

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: P637313

Luminaire Tested: **IFLD-L-SA8A-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637313  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27631 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

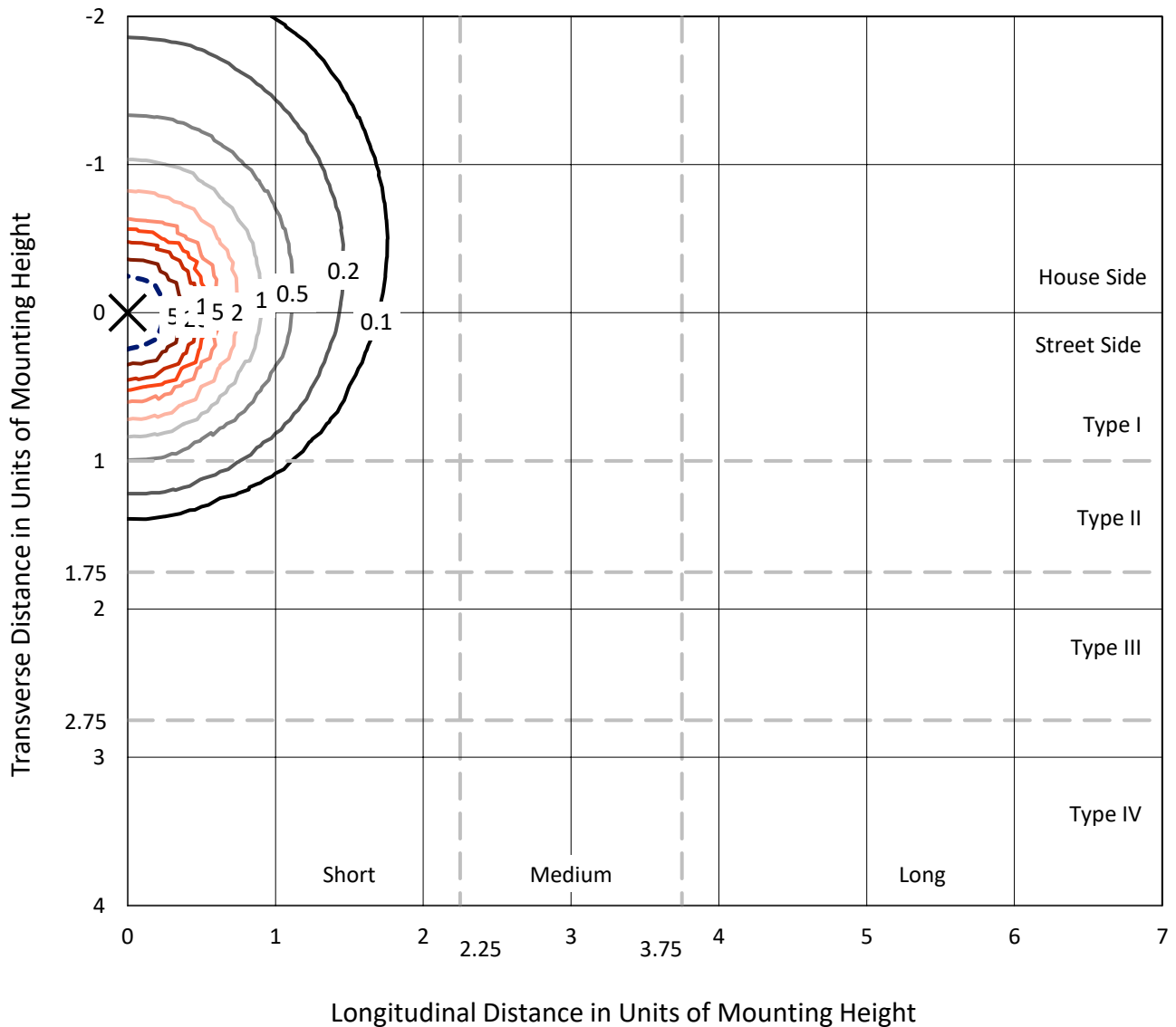
Input Watts (W): 247.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

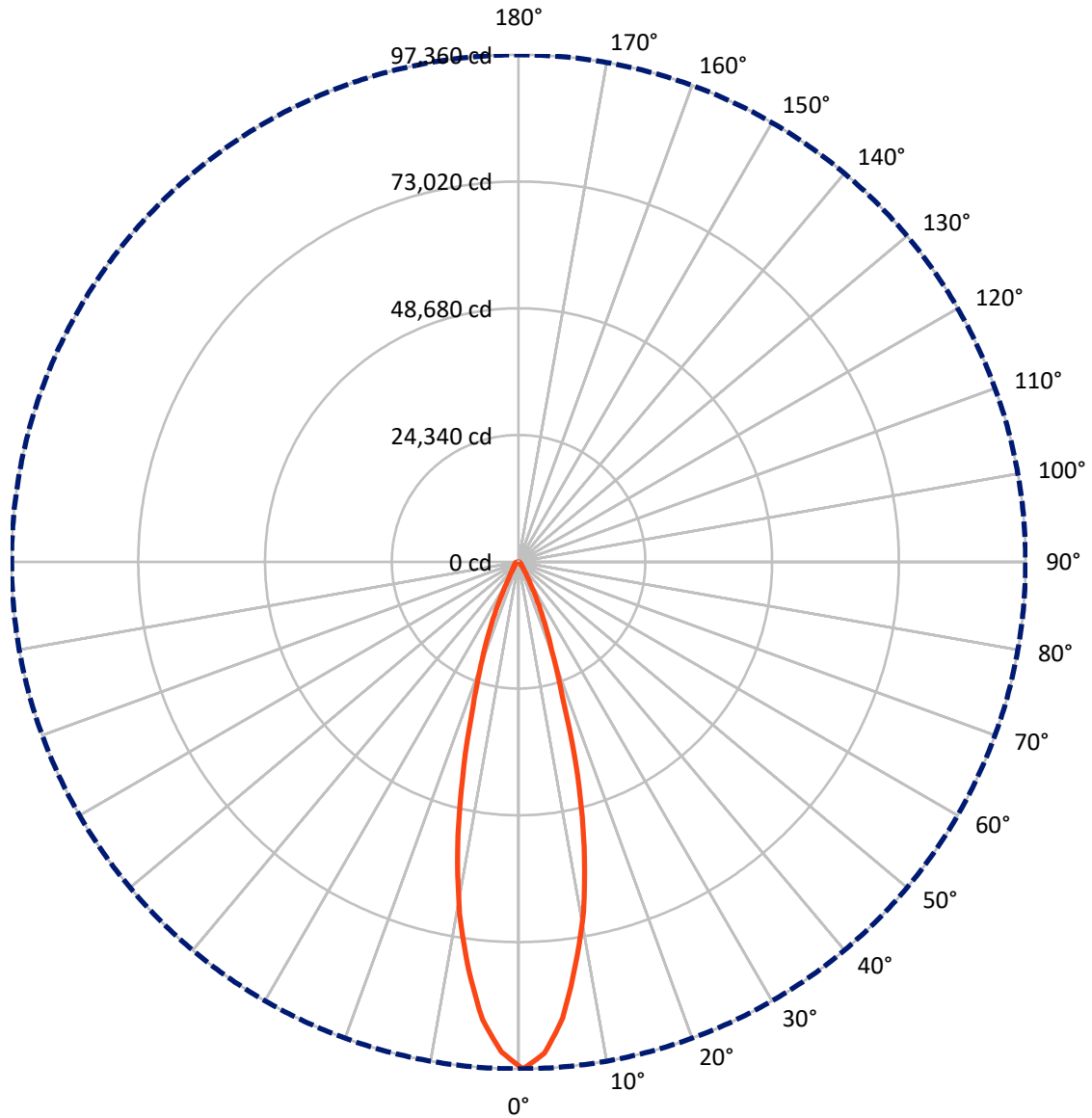
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 243.4 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	14568.9	0.0	14568.9
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	13062.0	0.0	13062.0
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	27631.0	0.0	27631.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7857.8	28.4
10°-20°	11900.6	43.1
20°-30°	5022.1	18.2
30°-40°	1309.8	4.7
40°-50°	662.5	2.4
50°-60°	433.0	1.6
60°-70°	259.4	0.9
70°-80°	136.5	0.5
80°-90°	49.3	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°	27631.0	100.0
0°-180°	27631.0	100.0

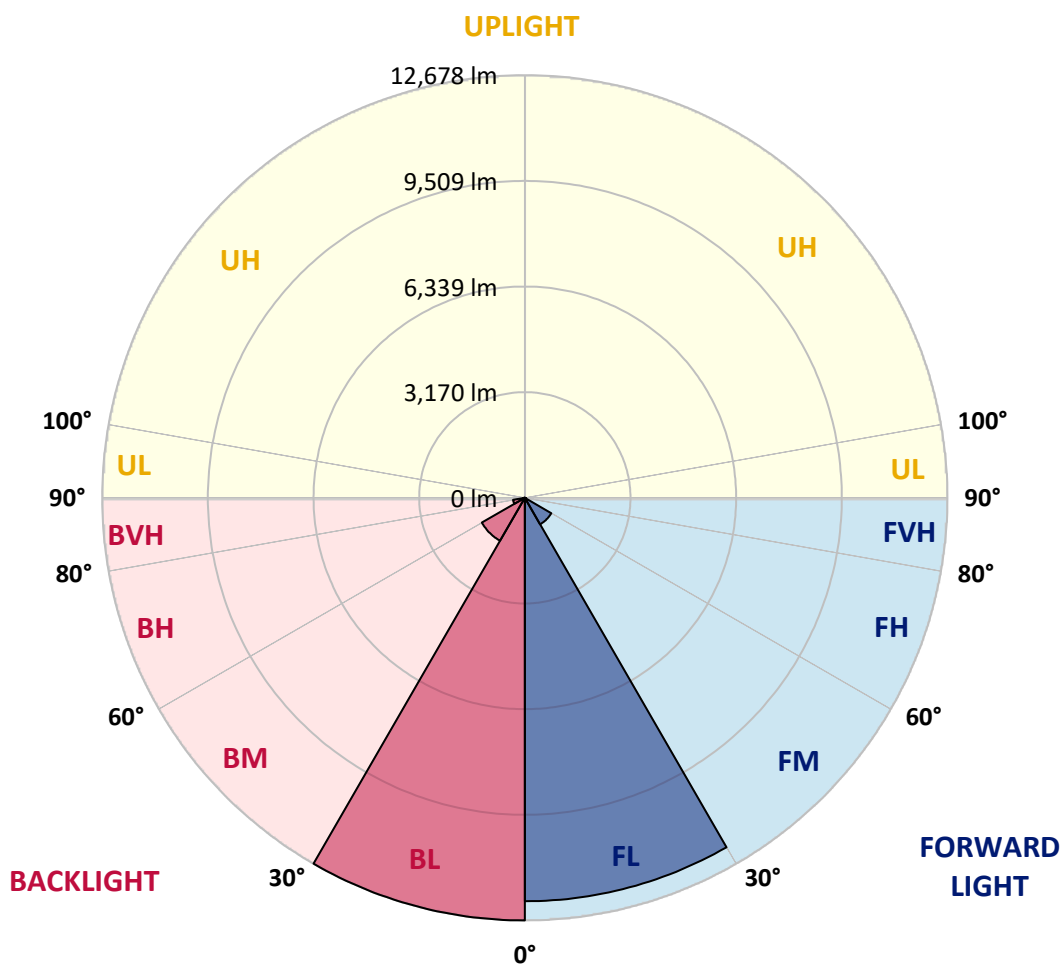


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12102.2	43.8			
FM (30°-60°)	916.5	3.3			
FH (60°-80°)	37.3	0.1			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	12678.3	45.9	B5		
BM (30°-60°)	1488.8	5.4	B2/2500		
BH (60°-80°)	358.6	1.3	B1/500		G0/660
