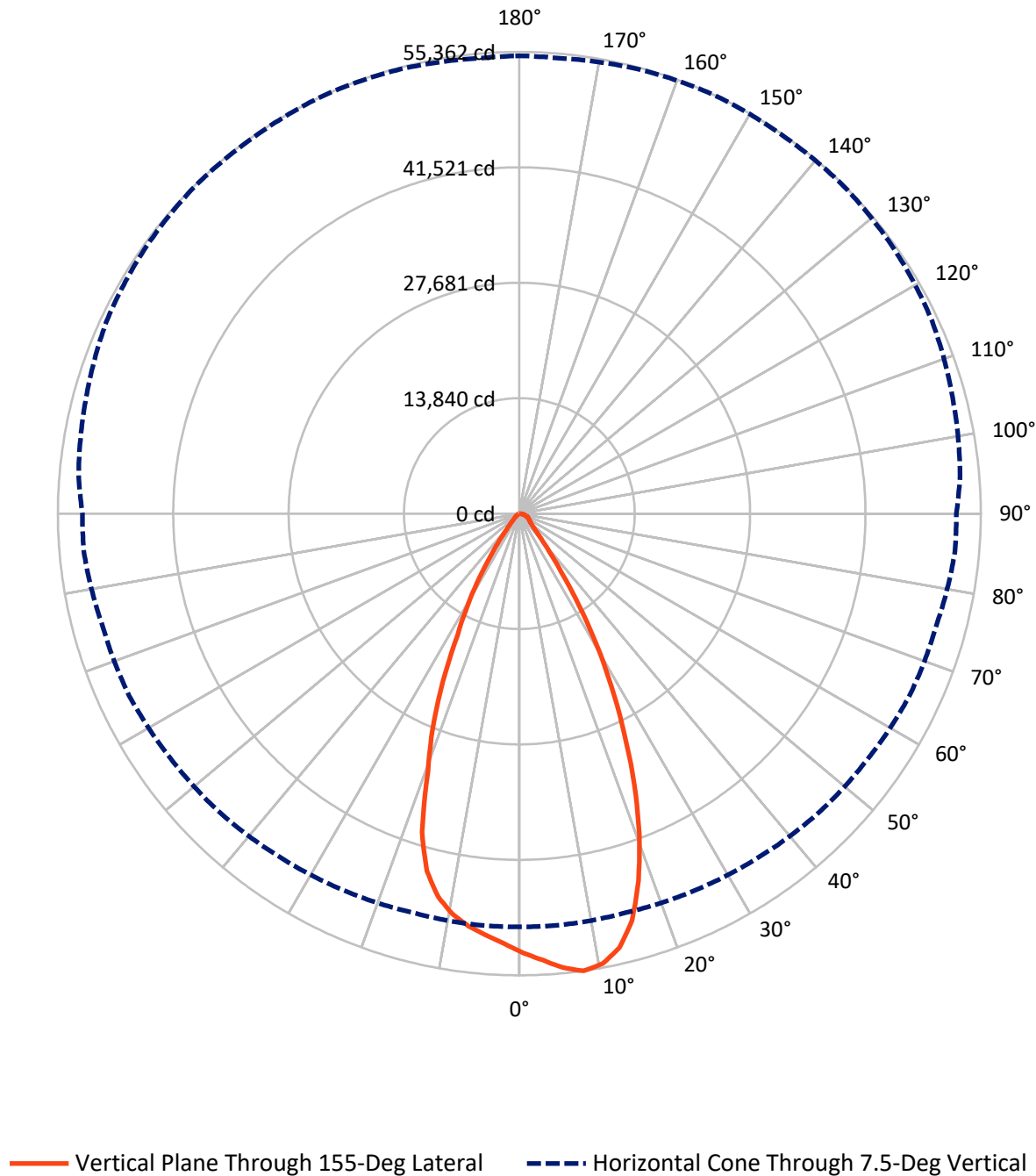
Based on 20 foot mounting height. Maximum calculated value = 133.9 fc

Type I - Short - N/A

REPORT NUMBER: P637779

CATALOG NUMBER: IFLD-L-SA8C-830-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637779

CATALOG NUMBER: IFLD-L-SA8C-830-U-55-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20875.6	0.0	20875.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	16940.0	0.0	16940.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	37815.6	0.0	37815.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5023.4	13.3
10°-20°	13025.7	34.4
20°-30°	11935.1	31.6
30°-40°	4821.8	12.8
40°-50°	1414.5	3.7
50°-60°	790.9	2.1
60°-70°	480.4	1.3
70°-80°	244.1	0.6
80°-90°	79.8	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°	37815.6	100.0
0°-180°	37815.6	100.0

