

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: P638041

Luminaire Tested: **IFLD-L-SA8D-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638041
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37351.9 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

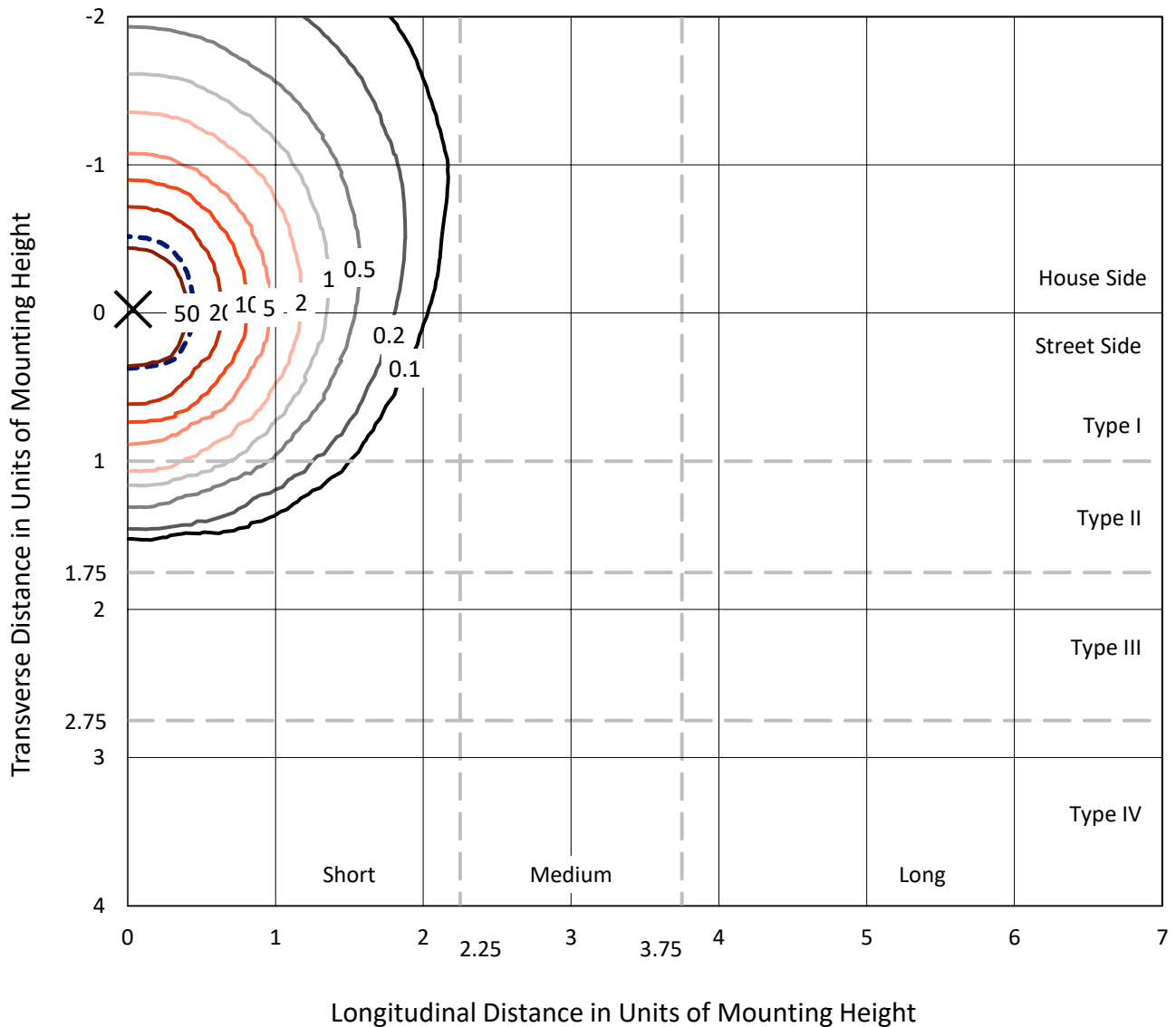
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

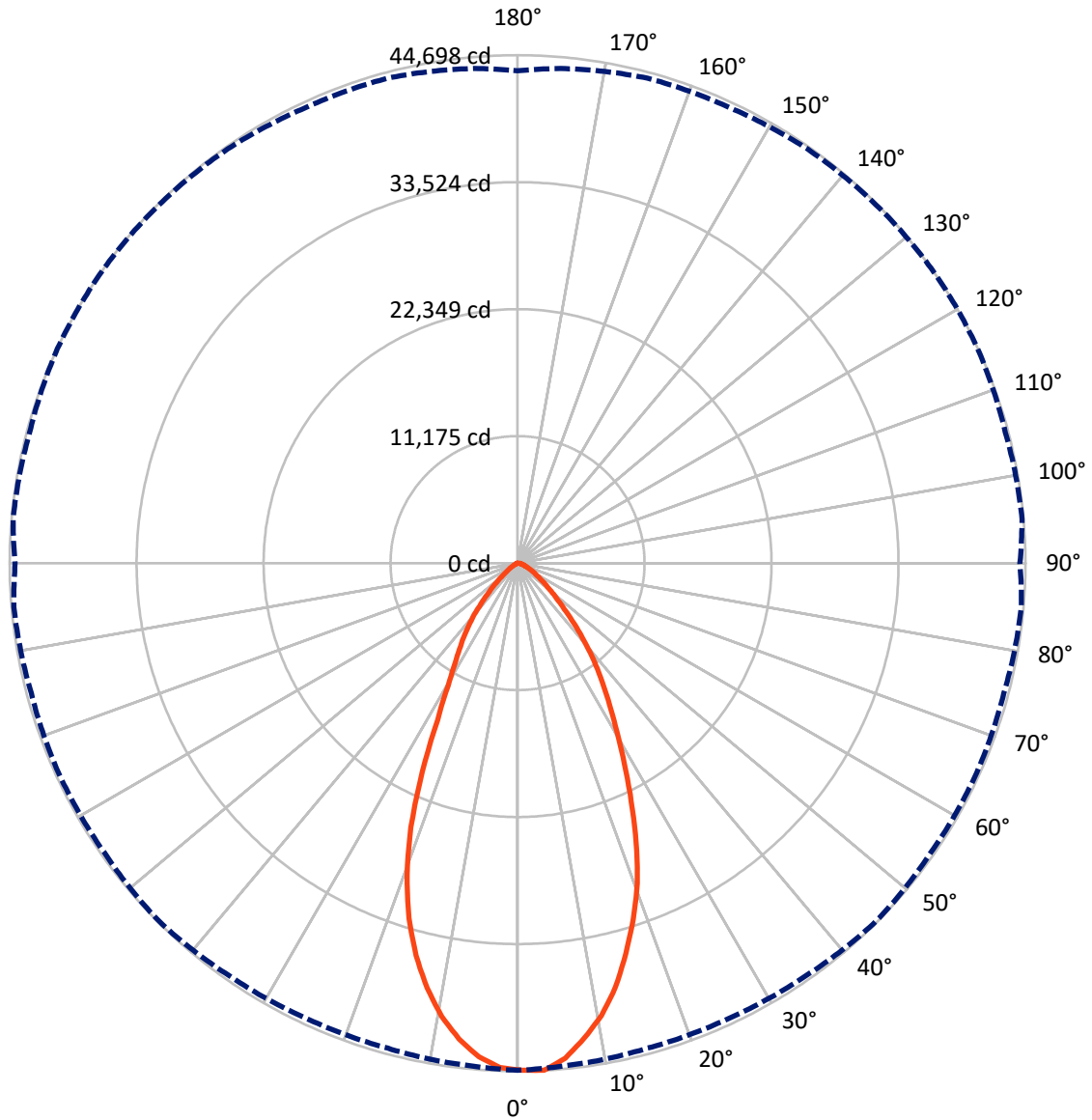
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 111.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21194.9	0.0	21194.9
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	16156.9	0.0	16156.9
	% Fixture	43.3	0.0	43.3
Total	Lumens	37351.9	0.0	37351.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4052.2	10.8
10°-20°	9659.6	25.9
20°-30°	9838.2	26.3
30°-40°	7336.3	19.6
40°-50°	3832.7	10.3
50°-60°	1612.0	4.3
60°-70°	658.4	1.8
70°-80°	277.1	0.7
80°-90°	85.4	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°	37351.9	100.0
0°-180°	37351.9	100.0



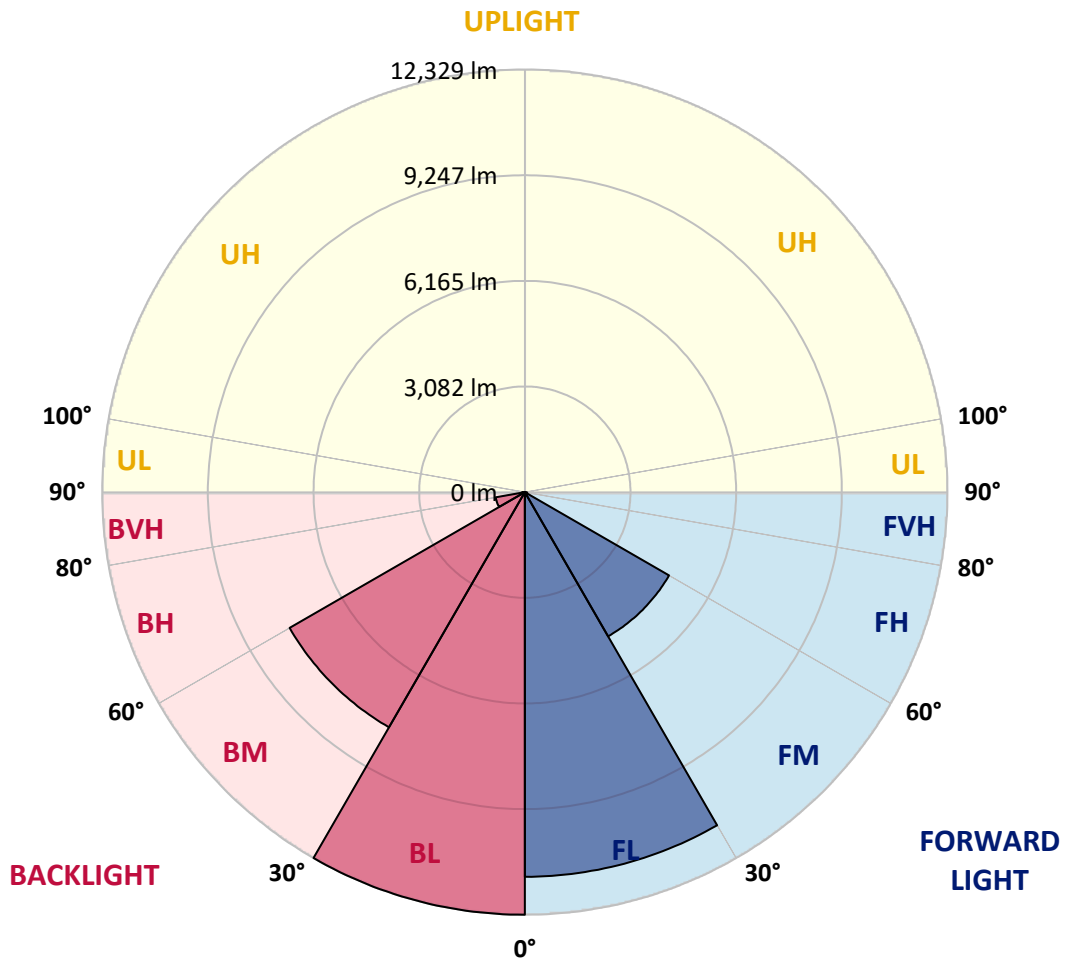
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11221.0	30.0			
FM (30°-60°)	4857.8	13.0			
FH (60°-80°)	70.3	0.2			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	12329.1	33.0	B5		
BM (30°-60°)	7923.2	21.2	B4/8500		
BH (60°-80°)	865.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	77.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	44626.4	44626.4	44626.4	44626.4	44626.4	44626.4	44626.4	44626.4	44626.4	44626.4
