

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: P637299

Luminaire Tested: **IFLD-S-SA6B-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637299  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-727-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26923.9 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

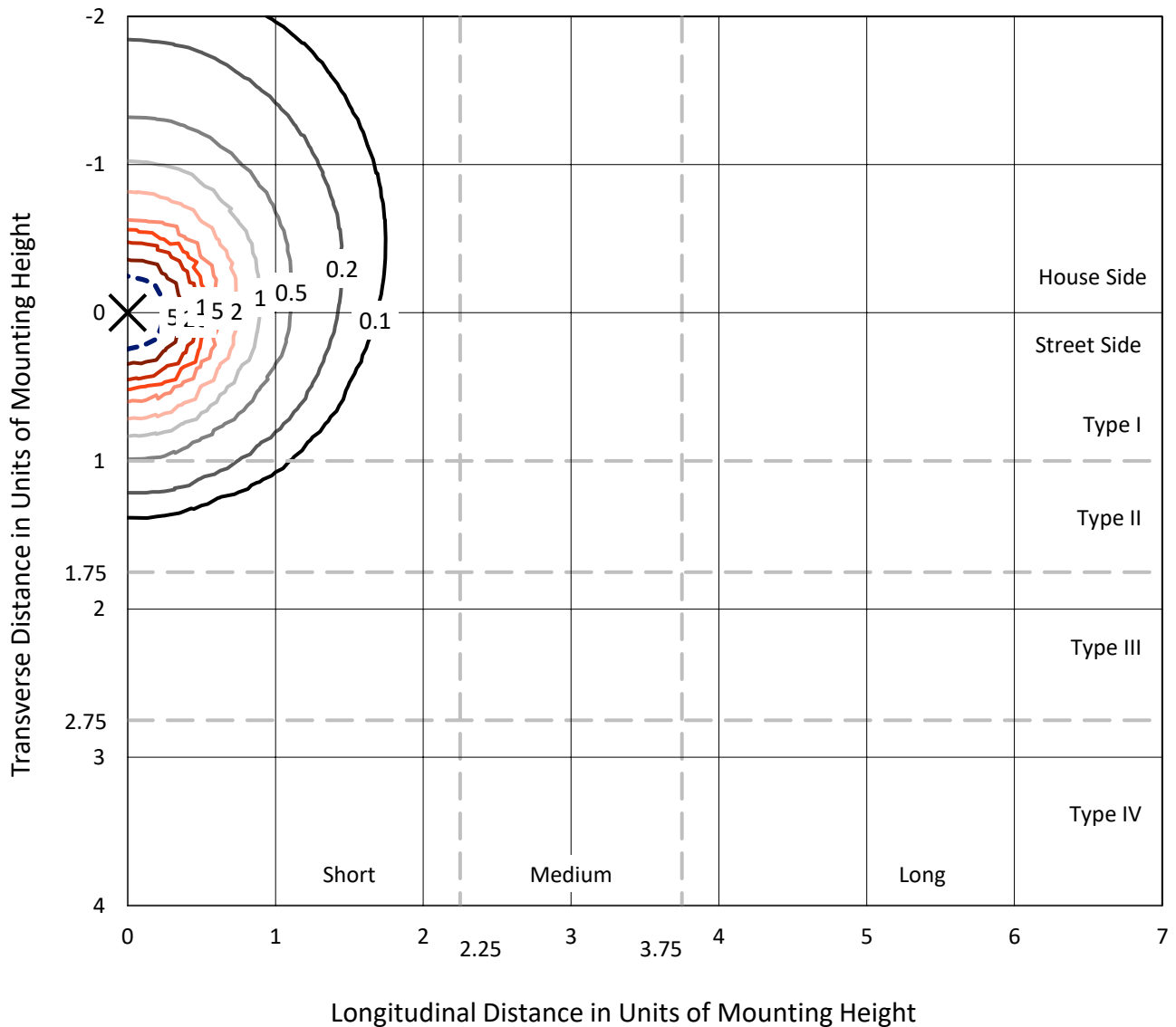
Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

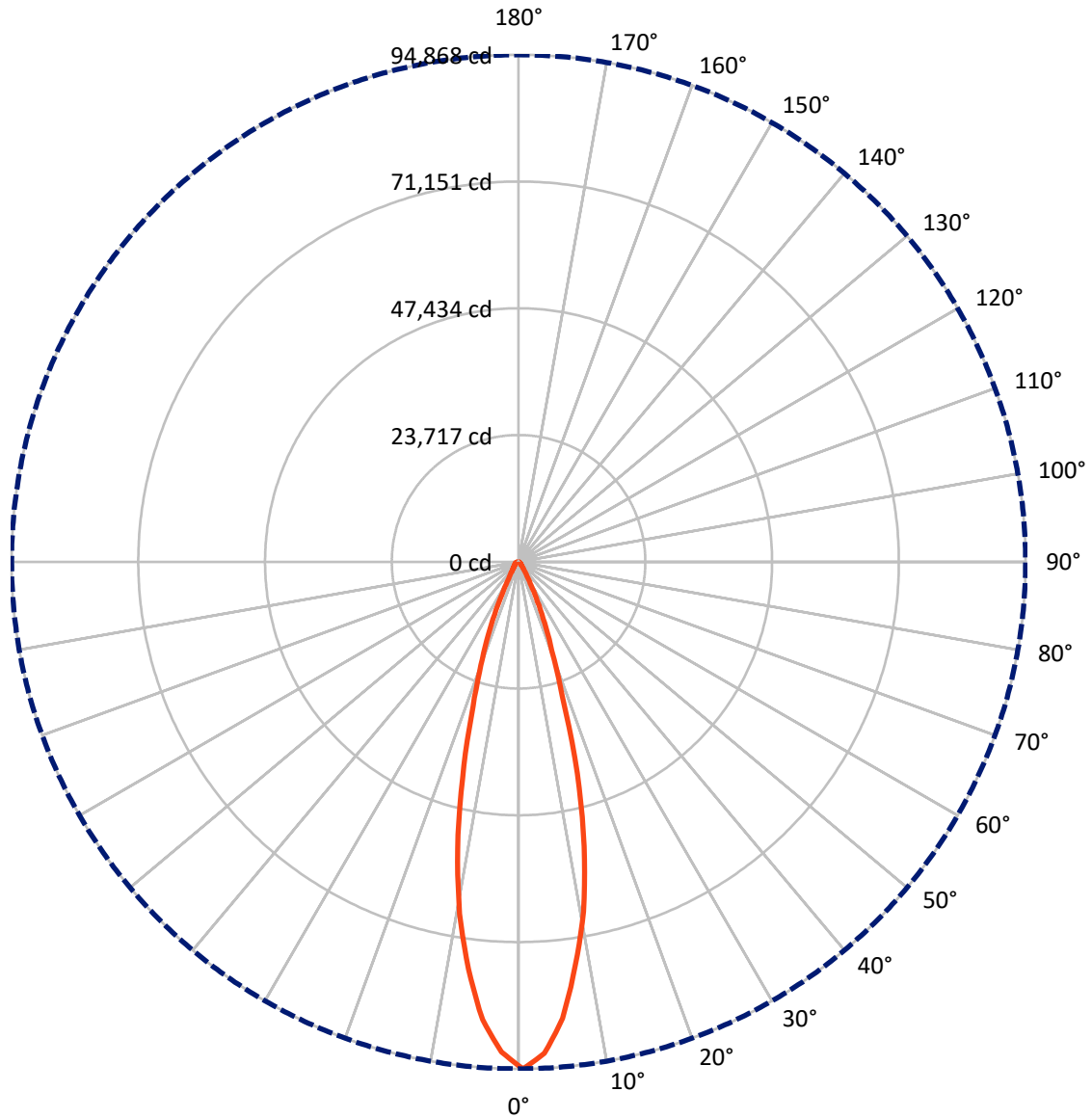
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 237.2 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	14196.1	0.0	14196.1
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	12727.8	0.0	12727.8
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	26923.9	0.0	26923.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7656.7	28.4
10°-20°	11596.0	43.1
20°-30°	4893.6	18.2
30°-40°	1276.3	4.7
40°-50°	645.5	2.4
50°-60°	421.9	1.6
60°-70°	252.8	0.9
70°-80°	133.0	0.5
80°-90°	48.0	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°	26923.9	100.0
0°-180°	26923.9	100.0

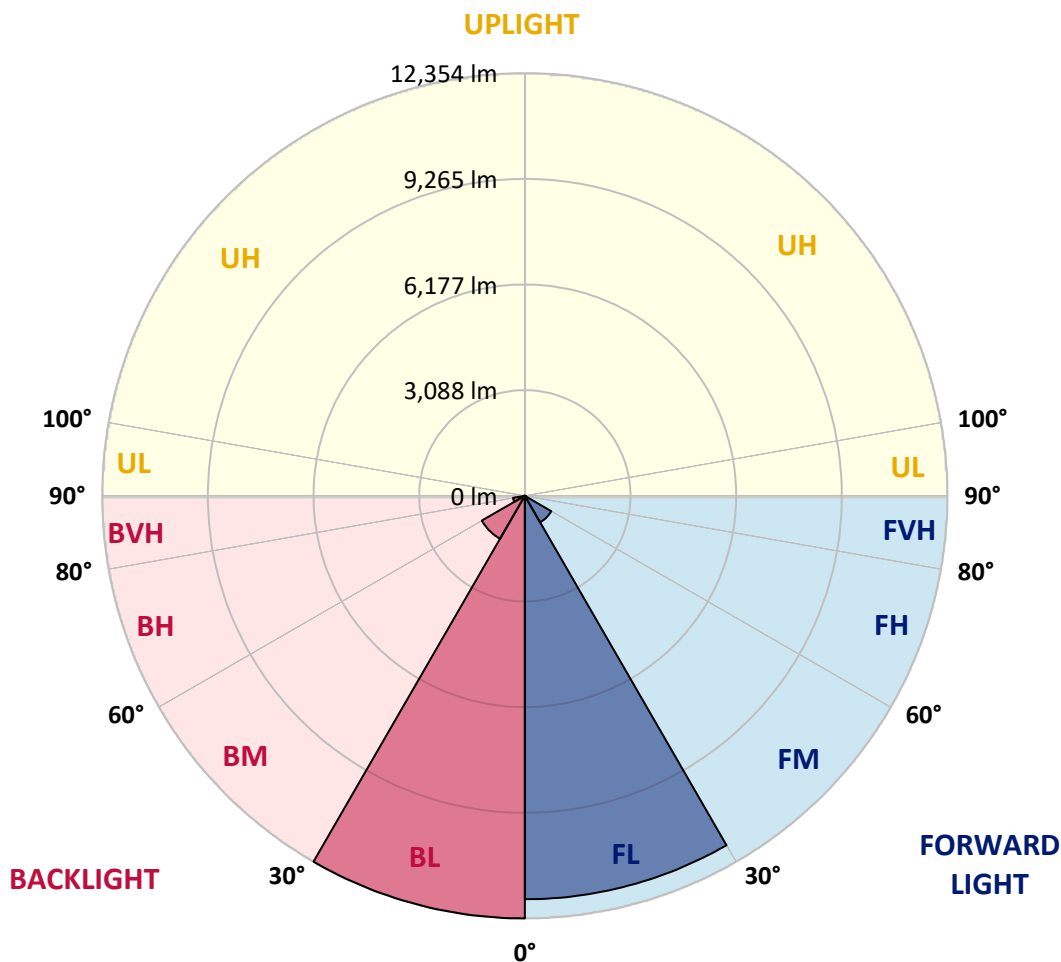


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	11792.5	43.8			
FM (30°-60°)	893.1	3.3			
FH (60°-80°)	36.4	0.1			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	12353.8	45.9	B5		
BM (30°-60°)	1450.7	5.4	B2/2500		
BH (60°-80°)	349.4	1.3	B1/500		G0/660
