

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: P636936

Luminaire Tested: **IFLD-L-SA8A-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636936
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16764.7 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

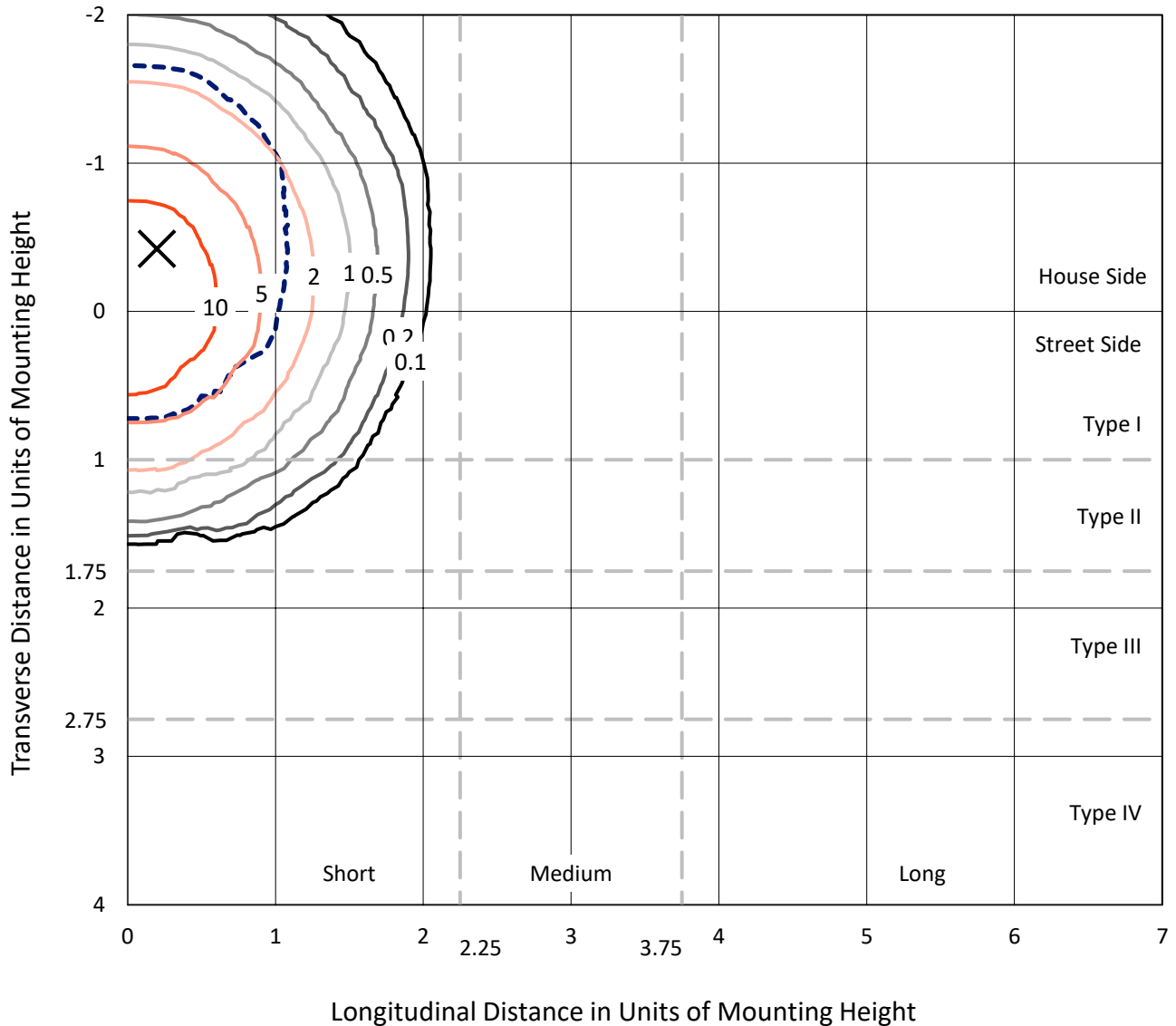
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

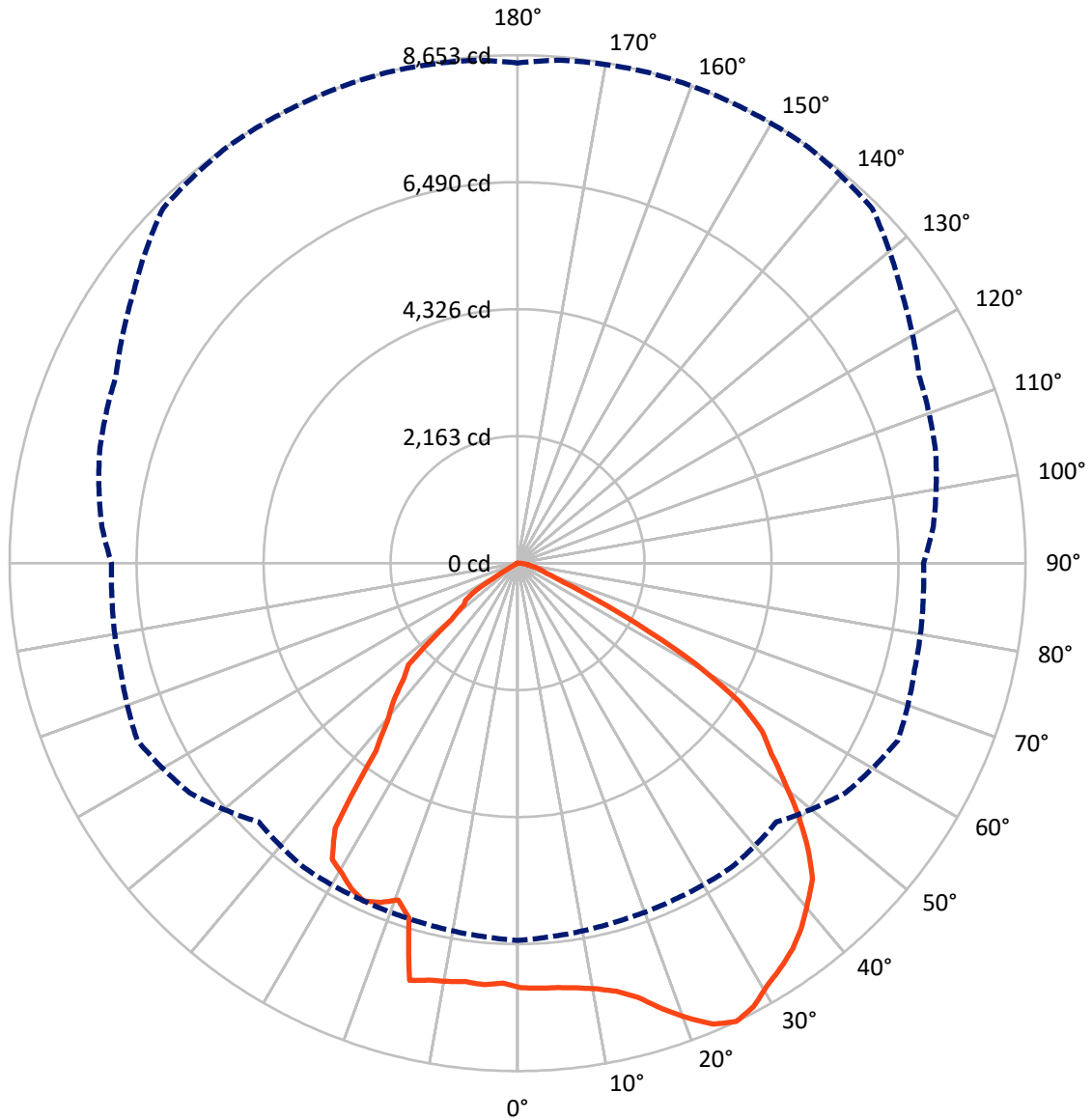
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.1 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	10379.1	0.0	10379.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6385.6	0.0	6385.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	16764.7	0.0	16764.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.0	4.1
10°-20°	2119.0	12.6
20°-30°	3350.1	20.0
30°-40°	3784.2	22.6
40°-50°	3544.0	21.1
50°-60°	2443.3	14.6
