

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: P638531

Luminaire Tested: **IFLD-L-SA8A-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638531
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18559.9 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

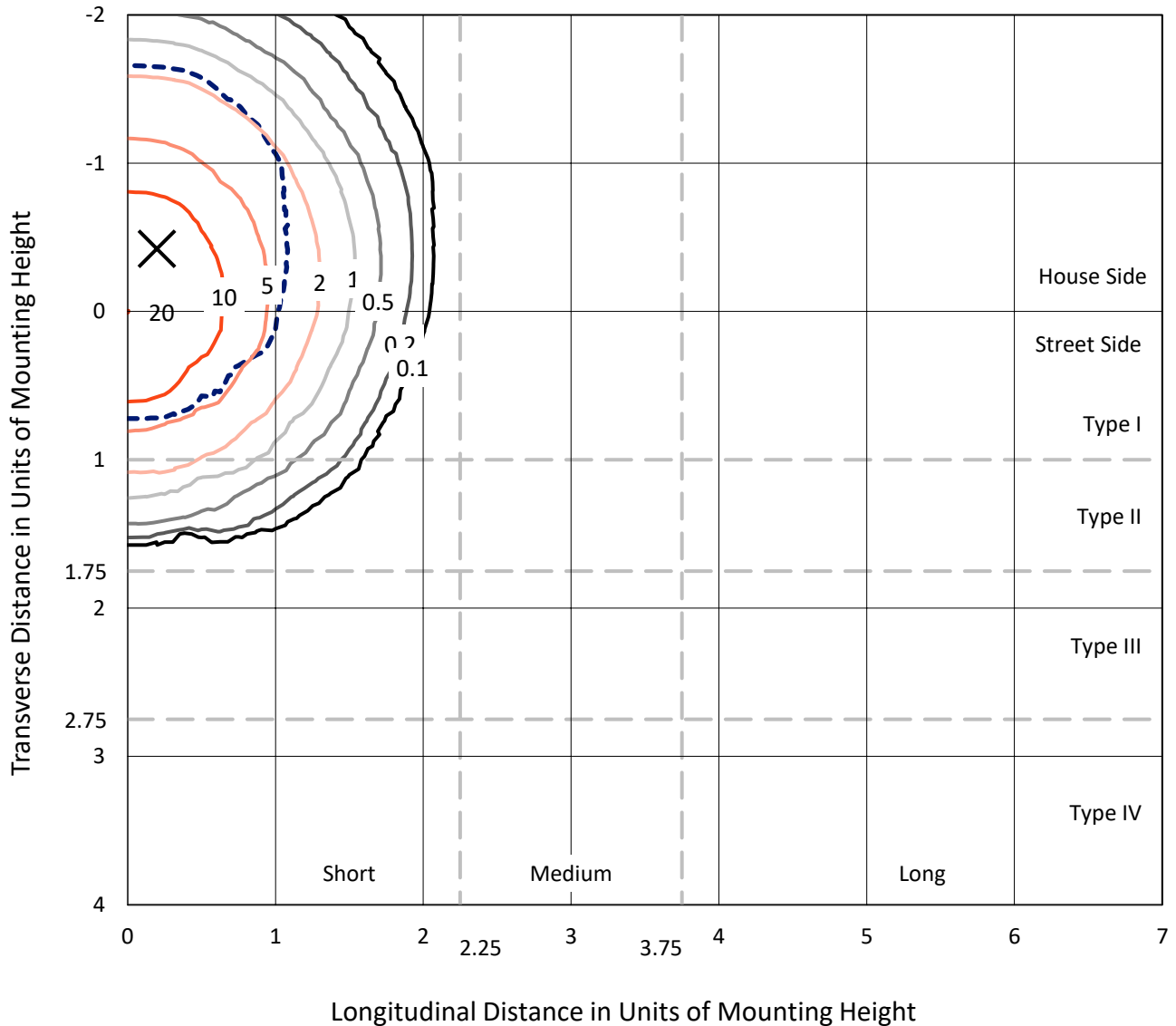
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

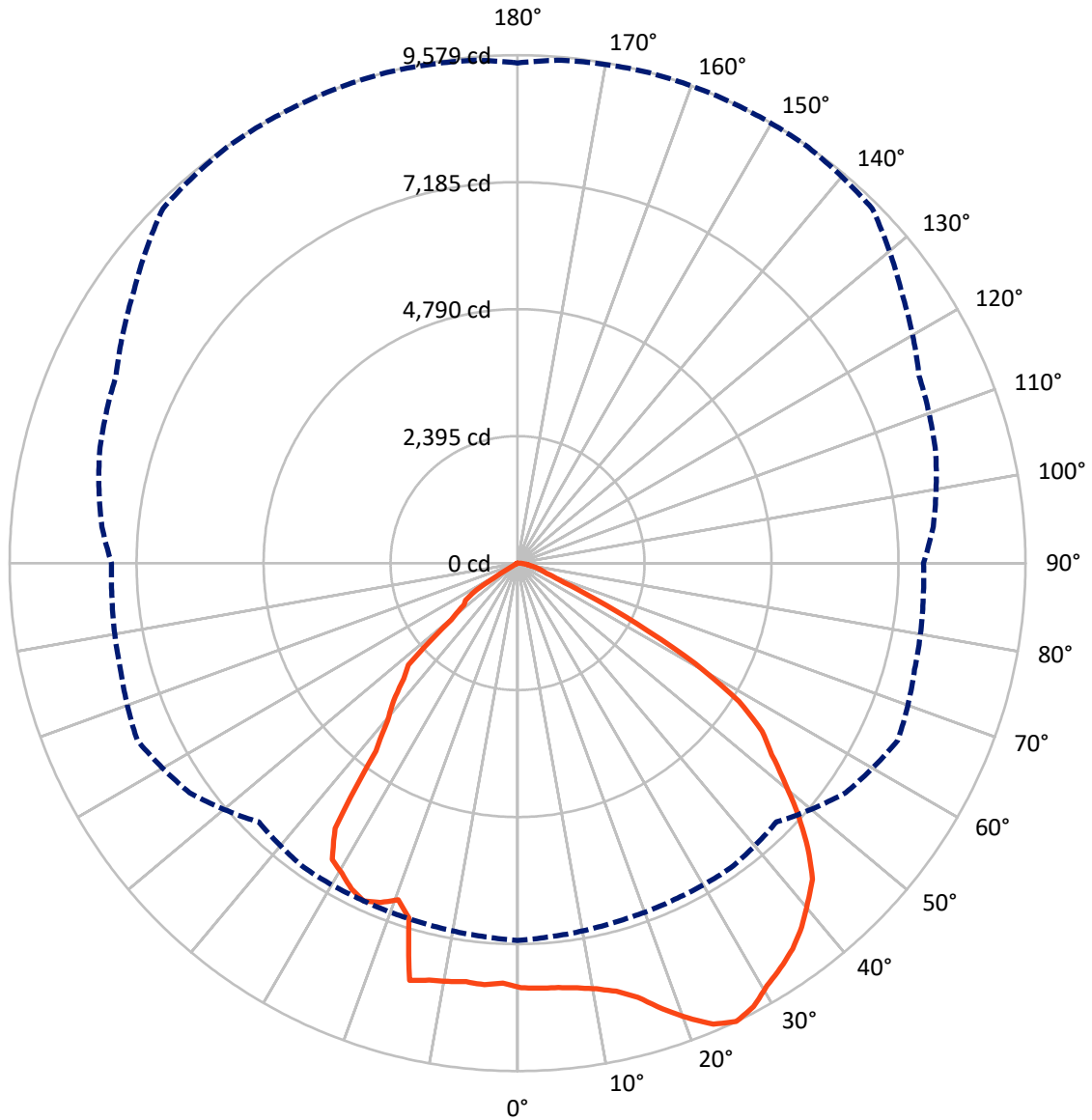
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11490.5	0.0	11490.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7069.4	0.0	7069.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	18559.9	0.0	18559.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	768.3	4.1
10°-20°	2345.9	12.6
20°-30°	3708.8	20.0
30°-40°	4189.4	22.6
40°-50°	3923.4	21.1
50°-60°	2704.9	14.6
60°-70°	726.7	3.9
70°-80°	151.4	0.8
80°-90°	41.0	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°	18559.9	100.0
0°-180°	18559.9	100.0

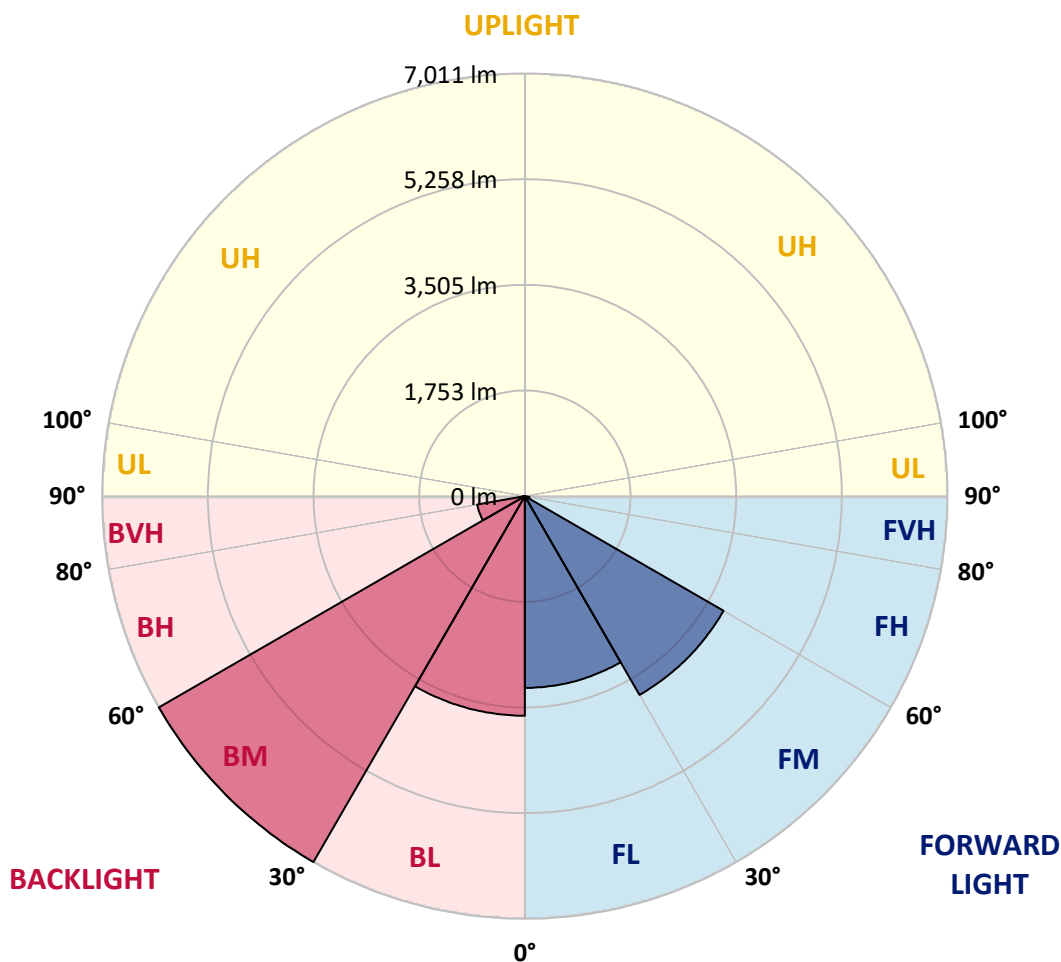


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3180.6	17.1			
FM (30°-60°)	3807.0	20.5			
FH (60°-80°)	76.3	0.4			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	3642.4	19.6	B4/5000		
BM (30°-60°)	7010.7	37.8	B4/8500		
BH (60°-80°)	801.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	35.5	0.2			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°	8008.3	8008.3	8008.3	8008.3	8008.3	8008.3	8008.3	8008.3	8008.3	8008.3