2.5°	44631.2	44448.9	44189.8	44165.8	44300.1	44592.8	44405.7	44415.3	44300.1	44496.9
5°	43930.7	43758.0	43580.4	43345.3	43542.1	43666.8	43570.8	43465.3	43316.6	43508.5
7.5°	42606.4	42510.5	42246.6	42141.0	42261.0	42400.1	42193.8	42165.0	41958.7	42208.2
10°	40581.7	40543.3	40284.2	40221.8	40327.4	40538.5	40447.3	40428.1	40298.6	40274.6
12.5°	38480.1	38331.4	38009.9	37990.7	38149.1	38465.7	38221.0	37985.9	38057.9	38120.3
15°	33068.0	32909.6	33706.1	34958.4	35615.7	35591.7	35663.7	35380.6	35294.3	35323.0
17.5°	26288.4	26019.7	26307.6	28246.0	31369.5	33183.1	32684.1	32074.8	31748.5	31532.6
20°	22689.8	22704.2	22651.5	23150.5	25098.5	29234.4	29114.4	27938.9	27511.9	27334.3
22.5°	20502.0	20420.4	20305.2	20463.6	20986.6	23414.4	25040.9	23961.3	23812.6	23615.9
25°	18357.2	18357.2	18218.1	18376.4	18525.2	18558.8	20190.1	20631.5	20343.6	20343.6
27.5°	16500.4	16404.4	16342.1	16414.0	16217.3	15272.1	15478.4	17738.3	17541.6	17421.6
30°	14658.0	14629.2	14523.6	14619.6	13890.3	12825.1	12393.3	14969.8	15176.1	15133.0
32.5°	12100.6	12215.8	12686.0	12834.7	11587.2	10728.4	10315.7	12426.9	13252.1	13218.6
35°	8223.8	8319.8	8857.2	10632.4	9605.6	8991.5	8871.5	9883.9	11241.8	11371.3
37.5°	6549.3	6534.9	6688.4	7005.1	7720.0	7571.3	7537.7	7801.6	9169.0	9226.6
40°	5397.8	5378.6	5373.8	5114.7	4937.2	6295.0	6203.8	6045.5	7230.6	7345.8