Coefficient of Utilization



REPORT NUMBER: P637779

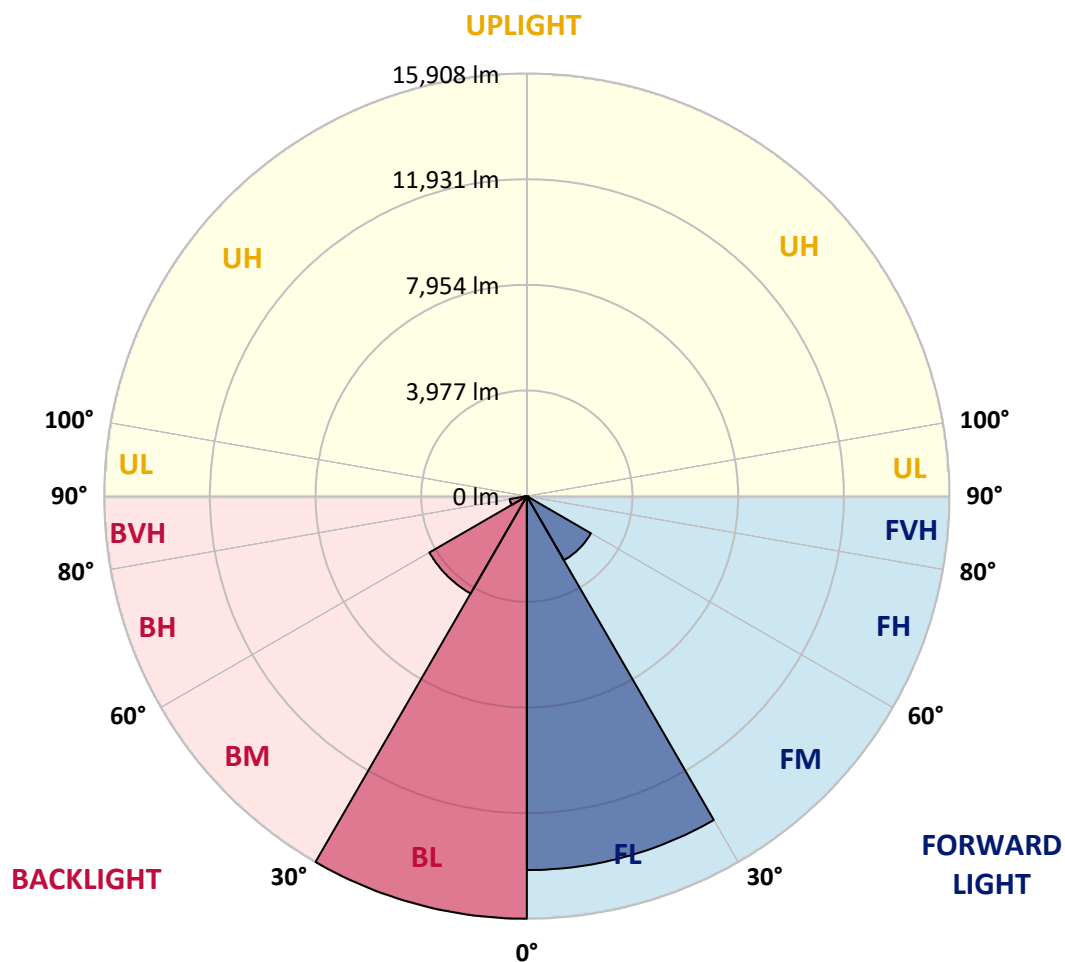
CATALOG NUMBER: IFLD-L-SA8C-830-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	14075.9	37.2			
FM	(30°-60°)	2789.6	7.4			
FH	(60°-80°)	67.6	0.2			G0/660
FVH	(80°-90°)	6.9	0.0			G0/10
BL	(0°-30°)	15908.3	42.1	B5		
BM	(30°-60°)	4237.6	11.2	B3/5000		
BH	(60°-80°)	656.9	1.7	B2/1000		G2/1000
BVH	(80°-90°)	72.9	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: P637779

