

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: P638088

Luminaire Tested: **IFLD-M-SA4C-727-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638088  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-727-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18289.2 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

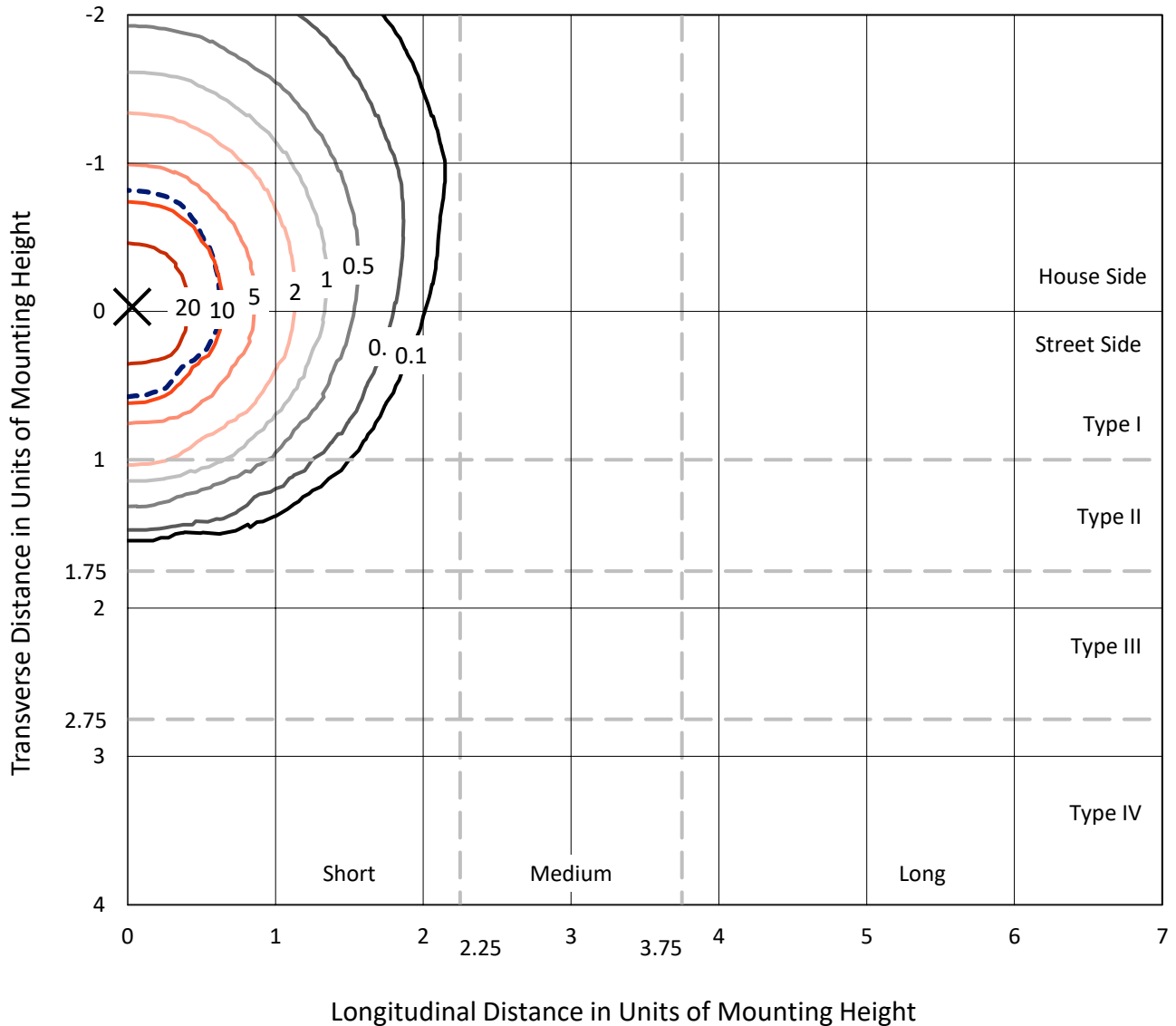
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

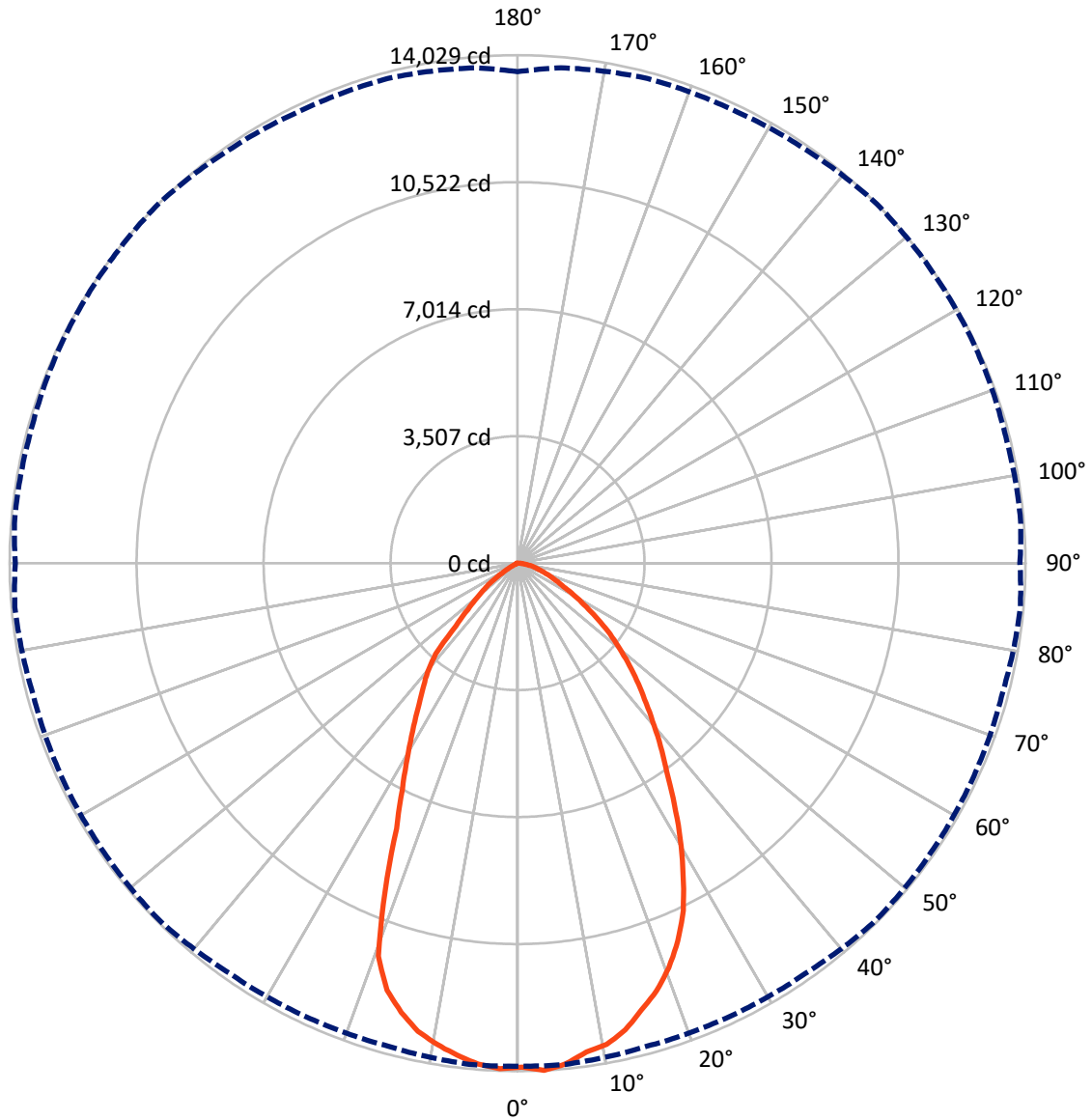
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 34.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10831.8	0.0	10831.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	7457.4	0.0	7457.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	18289.2	0.0	18289.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1305.3	7.1
10°-20°	3500.2	19.1
20°-30°	4268.7	23.3
30°-40°	3897.3	21.3
40°-50°	2816.5	15.4
50°-60°	1537.8	8.4
60°-70°	635.8	3.5
70°-80°	257.5	1.4
80°-90°	70.1	0.4
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°	18289.2	100.0
0°-180°	18289.2	100.0



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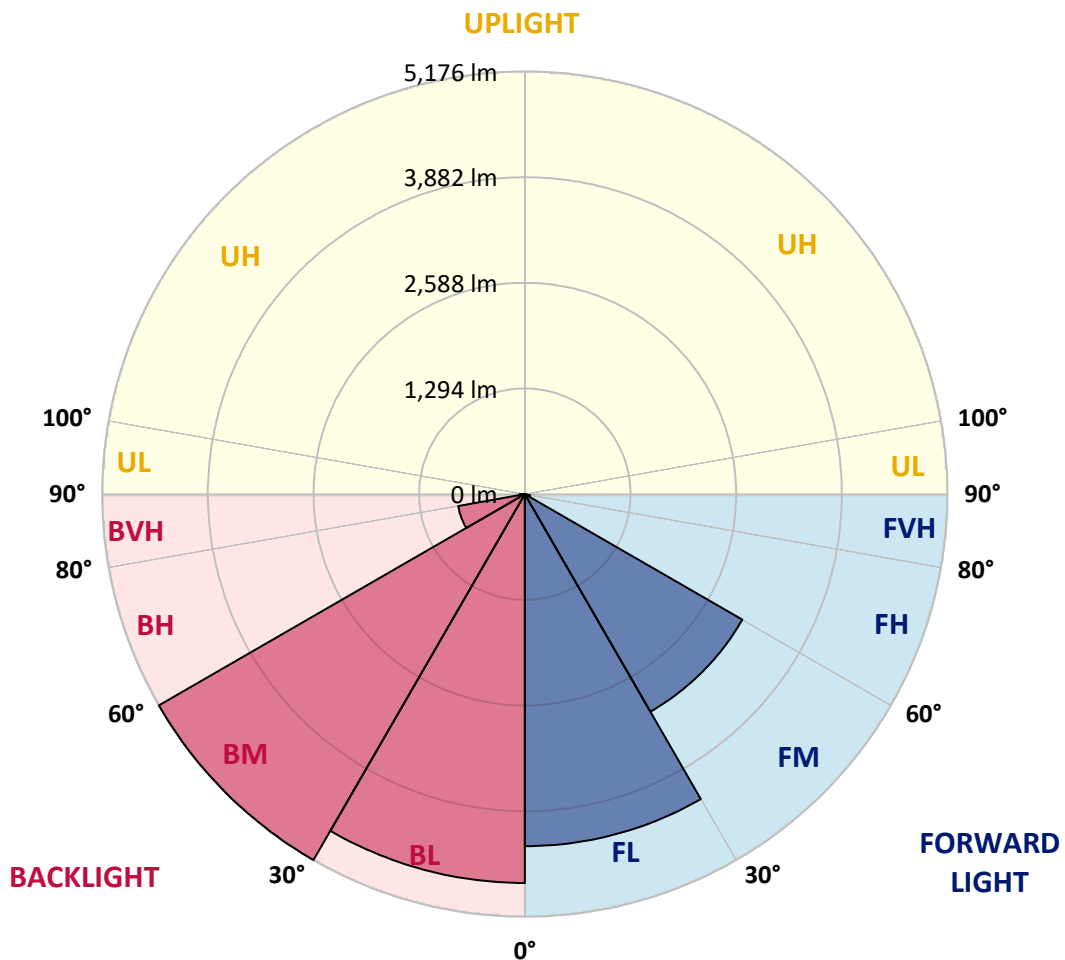
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4311.4	23.6			
FM (30°-60°)	3075.9	16.8			
FH (60°-80°)	64.5	0.4			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	4762.8	26.0	B4/5000		
BM (30°-60°)	5175.7	28.3	B4/8500		