42.5°	4351.8	4371.0	4385.4	3819.2	3560.1	4855.6	4802.8	4639.7	5671.3	5805.6
45°	3416.2	3411.4	3440.2	2845.2	2773.3	3104.3	3588.9	3459.4	4279.8	4423.8
47.5°	1770.5	1832.8	2221.5	2202.3	2235.9	2202.3	2715.7	2682.1	3219.5	3449.8
50°	1189.9	1209.1	1242.7	1247.5	1760.9	1621.7	1842.4	2087.1	2255.1	2610.1
52.5°	921.2	935.6	849.3	796.5	1079.6	1199.5	1209.1	1444.2	1573.8	1933.6
55°	513.4	575.8	618.9	623.7	595.0	887.6	882.8	1070.0	1170.7	1410.6
57.5°	67.2	81.6	124.7	403.0	398.2	494.2	618.9	777.3	834.9	1031.6
60°	4.8	9.6	14.4	62.4	263.9	287.9	422.2	484.6	580.6	724.5
62.5°	0.0	0.0	4.8	14.4	52.8	167.9	220.7	254.3	340.7	475.0
65°	0.0	0.0	4.8	9.6	19.2	62.4	86.4	139.1	201.5	292.7
67.5°	0.0	0.0	4.8	9.6	14.4	24.0	38.4	62.4	105.6	177.5
70°	0.0	0.0	4.8	9.6	14.4	19.2	28.8	38.4	57.6	96.0
72.5°	0.0	0.0	4.8	4.8	9.6	24.0	24.0	28.8	38.4	52.8
75°	0.0	0.0	4.8	9.6	14.4	24.0	24.0	24.0	28.8	33.6
77.5°	0.0	0.0	4.8	9.6	14.4	24.0	19.2	24.0	24.0	24.0
80°	0.0	0.0	4.8	9.6	14.4	24.0	28.8	24.0	19.2	19.2
82.5°	0.0	0.0	4.8	14.4	14.4	33.6	33.6	33.6	14.4	14.4
85°	0.0	0.0	9.6	14.4	24.0	38.4	38.4	28.8	14.4	9.6
87.5°	0.0	0.0	4.8	9.6	9.6	19.2	28.8	24.0	9.6	4.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
44626.4	0°	44626.4	44626.4	44626.4	44626.4	44626.4	44626.4	44626.4	44626.4	44626.4
44209.0	2.5°	44564.0	44444.1	44669.6	44698.4	44602.4	44482.5	44204.2	44180.2	43695.6
43230.2	5°	43719.6	43522.9	43666.8	43762.8	43729.2	43599.6	43484.5	43378.9	42942.3
