

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: P636710

Luminaire Tested: **IFLD-S-SA2C-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636710
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6921.5 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

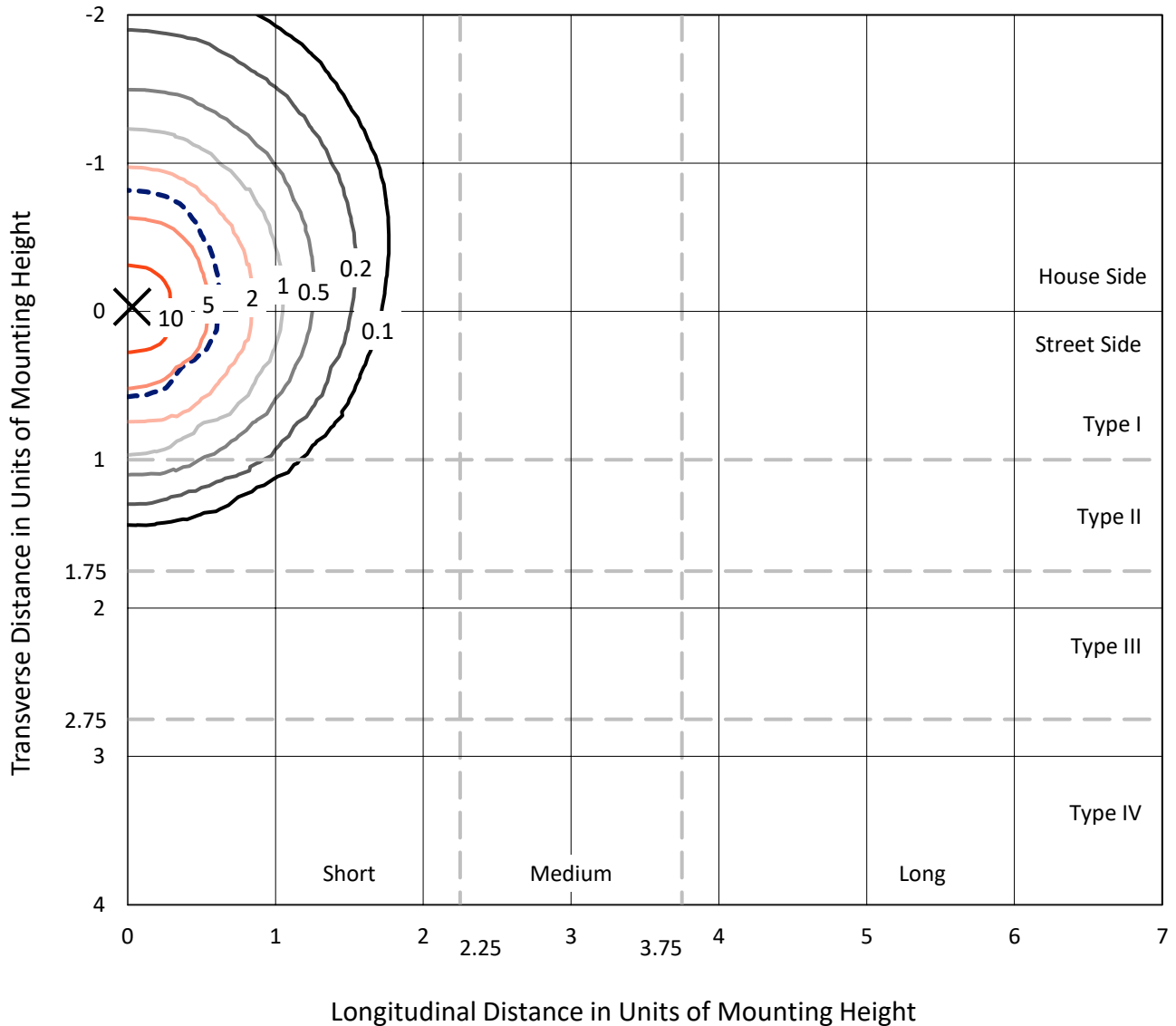
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

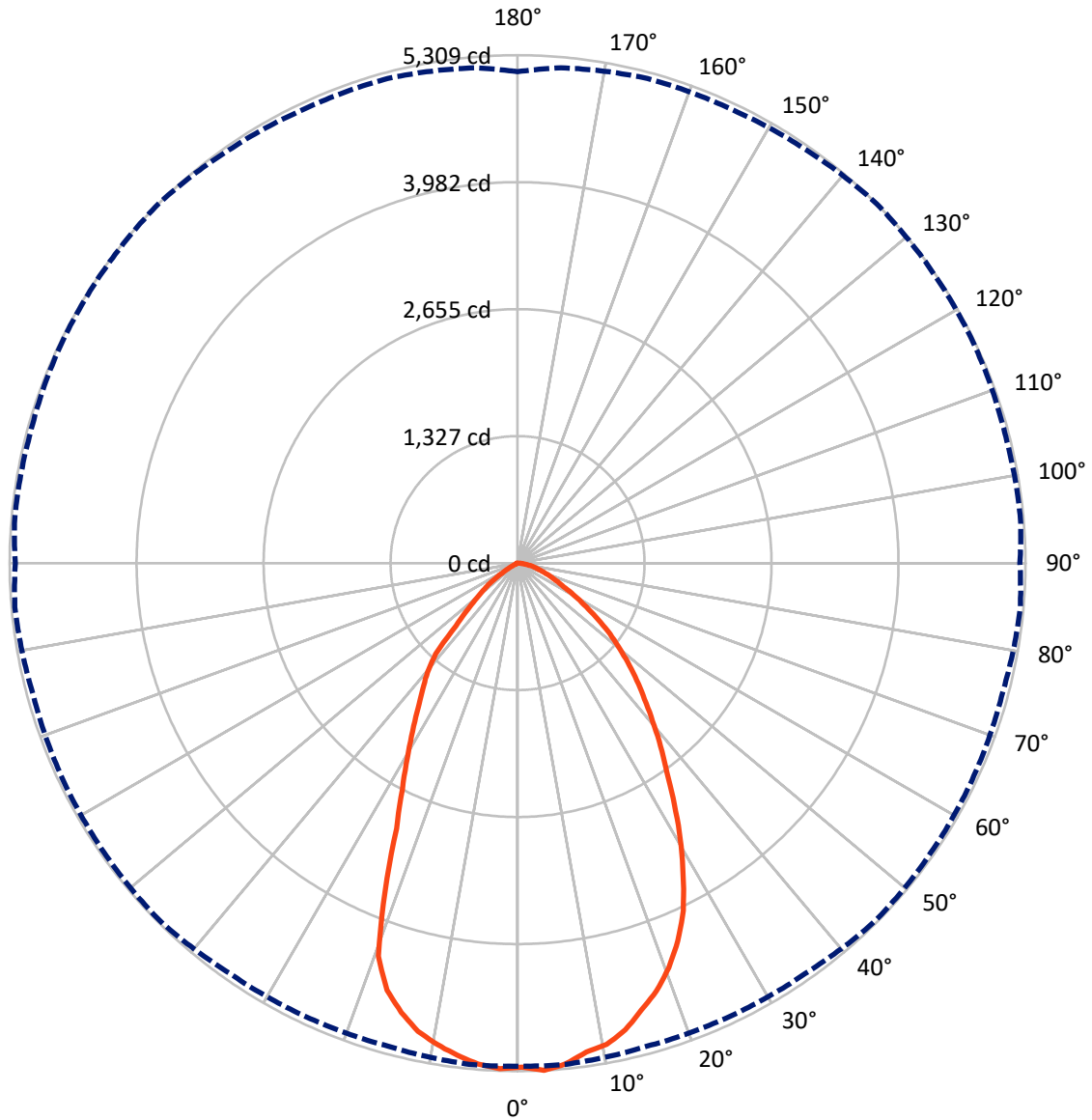
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4099.3	0.0	4099.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2822.2	0.0	2822.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	6921.5	0.0	6921.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.0	7.1
10°-20°	1324.7	19.1
20°-30°	1615.5	23.3
30°-40°	1474.9	21.3
40°-50°	1065.9	15.4
50°-60°	582.0	8.4
60°-70°	240.6	3.5
70°-80°	97.5	1.4
80°-90°	26.5	0.4
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°	6921.5	100.0
0°-180°	6921.5	100.0



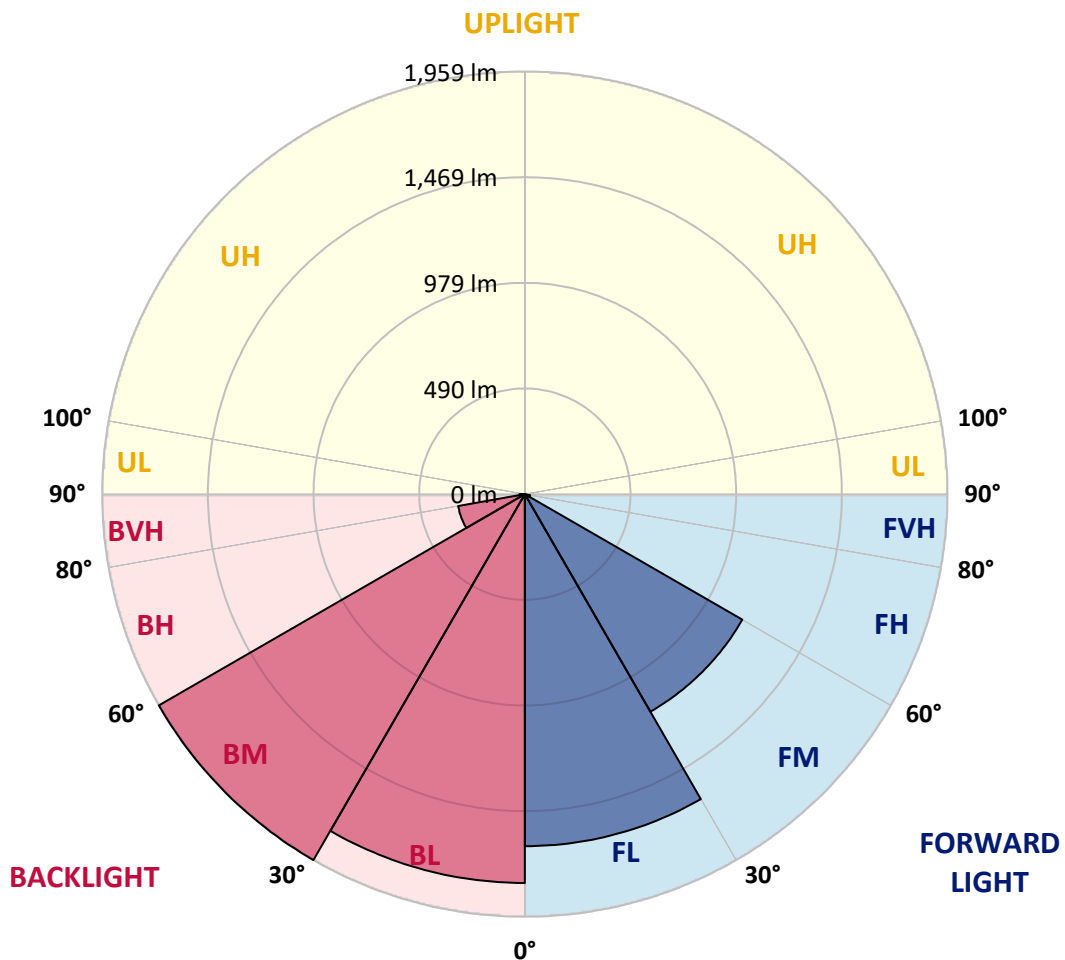
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1631.7	23.6			
FM	(30°-60°)	1164.1	16.8			
FH	(60°-80°)	24.4	0.4			G0/660
FVH	(80°-90°)	2.1	0.0			G0/10
BL	(0°-30°)	1802.5	26.0	B3/2500		
BM	(30°-60°)	1958.7	28.3	B2/2500		
BH	(60°-80°)	313.7	4.5	B1/500		G1/500