BVH (80°-90°)	42.2	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°	94868.4	94868.4	94868.4	94868.4	94868.4	94868.4	94868.4	94868.4	94868.4	94868.4
2.5°	92104.8	92156.2	91965.7	92376.9	92056.4	92915.1	92488.8	93154.0	92930.2	93302.1
5°	85815.7	85731.0	85676.6	86314.6	86130.2	87052.4	86462.8	86269.2	86867.9	86759.1
7.5°	76318.6	76542.3	76415.3	76581.6	76675.4	77727.6	78060.2	77800.2	77809.2	77960.4
10°	66582.6	66253.0	65784.4	66095.8	66755.0	67214.5	67030.1	67411.1	67326.4	67686.2
12.5°	54603.1	54863.2	54600.1	54321.9	55473.9	55346.9	55667.4	55876.1	55353.0	56517.1
15°	41130.0	41266.0	41586.5	41565.4	42451.3	42629.7	42587.4	42808.1	42399.9	42593.4
17.5°	26423.2	26882.8	27744.5	29201.9	30840.7	31031.2	30982.8	30801.4	30604.8	30387.1
20°	17748.5	17700.1	18011.6	18437.9	21830.4	22728.4	22701.2	22132.7	21310.3	21153.1
22.5°	12433.0	12523.7	12481.4	12904.7	13606.2	16082.5	15777.1	15199.6	14930.5	14755.1
25°	8178.8	8145.6	8357.2	8484.2	9085.9	9388.3	10458.6	10243.9	9829.7	9875.1
27.5°	4985.9	5028.2	5106.9	5215.7	5642.0	5545.3	6156.0	6237.7	6104.6	5962.5
30°	3059.9	3090.1	3153.6	3232.2	3380.4	3274.6	3443.9	3737.2	3688.8	3589.0
32.5°	2077.2	2080.2	2125.6	2155.8	2137.7	2037.9	2092.3	2370.5	2376.5	2367.5
35°	1493.7	1493.7	1536.0	1560.2	1508.8	1427.1	1436.2	1608.6	1684.1	1699.3
37.5°	1031.0	1034.1	1106.6	1179.2	1121.8	1100.6	1064.3	1179.2	1300.1	1318.3