BH (60°-80°)	828.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	64.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13918.0	13918.0	13918.0	13918.0	13918.0	13918.0	13918.0	13918.0	13918.0	13918.0
2.5°	13892.3	13910.3	13812.4	13822.7	13840.8	13972.1	13938.6	13907.7	13864.0	13938.6
5°	13874.3	13884.6	13781.5	13745.5	13760.9	13879.4	13771.2	13771.2	13760.9	13748.1
7.5°	13735.2	13740.3	13660.5	13596.1	13637.3	13691.4	13611.6	13650.2	13593.5	13637.3
10°	13526.6	13493.1	13397.8	13379.8	13426.1	13477.6	13423.5	13459.6	13408.1	13441.6
12.5°	13220.1	13168.6	13091.3	13068.1	13148.0	13217.5	13173.7	13153.1	13086.1	13168.6
15°	12037.9	11999.3	12174.4	12480.9	12756.5	12815.7	12769.4	12790.0	12650.9	12674.1
17.5°	9908.0	9835.9	10023.9	10750.2	11785.5	12331.5	12290.3	12156.4	11950.3	11996.7
20°	9004.0	8983.4	8962.8	9135.3	9859.0	11515.1	11571.7	11231.8	10938.2	10873.8
22.5°	8494.0	8486.3	8465.7	8504.3	8694.9	9758.6	10407.6	10093.4	9897.7	9879.6
25°	8027.9	8015.0	7953.2	8002.1	8002.1	8063.9	8895.8	9086.4	8913.8	8893.2
27.5°	7554.0	7530.8	7520.5	7543.7	7425.2	7008.0	7219.1	8148.9	8058.8	8063.9
30°	7041.4	7033.7	7005.4	7054.3	6688.6	6170.9	6037.0	7299.0	7317.0	7311.9
32.5°	6279.1	6312.6	6441.3	6495.4	5892.8	5465.2	5241.2	6315.1	6683.4	6675.7
35°	4561.2	4561.2	4981.0	5761.4	5163.9	4842.0	4720.9	5354.5	6057.6	6083.3
37.5°	3749.9	3762.8	3845.2	4200.7	4455.6	4342.3	4306.2	4507.1	5254.0	5295.2
