

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: P637364

Luminaire Tested: **IFLD-M-SA4D-735-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637364  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-735-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29759.4 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

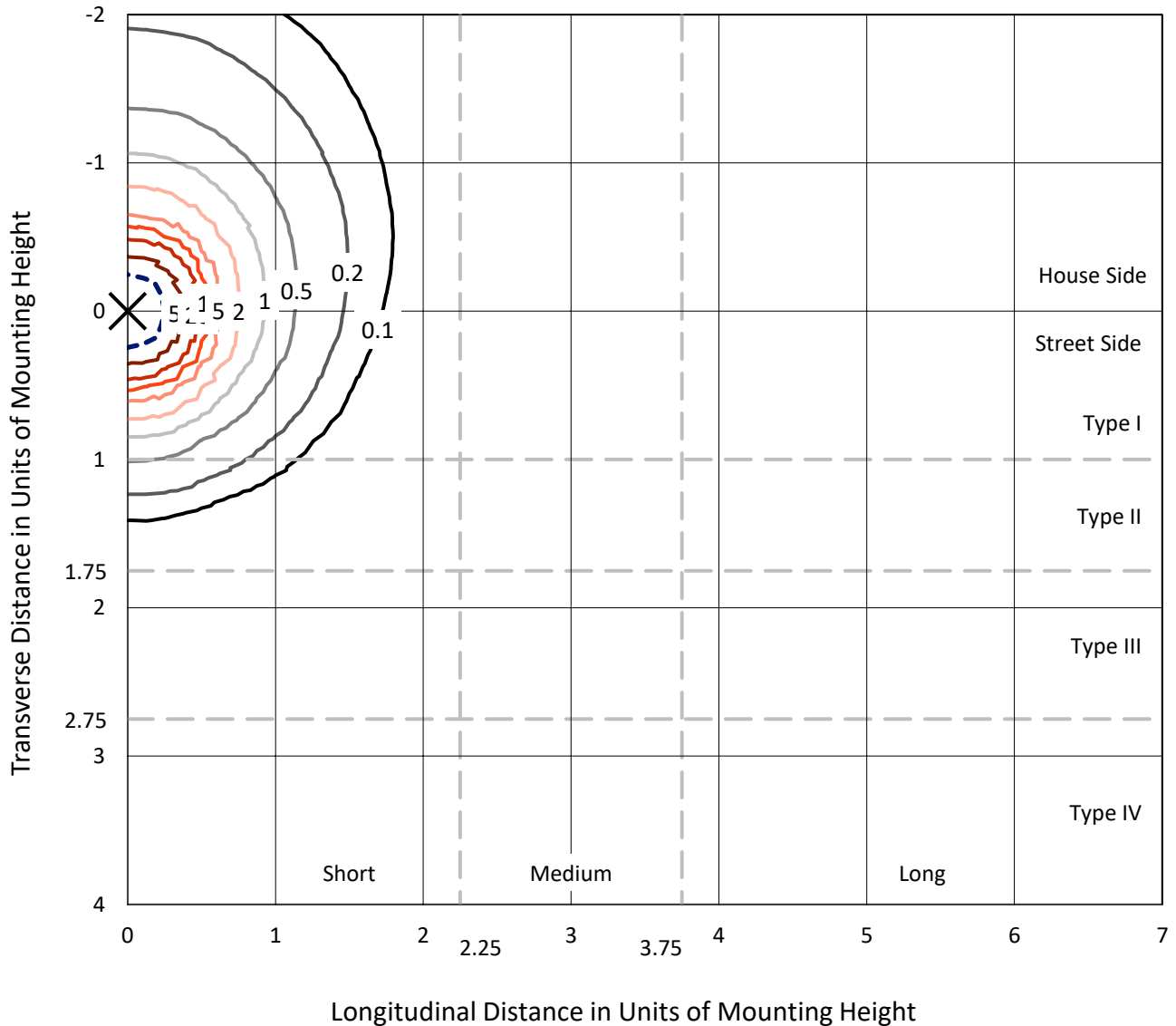
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

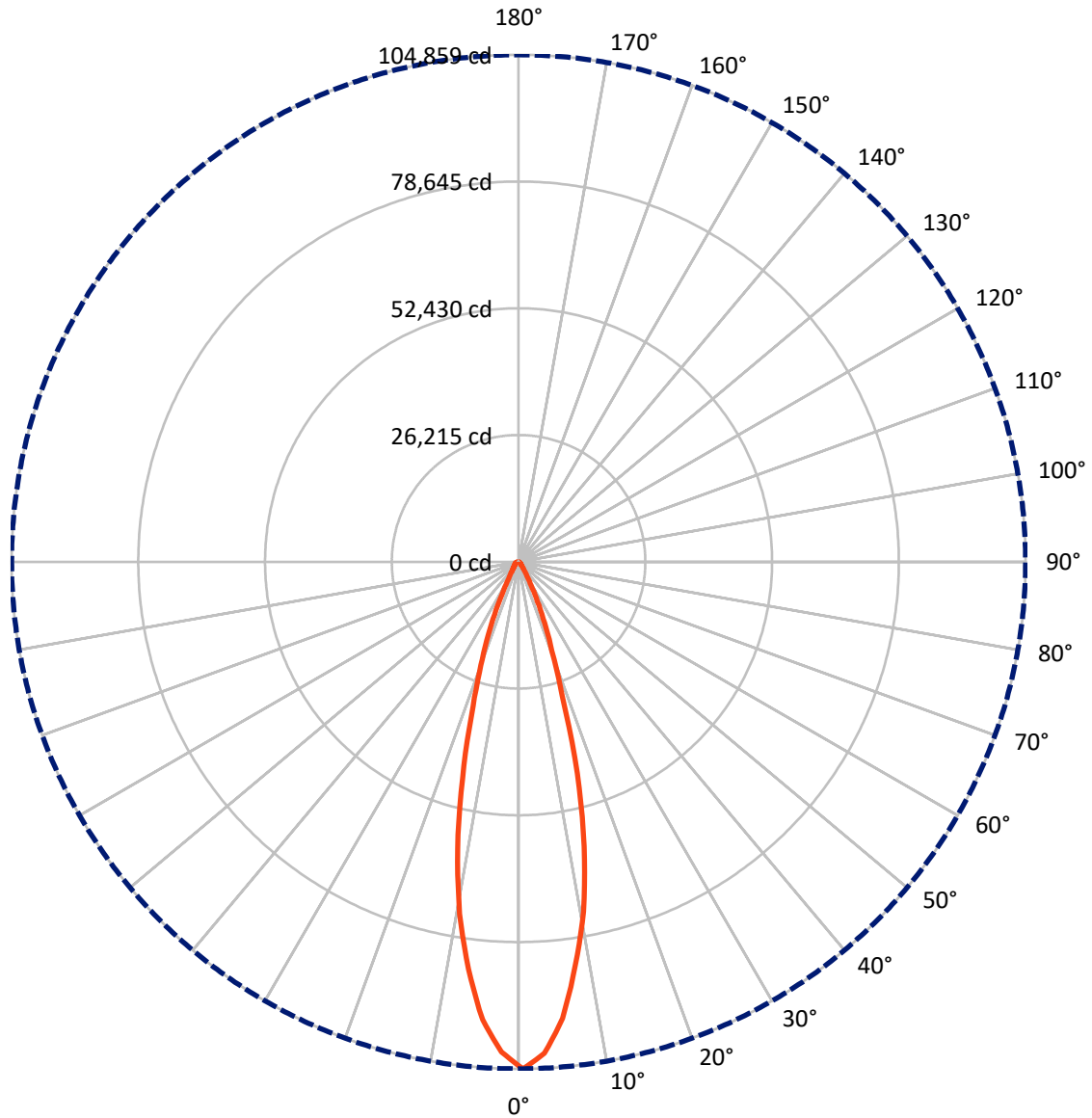
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 262.1 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	15691.2	0.0	15691.2
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	14068.3	0.0	14068.3
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	29759.4	0.0	29759.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8463.1	28.4
10°-20°	12817.3	43.1
20°-30°	5409.0	18.2
30°-40°	1410.7	4.7
40°-50°	713.5	2.4
50°-60°	466.4	1.6
60°-70°	279.4	0.9
70°-80°	147.0	0.5
80°-90°	53.1	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°	29759.4	100.0
0°-180°	29759.4	100.0

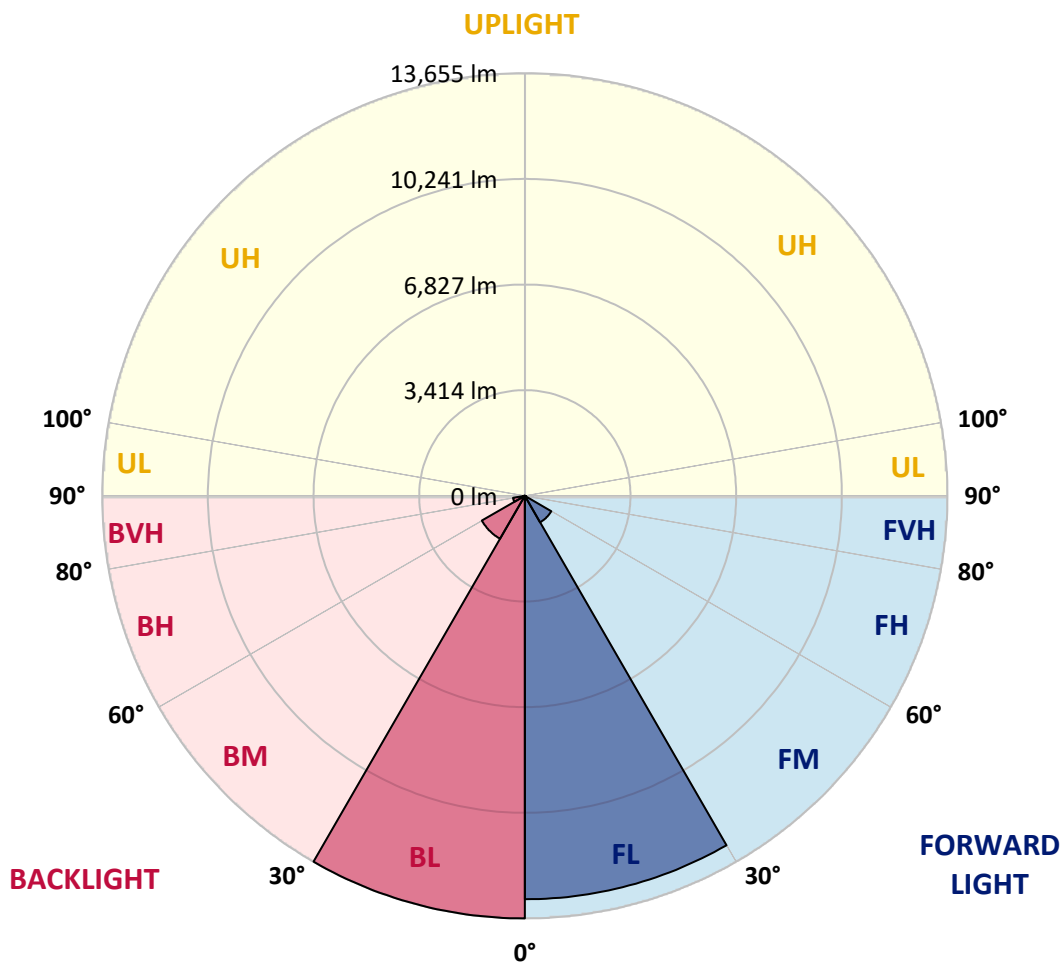


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13034.4	43.8			
FM (30°-60°)	987.1	3.3			
FH (60°-80°)	40.2	0.1			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	13654.9	45.9	B5		
BM (30°-60°)	1603.5	5.4	B2/2500		
BH (60°-80°)	386.2	1.3	B1/500		G0/660