2.5°	8043.7	7991.9	7942.8	7926.4	7994.6	8068.3	8021.9	8024.6	8008.3	8038.3
5°	8103.7	8032.8	8000.1	7975.5	7986.4	8062.8	7997.3	8021.9	7994.6	8030.1
7.5°	8081.9	8032.8	8000.1	7953.7	7989.2	8079.2	8016.4	8019.2	8005.5	8038.3
10°	8068.3	8032.8	7991.9	7997.3	8038.3	8114.6	8065.5	8092.8	8073.7	8092.8
12.5°	8101.0	8062.8	8041.0	8041.0	8076.4	8163.7	8139.2	8163.7	8155.5	8171.9
15°	7792.8	7828.2	8035.5	8128.3	8199.2	8286.5	8275.6	8300.1	8305.6	8330.1
17.5°	6573.5	6538.1	6521.7	6999.0	8267.4	8537.4	8529.2	8526.5	8499.2	8480.1
20°	6734.5	6720.8	6701.7	6737.2	6879.0	8668.3	8722.9	8387.4	8289.2	8281.0
22.5°	6990.9	6969.0	6898.1	6900.8	6944.5	7536.4	8452.9	8147.4	8114.6	8095.5
25°	7116.3	7072.7	7015.4	6999.0	7012.7	6903.6	7550.0	7912.8	7751.9	7678.2
27.5°	6895.4	6898.1	6851.8	6895.4	6843.6	6352.6	6077.1	7454.6	7449.1	7416.4
30°	6729.0	6720.8	6666.3	6720.8	6363.5	5815.3	5698.0	6952.7	6895.4	6851.8
32.5°	6218.9	6224.4	6382.6	6595.4	6008.9	5575.2	5220.6	6210.8	6753.6	6729.0
35°	4448.7	4459.6	5021.5	6071.7	5471.6	5097.9	5070.6	5367.9	6529.9	6540.8
37.5°	4282.3	4282.3	4268.7	4440.5	5048.8	4904.2	4958.8	4928.8	5981.6	6008.9
40°	4162.3	4137.8	4118.7	3848.7	3510.4	4767.9	4806.0	4669.7	5654.3	5659.8
42.5°	4017.8	3990.5	3995.9	3496.8	3142.2	4429.6	4323.3	4140.5	5108.8	5114.3
