

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: P637883

Luminaire Tested: **IFLD-M-SA4A-735-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637883
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15358.6 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

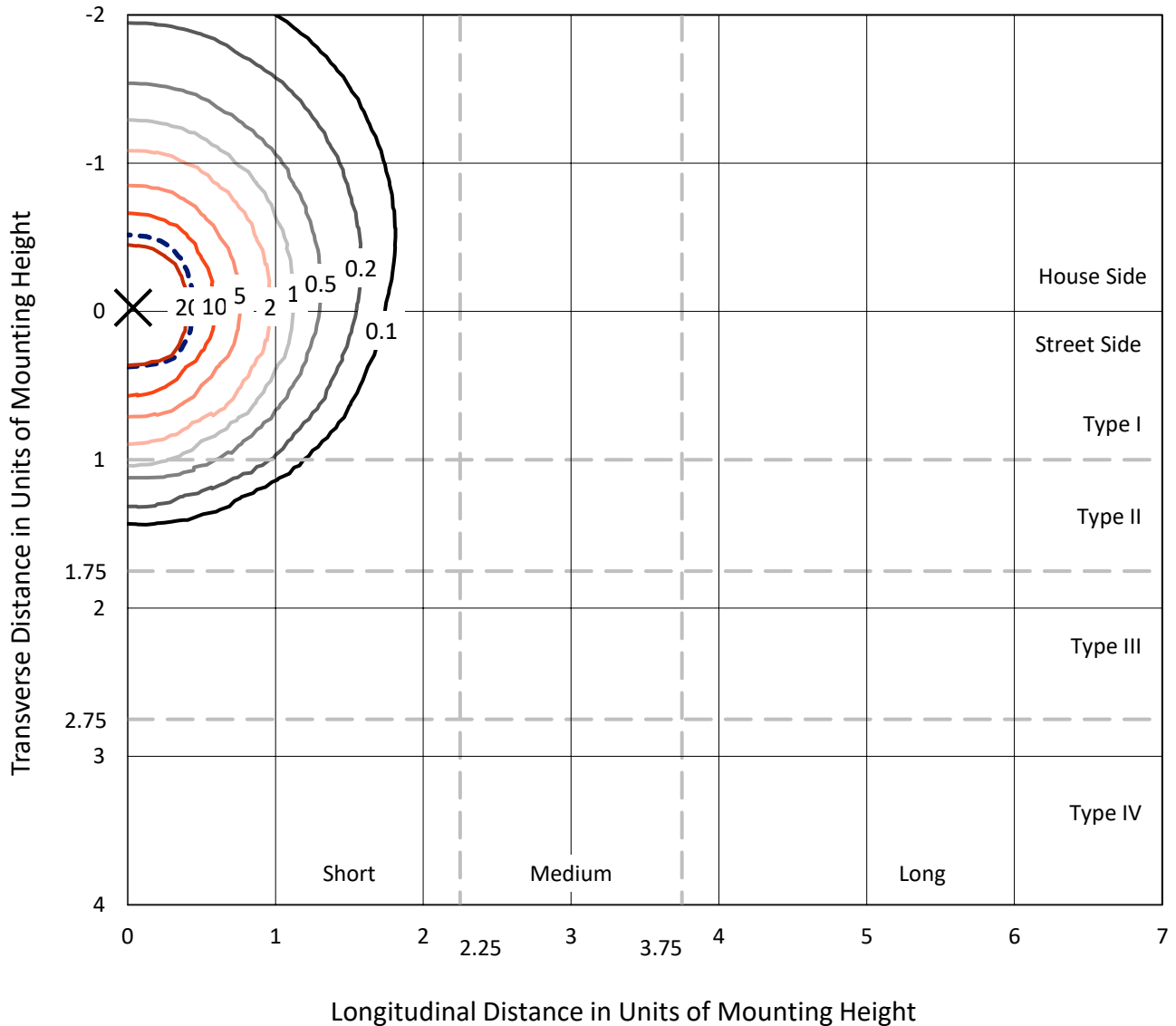
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

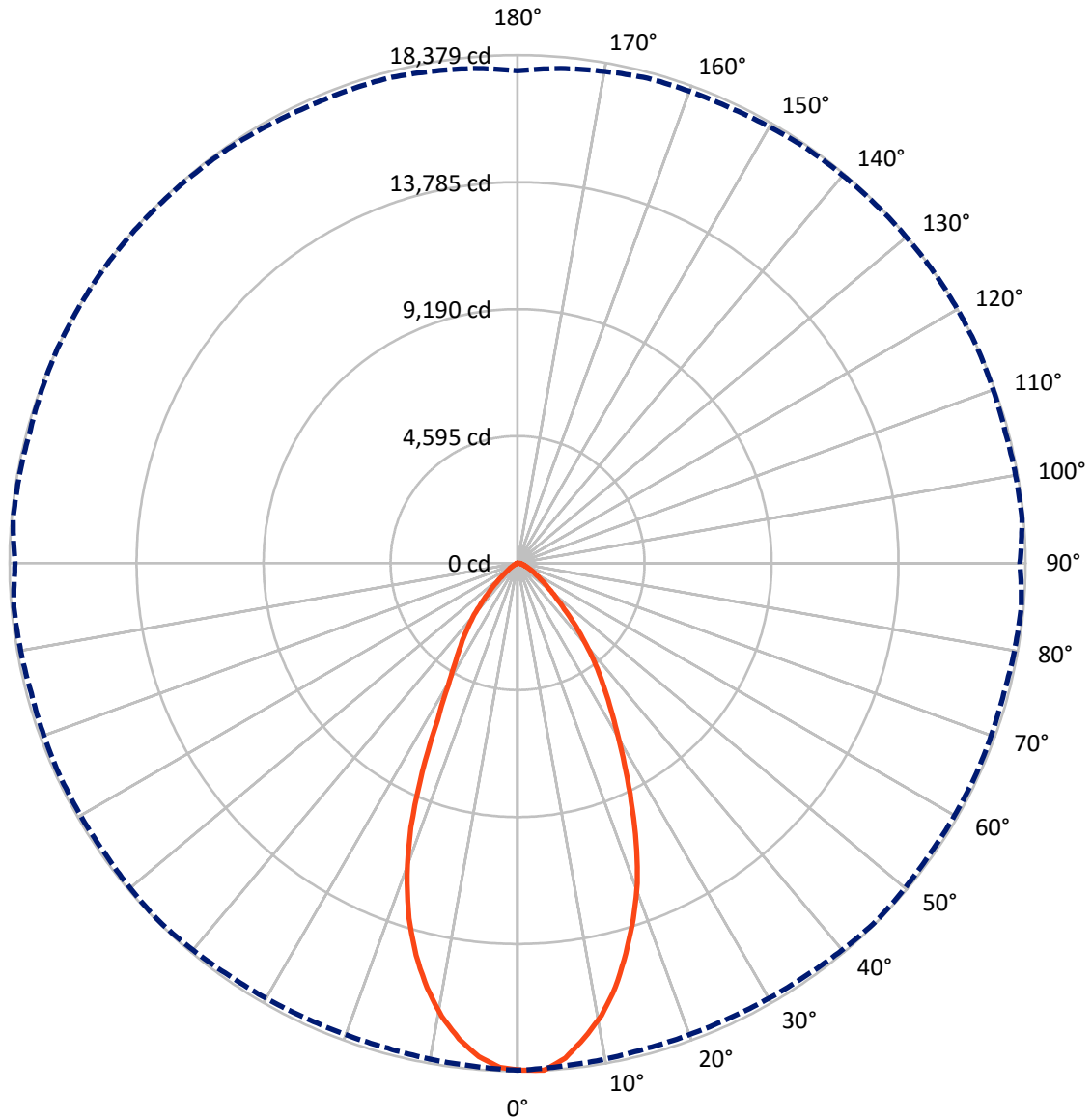
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 45.9 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	8715.1	0.0	8715.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	6643.5	0.0	6643.5
	% Fixture	43.3	0.0	43.3
Total	Lumens	15358.6	0.0	15358.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1666.2	10.8
10°-20°	3971.9	25.9
20°-30°	4045.3	26.3
30°-40°	3016.6	19.6
40°-50°	1575.9	10.3
50°-60°	662.9	4.3
60°-70°	270.7	1.8
70°-80°	113.9	0.7
80°-90°	35.1	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°	15358.6	100.0
0°-180°	15358.6	100.0



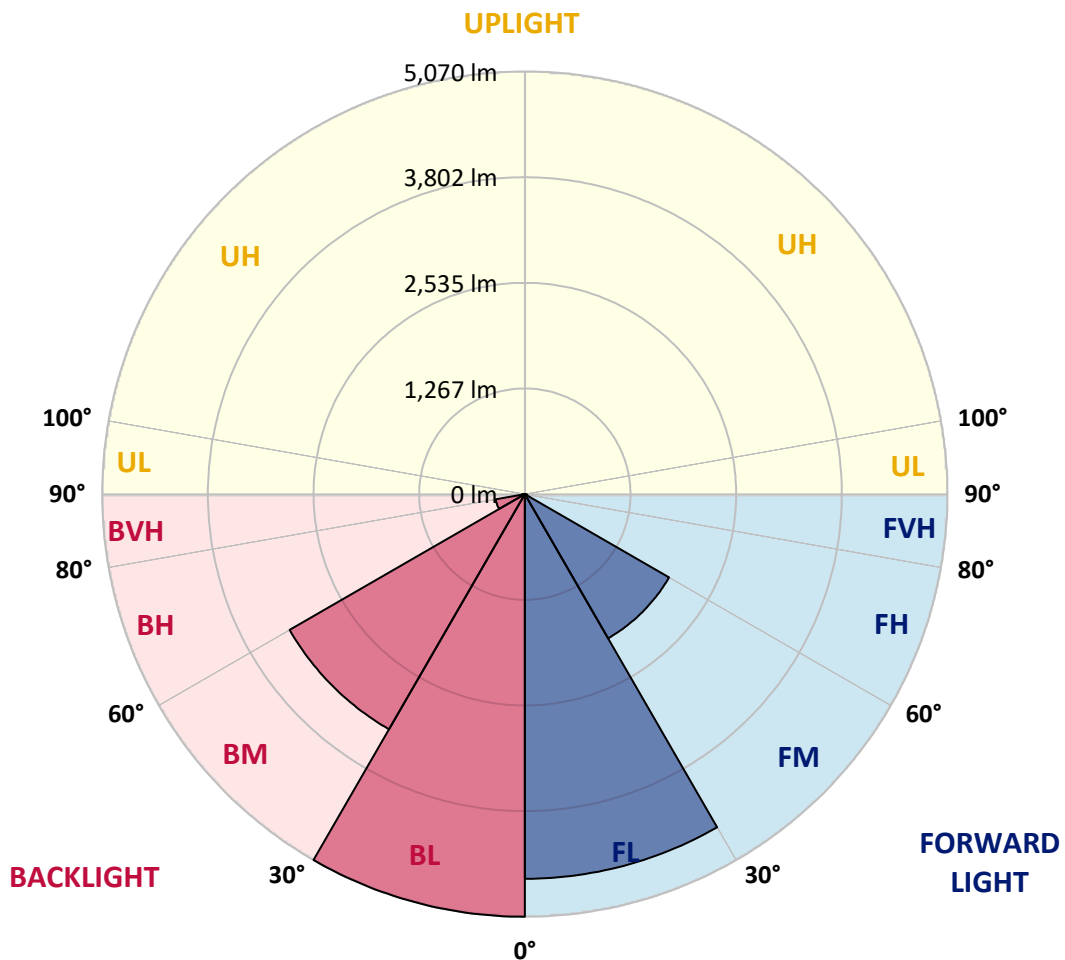
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4613.9	30.0			
FM (30°-60°)	1997.4	13.0			
FH (60°-80°)	28.9	0.2			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	5069.6	33.0	B5		
BM (30°-60°)	3257.9	21.2	B3/5000		
BH (60°-80°)	355.7	2.3	B1/500		G1/500