60°-70°	656.4	3.9
70°-80°	136.8	0.8
80°-90°	37.0	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°	16764.7	100.0
0°-180°	16764.7	100.0



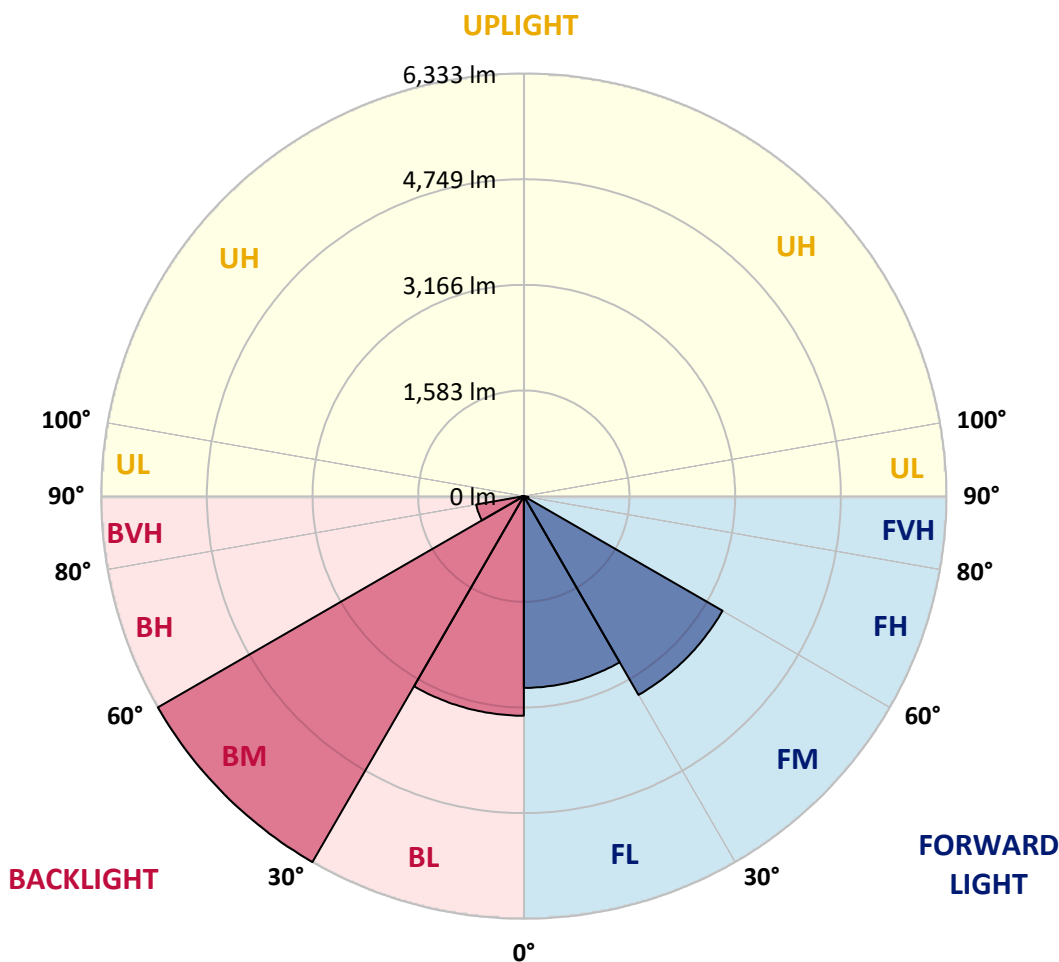
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2872.9	17.1			
FM (30°-60°)	3438.8	20.5			
FH (60°-80°)	68.9	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	3290.1	19.6	B4/5000		
BM (30°-60°)	6332.6	37.8	B4/8500		
BH (60°-80°)	724.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.0	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°	7233.7	7233.7	7233.7	7233.7	7233.7	7233.7	7233.7	7233.7	7233.7	7233.7
2.5°	7265.7	7218.9	7174.6	7159.8	7221.4	7287.9	7246.0	7248.5	7233.7	7260.8
5°	7319.9	7255.9	7226.3	7204.1	7214.0	7283.0	7223.8	7246.0	7221.4	7253.4
7.5°	7300.2	7255.9	7226.3	7184.4	7216.4	7297.7	7241.1	7243.5	7231.2	7260.8
