

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: P637304

Luminaire Tested: **IFLD-M-SA4B-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637304  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18422.2 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

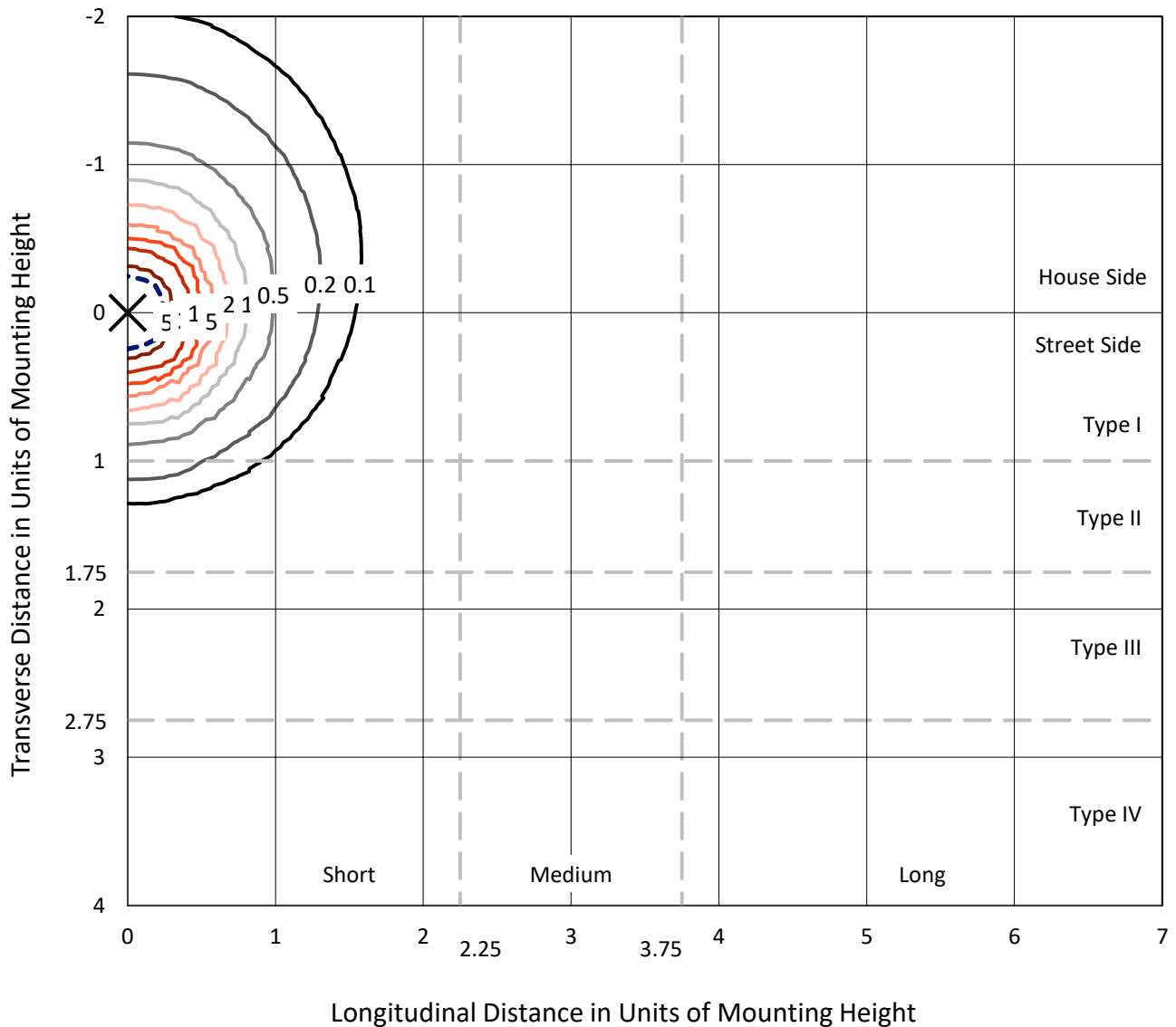
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

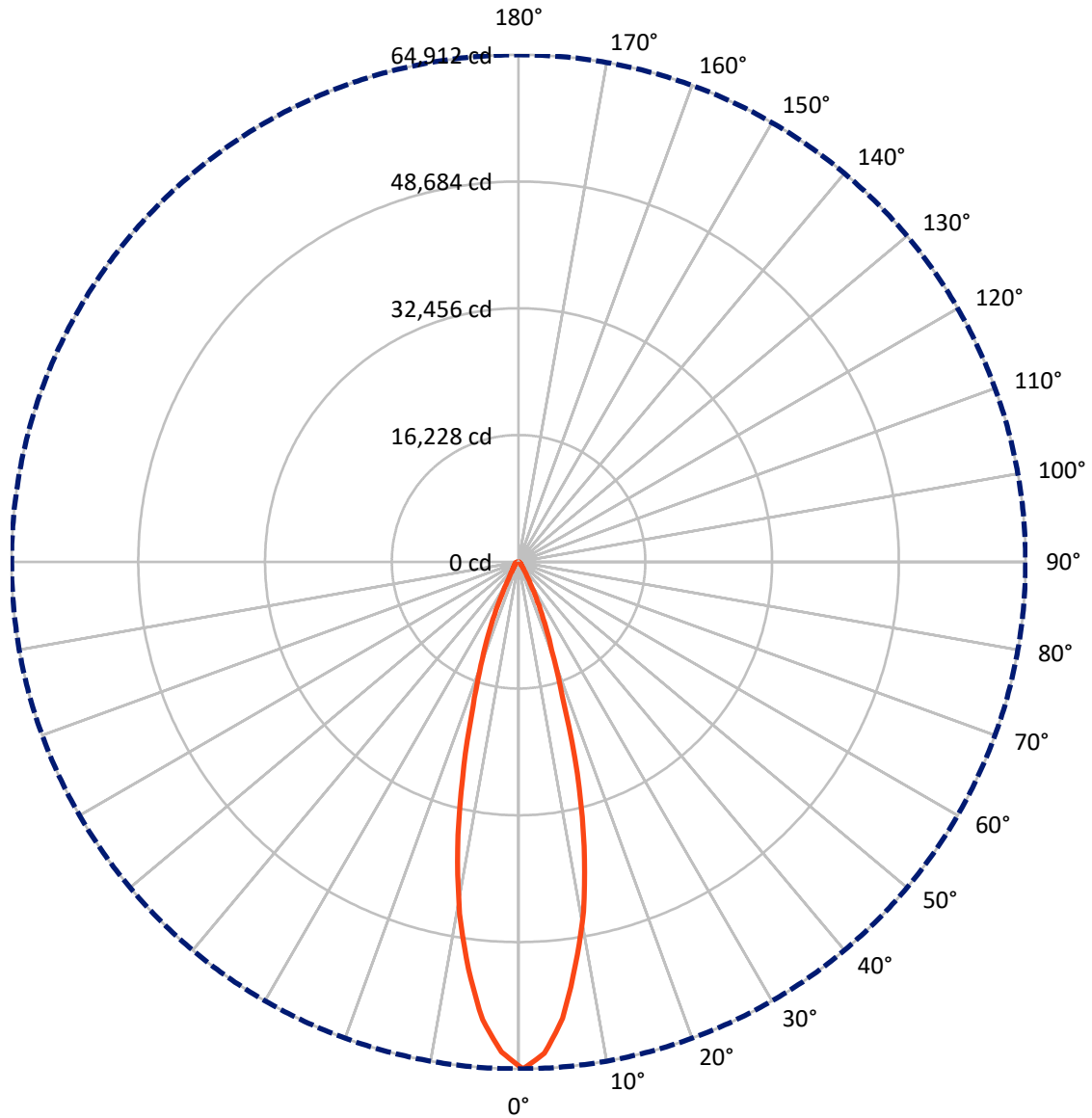
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 162.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9713.4	0.0	9713.4
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	8708.8	0.0	8708.8
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	18422.2	0.0	18422.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5239.0	28.4
10°-20°	7934.4	43.1
20°-30°	3348.4	18.2
30°-40°	873.3	4.7
40°-50°	441.7	2.4
50°-60°	288.7	1.6
60°-70°	173.0	0.9
70°-80°	91.0	0.5
80°-90°	32.9	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°	18422.2	100.0
0°-180°	18422.2	100.0

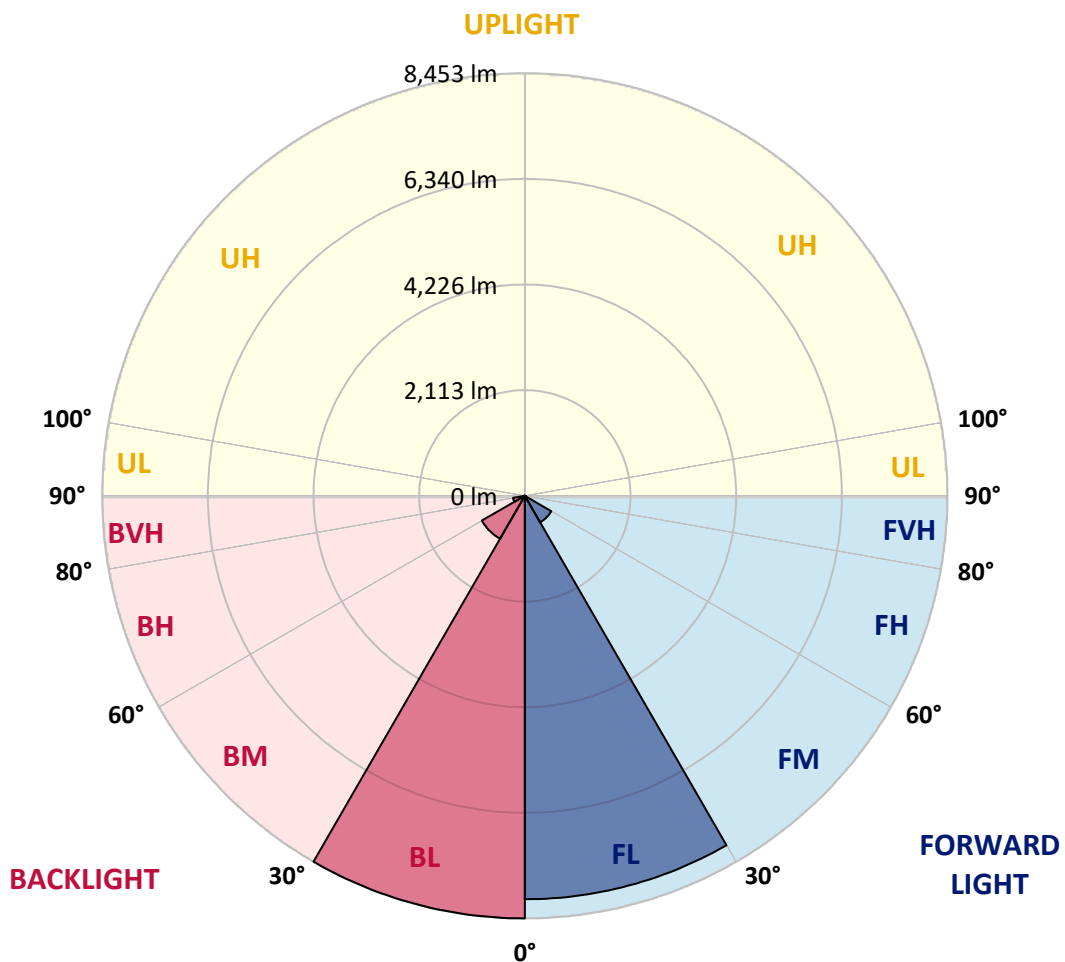


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8068.8	43.8			
FM (30°-60°)	611.1	3.3			
FH (60°-80°)	24.9	0.1			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	8452.9	45.9	B5		
BM (30°-60°)	992.6	5.4	B1/1000		
BH (60°-80°)	239.1	1.3	B1/500		G0/660