CATALOG NUMBER: IFLD-L-SA8C-830-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	52680.1	52680.1	52680.1	52680.1	52680.1	52680.1	52680.1	52680.1	52680.1	52680.1
2.5°	51537.6	51712.1	51363.2	51594.3	51773.1	52200.4	52235.3	52383.6	52435.9	52824.0
5°	50560.9	50696.0	50412.6	50722.2	50975.1	51354.5	51646.6	52056.5	52283.3	52741.2
7.5°	49544.8	49575.4	49518.7	49845.7	50225.1	50748.4	51110.3	51646.6	51786.2	52440.3
10°	48315.2	48092.8	48201.8	48681.5	49248.3	50050.7	50299.2	50835.6	51084.1	51751.3
12.5°	46352.9	46466.3	46331.1	46941.6	47412.5	48323.9	48585.5	49126.2	49601.5	50190.2
15°	43588.3	43522.9	43797.6	44272.9	44783.1	45507.0	45929.9	46518.6	46880.5	47491.0
17.5°	37374.5	37596.9	38730.6	39921.1	40967.6	41813.6	42319.4	42807.8	43069.4	43732.2
20°	32277.0	31997.9	32150.5	32822.0	35800.3	37095.4	37627.4	37745.1	37854.1	38377.4
22.5°	26577.7	26486.1	26996.3	27750.7	28457.1	31444.1	32168.0	31893.2	32120.0	32612.7
25°	19736.0	20198.2	20651.7	22099.4	23015.1	24480.3	25853.8	25975.9	26058.8	26368.4
27.5°	16064.4	15903.0	15894.3	16299.8	17651.6	18872.6	20041.2	20311.6	20263.6	20560.1
30°	12628.2	12575.9	12392.8	12488.7	12353.5	13439.3	13988.7	15100.7	15039.6	15048.3
32.5°	9109.2	8913.0	8838.9	8982.8	8843.2	8743.0	9222.6	10478.5	10456.7	10543.9
35°	5511.8	5485.6	5546.7	5673.1	5394.0	5385.3	5485.6	6667.3	6811.2	6950.8
37.5°	3043.7	3017.5	3065.5	3532.1	3440.5	3357.6	3383.8	4007.4	4421.6	4526.3
40°	2005.9	2001.5	2036.4	2119.2	2276.2	2245.7	2258.8	2537.9	2930.3	3021.9
42.5°	1343.1	1347.4	1369.2	1465.2	1487.0	1643.9	1617.8	1683.2	2049.5	2128.0
45°	1072.7	1068.3	1081.4	1037.8	1064.0	1225.3	1242.8	1247.1	1561.1	1609.1
47.5°	846.0	846.0	859.0	802.3	789.3	889.6	981.1	994.2	1247.1	1312.5
50°	593.0	593.0	658.4	632.3	662.8	693.3	793.6	806.7	1020.4	1090.1
52.5°	436.1	444.8	453.5	457.9	558.2	553.8	641.0	702.1	771.8	893.9
55°	331.4	340.1	318.3	340.1	414.3	462.2	479.7	566.9	614.8	750.0
57.5°	218.0	239.8	222.4	261.6	279.1	357.6	383.7	466.6	497.1	614.8
60°	30.5	34.9	56.7	183.1	196.2	235.5	296.5	370.6	401.2	501.5
62.5°	4.4	4.4	13.1	30.5	130.8	157.0	222.4	257.3	296.5	375.0
65°	0.0	0.0	4.4	8.7	26.2	91.6	113.4	139.5	204.9	270.4
67.5°	0.0	0.0	4.4	8.7	13.1	30.5	48.0	91.6	117.7	187.5
70°	0.0	0.0	4.4	8.7	13.1	17.4	26.2	34.9	69.8	109.0
72.5°	0.0	0.0	4.4	8.7	13.1	17.4	21.8	26.2	30.5	69.8
75°	0.0	0.0	4.4	8.7	13.1	21.8	26.2	26.2	26.2	30.5
77.5°	0.0	0.0	4.4	8.7	17.4	26.2	30.5	26.2	21.8	21.8
80°	0.0	0.0	4.4	13.1	21.8	30.5	34.9	26.2	17.4	13.1
82.5°	0.0	0.0	4.4	13.1	21.8	30.5	34.9	30.5	17.4	13.1
85°	0.0	0.0	4.4	13.1	17.4	21.8	34.9	30.5	17.4	8.7
87.5°	0.0	0.0	0.0	4.4	4.4	8.7	17.4	13.1	8.7	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: P637779