BVH	(80°-90°)	24.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5267.2	5267.2	5267.2	5267.2	5267.2	5267.2	5267.2	5267.2	5267.2	5267.2
2.5°	5257.5	5264.3	5227.3	5231.2	5238.0	5287.7	5275.0	5263.3	5246.8	5275.0
5°	5250.7	5254.6	5215.6	5201.9	5207.8	5252.6	5211.7	5211.7	5207.8	5202.9
7.5°	5198.0	5200.0	5169.8	5145.4	5161.0	5181.5	5151.3	5165.9	5144.4	5161.0
10°	5119.1	5106.4	5070.4	5063.5	5081.1	5100.6	5080.1	5093.8	5074.3	5086.9
12.5°	5003.1	4983.6	4954.4	4945.6	4975.8	5002.1	4985.6	4977.8	4952.4	4983.6
15°	4555.7	4541.1	4607.4	4723.4	4827.7	4850.1	4832.5	4840.3	4787.7	4796.5
17.5°	3749.6	3722.4	3793.5	4068.4	4460.2	4666.8	4651.2	4600.6	4522.6	4540.1
20°	3407.5	3399.7	3391.9	3457.2	3731.1	4357.9	4379.3	4250.6	4139.5	4115.2
22.5°	3214.5	3211.6	3203.8	3218.4	3290.6	3693.1	3938.7	3819.8	3745.7	3738.9
25°	3038.1	3033.2	3009.9	3028.4	3028.4	3051.8	3366.6	3438.7	3373.4	3365.6
27.5°	2858.8	2850.0	2846.1	2854.9	2810.0	2652.1	2732.1	3083.9	3049.8	3051.8
30°	2664.8	2661.9	2651.2	2669.7	2531.3	2335.4	2284.7	2762.3	2769.1	2767.2
32.5°	2376.3	2389.0	2437.7	2458.2	2230.1	2068.3	1983.5	2389.9	2529.3	2526.4
35°	1726.2	1726.2	1885.1	2180.4	1954.3	1832.4	1786.6	2026.4	2292.5	2302.2
37.5°	1419.2	1424.0	1455.2	1589.7	1686.2	1643.3	1629.7	1705.7	1988.4	2004.0
40°	1276.8	1276.8	1276.8	1221.3	1218.4	1480.6	1472.8	1448.4	1717.4	1751.5