BVH (80°-90°)	43.3	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°	97359.6	97359.6	97359.6	97359.6	97359.6	97359.6	97359.6	97359.6	97359.6	97359.6
2.5°	94523.5	94576.2	94380.8	94802.8	94473.8	95355.1	94917.6	95600.2	95370.6	95752.3
5°	88069.3	87982.4	87926.5	88581.3	88392.0	89338.4	88733.3	88534.7	89149.1	89037.4
7.5°	78322.7	78552.4	78422.0	78592.7	78688.9	79768.7	80110.1	79843.2	79852.5	80007.7
10°	68331.1	67992.9	67511.9	67831.5	68508.0	68979.6	68790.3	69181.3	69094.4	69463.7
12.5°	56037.0	56303.9	56033.9	55748.4	56930.7	56800.4	57129.3	57343.4	56806.6	58001.2
15°	42210.1	42349.7	42678.6	42656.9	43566.1	43749.2	43705.7	43932.2	43513.3	43711.9
17.5°	27117.1	27588.7	28473.1	29968.7	31650.6	31846.1	31796.4	31610.2	31408.5	31185.1
20°	18214.6	18164.9	18484.6	18922.1	22403.6	23325.2	23297.3	22713.9	21869.9	21708.6
22.5°	12759.5	12852.6	12809.2	13243.6	13963.5	16504.8	16191.4	15598.8	15322.6	15142.6
25°	8393.6	8359.5	8576.7	8707.0	9324.5	9634.8	10733.3	10513.0	10087.8	10134.4
27.5°	5116.8	5160.3	5241.0	5352.7	5790.2	5690.9	6317.7	6401.5	6265.0	6119.1
30°	3140.2	3171.3	3236.4	3317.1	3469.2	3360.5	3534.3	3835.3	3785.7	3683.3
32.5°	2131.8	2134.9	2181.4	2212.4	2193.8	2091.4	2147.3	2432.7	2439.0	2429.6
35°	1532.9	1532.9	1576.3	1601.1	1548.4	1464.6	1473.9	1650.8	1728.4	1743.9
37.5°	1058.1	1061.2	1135.7	1210.2	1151.2	1129.5	1092.3	1210.2	1334.3	1352.9
40°	803.7	800.6	837.8	893.7	899.9	859.5	871.9	946.4	1073.6	1089.2
