

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: P636959

Luminaire Tested: **IFLD-M-SA4E-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636959
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19281.9 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

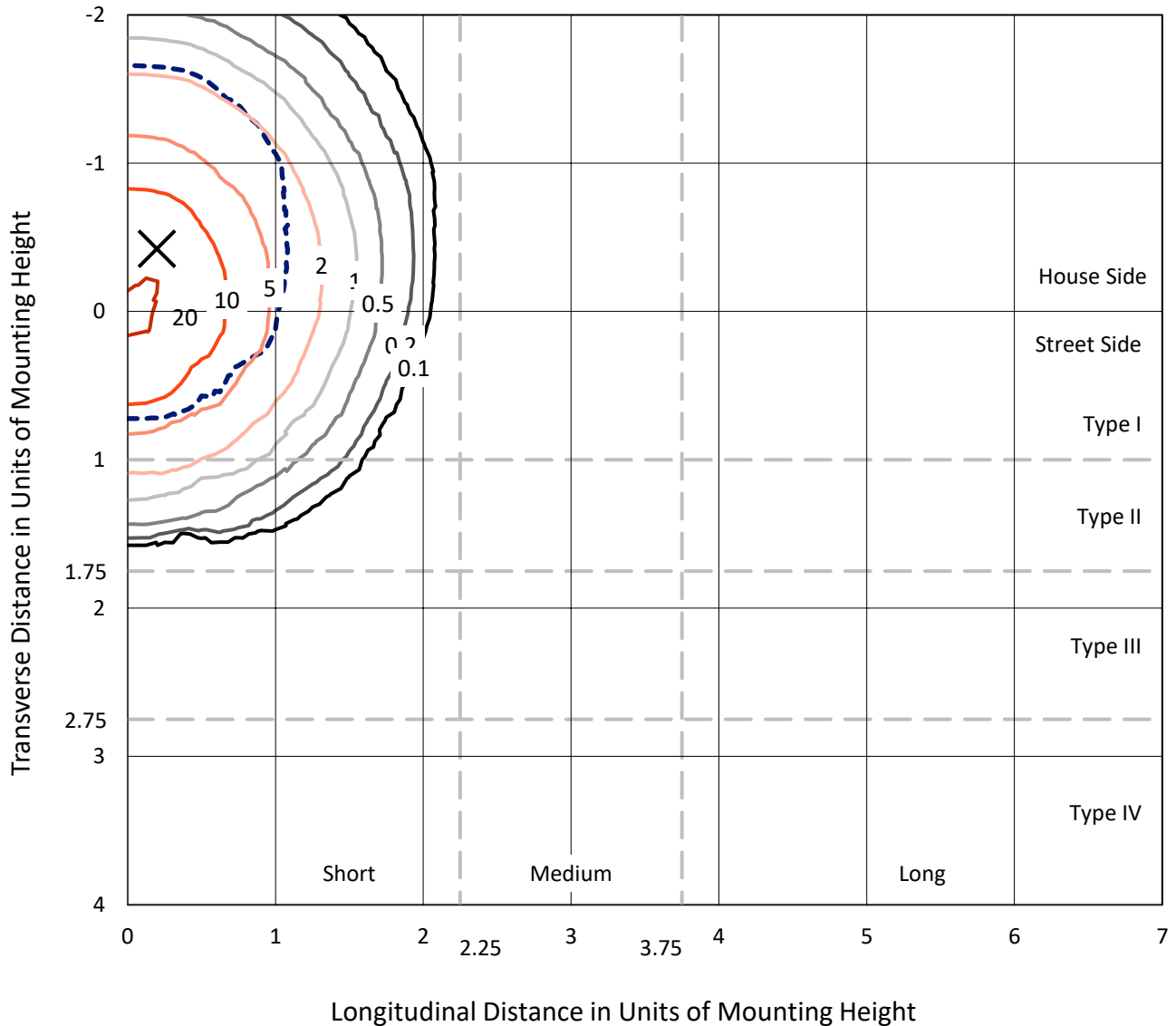
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

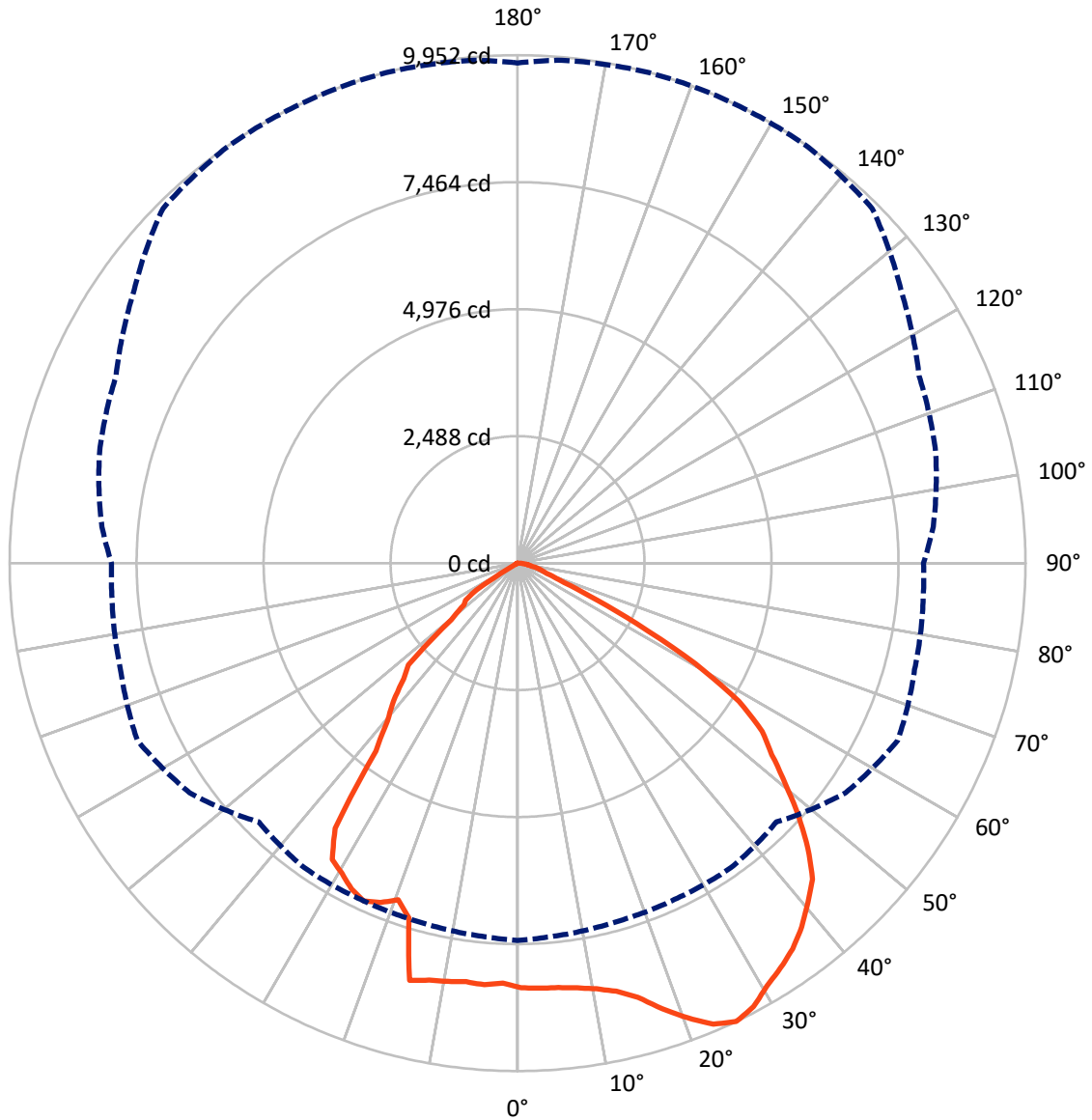
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.8 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	11937.5	0.0	11937.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7344.4	0.0	7344.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	19281.9	0.0	19281.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.2	4.1
10°-20°	2437.2	12.6
20°-30°	3853.1	20.0
30°-40°	4352.4	22.6
40°-50°	4076.1	21.1
50°-60°	2810.2	14.6
60°-70°	755.0	3.9
70°-80°	157.3	0.8
80°-90°	42.6	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°	19281.9	100.0
0°-180°	19281.9	100.0



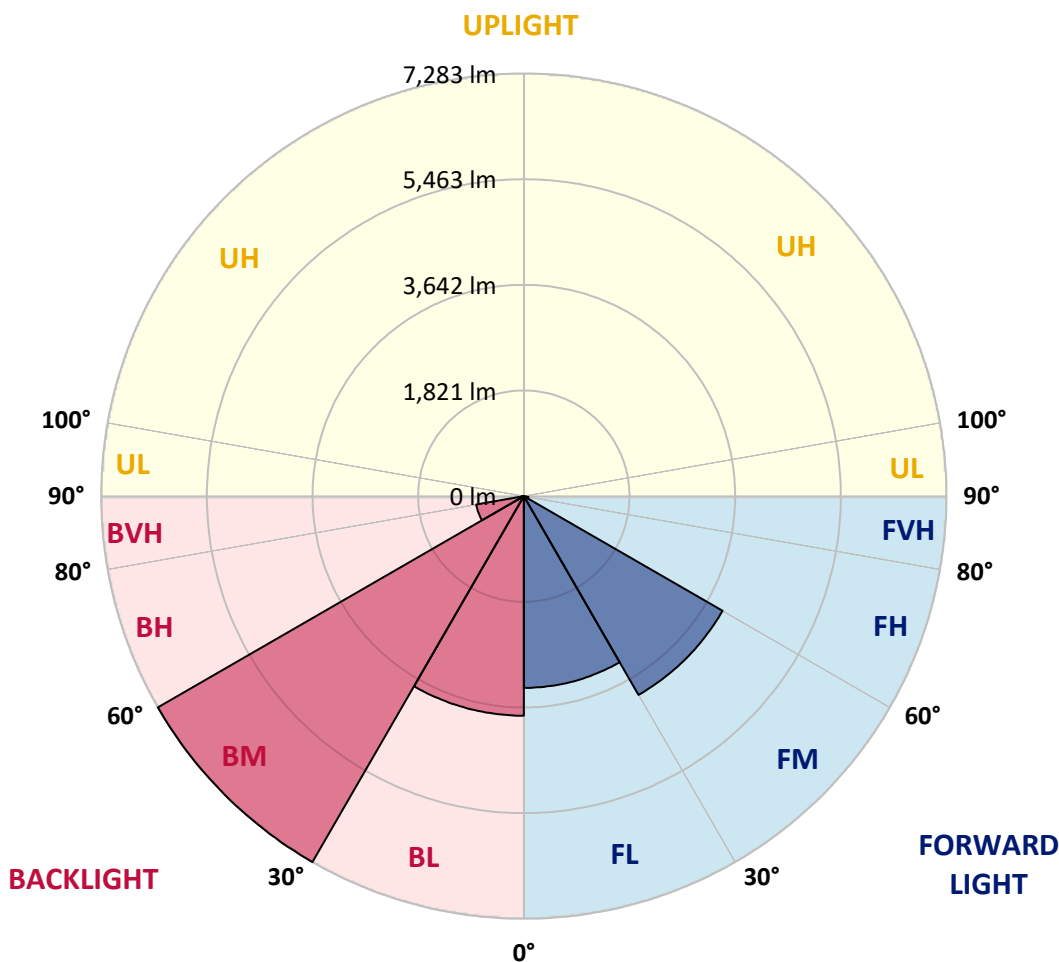
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3304.3	17.1			
FM (30°-60°)	3955.2	20.5			
FH (60°-80°)	79.3	0.4			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	3784.1	19.6	B4/5000		
BM (30°-60°)	7283.5	37.8	B4/8500		
BH (60°-80°)	833.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	36.9	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°	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8