42.5°	1147.2	1150.1	1152.1	1011.7	933.8	1279.8	1262.2	1225.2	1474.7	1514.7
45°	1013.7	1018.6	1024.4	846.0	811.9	921.1	1068.3	1027.3	1234.9	1286.6
47.5°	618.9	626.7	759.3	717.4	721.3	710.6	871.4	864.6	1012.7	1085.8
50°	418.1	421.1	433.7	455.2	618.9	558.5	617.0	715.4	769.0	880.1
52.5°	350.9	355.8	324.6	295.3	406.4	436.7	430.8	531.2	552.7	690.1
55°	246.6	262.2	247.6	244.6	231.0	339.2	326.5	408.4	422.0	524.4
57.5°	25.3	29.2	50.7	182.3	151.1	192.0	233.0	299.2	312.9	387.0
60°	1.9	1.9	4.9	25.3	110.1	115.0	160.8	184.2	210.5	270.0
62.5°	0.0	1.0	1.9	3.9	17.5	61.4	80.9	96.5	126.7	174.5
65°	0.0	0.0	1.0	2.9	3.9	23.4	31.2	50.7	69.2	108.2
67.5°	0.0	0.0	1.0	1.9	2.9	5.8	10.7	18.5	37.0	61.4
70°	0.0	0.0	1.0	1.9	2.9	4.9	7.8	11.7	16.6	33.1
72.5°	0.0	0.0	1.0	1.0	1.9	4.9	5.8	7.8	11.7	16.6
75°	0.0	0.0	1.0	1.0	2.9	5.8	4.9	5.8	7.8	10.7
77.5°	0.0	0.0	1.0	1.9	2.9	5.8	4.9	5.8	5.8	6.8
80°	0.0	0.0	1.0	1.9	3.9	6.8	5.8	5.8	4.9	4.9
82.5°	0.0	0.0	1.0	2.9	3.9	8.8	8.8	7.8	3.9	2.9
85°	0.0	0.0	1.9	3.9	5.8	9.7	9.7	7.8	2.9	1.9
87.5°	0.0	0.0	1.9	2.9	4.9	6.8	9.7	7.8	2.9	1.0
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°
5267.2	0°	5267.2	5267.2	5267.2	5267.2	5267.2	5267.2	5267.2	5267.2	5267.2
5250.7	2.5°	5277.0	5271.1	5290.6	5298.4	5309.2	5268.2	5242.9	5243.9	5197.1
5191.2	5°	5222.4	5223.4	5248.7	5246.8	5257.5	5235.1	5225.3	5208.8	5167.8