BVH (80°-90°)	46.6	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°	104859.4	104859.4	104859.4	104859.4	104859.4	104859.4	104859.4	104859.4	104859.4	104859.4
2.5°	101804.8	101861.6	101651.1	102105.6	101751.3	102700.5	102229.3	102964.5	102717.2	103128.3
5°	94853.4	94759.8	94699.7	95404.8	95201.0	96220.3	95568.6	95354.7	96016.4	95896.1
7.5°	84356.1	84603.4	84463.0	84646.9	84750.5	85913.5	86281.1	85993.7	86003.7	86170.8
10°	73594.8	73230.5	72712.5	73056.7	73785.3	74293.3	74089.4	74510.5	74416.9	74814.6
12.5°	60353.7	60641.1	60350.3	60042.9	61316.2	61175.8	61530.1	61760.7	61182.5	62469.2
15°	45461.6	45612.0	45966.2	45942.8	46922.1	47119.2	47072.4	47316.4	46865.2	47079.1
17.5°	29206.0	29714.0	30666.4	32277.3	34088.7	34299.2	34245.7	34045.2	33828.0	33587.4
20°	19617.7	19564.2	19908.5	20379.7	24129.4	25122.0	25091.9	24463.6	23554.6	23380.8
22.5°	13742.4	13842.7	13795.9	14263.8	15039.1	17776.2	17438.7	16800.4	16502.9	16309.1
25°	9040.2	9003.4	9237.4	9377.7	10042.8	10377.0	11560.1	11322.8	10864.9	10915.1
27.5°	5511.0	5557.8	5644.7	5765.0	6236.2	6129.3	6804.4	6894.6	6747.6	6590.5
30°	3382.1	3415.6	3485.7	3572.6	3736.4	3619.4	3806.6	4130.7	4077.3	3967.0
32.5°	2296.0	2299.3	2349.4	2382.9	2362.8	2252.5	2312.7	2620.1	2626.8	2616.8
35°	1651.0	1651.0	1697.7	1724.5	1667.7	1577.4	1587.5	1778.0	1861.5	1878.2
37.5°	1139.6	1143.0	1223.2	1303.4	1239.9	1216.5	1176.4	1303.4	1437.1	1457.1
40°	865.6	862.2	902.3	962.5	969.2	925.7	939.1	1019.3	1156.3	1173.1