10°	7287.9	7255.9	7218.9	7223.8	7260.8	7329.8	7285.4	7310.1	7292.8	7310.1
12.5°	7317.5	7283.0	7263.3	7263.3	7295.3	7374.1	7351.9	7374.1	7366.7	7381.5
15°	7039.0	7071.1	7258.3	7342.1	7406.2	7485.0	7475.1	7497.3	7502.2	7524.4
17.5°	5937.7	5905.7	5890.9	6322.1	7467.7	7711.7	7704.3	7701.8	7677.2	7659.9
20°	6083.1	6070.8	6053.5	6085.6	6213.7	7829.9	7879.2	7576.2	7487.5	7480.1
22.5°	6314.7	6295.0	6230.9	6233.4	6272.8	6807.5	7635.3	7359.3	7329.8	7312.5
25°	6428.0	6388.6	6336.9	6322.1	6334.4	6235.9	6819.8	7147.5	7002.1	6935.6
27.5°	6228.5	6230.9	6189.0	6228.5	6181.6	5738.2	5489.3	6733.5	6728.6	6699.0
30°	6078.2	6070.8	6021.5	6070.8	5748.0	5252.8	5146.9	6280.2	6228.5	6189.0
32.5°	5617.4	5622.4	5765.3	5957.4	5427.7	5036.0	4715.7	5610.0	6100.3	6078.2
35°	4018.4	4028.3	4535.8	5484.4	4942.4	4604.8	4580.2	4848.7	5898.3	5908.2