5116.2	7.5°	5153.2	5144.4	5168.8	5187.3	5160.0	5175.6	5153.2	5161.0	5136.6
5049.9	10°	5099.6	5079.1	5101.5	5114.2	5115.2	5099.6	5078.2	5057.7	5048.9
4946.6	12.5°	4980.7	4954.4	4992.4	5009.9	5007.0	4976.8	4952.4	4957.3	4929.0
4765.3	15°	4816.9	4817.9	4845.2	4861.8	4846.2	4839.4	4841.3	4829.6	4805.2
4514.8	17.5°	4566.4	4581.1	4653.2	4693.2	4701.9	4688.3	4681.5	4667.8	4643.4
4115.2	20°	4149.3	4237.0	4365.7	4489.4	4513.8	4509.9	4485.5	4479.7	4466.0
3719.4	22.5°	3782.8	3848.1	3997.2	4190.2	4289.6	4299.4	4270.1	4261.4	4246.7
3365.6	25°	3403.6	3473.8	3608.3	3817.9	4023.5	4065.4	4060.6	4034.3	4018.7
3051.8	27.5°	3083.9	3154.1	3275.9	3465.0	3685.3	3819.8	3832.5	3790.6	3789.6
2772.0	30°	2795.4	2891.9	2984.5	3138.5	3352.0	3553.7	3575.2	3545.9	3548.9
2515.7	32.5°	2569.3	2649.2	2728.2	2831.5	3008.9	3243.8	3327.6	3300.3	3289.6
2302.2	35°	2338.3	2392.9	2473.8	2568.3	2689.2	2922.1	3067.4	3046.9	3036.2
2013.7	37.5°	2075.1	2168.7	2227.2	2333.4	2428.0	2613.2	2817.8	2814.9	2792.5
1768.1	40°	1805.1	1903.6	1992.3	2099.5	2172.6	2319.8	2546.9	2545.9	2548.8
1513.7	42.5°	1560.5	1651.1	1758.3	1875.3	1945.5	2052.7	2296.4	2310.0	2326.6
1304.1	45°	1339.2	1421.1	1520.5	1662.8	1747.6	1809.0	2025.4	2087.8	2086.8
1117.0	47.5°	1140.4	1217.4	1301.2	1439.6	1547.8	1603.4	1782.7	1871.4	1865.6