BVH (80°-90°)	28.9	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-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	64912.0	64912.0	64912.0	64912.0	64912.0	64912.0	64912.0	64912.0	64912.0	64912.0
2.5°	63021.1	63056.2	62925.9	63207.2	62988.0	63575.5	63283.8	63738.9	63585.8	63840.3
5°	58717.9	58659.9	58622.7	59059.2	58933.0	59564.0	59160.6	59028.2	59437.8	59363.3
7.5°	52219.6	52372.7	52285.8	52399.6	52463.8	53183.7	53411.3	53233.4	53239.6	53343.0
10°	45558.0	45332.5	45011.8	45224.9	45675.9	45990.3	45864.1	46124.8	46066.9	46313.1
12.5°	37361.2	37539.1	37359.1	37168.8	37957.0	37870.1	38089.4	38232.2	37874.3	38670.8
15°	28142.5	28235.5	28454.8	28440.4	29046.5	29168.6	29139.6	29290.7	29011.4	29143.8
17.5°	18079.6	18394.1	18983.7	19980.9	21102.2	21232.5	21199.4	21075.3	20940.8	20791.9
20°	12144.1	12111.0	12324.1	12615.8	14937.0	15551.5	15532.9	15143.9	14581.2	14473.6
22.5°	8507.1	8569.1	8540.2	8829.8	9309.8	11004.2	10795.2	10400.1	10215.9	10095.9
25°	5596.2	5573.5	5718.3	5805.2	6216.9	6423.8	7156.1	7009.2	6725.8	6756.8
27.5°	3411.5	3440.5	3494.3	3568.8	3860.5	3794.3	4212.2	4268.0	4177.0	4079.8
30°	2093.7	2114.4	2157.8	2211.6	2313.0	2240.6	2356.4	2557.1	2524.0	2455.7
32.5°	1421.3	1423.4	1454.4	1475.1	1462.7	1394.4	1431.6	1622.0	1626.1	1619.9
35°	1022.0	1022.0	1051.0	1067.5	1032.4	976.5	982.7	1100.6	1152.3	1162.7
37.5°	705.5	707.5	757.2	806.8	767.5	753.1	728.2	806.8	889.6	902.0