BVH (80°-90°)	31.8	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18349.8	18349.8	18349.8	18349.8	18349.8	18349.8	18349.8	18349.8	18349.8	18349.8
2.5°	18351.8	18276.8	18170.2	18160.4	18215.6	18336.0	18259.0	18263.0	18215.6	18296.5
5°	18063.7	17992.7	17919.7	17823.0	17903.9	17955.2	17915.7	17872.3	17811.2	17890.1
7.5°	17519.2	17479.7	17371.2	17327.8	17377.1	17434.4	17349.5	17337.7	17252.9	17355.4
10°	16686.6	16670.9	16564.3	16538.7	16582.1	16668.9	16631.4	16623.5	16570.2	16560.4
12.5°	15822.5	15761.4	15629.2	15621.3	15686.4	15816.6	15716.0	15619.3	15648.9	15674.6
15°	13597.1	13532.0	13859.5	14374.4	14644.7	14634.8	14664.4	14548.0	14512.5	14524.4
17.5°	10809.4	10698.9	10817.3	11614.4	12898.7	13644.5	13439.3	13188.7	13054.6	12965.8
20°	9329.8	9335.7	9314.0	9519.2	10320.1	12020.8	11971.5	11488.1	11312.5	11239.5
22.5°	8430.1	8396.6	8349.2	8414.3	8629.4	9627.7	10296.5	9852.6	9791.4	9710.5
25°	7548.2	7548.2	7491.0	7556.1	7617.3	7631.1	8301.9	8483.4	8365.0	8365.0
27.5°	6784.7	6745.3	6719.6	6749.2	6668.3	6279.7	6364.5	7293.7	7212.9	7163.5
30°	6027.2	6015.3	5971.9	6011.4	5711.5	5273.5	5096.0	6155.4	6240.2	6222.5
32.5°	4975.6	5023.0	5216.3	5277.5	4764.5	4411.4	4241.7	5109.8	5449.1	5435.3
35°	3381.5	3421.0	3641.9	4371.9	3949.7	3697.2	3647.9	4064.1	4622.5	4675.7
37.5°	2693.0	2687.1	2750.2	2880.4	3174.4	3113.2	3099.4	3207.9	3770.2	3793.9
40°	2219.5	2211.6	2209.6	2103.1	2030.1	2588.4	2550.9	2485.8	2973.1	3020.5