40°	3373.9	3373.9	3373.9	3227.1	3219.4	3912.2	3891.6	3827.2	4538.0	4628.2
42.5°	3031.4	3039.1	3044.2	2673.4	2467.3	3381.6	3335.3	3237.4	3896.7	4002.3
45°	2678.5	2691.4	2706.9	2235.5	2145.4	2433.9	2822.8	2714.6	3263.2	3399.7
47.5°	1635.4	1656.1	2006.3	1895.6	1905.9	1877.5	2302.5	2284.5	2676.0	2869.1
50°	1104.9	1112.6	1146.1	1202.8	1635.4	1475.8	1630.3	1890.4	2032.1	2325.7
52.5°	927.2	940.1	857.6	780.4	1074.0	1153.8	1138.4	1403.7	1460.3	1823.5
55°	651.6	692.8	654.2	646.5	610.4	896.3	862.8	1079.1	1115.2	1385.6
57.5°	67.0	77.3	133.9	481.6	399.2	507.4	615.5	790.7	826.7	1022.5
60°	5.2	5.2	12.9	67.0	291.0	303.9	425.0	486.8	556.3	713.4
62.5°	0.0	2.6	5.2	10.3	46.4	162.3	213.8	255.0	334.8	461.0
65°	0.0	0.0	2.6	7.7	10.3	61.8	82.4	133.9	182.9	285.9
67.5°	0.0	0.0	2.6	5.2	7.7	15.5	28.3	48.9	97.9	162.3
70°	0.0	0.0	2.6	5.2	7.7	12.9	20.6	30.9	43.8	87.6
72.5°	0.0	0.0	2.6	2.6	5.2	12.9	15.5	20.6	30.9	43.8
75°	0.0	0.0	2.6	2.6	7.7	15.5	12.9	15.5	20.6	28.3
77.5°	0.0	0.0	2.6	5.2	7.7	15.5	12.9	15.5	15.5	18.0
80°	0.0	0.0	2.6	5.2	10.3	18.0	15.5	15.5	12.9	12.9
82.5°	0.0	0.0	2.6	7.7	10.3	23.2	23.2	20.6	10.3	7.7
85°	0.0	0.0	5.2	10.3	15.5	25.8	25.8	20.6	7.7	5.2
87.5°	0.0	0.0	5.2	7.7	12.9	18.0	25.8	20.6	7.7	2.6
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°
13918.0	0°	13918.0	13918.0	13918.0	13918.0	13918.0	13918.0	13918.0	13918.0	13918.0
13874.3	2.5°	13943.8	13928.3	13979.8	14000.5	14028.8	13920.6	13853.6	13856.2	13732.6