45°	3753.2	3799.6	3832.3	3060.4	3033.1	3164.0	3987.8	3873.2	4740.6	4841.5
47.5°	1909.3	1950.2	2992.2	2814.9	2877.6	2812.2	3368.6	3371.3	3944.1	4279.6
50°	1732.0	1721.1	1723.8	1642.0	2656.7	2274.8	2435.8	3090.4	3158.6	3638.6
52.5°	1614.7	1612.0	1445.6	1284.7	1669.3	2002.1	1767.5	2236.6	2348.5	3082.2
55°	1194.7	1282.0	1140.1	1208.3	1044.7	1603.8	1595.7	2018.4	2056.6	2471.2
57.5°	10.9	13.6	32.7	919.2	722.8	801.9	1102.0	1377.4	1445.6	1925.7
60°	2.7	5.5	13.6	27.3	469.1	493.7	736.5	796.5	897.4	1148.3
62.5°	0.0	0.0	5.5	13.6	24.5	201.8	234.6	256.4	395.5	586.4
65°	0.0	0.0	2.7	8.2	13.6	32.7	57.3	120.0	171.8	212.8
67.5°	0.0	0.0	2.7	5.5	10.9	16.4	32.7	46.4	73.6	125.5
70°	0.0	0.0	2.7	5.5	8.2	13.6	21.8	32.7	43.6	62.7
72.5°	0.0	0.0	2.7	5.5	5.5	16.4	16.4	24.5	32.7	40.9
75°	0.0	0.0	2.7	2.7	5.5	10.9	16.4	19.1	21.8	32.7
77.5°	0.0	0.0	2.7	5.5	8.2	10.9	13.6	21.8	19.1	19.1
80°	0.0	0.0	2.7	8.2	8.2	13.6	16.4	21.8	13.6	13.6
82.5°	0.0	0.0	2.7	10.9	8.2	27.3	27.3	30.0	10.9	10.9
85°	0.0	0.0	8.2	5.5	16.4	27.3	24.5	16.4	13.6	8.2
87.5°	0.0	0.0	2.7	2.7	5.5	8.2	19.1	16.4	5.5	5.5
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°
8008.3	0°	8008.3	8008.3	8008.3	8008.3	8008.3	8008.3	8008.3	8008.3	8008.3
7959.2	2.5°	8068.3	8032.8	8106.5	8098.3	8062.8	8046.4	8027.4	8011.0	7891.0
7964.6	5°	8071.0	8016.4	8106.5	8090.1	8084.6	8057.4	8041.0	8065.5	7956.4