40°	535.8	533.8	558.6	595.8	600.0	573.1	581.3	631.0	715.8	726.2
42.5°	434.5	436.5	448.9	444.8	446.9	482.0	494.5	517.2	595.8	614.4
45°	366.2	368.3	374.5	353.8	345.5	399.3	415.8	428.3	494.5	517.2
47.5°	302.1	306.2	312.4	289.6	285.5	320.7	349.6	362.0	420.0	444.8
50°	217.2	221.4	244.1	231.7	244.1	252.4	291.7	310.3	349.6	382.7
52.5°	157.2	161.4	167.6	169.6	200.7	204.8	233.8	262.7	281.4	318.6
55°	124.1	128.3	124.1	120.0	146.9	169.6	180.0	211.0	225.5	268.9
57.5°	70.3	74.5	80.7	93.1	97.2	130.3	140.7	167.6	180.0	221.4
60°	12.4	14.5	22.8	55.9	68.3	82.8	105.5	128.3	144.8	173.8
62.5°	2.1	2.1	4.1	12.4	39.3	57.9	76.5	91.0	105.5	132.4
65°	0.0	0.0	2.1	4.1	10.3	33.1	41.4	53.8	72.4	95.2
67.5°	0.0	0.0	2.1	4.1	6.2	12.4	18.6	33.1	41.4	64.1
70°	0.0	0.0	2.1	4.1	6.2	8.3	10.3	14.5	24.8	39.3
72.5°	0.0	0.0	2.1	4.1	6.2	8.3	10.3	12.4	12.4	24.8
75°	0.0	0.0	2.1	4.1	6.2	10.3	12.4	12.4	10.3	10.3
77.5°	0.0	0.0	2.1	4.1	8.3	12.4	14.5	12.4	8.3	8.3
80°	0.0	0.0	4.1	6.2	10.3	14.5	18.6	14.5	8.3	4.1
82.5°	0.0	0.0	4.1	8.3	10.3	16.6	22.8	18.6	8.3	4.1
85°	0.0	0.0	2.1	6.2	12.4	16.6	22.8	16.6	8.3	2.1
87.5°	0.0	0.0	2.1	2.1	4.1	6.2	12.4	10.3	4.1	2.1
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°
64912.0	0°	64912.0	64912.0	64912.0	64912.0	64912.0	64912.0	64912.0	64912.0	64912.0
63358.3	2.5°	63722.4	64053.4	64121.7	64030.6	64163.1	63925.1	63743.1	63271.4	62988.0