42.5°	651.6	654.7	673.4	667.1	670.2	723.0	741.6	775.7	893.7	921.6
45°	549.2	552.3	561.6	530.6	518.2	598.9	623.7	642.3	741.6	775.7
47.5°	453.0	459.2	468.6	434.4	428.2	481.0	524.4	543.0	629.9	667.1
50°	325.8	332.0	366.2	347.5	366.2	378.6	437.5	465.4	524.4	574.1
52.5°	235.8	242.0	251.3	254.4	301.0	307.2	350.6	394.1	422.0	477.9
55°	186.2	192.4	186.2	180.0	220.3	254.4	270.0	316.5	338.2	403.4
57.5°	105.5	111.7	121.0	139.6	145.8	195.5	211.0	251.3	270.0	332.0
60°	18.6	21.7	34.1	83.8	102.4	124.1	158.3	192.4	217.2	260.7
62.5°	3.1	3.1	6.2	18.6	59.0	86.9	114.8	136.5	158.3	198.6
65°	0.0	0.0	3.1	6.2	15.5	49.6	62.1	80.7	108.6	142.7
67.5°	0.0	0.0	3.1	6.2	9.3	18.6	27.9	49.6	62.1	96.2
70°	0.0	0.0	3.1	6.2	9.3	12.4	15.5	21.7	37.2	59.0
72.5°	0.0	0.0	3.1	6.2	9.3	12.4	15.5	18.6	18.6	37.2
75°	0.0	0.0	3.1	6.2	9.3	15.5	18.6	18.6	15.5	15.5
77.5°	0.0	0.0	3.1	6.2	12.4	18.6	21.7	18.6	12.4	12.4
80°	0.0	0.0	6.2	9.3	15.5	21.7	27.9	21.7	12.4	6.2
82.5°	0.0	0.0	6.2	12.4	15.5	24.8	34.1	27.9	12.4	6.2
85°	0.0	0.0	3.1	9.3	18.6	24.8	34.1	24.8	12.4	3.1
87.5°	0.0	0.0	3.1	3.1	6.2	9.3	18.6	15.5	6.2	3.1
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°
97359.6	0°	97359.6	97359.6	97359.6	97359.6	97359.6	97359.6	97359.6	97359.6	97359.6
95029.3	2.5°	95575.4	96071.9	96174.3	96037.8	96236.4	95879.5	95606.4	94899.0	94473.8
89003.3	5°	89577.3	89502.8	90021.0	90191.7	90170.0	89896.9	89515.3	89087.0	88671.2