916.2	50°	957.1	1025.4	1113.1	1213.5	1358.7	1407.5	1541.0	1658.0	1649.2
730.0	52.5°	770.0	864.6	938.6	1030.3	1183.3	1231.0	1334.4	1448.4	1441.6
547.8	55°	600.4	692.0	781.7	860.7	989.3	1060.5	1134.5	1251.5	1249.6
428.9	57.5°	454.2	554.6	639.4	714.5	816.8	904.5	964.0	1070.2	1083.9
293.4	60°	336.3	413.3	504.9	588.7	669.6	760.3	800.2	904.5	910.4
200.8	62.5°	229.1	313.9	403.5	479.5	540.0	633.6	669.6	755.4	766.1
128.7	65°	158.9	213.5	315.8	370.4	444.5	524.4	560.4	628.7	650.1
74.1	67.5°	105.3	152.1	246.6	296.3	369.4	424.0	469.8	525.4	548.8
46.8	70°	57.5	112.1	176.4	233.9	297.3	349.9	394.8	439.6	460.1
21.4	72.5°	39.0	75.1	122.8	185.2	239.8	291.4	331.4	364.5	365.5
12.7	75°	19.5	50.7	93.6	143.3	187.1	237.8	273.9	293.4	270.0
7.8	77.5°	11.7	37.0	76.0	115.0	152.1	192.0	212.5	223.2	185.2
5.8	80°	6.8	26.3	59.5	91.6	105.3	141.3	160.8	163.7	123.8
3.9	82.5°	4.9	19.5	46.8	67.3	64.3	99.4	120.9	117.0	79.0
2.9	85°	2.9	13.6	29.2	41.9	39.0	65.3	70.2	72.1	45.8
1.9	87.5°	1.9	7.8	15.6	22.4	18.5	28.3	28.3	34.1	22.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5267.2
5136.6
5158.1
5095.7
5009.9
4904.7
4780.9
4632.7
4434.9
4242.8
4002.1
3787.7
3534.2
3290.6
3021.6
2811.0
2548.8
2317.8
2088.8
1867.5
1657.0
1456.2
1254.4
1078.0
919.1
768.1
645.2
545.8
452.3
356.7
252.4
178.4
116.0
73.1
41.9
19.5
0.0

(END OF REPORT)