

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: P637870

Luminaire Tested: **IFLD-S-SA2C-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637870
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11820.7 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

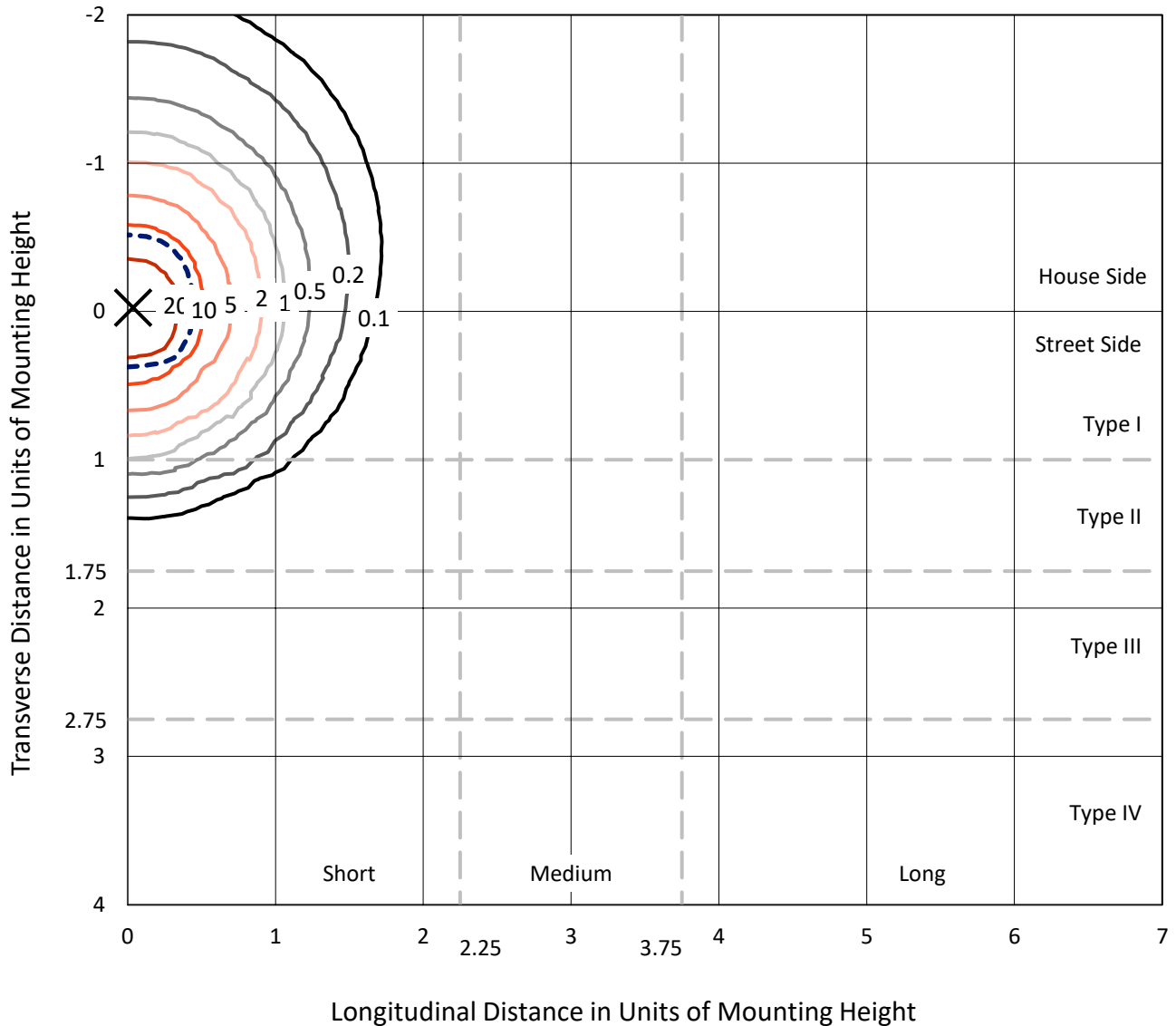
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637870
 CATALOG NUMBER: IFLD-S-SA2C-735-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