2.5°	8356.7	8302.8	8251.8	8234.8	8305.6	8382.2	8334.0	8336.8	8319.8	8351.0
5°	8419.0	8345.3	8311.3	8285.8	8297.1	8376.5	8308.5	8334.0	8305.6	8342.5
7.5°	8396.3	8345.3	8311.3	8263.1	8300.0	8393.5	8328.3	8331.1	8317.0	8351.0
10°	8382.2	8345.3	8302.8	8308.5	8351.0	8430.3	8379.3	8407.7	8387.8	8407.7
12.5°	8416.2	8376.5	8353.8	8353.8	8390.7	8481.3	8455.8	8481.3	8472.8	8489.8
15°	8095.9	8132.8	8348.1	8444.5	8518.2	8608.9	8597.5	8623.0	8628.7	8654.2
17.5°	6829.3	6792.4	6775.4	7271.3	8589.0	8869.6	8861.1	8858.2	8829.9	8810.0
20°	6996.5	6982.3	6962.5	6999.3	7146.7	9005.6	9062.2	8713.7	8611.7	8603.2
22.5°	7262.8	7240.2	7166.5	7169.3	7214.7	7829.6	8781.7	8464.3	8430.3	8410.5
25°	7393.2	7347.8	7288.3	7271.3	7285.5	7172.2	7843.7	8220.6	8053.4	7976.9
27.5°	7163.7	7166.5	7118.3	7163.7	7109.8	6599.7	6313.5	7744.6	7738.9	7704.9
30°	6990.8	6982.3	6925.6	6982.3	6611.1	6041.5	5919.6	7223.2	7163.7	7118.3
32.5°	6460.9	6466.6	6630.9	6851.9	6242.7	5792.1	5423.7	6452.4	7016.3	6990.8
35°	4621.8	4633.1	5216.9	6307.9	5684.4	5296.2	5267.9	5576.8	6783.9	6795.3
37.5°	4448.9	4448.9	4434.8	4613.3	5245.2	5095.0	5151.7	5120.5	6214.4	6242.7
40°	4324.3	4298.8	4278.9	3998.4	3647.0	4953.3	4993.0	4851.3	5874.3	5880.0
42.5°	4174.1	4145.7	4151.4	3632.8	3264.4	4602.0	4491.5	4301.6	5307.6	5313.2