7986.4	7.5°	8071.0	8016.4	8114.6	8120.1	8111.9	8090.1	8087.4	8103.7	8013.7
8024.6	10°	8125.5	8103.7	8185.6	8193.7	8182.8	8177.4	8163.7	8152.8	8057.4
8155.5	12.5°	8240.1	8196.5	8289.2	8313.7	8305.6	8319.2	8286.5	8302.8	8204.6
8289.2	15°	8379.2	8381.9	8452.9	8507.4	8502.0	8545.6	8496.5	8540.1	8469.2
8441.9	17.5°	8592.0	8622.0	8722.9	8804.7	8834.7	8867.5	8834.7	8848.4	8747.4
8272.8	20°	8368.3	8480.1	8965.6	9115.7	9178.4	9208.4	9153.9	9170.2	9069.3
8065.5	22.5°	8166.5	8311.0	8742.0	9211.1	9404.8	9464.8	9445.7	9443.0	9404.8
7656.4	25°	7869.1	8161.0	8354.7	8851.1	9459.3	9568.4	9579.4	9576.6	9519.4
7405.5	27.5°	7503.6	7569.1	8071.0	8373.8	9077.5	9492.1	9475.7	9396.6	9320.2
6884.5	30°	7037.2	7334.5	7560.9	8043.7	8583.8	9257.5	9257.5	9197.5	9118.4
6699.0	32.5°	6799.9	7184.5	7394.5	7569.1	8030.1	8995.7	9104.8	9042.0	8979.3
6554.4	35°	6674.5	6731.7	7222.7	7380.9	7771.0	8491.0	8932.9	8870.2	8823.8
6169.8	37.5°	6399.0	6532.6	6761.7	7184.5	7304.5	8079.2	8703.8	8671.1	8616.5
5670.7	40°	5785.3	6142.6	6494.4	6895.4	7020.9	7550.0	8425.6	8439.2	8365.6
5138.8	42.5°	5422.5	5665.2	6216.2	6486.3	6824.5	7209.1	8155.5	8177.4	8125.5
4868.8	45°	4997.0	5267.0	5654.3	6145.3	6606.3	6739.9	7678.2	7907.3	7863.7
4331.4	47.5°	4606.9	4825.1	5299.7	5796.2	6306.2	6287.1	7130.0	7560.9	7500.9
3919.6	50°	4053.2	4435.1	4658.8	5114.3	5875.3	5927.1	6546.3	7154.5	7105.4