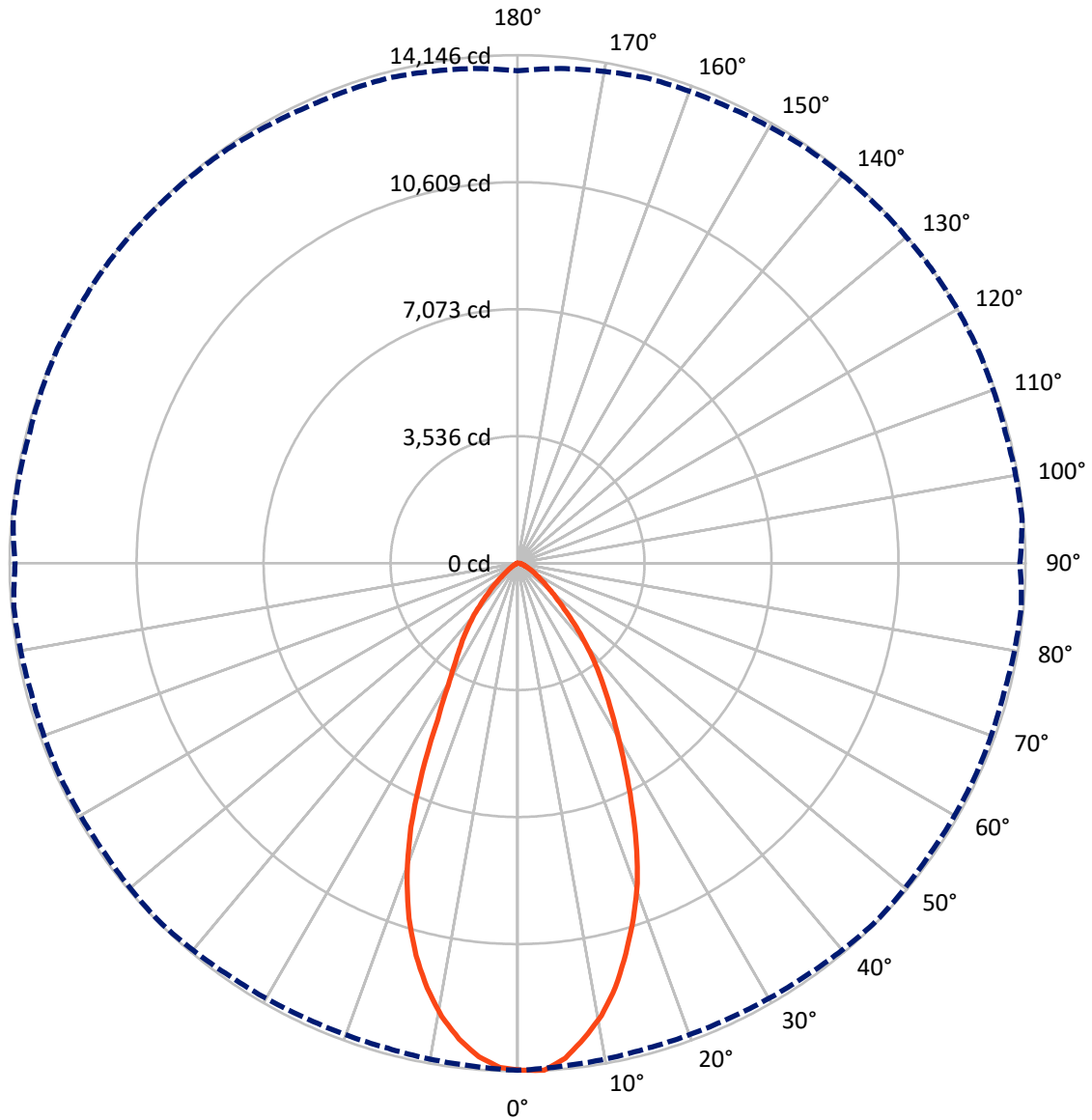
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 35.3 fc
 Type I - Short - N/A

REPORT NUMBER: P637870
CATALOG NUMBER: IFLD-S-SA2C-735-U-66-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637870

CATALOG NUMBER: IFLD-S-SA2C-735-U-66-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6707.5	0.0	6707.5
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	5113.2	0.0	5113.2
	% Fixture	43.3	0.0	43.3
Total	Lumens	11820.7	0.0	11820.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1282.4	10.8
10°-20°	3057.0	25.9
20°-30°	3113.5	26.3
30°-40°	2321.7	19.6
40°-50°	1212.9	10.3
50°-60°	510.2	4.3
60°-70°	208.3	1.8
70°-80°	87.7	0.7
80°-90°	27.0	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°	11820.7	100.0
0°-180°	11820.7	100.0