45°	3899.2	3947.4	3981.4	3179.4	3151.1	3287.1	4142.9	4023.9	4925.0	5029.9
47.5°	1983.6	2026.1	3108.6	2924.4	2989.6	2921.6	3499.6	3502.5	4097.6	4446.1
50°	1799.4	1788.1	1790.9	1705.9	2760.0	2363.3	2530.5	3210.6	3281.5	3780.2
52.5°	1677.6	1674.7	1501.9	1334.7	1734.2	2080.0	1836.3	2323.7	2439.8	3202.1
55°	1241.2	1331.9	1184.5	1255.3	1085.3	1666.2	1657.7	2097.0	2136.6	2567.4
57.5°	11.3	14.2	34.0	955.0	750.9	833.1	1144.8	1431.0	1501.9	2000.6
60°	2.8	5.7	14.2	28.3	487.4	512.9	765.1	827.4	932.3	1193.0
62.5°	0.0	0.0	5.7	14.2	25.5	209.7	243.7	266.4	410.9	609.3
65°	0.0	0.0	2.8	8.5	14.2	34.0	59.5	124.7	178.5	221.0
67.5°	0.0	0.0	2.8	5.7	11.3	17.0	34.0	48.2	76.5	130.4
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	34.0	45.3	65.2
72.5°	0.0	0.0	2.8	5.7	5.7	17.0	17.0	25.5	34.0	42.5
75°	0.0	0.0	2.8	2.8	5.7	11.3	17.0	19.8	22.7	34.0
77.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	22.7	19.8	19.8
80°	0.0	0.0	2.8	8.5	8.5	14.2	17.0	22.7	14.2	14.2
82.5°	0.0	0.0	2.8	11.3	8.5	28.3	28.3	31.2	11.3	11.3
85°	0.0	0.0	8.5	5.7	17.0	28.3	25.5	17.0	14.2	8.5
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	19.8	17.0	5.7	5.7
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°
8319.8	0°	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8	8319.8
8268.8	2.5°	8382.2	8345.3	8421.8	8413.3	8376.5	8359.5	8339.6	8322.6	8198.0