40°	783.1	780.1	816.4	870.8	876.8	837.5	849.6	922.2	1046.2	1061.3
42.5°	635.0	638.0	656.1	650.1	653.1	704.5	722.6	755.9	870.8	898.0
45°	535.2	538.2	547.3	517.0	504.9	583.6	607.7	625.9	722.6	755.9
47.5°	441.4	447.5	456.6	423.3	417.3	468.7	511.0	529.1	613.8	650.1
50°	317.5	323.5	356.8	338.6	356.8	368.9	426.3	453.5	511.0	559.4
52.5°	229.8	235.8	244.9	247.9	293.3	299.3	341.7	384.0	411.2	465.6
55°	181.4	187.5	181.4	175.4	214.7	247.9	263.1	308.4	329.6	393.1
57.5°	102.8	108.8	117.9	136.1	142.1	190.5	205.6	244.9	263.1	323.5
60°	18.1	21.2	33.3	81.6	99.8	120.9	154.2	187.5	211.7	254.0
62.5°	3.0	3.0	6.0	18.1	57.4	84.7	111.9	133.0	154.2	193.5
65°	0.0	0.0	3.0	6.0	15.1	48.4	60.5	78.6	105.8	139.1
67.5°	0.0	0.0	3.0	6.0	9.1	18.1	27.2	48.4	60.5	93.7
70°	0.0	0.0	3.0	6.0	9.1	12.1	15.1	21.2	36.3	57.4
72.5°	0.0	0.0	3.0	6.0	9.1	12.1	15.1	18.1	18.1	36.3
75°	0.0	0.0	3.0	6.0	9.1	15.1	18.1	18.1	15.1	15.1
77.5°	0.0	0.0	3.0	6.0	12.1	18.1	21.2	18.1	12.1	12.1
80°	0.0	0.0	6.0	9.1	15.1	21.2	27.2	21.2	12.1	6.0
82.5°	0.0	0.0	6.0	12.1	15.1	24.2	33.3	27.2	12.1	6.0
85°	0.0	0.0	3.0	9.1	18.1	24.2	33.3	24.2	12.1	3.0
87.5°	0.0	0.0	3.0	3.0	6.0	9.1	18.1	15.1	6.0	3.0
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°
94868.4	0°	94868.4	94868.4	94868.4	94868.4	94868.4	94868.4	94868.4	94868.4	94868.4
92597.6	2.5°	93129.8	93613.6	93713.3	93580.3	93773.8	93426.1	93160.0	92470.6	92056.4