13717.1	5°	13799.6	13802.1	13869.1	13864.0	13892.3	13833.0	13807.3	13763.5	13655.3
13518.8	7.5°	13616.7	13593.5	13657.9	13706.8	13634.7	13675.9	13616.7	13637.3	13572.9
13343.7	10°	13475.0	13421.0	13480.2	13513.7	13516.3	13475.0	13418.4	13364.3	13341.1
13070.7	12.5°	13160.8	13091.3	13191.7	13238.1	13230.4	13150.5	13086.1	13099.0	13024.3
12591.6	15°	12728.2	12730.7	12802.8	12846.6	12805.4	12787.4	12792.5	12761.6	12697.2
11929.7	17.5°	12066.2	12104.9	12295.5	12401.1	12424.2	12388.2	12370.2	12334.1	12269.7
10873.8	20°	10963.9	11195.7	11535.7	11862.8	11927.2	11916.9	11852.5	11837.0	11801.0
9828.1	22.5°	9995.5	10168.1	10562.2	11072.1	11334.8	11360.6	11283.3	11260.1	11221.5
8893.2	25°	8993.7	9179.1	9534.5	10088.3	10631.7	10742.4	10729.6	10660.0	10618.8
8063.9	27.5°	8148.9	8334.3	8656.3	9155.9	9738.0	10093.4	10126.9	10016.1	10013.6
7324.7	30°	7386.6	7641.5	7886.2	8293.1	8857.2	9390.3	9447.0	9369.7	9377.4
6647.4	32.5°	6789.0	7000.2	7208.8	7481.8	7950.6	8571.3	8792.8	8720.7	8692.3
6083.3	35°	6178.6	6322.9	6536.6	6786.5	7105.8	7721.4	8105.1	8051.0	8022.7
5321.0	37.5°	5483.3	5730.5	5885.0	6165.8	6415.6	6904.9	7445.8	7438.1	7378.8
4672.0	40°	4769.8	5030.0	5264.3	5547.6	5740.8	6129.7	6729.8	6727.2	6734.9
3999.8	42.5°	4123.4	4362.9	4646.2	4955.3	5140.7	5424.0	6067.9	6103.9	6147.7
3446.0	45°	3538.7	3755.1	4017.8	4393.8	4617.9	4780.1	5351.9	5516.7	5514.2
2951.5	47.5°	3013.3	3216.8	3438.3	3804.0	4089.9	4236.7	4710.6	4945.0	4929.5