8274.5	5°	8385.0	8328.3	8421.8	8404.8	8399.2	8370.8	8353.8	8379.3	8266.0
8297.1	7.5°	8385.0	8328.3	8430.3	8436.0	8427.5	8404.8	8402.0	8419.0	8325.5
8336.8	10°	8441.7	8419.0	8504.0	8512.5	8501.2	8495.5	8481.3	8470.0	8370.8
8472.8	12.5°	8560.7	8515.3	8611.7	8637.2	8628.7	8642.9	8608.9	8625.9	8523.8
8611.7	15°	8705.2	8708.0	8781.7	8838.4	8832.7	8878.1	8827.0	8872.4	8798.7
8770.4	17.5°	8926.2	8957.4	9062.2	9147.3	9178.4	9212.4	9178.4	9192.6	9087.8
8594.7	20°	8693.9	8810.0	9314.4	9470.3	9535.5	9566.7	9510.0	9527.0	9422.1
8379.3	22.5°	8484.2	8634.4	9082.1	9569.5	9770.7	9833.0	9813.2	9810.4	9770.7
7954.3	25°	8175.3	8478.5	8679.7	9195.4	9827.4	9940.7	9952.0	9949.2	9889.7
7693.6	27.5°	7795.6	7863.6	8385.0	8699.5	9430.6	9861.4	9844.4	9762.2	9682.8
7152.3	30°	7311.0	7619.9	7855.1	8356.7	8917.7	9617.7	9617.7	9555.3	9473.1
6959.6	32.5°	7064.5	7464.0	7682.2	7863.6	8342.5	9345.6	9459.0	9393.8	9328.6
6809.4	35°	6934.1	6993.6	7503.7	7668.1	8073.3	8821.4	9280.4	9215.3	9167.1
6409.9	37.5°	6647.9	6786.8	7024.8	7464.0	7588.7	8393.5	9042.4	9008.4	8951.7
5891.3	40°	6010.3	6381.5	6747.1	7163.7	7294.0	7843.7	8753.4	8767.5	8691.0
5338.7	42.5°	5633.4	5885.6	6458.1	6738.6	7090.0	7489.5	8472.8	8495.5	8441.7
5058.2	45°	5191.4	5471.9	5874.3	6384.4	6863.3	7002.1	7976.9	8215.0	8169.6
4500.0	47.5°	4786.2	5012.9	5505.9	6021.7	6551.6	6531.7	7407.4	7855.1	7792.7