42.5°	701.8	705.2	725.2	718.5	721.9	778.7	798.7	835.5	962.5	992.6
45°	591.5	594.9	604.9	571.5	558.1	645.0	671.7	691.8	798.7	835.5
47.5°	487.9	494.6	504.6	467.9	461.2	518.0	564.8	584.9	678.4	718.5
50°	350.9	357.6	394.4	374.3	394.4	407.7	471.2	501.3	564.8	618.3
52.5°	254.0	260.7	270.7	274.0	324.2	330.9	377.6	424.4	454.5	514.7
55°	200.5	207.2	200.5	193.8	237.3	274.0	290.8	340.9	364.3	434.5
57.5°	113.6	120.3	130.3	150.4	157.1	210.5	227.3	270.7	290.8	357.6
60°	20.1	23.4	36.8	90.2	110.3	133.7	170.4	207.2	233.9	280.7
62.5°	3.3	3.3	6.7	20.1	63.5	93.6	123.7	147.0	170.4	213.9
65°	0.0	0.0	3.3	6.7	16.7	53.5	66.8	86.9	117.0	153.7
67.5°	0.0	0.0	3.3	6.7	10.0	20.1	30.1	53.5	66.8	103.6
70°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	23.4	40.1	63.5
72.5°	0.0	0.0	3.3	6.7	10.0	13.4	16.7	20.1	20.1	40.1
75°	0.0	0.0	3.3	6.7	10.0	16.7	20.1	20.1	16.7	16.7
77.5°	0.0	0.0	3.3	6.7	13.4	20.1	23.4	20.1	13.4	13.4
80°	0.0	0.0	6.7	10.0	16.7	23.4	30.1	23.4	13.4	6.7
82.5°	0.0	0.0	6.7	13.4	16.7	26.7	36.8	30.1	13.4	6.7
85°	0.0	0.0	3.3	10.0	20.1	26.7	36.8	26.7	13.4	3.3
87.5°	0.0	0.0	3.3	3.3	6.7	10.0	20.1	16.7	6.7	3.3
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°
104859.4	0°	104859.4	104859.4	104859.4	104859.4	104859.4	104859.4	104859.4	104859.4	104859.4
102349.6	2.5°	102937.8	103472.5	103582.8	103435.7	103649.6	103265.3	102971.2	102209.2	101751.3