42.5°	1789.4	1797.3	1803.2	1570.4	1463.9	1996.6	1974.9	1907.8	2331.9	2387.2
45°	1404.7	1402.7	1414.6	1169.9	1140.3	1276.5	1475.7	1422.4	1759.8	1819.0
47.5°	728.0	753.6	913.4	905.6	919.4	905.6	1116.7	1102.8	1323.8	1418.5
50°	489.3	497.2	511.0	512.9	724.0	666.8	757.6	858.2	927.3	1073.2
52.5°	378.8	384.7	349.2	327.5	443.9	493.2	497.2	593.8	647.1	795.1
55°	211.1	236.7	254.5	256.5	244.6	365.0	363.0	440.0	481.4	580.0
57.5°	27.6	33.5	51.3	165.7	163.7	203.2	254.5	319.6	343.3	424.2
60°	2.0	3.9	5.9	25.6	108.5	118.4	173.6	199.3	238.7	297.9
62.5°	0.0	0.0	2.0	5.9	21.7	69.1	90.8	104.6	140.1	195.3
65°	0.0	0.0	2.0	3.9	7.9	25.6	35.5	57.2	82.9	120.3
67.5°	0.0	0.0	2.0	3.9	5.9	9.9	15.8	25.6	43.4	73.0
70°	0.0	0.0	2.0	3.9	5.9	7.9	11.8	15.8	23.7	39.5
72.5°	0.0	0.0	2.0	2.0	3.9	9.9	9.9	11.8	15.8	21.7
75°	0.0	0.0	2.0	3.9	5.9	9.9	9.9	9.9	11.8	13.8
77.5°	0.0	0.0	2.0	3.9	5.9	9.9	7.9	9.9	9.9	9.9
80°	0.0	0.0	2.0	3.9	5.9	9.9	11.8	9.9	7.9	7.9
82.5°	0.0	0.0	2.0	5.9	5.9	13.8	13.8	13.8	5.9	5.9
85°	0.0	0.0	3.9	5.9	9.9	15.8	15.8	11.8	5.9	3.9
87.5°	0.0	0.0	2.0	3.9	3.9	7.9	11.8	9.9	3.9	2.0
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°
18349.8	0°	18349.8	18349.8	18349.8	18349.8	18349.8	18349.8	18349.8	18349.8	18349.8
18178.1	2.5°	18324.1	18274.8	18367.5	18379.4	18339.9	18290.6	18176.2	18166.3	17967.0
17775.7	5°	17976.9	17896.0	17955.2	17994.7	17980.9	17927.6	17880.2	17836.8	17657.3