59340.6	5°	59723.3	59673.7	60019.2	60132.9	60118.5	59936.4	59681.9	59396.4	59119.2
53142.3	7.5°	53473.3	53537.5	53851.9	54052.6	53951.3	53723.7	53547.8	53332.7	53146.5
46402.0	10°	46826.2	46385.5	46776.5	46776.5	47047.5	46404.1	46464.1	45922.1	45946.9
38656.3	12.5°	38788.7	38948.0	39012.1	39196.3	38879.7	38538.4	38120.5	38037.7	37779.1
28891.4	15°	29307.2	29762.4	29371.3	30039.6	29716.8	29361.0	29296.9	28655.5	28858.3
20955.3	17.5°	20851.9	21354.6	21511.8	21894.6	21600.8	21389.8	21122.9	20928.4	20913.9
14670.2	20°	14786.0	15290.8	15406.7	15865.9	15832.8	15766.6	15541.1	15294.9	15028.1
9986.3	22.5°	10137.3	10549.0	10933.8	11552.4	11542.1	11347.6	11324.8	10977.3	10983.5
6746.5	25°	6816.8	7116.8	7207.8	7840.9	7911.3	7890.6	7772.6	7449.9	7572.0
4121.1	27.5°	4125.3	4388.0	4696.3	4919.7	5130.7	5097.6	4979.7	4799.7	4721.1
2476.4	30°	2542.6	2660.5	2774.3	3043.3	3169.5	3235.7	3179.8	3012.2	3024.6
1630.2	32.5°	1665.4	1764.7	1847.5	2017.1	2083.3	2205.4	2182.6	2147.5	2106.1
1173.0	35°	1214.4	1286.8	1342.7	1421.3	1506.1	1609.6	1626.1	1611.6	1595.1
906.2	37.5°	926.8	1001.3	1065.5	1098.6	1164.8	1245.4	1291.0	1288.9	1276.5
738.6	40°	753.1	808.9	866.8	910.3	955.8	1015.8	1071.7	1077.9	1077.9
620.7	42.5°	628.9	676.5	734.4	780.0	813.1	868.9	926.8	931.0	926.8
525.5	45°	537.9	579.3	635.1	688.9	715.8	757.2	813.1	825.5	817.2