95859.4	5°	96477.6	96397.4	96955.5	97139.3	97116.0	96821.9	96410.8	95949.6	95501.8
85846.6	7.5°	86381.4	86485.0	86993.0	87317.1	87153.4	86785.7	86501.7	86154.1	85853.3
74958.3	10°	75643.4	74931.6	75563.2	75563.2	76001.0	74961.7	75058.6	74183.0	74223.1
62445.8	12.5°	62659.7	62917.0	63020.6	63318.0	62806.7	62255.3	61580.2	61446.5	61028.7
46671.4	15°	47343.2	48078.4	47446.8	48526.2	48004.9	47430.0	47326.4	46290.4	46617.9
33851.4	17.5°	33684.3	34496.4	34750.4	35368.7	34894.1	34553.2	34122.1	33807.9	33784.5
23698.3	20°	23885.5	24700.9	24888.1	25630.0	25576.5	25469.6	25105.3	24707.6	24276.5
16132.0	22.5°	16375.9	17041.0	17662.6	18661.9	18645.2	18331.0	18294.3	17732.8	17742.8
10898.3	25°	11012.0	11496.6	11643.6	12666.3	12779.9	12746.5	12556.0	12034.6	12231.8
6657.3	27.5°	6664.0	7088.4	7586.4	7947.3	8288.2	8234.8	8044.3	7753.5	7626.5
4000.4	30°	4107.4	4297.8	4481.7	4916.1	5120.0	5226.9	5136.7	4866.0	4886.0
2633.5	32.5°	2690.3	2850.7	2984.4	3258.5	3365.4	3562.6	3525.8	3469.0	3402.2
1894.9	35°	1961.8	2078.7	2169.0	2296.0	2433.0	2600.1	2626.8	2603.4	2576.7
1463.8	37.5°	1497.2	1617.5	1721.1	1774.6	1881.6	2011.9	2085.4	2082.1	2062.0
1193.1	40°	1216.5	1306.7	1400.3	1470.5	1544.0	1640.9	1731.2	1741.2	1741.2
1002.6	42.5°	1016.0	1092.8	1186.4	1259.9	1313.4	1403.7	1497.2	1503.9	1497.2
848.9	45°	868.9	935.8	1026.0	1112.9	1156.3	1223.2	1313.4	1333.5	1320.1
728.6	47.5°	755.3	815.5	892.3	985.9	1032.7	1092.8	1176.4	1199.8	1196.4