79706.7	7.5°	80203.2	80299.4	80771.0	81072.0	80920.0	80578.6	80314.9	79992.2	79712.9
69597.1	10°	70233.2	69572.3	70158.8	70158.8	70565.3	69600.2	69690.2	68877.2	68914.5
57979.5	12.5°	58178.1	58417.0	58513.2	58789.4	58314.6	57802.6	57175.8	57051.7	56663.8
43333.4	15°	43957.1	44639.7	44053.2	45055.5	44571.5	44037.7	43941.5	42979.6	43283.7
31430.3	17.5°	31275.1	32029.1	32265.0	32839.0	32398.4	32081.9	31681.6	31389.9	31368.2
22003.4	20°	22177.1	22934.3	23108.0	23796.9	23747.2	23647.9	23309.7	22940.5	22540.2
14978.2	22.5°	15204.7	15822.2	16399.3	17327.1	17311.6	17019.9	16985.8	16464.5	16473.8
10118.9	25°	10224.4	10674.3	10810.8	11760.4	11865.9	11834.8	11658.0	11173.9	11357.0
6181.2	27.5°	6187.4	6581.5	7043.8	7378.9	7695.4	7645.8	7468.9	7199.0	7081.0
3714.3	30°	3813.6	3990.5	4161.1	4564.5	4753.8	4853.1	4769.3	4518.0	4536.6
2445.2	32.5°	2497.9	2646.9	2771.0	3025.4	3124.7	3307.8	3273.7	3220.9	3158.9
1759.4	35°	1821.5	1930.1	2013.8	2131.8	2259.0	2414.1	2439.0	2417.2	2392.4
1359.1	37.5°	1390.1	1501.9	1598.0	1647.7	1747.0	1868.0	1936.3	1933.2	1914.5
1107.8	40°	1129.5	1213.3	1300.2	1365.3	1433.6	1523.6	1607.4	1616.7	1616.7
930.9	42.5°	943.3	1014.7	1101.6	1169.8	1219.5	1303.3	1390.1	1396.3	1390.1
788.2	45°	806.8	868.8	952.6	1033.3	1073.6	1135.7	1219.5	1238.1	1225.7
676.5	47.5°	701.3	757.1	828.5	915.4	958.8	1014.7	1092.3	1114.0	1110.9