17122.6	7.5°	17329.8	17300.2	17327.8	17357.4	17414.6	17357.4	17337.7	17292.3	17114.8
16479.5	10°	16611.7	16556.4	16661.0	16647.2	16631.4	16615.6	16532.8	16540.6	16331.5
15603.5	12.5°	15729.8	15637.1	15737.7	15749.5	15737.7	15682.4	15589.7	15629.2	15437.8
14419.8	15°	14544.1	14534.2	14607.2	14654.6	14688.1	14628.9	14597.4	14617.1	14502.7
12896.7	17.5°	13088.1	13216.3	13455.1	13535.9	13537.9	13599.1	13581.3	13557.6	13472.8
11209.9	20°	11375.6	11622.3	11989.2	12366.0	12474.5	12423.2	12399.6	12443.0	12316.7
9625.7	22.5°	9795.4	10006.5	10432.6	10983.0	11300.7	11332.2	11326.3	11288.8	11239.5
8357.1	25°	8453.8	8641.2	9049.6	9552.7	10162.3	10253.1	10257.0	10245.2	10201.8
7206.9	27.5°	7321.4	7548.2	7773.2	8223.0	8872.1	9246.9	9199.6	9185.7	9170.0
6236.3	30°	6295.5	6581.5	6792.6	7072.8	7654.8	8161.8	8211.1	8187.5	8150.0
5433.3	32.5°	5482.6	5652.3	5920.6	6110.0	6528.3	7102.4	7291.8	7274.0	7240.5
4709.3	35°	4776.3	4843.4	5054.5	5265.6	5543.8	6100.2	6380.3	6340.8	6334.9
3837.3	37.5°	3933.9	4158.8	4275.2	4488.3	4683.6	5115.7	5502.4	5484.6	5486.6
3085.6	40°	3176.3	3306.6	3537.4	3716.9	3896.4	4212.1	4642.2	4654.0	4650.1
2389.2	42.5°	2438.5	2564.7	2807.4	3002.7	3162.5	3357.8	3768.2	3782.0	3799.8
1860.4	45°	1903.8	1984.7	2162.3	2365.5	2535.2	2653.5	2965.2	3054.0	3056.0
1442.2	47.5°	1477.7	1570.4	1696.7	1892.0	2057.7	2142.6	2369.4	2489.8	2483.9