2421.0	50°	2529.1	2709.4	2941.2	3206.5	3590.3	3719.0	4071.9	4380.9	4357.8
1929.1	52.5°	2034.6	2284.5	2480.2	2722.3	3126.7	3252.9	3525.9	3827.2	3809.2
1447.4	55°	1586.5	1828.6	2065.6	2274.2	2614.1	2802.2	2997.9	3306.9	3301.8
1133.2	57.5°	1200.2	1465.5	1689.5	1887.8	2158.3	2390.1	2547.2	2827.9	2864.0
775.2	60°	888.5	1092.0	1334.1	1555.6	1769.4	2008.9	2114.5	2390.1	2405.5
530.6	62.5°	605.2	829.3	1066.3	1267.1	1426.8	1674.1	1769.4	1996.0	2024.3
340.0	65°	419.8	564.0	834.5	978.7	1174.4	1385.6	1480.9	1661.2	1717.9
195.7	67.5°	278.2	401.8	651.6	783.0	976.1	1120.3	1241.4	1388.2	1450.0
123.6	70°	152.0	296.2	466.2	618.1	785.5	924.6	1043.1	1161.6	1215.6
56.7	72.5°	103.0	198.3	324.5	489.3	633.6	770.1	875.7	963.2	965.8
33.5	75°	51.5	133.9	247.2	378.6	494.5	628.4	723.7	775.2	713.4
20.6	77.5°	30.9	97.9	200.9	303.9	401.8	507.4	561.5	589.8	489.3
15.5	80°	18.0	69.5	157.1	242.1	278.2	373.4	425.0	432.7	327.1
10.3	82.5°	12.9	51.5	123.6	177.7	170.0	262.7	319.4	309.1	208.6
7.7	85°	7.7	36.1	77.3	110.7	103.0	172.6	185.4	190.6	121.0
5.2	87.5°	5.2	20.6	41.2	59.2	48.9	74.7	74.7	90.1	59.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
13918.0
13572.9
13629.6
13464.7
13238.1
12959.9
12632.9
12241.4
11718.6
11211.2
10575.0
10008.4
9338.8
8694.9
7984.1
7427.8
6734.9
6124.6
5519.3
4934.7
4378.4
3847.8
3314.7
2848.5
2428.7
2029.5
1705.0
1442.3
1195.0
942.6
667.1
471.3
306.5
193.2
110.7
51.5
0.0

(END OF REPORT)