4072.1	50°	4210.9	4607.6	4840.0	5313.2	6103.8	6157.7	6800.9	7432.9	7381.8
3460.0	52.5°	3550.7	4049.4	4494.3	4927.8	5650.4	5778.0	6237.0	7002.1	6968.1
2643.9	55°	3102.9	3465.6	3967.2	4315.8	5100.7	5440.7	5814.8	6591.2	6574.2
2173.5	57.5°	2207.5	2907.4	3321.1	3808.5	4222.2	4837.2	5114.9	5755.3	5596.6
1204.3	60°	1496.2	1824.9	2329.3	2853.6	3131.3	3746.2	4004.1	4517.0	4474.4
719.8	62.5°	790.6	1093.8	1453.7	1717.2	1918.4	2516.3	2624.0	3176.6	3162.4
289.0	65°	348.5	461.9	787.8	923.8	1130.7	1408.4	1501.9	1700.2	1652.1
141.7	67.5°	181.4	274.9	444.9	546.9	688.6	793.4	870.0	932.3	972.0
93.5	70°	110.5	201.2	274.9	379.7	473.2	558.2	617.8	702.8	753.8
48.2	72.5°	82.2	127.5	189.9	291.9	342.9	442.1	501.6	563.9	609.3
39.7	75°	45.3	85.0	153.0	229.5	274.9	359.9	413.7	456.2	470.4
22.7	77.5°	28.3	65.2	127.5	178.5	215.4	291.9	277.7	317.4	351.4
17.0	80°	19.8	48.2	99.2	147.4	150.2	187.0	221.0	255.0	277.7
11.3	82.5°	14.2	39.7	73.7	113.3	99.2	144.5	172.9	198.4	144.5
8.5	85°	11.3	28.3	36.8	68.0	56.7	102.0	87.8	85.0	56.7
5.7	87.5°	8.5	14.2	25.5	31.2	22.7	22.7	28.3	34.0	28.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8319.8
8113.0
8169.6
8217.8
8288.6
8433.2
8676.9
8997.1
9348.5
9643.2
9799.0
9620.5
9442.0
9274.8
9099.1
8895.1
8674.0
8436.0
8175.3
7838.1
7390.4
6990.8
6594.1
5579.6
4477.3
3165.3
1632.2
972.0
756.6
617.8
461.9
357.0
280.5
104.8
56.7
28.3
0.0

(END OF REPORT)