41642.0	7.5°	42145.8	42073.9	42141.0	42213.0	42352.1	42213.0	42165.0	42054.7	41622.8
40077.9	10°	40399.4	40265.0	40519.3	40485.7	40447.3	40408.9	40207.4	40226.6	39718.0
37947.6	12.5°	38254.6	38029.1	38273.8	38302.6	38273.8	38139.5	37914.0	38009.9	37544.5
35068.7	15°	35371.0	35347.0	35524.6	35639.7	35721.3	35577.3	35500.6	35548.6	35270.3
31364.7	17.5°	31830.1	32142.0	32722.5	32919.2	32924.0	33072.8	33029.6	32972.0	32765.7
27262.4	20°	27665.4	28265.2	29157.6	30074.0	30337.9	30213.1	30155.6	30261.1	29954.1
23409.6	22.5°	23822.2	24335.6	25371.9	26710.6	27483.1	27559.8	27545.4	27454.3	27334.3
20324.4	25°	20559.5	21015.3	22008.5	23232.0	24714.6	24935.3	24944.9	24916.1	24810.6
17527.2	27.5°	17805.5	18357.2	18904.2	19998.2	21576.7	22488.3	22373.2	22339.6	22301.2
15166.6	30°	15310.5	16006.2	16519.6	17200.9	18616.3	19849.4	19969.4	19911.8	19820.6
13213.8	32.5°	13333.7	13746.3	14398.9	14859.5	15876.7	17272.9	17733.5	17690.3	17608.7
11452.9	35°	11616.0	11779.1	12292.5	12805.9	13482.4	14835.5	15516.8	15420.8	15406.5
9332.2	37.5°	9567.3	10114.2	10397.3	10915.5	11390.5	12441.3	13381.7	13338.5	13343.3
7504.1	40°	7724.8	8041.5	8602.9	9039.5	9476.1	10243.8	11289.7	11318.5	11308.9
5810.4	42.5°	5930.4	6237.4	6827.6	7302.6	7691.2	8166.2	9164.2	9197.8	9241.0
4524.5	45°	4630.1	4826.8	5258.6	5752.8	6165.5	6453.3	7211.4	7427.3	7432.1
3507.4	47.5°	3593.7	3819.2	4126.3	4601.3	5004.3	5210.7	5762.4	6055.1	6040.7