REPORT NUMBER: P637870

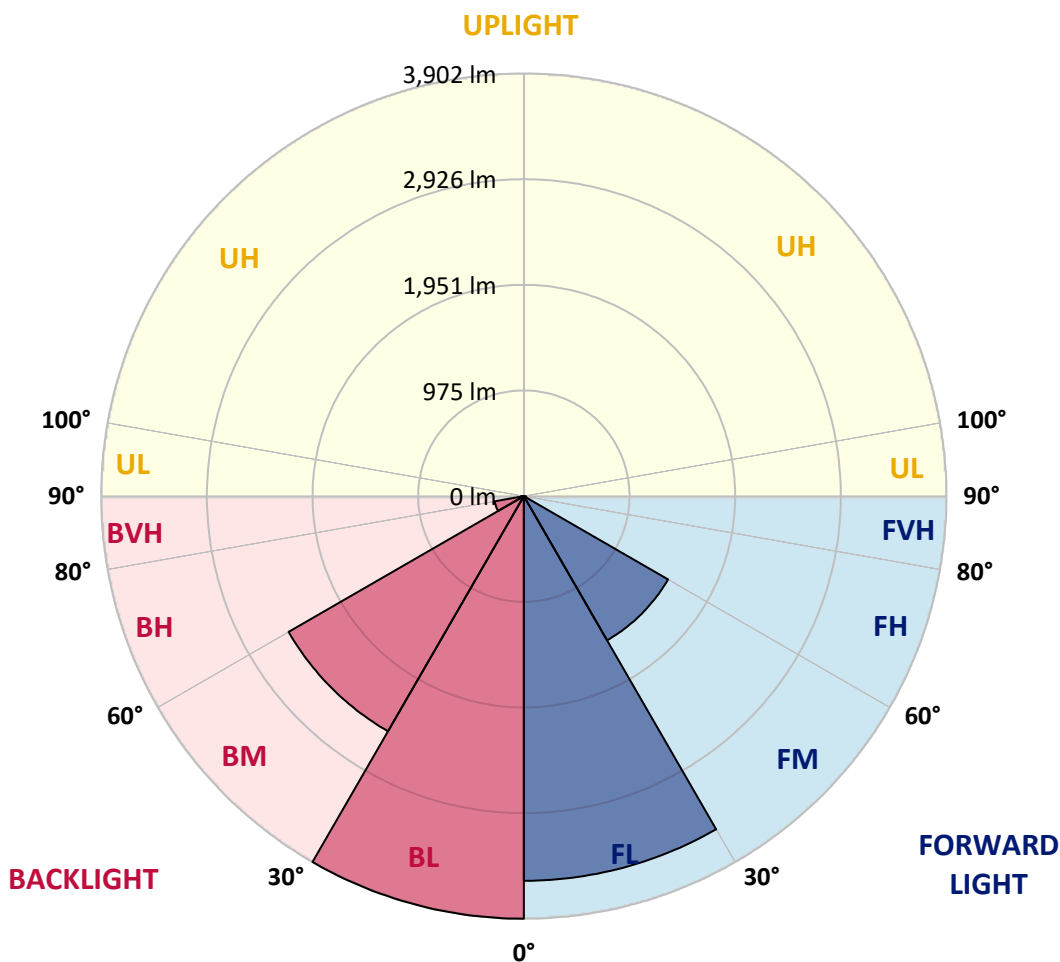
CATALOG NUMBER: IFLD-S-SA2C-735-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3551.1	30.0			
FM (30°-60°)	1537.3	13.0			
FH (60°-80°)	22.2	0.2			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	3901.8	33.0	B4/5000		
BM (30°-60°)	2507.5	21.2	B3/5000		
BH (60°-80°)	273.8	2.3	B1/500		G1/500
BVH (80°-90°)	24.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