628.3	50°	648.4	718.5	795.4	872.3	932.4	989.2	1069.4	1096.2	1086.2
534.7	52.5°	571.5	635.0	701.8	785.4	855.6	905.7	969.2	1016.0	1002.6
451.2	55°	477.9	554.8	625.0	695.1	782.0	835.5	895.7	952.5	939.1
381.0	57.5°	414.4	477.9	558.1	621.6	708.5	772.0	832.2	892.3	889.0
310.8	60°	347.6	414.4	491.3	558.1	638.3	708.5	768.7	835.5	842.2
233.9	62.5°	274.0	354.3	421.1	498.0	578.2	655.0	708.5	775.4	785.4
177.1	65°	207.2	290.8	364.3	437.8	518.0	601.6	648.4	705.2	715.2
130.3	67.5°	153.7	223.9	310.8	377.6	461.2	541.4	584.9	631.6	648.4
80.2	70°	117.0	170.4	260.7	324.2	411.1	474.6	521.4	561.5	574.8
53.5	72.5°	73.5	133.7	210.5	277.4	354.3	411.1	444.5	467.9	487.9
30.1	75°	50.1	103.6	170.4	237.3	294.1	337.5	367.6	387.7	404.4
13.4	77.5°	30.1	80.2	140.4	197.2	233.9	267.4	297.4	310.8	320.8
10.0	80°	16.7	60.2	117.0	160.4	183.8	207.2	230.6	247.3	254.0
6.7	82.5°	10.0	46.8	93.6	123.7	133.7	157.1	180.5	190.5	190.5
3.3	85°	6.7	33.4	63.5	90.2	96.9	113.6	120.3	127.0	133.7
3.3	87.5°	6.7	20.1	40.1	50.1	53.5	60.2	63.5	70.2	76.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
104859.4  
101413.8  
95000.5  
84834.0  
73832.1  
60647.8  
46290.4  
33162.9  
24089.3  
17549.0  
11921.0  
7516.2  
4799.2  
3378.8  
2566.7  
2052.0  
1721.1  
1490.5  
1320.1  
1189.8  
1079.5  
999.3  
945.8  
892.3  
845.5  
792.1  
725.2  
655.0  
581.5  
484.6  
401.0  
317.5  
247.3  
187.2  
130.3  
73.5  
0.0

(END OF REPORT)