86725.8	5°	87285.2	87212.6	87717.6	87883.9	87862.7	87596.6	87224.7	86807.4	86402.3
77667.1	7.5°	78150.9	78244.6	78704.2	78997.5	78849.3	78516.7	78259.7	77945.3	77673.2
67816.2	10°	68436.1	67792.1	68363.5	68363.5	68759.6	67819.3	67906.9	67114.8	67151.1
56495.9	12.5°	56689.4	56922.2	57016.0	57285.1	56822.4	56323.6	55712.8	55591.8	55213.9
42224.5	15°	42832.3	43497.5	42926.0	43902.6	43430.9	42910.9	42817.1	41879.8	42176.1
30626.0	17.5°	30474.8	31209.6	31439.4	31998.7	31569.4	31261.0	30870.9	30586.7	30565.5
21440.3	20°	21609.6	22347.4	22516.7	23188.0	23139.6	23042.8	22713.3	22353.4	21963.4
14594.9	22.5°	14815.6	15417.3	15979.7	16883.8	16868.6	16584.4	16551.2	16043.2	16052.3
9859.9	25°	9962.7	10401.2	10534.2	11459.4	11562.2	11532.0	11359.7	10888.0	11066.4
6023.0	27.5°	6029.1	6413.0	6863.6	7190.1	7498.5	7450.1	7277.8	7014.7	6899.8
3619.2	30°	3716.0	3888.3	4054.6	4447.7	4632.1	4728.9	4647.3	4402.4	4420.5
2382.6	32.5°	2434.0	2579.1	2700.1	2948.0	3044.8	3223.2	3189.9	3138.5	3078.0
1714.4	35°	1774.9	1880.7	1962.3	2077.2	2201.2	2352.4	2376.5	2355.4	2331.2
1324.3	37.5°	1354.6	1463.4	1557.2	1605.5	1702.3	1820.2	1886.7	1883.7	1865.6
1079.4	40°	1100.6	1182.2	1266.9	1330.4	1396.9	1484.6	1566.2	1575.3	1575.3
907.1	42.5°	919.2	988.7	1073.4	1139.9	1188.3	1269.9	1354.6	1360.6	1354.6
768.0	45°	786.1	846.6	928.2	1006.9	1046.2	1106.6	1188.3	1206.4	1194.3