REPORT NUMBER: P637870
 CATALOG NUMBER: IFLD-S-SA2C-735-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14122.9	14122.9	14122.9	14122.9	14122.9	14122.9	14122.9	14122.9	14122.9	14122.9
2.5°	14124.4	14066.7	13984.7	13977.1	14019.6	14112.3	14053.1	14056.1	14019.6	14081.9
5°	13902.7	13848.1	13791.9	13717.5	13779.7	13819.2	13788.8	13755.4	13708.4	13769.1
7.5°	13483.6	13453.3	13369.8	13336.4	13374.3	13418.3	13353.1	13343.9	13278.7	13357.6
10°	12842.9	12830.7	12748.7	12729.0	12762.4	12829.2	12800.3	12794.3	12753.3	12745.7
12.5°	12177.8	12130.7	12029.0	12022.9	12073.0	12173.2	12095.8	12021.4	12044.2	12063.9
15°	10465.0	10414.9	10667.0	11063.3	11271.3	11263.7	11286.5	11196.9	11169.6	11178.7
17.5°	8319.5	8234.4	8325.5	8939.0	9927.5	10501.4	10343.5	10150.7	10047.4	9979.1
20°	7180.6	7185.2	7168.5	7326.4	7942.9	9251.8	9213.8	8841.8	8706.7	8650.5
22.5°	6488.2	6462.4	6426.0	6476.1	6641.6	7409.9	7924.7	7583.0	7536.0	7473.7
25°	5809.5	5809.5	5765.5	5815.6	5862.7	5873.3	6389.5	6529.2	6438.1	6438.1
27.5°	5221.9	5191.5	5171.8	5194.5	5132.3	4833.2	4898.4	5613.6	5551.4	5513.4
30°	4638.8	4629.7	4596.3	4626.7	4395.8	4058.8	3922.1	4737.5	4802.8	4789.1
32.5°	3829.5	3865.9	4014.7	4061.8	3667.0	3395.2	3264.6	3932.7	4193.9	4183.3
35°	2602.6	2633.0	2803.0	3364.8	3039.9	2845.5	2807.6	3128.0	3557.7	3598.7
37.5°	2072.7	2068.1	2116.7	2216.9	2443.2	2396.1	2385.5	2469.0	2901.7	2919.9
40°	1708.2	1702.2	1700.6	1618.6	1562.5	1992.2	1963.3	1913.2	2288.3	2324.7
42.5°	1377.2	1383.3	1387.8	1208.7	1126.7	1536.6	1519.9	1468.3	1794.8	1837.3
45°	1081.1	1079.6	1088.7	900.4	877.7	982.4	1135.8	1094.8	1354.4	1400.0
47.5°	560.3	580.0	703.0	697.0	707.6	697.0	859.4	848.8	1018.9	1091.7
50°	376.6	382.6	393.3	394.8	557.3	513.2	583.1	660.5	713.7	826.0
52.5°	291.5	296.1	268.8	252.1	341.6	379.6	382.6	457.0	498.0	611.9
55°	162.5	182.2	195.9	197.4	188.3	280.9	279.4	338.6	370.5	446.4
57.5°	21.3	25.8	39.5	127.5	126.0	156.4	195.9	246.0	264.2	326.5
60°	1.5	3.0	4.6	19.7	83.5	91.1	133.6	153.4	183.7	229.3
62.5°	0.0	0.0	1.5	4.6	16.7	53.1	69.8	80.5	107.8	150.3
65°	0.0	0.0	1.5	3.0	6.1	19.7	27.3	44.0	63.8	92.6
67.5°	0.0	0.0	1.5	3.0	4.6	7.6	12.1	19.7	33.4	56.2
70°	0.0	0.0	1.5	3.0	4.6	6.1	9.1	12.1	18.2	30.4
72.5°	0.0	0.0	1.5	1.5	3.0	7.6	7.6	9.1	12.1	16.7
75°	0.0	0.0	1.5	3.0	4.6	7.6	7.6	7.6	9.1	10.6
77.5°	0.0	0.0	1.5	3.0	4.6	7.6	6.1	7.6	7.6	7.6
80°	0.0	0.0	1.5	3.0	4.6	7.6	9.1	7.6	6.1	6.1
82.5°	0.0	0.0	1.5	4.6	4.6	10.6	10.6	10.6	4.6	4.6
85°	0.0	0.0	3.0	4.6	7.6	12.1	12.1	9.1	4.6	3.0
87.5°	0.0	0.0	1.5	3.0	3.0	6.1	9.1	7.6	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637870
 CATALOG NUMBER: IFLD-S-SA2C-735-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
14122.9	0°	14122.9	14122.9	14122.9	14122.9	14122.9	14122.9	14122.9	14122.9	14122.9