CATALOG NUMBER: IFLD-L-SA8C-830-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
52680.1	0°	52680.1	52680.1	52680.1	52680.1	52680.1	52680.1	52680.1	52680.1	52680.1
52815.3	2.5°	53207.7	53404.0	53748.4	53844.4	54140.9	53800.8	53613.3	53630.7	53225.2
52684.5	5°	53207.7	53656.9	54258.6	54546.4	54764.5	54747.0	54699.0	54577.0	54280.4
52422.8	7.5°	53068.2	53800.8	54629.3	55013.0	55274.6	55252.8	55361.9	55165.6	54803.7
51956.2	10°	52619.1	53255.7	54276.1	54590.0	55013.0	55021.7	54886.6	54925.8	54280.4
50251.3	12.5°	51206.2	51703.3	52597.3	52954.8	53469.4	53552.2	53404.0	53347.3	52736.8
47456.1	15°	48472.1	48759.9	49658.2	50015.8	50526.0	50456.2	50604.5	50543.4	50007.1
43679.9	17.5°	44473.5	44565.1	45507.0	45807.8	46287.5	46475.0	46252.6	46536.1	46073.8
38469.0	20°	38739.3	39232.1	40291.7	40753.9	41033.0	41368.8	41076.6	41394.9	40854.2
32146.2	22.5°	32922.3	33214.5	34173.8	34841.0	35359.9	35425.3	35316.3	35538.7	34810.5
26573.3	25°	26569.0	27053.0	27811.7	28683.9	29194.0	29508.0	29224.6	29368.5	29250.7
20608.1	27.5°	20956.9	21388.6	21959.9	22609.6	23377.0	23786.9	23560.2	23804.4	23228.8
15366.7	30°	15379.7	15597.8	16243.1	16932.1	17773.7	18270.8	18292.6	18541.2	18201.0
10766.3	32.5°	10844.7	11036.6	11433.4	11891.3	12693.6	13247.4	13160.2	13195.1	12985.8
7016.2	35°	7051.0	7308.3	7591.8	7809.8	8293.8	8904.3	8856.3	8812.7	8668.8
4613.5	37.5°	4713.8	4814.1	4971.1	5167.3	5481.2	5865.0	5991.4	5834.4	5773.4
3113.5	40°	3187.6	3362.0	3466.7	3614.9	3763.2	4085.9	4173.1	4142.5	4081.5
2180.3	42.5°	2263.1	2398.3	2529.1	2673.0	2751.5	2952.1	3122.2	3074.2	3048.0
1657.0	45°	1718.1	1840.2	1992.8	2101.8	2180.3	2298.0	2459.4	2476.8	2437.6
1330.0	47.5°	1377.9	1487.0	1609.1	1744.2	1835.8	1909.9	2049.5	2101.8	2075.6
1120.7	50°	1168.6	1251.5	1369.2	1504.4	1604.7	1670.1	1792.2	1848.9	1831.4
937.5	52.5°	994.2	1094.5	1203.5	1316.9	1439.0	1504.4	1617.8	1700.6	1687.5
776.2	55°	824.1	955.0	1068.3	1181.7	1321.3	1386.7	1487.0	1596.0	1574.2
658.4	57.5°	719.5	828.5	946.2	1055.3	1203.5	1290.7	1382.3	1495.7	1491.3
540.7	60°	601.8	710.8	841.6	933.2	1090.1	1212.2	1295.1	1412.8	1421.5
409.9	62.5°	479.7	614.8	715.1	841.6	985.5	1129.4	1207.9	1325.6	1369.2
314.0	65°	357.6	505.8	619.2	745.7	880.8	1042.2	1111.9	1229.7	1273.3
226.7	67.5°	266.0	379.4	523.3	632.3	784.9	924.4	1007.3	1116.3	1146.8
135.2	70°	200.6	292.2	436.1	532.0	689.0	802.3	885.2	968.0	1007.3
91.6	72.5°	117.7	218.0	344.5	457.9	593.0	689.0	750.0	815.4	841.6
43.6	75°	82.9	165.7	270.4	379.4	479.7	558.2	614.8	671.5	697.7
21.8	77.5°	43.6	122.1	213.7	305.2	375.0	440.4	497.1	540.7	558.2
17.4	80°	26.2	87.2	174.4	239.8	287.8	344.5	401.2	431.7	427.3
13.1	82.5°	17.4	69.8	126.5	174.4	209.3	252.9	292.2	314.0	314.0
8.7	85°	13.1	48.0	87.2	135.2	139.5	174.4	183.1	204.9	209.3
8.7	87.5°	8.7	30.5	48.0	78.5	74.1	91.6	95.9	109.0	117.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
52680.1
52898.1
54376.4
54886.6
54092.9
52597.3
50177.1
45960.5
40810.6
34710.2
29176.6
23377.0
18262.1
13103.5
8542.4
5760.3
4090.2
3026.2
2433.2
2062.6
1827.1
1678.8
1574.2
1487.0
1421.5
1364.9
1268.9
1146.8
998.6
832.9
689.0
553.8
423.0
309.6
204.9
113.4
0.0

(END OF REPORT)