1106.8	50°	1160.1	1244.9	1347.5	1501.4	1680.9	1748.0	1915.7	2034.0	2028.1
834.5	52.5°	887.8	996.3	1087.1	1205.4	1381.0	1438.2	1558.6	1694.7	1675.0
611.6	55°	672.8	783.2	868.1	966.7	1126.5	1199.5	1282.4	1390.9	1394.8
473.5	57.5°	507.0	621.5	698.4	799.0	919.4	1000.3	1063.4	1179.8	1177.8
323.6	60°	363.0	461.7	554.4	658.9	751.7	844.4	887.8	998.3	1002.2
228.9	62.5°	262.4	355.1	443.9	534.7	617.5	708.3	747.7	834.5	846.4
149.9	65°	183.5	248.6	351.2	420.2	512.9	580.0	631.3	706.3	720.1
88.8	67.5°	118.4	179.5	278.2	339.3	424.2	481.4	534.7	593.8	611.6
57.2	70°	71.0	136.1	207.2	272.3	349.2	400.5	451.8	503.1	512.9
27.6	72.5°	45.4	94.7	149.9	221.0	280.1	335.4	380.8	418.3	388.7
17.8	75°	25.6	65.1	118.4	173.6	226.9	280.1	317.6	337.4	270.3
11.8	77.5°	15.8	47.3	96.7	140.1	175.6	224.9	248.6	260.4	193.3
7.9	80°	9.9	35.5	80.9	114.4	114.4	165.7	193.3	203.2	140.1
5.9	82.5°	7.9	25.6	63.1	86.8	76.9	124.3	151.9	153.9	98.6
3.9	85°	5.9	19.7	39.5	57.2	53.3	86.8	88.8	98.6	65.1
3.9	87.5°	3.9	11.8	23.7	33.5	29.6	41.4	47.3	53.3	35.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
18349.8
17811.2
17513.3
17077.3
16260.5
15382.6
14364.6
13346.5
12226.0
11144.8
10055.8
9077.2
8102.6
7151.7
6269.8
5423.5
4581.0
3740.6
3004.7
2462.2
2028.1
1677.0
1394.8
1173.9
992.4
842.4
716.2
609.6
505.1
361.0
256.5
181.5
130.2
90.8
59.2
31.6
0.0

(END OF REPORT)