13990.8	2.5°	14103.2	14065.2	14136.6	14145.7	14115.3	14077.3	13989.3	13981.7	13828.3
13681.0	5°	13835.9	13773.7	13819.2	13849.6	13839.0	13798.0	13761.5	13728.1	13589.9
13178.4	7.5°	13337.9	13315.1	13336.4	13359.1	13403.2	13359.1	13343.9	13309.0	13172.4
12683.4	10°	12785.2	12742.6	12823.1	12812.5	12800.3	12788.2	12724.4	12730.5	12569.5
12009.2	12.5°	12106.4	12035.1	12112.5	12121.6	12112.5	12070.0	11998.6	12029.0	11881.7
11098.2	15°	11193.9	11186.3	11242.4	11278.9	11304.7	11259.1	11234.8	11250.0	11162.0
9926.0	17.5°	10073.3	10171.9	10355.7	10417.9	10419.5	10466.5	10452.9	10434.6	10369.3
8627.7	20°	8755.3	8945.1	9227.5	9517.5	9601.0	9561.5	9543.3	9576.7	9479.5
7408.4	22.5°	7539.0	7701.5	8029.4	8453.1	8697.6	8721.9	8717.3	8688.4	8650.5
6432.1	25°	6506.5	6650.7	6965.0	7352.2	7821.4	7891.3	7894.3	7885.2	7851.8
5546.8	27.5°	5634.9	5809.5	5982.6	6328.8	6828.4	7116.9	7080.4	7069.8	7057.7
4799.8	30°	4845.3	5065.5	5227.9	5443.6	5891.5	6281.7	6319.7	6301.5	6272.6
4181.8	32.5°	4219.7	4350.3	4556.8	4702.6	5024.5	5466.3	5612.1	5598.4	5572.6
3624.5	35°	3676.1	3727.7	3890.2	4052.7	4266.8	4695.0	4910.6	4880.2	4875.7
2953.3	37.5°	3027.7	3200.8	3290.4	3454.4	3604.7	3937.3	4234.9	4221.2	4222.7
2374.8	40°	2444.7	2544.9	2722.5	2860.7	2998.9	3241.8	3572.9	3582.0	3578.9
1838.8	42.5°	1876.8	1974.0	2160.7	2311.0	2434.0	2584.4	2900.2	2910.8	2924.5
1431.9	45°	1465.3	1527.5	1664.2	1820.6	1951.2	2042.3	2282.2	2350.5	2352.0
1110.0	47.5°	1137.3	1208.7	1305.8	1456.2	1583.7	1649.0	1823.6	1916.3	1911.7
851.8	50°	892.8	958.1	1037.1	1155.5	1293.7	1345.3	1474.4	1565.5	1560.9
642.3	52.5°	683.3	766.8	836.7	927.8	1062.9	1106.9	1199.6	1304.3	1289.1
470.7	55°	517.8	602.8	668.1	744.0	867.0	923.2	987.0	1070.5	1073.5
364.4	57.5°	390.2	478.3	537.5	615.0	707.6	769.8	818.4	908.0	906.5
249.0	60°	279.4	355.3	426.7	507.2	578.5	649.9	683.3	768.3	771.4
176.1	62.5°	202.0	273.3	341.6	411.5	475.3	545.1	575.5	642.3	651.4
115.4	65°	141.2	191.3	270.3	323.4	394.8	446.4	485.9	543.6	554.2
68.3	67.5°	91.1	138.2	214.1	261.2	326.5	370.5	411.5	457.0	470.7
44.0	70°	54.7	104.8	159.4	209.5	268.8	308.2	347.7	387.2	394.8
21.3	72.5°	34.9	72.9	115.4	170.1	215.6	258.1	293.1	321.9	299.1
13.7	75°	19.7	50.1	91.1	133.6	174.6	215.6	244.5	259.7	208.0
9.1	77.5°	12.1	36.4	74.4	107.8	135.1	173.1	191.3	200.4	148.8
6.1	80°	7.6	27.3	62.3	88.1	88.1	127.5	148.8	156.4	107.8
4.6	82.5°	6.1	19.7	48.6	66.8	59.2	95.7	116.9	118.4	75.9
3.0	85°	4.6	15.2	30.4	44.0	41.0	66.8	68.3	75.9	50.1
3.0	87.5°	3.0	9.1	18.2	25.8	22.8	31.9	36.4	41.0	27.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14122.9
13708.4
13479.1
13143.5
12514.9
11839.2
11055.7
10272.2
9409.7
8577.6
7739.4
6986.3
6236.2
5504.3
4825.6
4174.2
3525.8
2878.9
2312.6
1895.0
1560.9
1290.7
1073.5
903.5
763.8
648.4
551.2
469.2
388.7
277.9
197.4
139.7
100.2
69.8
45.6
24.3
0.0

(END OF REPORT)