3330.4	52.5°	3417.7	3897.8	4326.0	4743.3	5438.9	5561.6	6003.5	6739.9	6707.2
2544.9	55°	2986.7	3335.9	3818.7	4154.1	4909.7	5237.0	5597.1	6344.4	6328.1
2092.1	57.5°	2124.8	2798.5	3196.8	3665.9	4064.1	4656.0	4923.3	5539.8	5387.0
1159.2	60°	1440.2	1756.6	2242.1	2746.7	3014.0	3605.9	3854.1	4347.8	4306.9
692.8	62.5°	761.0	1052.9	1399.3	1652.9	1846.6	2422.1	2525.8	3057.6	3044.0
278.2	65°	335.5	444.6	758.3	889.2	1088.3	1355.6	1445.6	1636.6	1590.2
136.4	67.5°	174.6	264.6	428.2	526.4	662.8	763.7	837.4	897.4	935.6
90.0	70°	106.4	193.7	264.6	365.5	455.5	537.3	594.6	676.4	725.5
46.4	72.5°	79.1	122.7	182.7	280.9	330.0	425.5	482.8	542.8	586.4
38.2	75°	43.6	81.8	147.3	220.9	264.6	346.4	398.2	439.1	452.8
21.8	77.5°	27.3	62.7	122.7	171.8	207.3	280.9	267.3	305.5	338.2
16.4	80°	19.1	46.4	95.5	141.8	144.6	180.0	212.8	245.5	267.3
10.9	82.5°	13.6	38.2	70.9	109.1	95.5	139.1	166.4	190.9	139.1
8.2	85°	10.9	27.3	35.5	65.5	54.6	98.2	84.6	81.8	54.6
5.5	87.5°	8.2	13.6	24.5	30.0	21.8	21.8	27.3	32.7	27.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8008.3
7809.1
7863.7
7910.1
7978.3
8117.4
8351.9
8660.2
8998.4
9282.1
9432.1
9260.2
9088.4
8927.5
8758.3
8562.0
8349.2
8120.1
7869.1
7544.6
7113.6
6729.0
6347.1
5370.7
4309.6
3046.7
1571.1
935.6
728.3
594.6
444.6
343.7
270.0
100.9
54.6
27.3
0.0

(END OF REPORT)