659.1	47.5°	683.3	737.8	807.3	892.0	934.3	988.7	1064.3	1085.5	1082.4
568.4	50°	586.6	650.1	719.6	789.2	843.6	895.0	967.6	991.7	982.7
483.8	52.5°	517.0	574.5	635.0	710.5	774.0	819.4	876.8	919.2	907.1
408.2	55°	432.4	501.9	565.4	628.9	707.5	755.9	810.3	861.7	849.6
344.7	57.5°	374.9	432.4	504.9	562.4	641.0	698.5	752.9	807.3	804.3
281.2	60°	314.5	374.9	444.5	504.9	577.5	641.0	695.4	755.9	761.9
211.7	62.5°	247.9	320.5	381.0	450.5	523.1	592.6	641.0	701.5	710.5
160.3	65°	187.5	263.1	329.6	396.1	468.7	544.2	586.6	638.0	647.0
117.9	67.5°	139.1	202.6	281.2	341.7	417.3	489.8	529.1	571.5	586.6
72.6	70°	105.8	154.2	235.8	293.3	371.9	429.4	471.7	508.0	520.1
48.4	72.5°	66.5	120.9	190.5	251.0	320.5	371.9	402.1	423.3	441.4
27.2	75°	45.4	93.7	154.2	214.7	266.1	305.4	332.6	350.7	365.9
12.1	77.5°	27.2	72.6	127.0	178.4	211.7	241.9	269.1	281.2	290.3
9.1	80°	15.1	54.4	105.8	145.1	166.3	187.5	208.6	223.7	229.8
6.0	82.5°	9.1	42.3	84.7	111.9	120.9	142.1	163.3	172.3	172.3
3.0	85°	6.0	30.2	57.4	81.6	87.7	102.8	108.8	114.9	120.9
3.0	87.5°	6.0	18.1	36.3	45.4	48.4	54.4	57.4	63.5	69.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>94868.4</u>
91751.0
85948.7
76751.0
66797.3
54869.2
41879.8
30003.1
21794.1
15876.9
10785.2
6800.1
4341.9
3056.9
2322.1
1856.5
1557.2
1348.5
1194.3
1076.4
976.6
904.1
855.7
807.3
765.0
716.6
656.1
592.6
526.1
438.4
362.8
287.2
223.7
169.3
117.9
66.5
0.0

(END OF REPORT)