583.4	50°	602.0	667.1	738.5	809.9	865.7	918.5	993.0	1017.8	1008.5
496.5	52.5°	530.6	589.6	651.6	729.2	794.4	840.9	899.9	943.3	930.9
418.9	55°	443.7	515.1	580.3	645.4	726.1	775.7	831.6	884.4	871.9
353.7	57.5°	384.8	443.7	518.2	577.2	657.8	716.8	772.6	828.5	825.4
288.6	60°	322.7	384.8	456.1	518.2	592.7	657.8	713.7	775.7	782.0
217.2	62.5°	254.4	328.9	391.0	462.3	536.8	608.2	657.8	719.9	729.2
164.5	65°	192.4	270.0	338.2	406.5	481.0	558.5	602.0	654.7	664.0
121.0	67.5°	142.7	207.9	288.6	350.6	428.2	502.7	543.0	586.5	602.0
74.5	70°	108.6	158.3	242.0	301.0	381.7	440.6	484.1	521.3	533.7
49.6	72.5°	68.3	124.1	195.5	257.5	328.9	381.7	412.7	434.4	453.0
27.9	75°	46.5	96.2	158.3	220.3	273.1	313.4	341.3	359.9	375.5
12.4	77.5°	27.9	74.5	130.3	183.1	217.2	248.2	276.2	288.6	297.9
9.3	80°	15.5	55.9	108.6	148.9	170.7	192.4	214.1	229.6	235.8
6.2	82.5°	9.3	43.4	86.9	114.8	124.1	145.8	167.6	176.9	176.9
3.1	85°	6.2	31.0	59.0	83.8	90.0	105.5	111.7	117.9	124.1
3.1	87.5°	6.2	18.6	37.2	46.5	49.6	55.9	59.0	65.2	71.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
97359.6  
94160.4  
88205.8  
78766.5  
68551.4  
56310.1  
42979.6  
30791.0  
22366.4  
16293.8  
11068.4  
6978.6  
4455.9  
3137.1  
2383.1  
1905.2  
1598.0  
1383.9  
1225.7  
1104.7  
1002.3  
927.8  
878.1  
828.5  
785.1  
735.4  
673.4  
608.2  
539.9  
449.9  
372.4  
294.8  
229.6  
173.8  
121.0  
68.3  
0.0

(END OF REPORT)