451.0	47.5°	467.6	504.8	552.4	610.3	639.3	676.5	728.2	742.7	740.6
388.9	50°	401.4	444.8	492.4	540.0	577.2	612.4	662.0	678.6	672.4
331.0	52.5°	353.8	393.1	434.5	486.2	529.6	560.7	600.0	628.9	620.7
279.3	55°	295.8	343.4	386.9	430.3	484.1	517.2	554.4	589.6	581.3
235.8	57.5°	256.5	295.8	345.5	384.8	438.6	477.9	515.1	552.4	550.3
192.4	60°	215.2	256.5	304.1	345.5	395.1	438.6	475.8	517.2	521.3
144.8	62.5°	169.6	219.3	260.7	308.3	357.9	405.5	438.6	480.0	486.2
109.6	65°	128.3	180.0	225.5	271.0	320.7	372.4	401.4	436.5	442.7
80.7	67.5°	95.2	138.6	192.4	233.8	285.5	335.2	362.0	391.0	401.4
49.7	70°	72.4	105.5	161.4	200.7	254.5	293.8	322.7	347.6	355.8
33.1	72.5°	45.5	82.8	130.3	171.7	219.3	254.5	275.2	289.6	302.1
18.6	75°	31.0	64.1	105.5	146.9	182.1	209.0	227.6	240.0	250.3
8.3	77.5°	18.6	49.7	86.9	122.1	144.8	165.5	184.1	192.4	198.6
6.2	80°	10.3	37.2	72.4	99.3	113.8	128.3	142.8	153.1	157.2
4.1	82.5°	6.2	29.0	57.9	76.5	82.8	97.2	111.7	117.9	117.9
2.1	85°	4.1	20.7	39.3	55.9	60.0	70.3	74.5	78.6	82.8
2.1	87.5°	4.1	12.4	24.8	31.0	33.1	37.2	39.3	43.4	47.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>64912.0</u>
62779.0
58808.9
52515.5
45704.8
37543.3
28655.5
20529.1
14912.2
10863.5
7379.6
4652.8
2970.9
2091.6
1588.9
1270.3
1065.5
922.7
817.2
736.5
668.2
618.6
585.5
552.4
523.4
490.3
448.9
405.5
360.0
300.0
248.3
196.5
153.1
115.9
80.7
45.5
0.0

(END OF REPORT)