2691.7	50°	2821.2	3027.6	3277.0	3651.3	4087.9	4251.0	4658.9	4946.8	4932.4
2029.6	52.5°	2159.1	2423.0	2643.7	2931.6	3358.6	3497.8	3790.4	4121.5	4073.5
1487.4	55°	1636.1	1904.8	2111.1	2351.0	2739.7	2917.2	3118.7	3382.6	3392.2
1151.5	57.5°	1233.1	1511.4	1698.5	1943.2	2235.9	2432.6	2586.1	2869.2	2864.4
786.9	60°	882.8	1122.7	1348.2	1602.5	1828.0	2053.6	2159.1	2427.8	2437.4
556.6	62.5°	638.1	863.6	1079.6	1300.3	1501.8	1722.5	1818.5	2029.6	2058.4
364.6	65°	446.2	604.6	854.0	1022.0	1247.5	1410.6	1535.4	1717.7	1751.3
215.9	67.5°	287.9	436.6	676.5	825.3	1031.6	1170.7	1300.3	1444.2	1487.4
139.1	70°	172.7	331.1	503.8	662.1	849.3	974.0	1098.7	1223.5	1247.5
67.2	72.5°	110.4	230.3	364.6	537.4	681.3	815.7	926.0	1017.2	945.2
43.2	75°	62.4	158.3	287.9	422.2	551.8	681.3	772.5	820.5	657.3
28.8	77.5°	38.4	115.2	235.1	340.7	427.0	547.0	604.6	633.3	470.2
19.2	80°	24.0	86.4	196.7	278.3	278.3	403.0	470.2	494.2	340.7
14.4	82.5°	19.2	62.4	153.5	211.1	187.1	302.3	369.4	374.2	239.9
9.6	85°	14.4	48.0	96.0	139.1	129.5	211.1	215.9	239.9	158.3
9.6	87.5°	9.6	28.8	57.6	81.6	72.0	100.8	115.2	129.5	86.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
44626.4
43316.6
42592.0
41531.7
39545.3
37410.2
34934.4
32458.6
29733.3
27104.0
24455.5
22075.7
19705.5
17392.8
15248.1
13189.8
11141.0
9097.1
7307.4
5987.9
4932.4
4078.3
3392.2
2854.8
2413.4
2048.8
1741.7
1482.6
1228.3
878.0
623.7
441.4
316.7
220.7
143.9
76.8
0.0

(END OF REPORT)