37.5°	3868.1	3868.1	3855.8	4011.0	4560.5	4429.9	4479.2	4452.1	5403.1	5427.7
40°	3759.7	3737.6	3720.3	3476.4	3170.9	4306.7	4341.2	4218.0	5107.4	5112.4
42.5°	3629.2	3604.5	3609.5	3158.6	2838.3	4001.2	3905.1	3740.0	4614.7	4619.6
45°	3390.2	3432.1	3461.6	2764.4	2739.7	2858.0	3602.1	3498.6	4282.1	4373.2
47.5°	1724.7	1761.6	2702.8	2542.6	2599.3	2540.2	3042.8	3045.2	3562.6	3865.7
50°	1564.5	1554.7	1557.1	1483.2	2399.7	2054.8	2200.2	2791.5	2853.1	3286.7
52.5°	1458.6	1456.1	1305.8	1160.4	1507.8	1808.4	1596.5	2020.3	2121.3	2784.1
55°	1079.1	1158.0	1029.9	1091.5	943.6	1448.7	1441.3	1823.2	1857.7	2232.2
57.5°	9.9	12.3	29.6	830.3	652.9	724.4	995.4	1244.2	1305.8	1739.4
60°	2.5	4.9	12.3	24.6	423.8	445.9	665.2	719.4	810.6	1037.3
62.5°	0.0	0.0	4.9	12.3	22.2	182.3	211.9	231.6	357.2	529.7
65°	0.0	0.0	2.5	7.4	12.3	29.6	51.7	108.4	155.2	192.2
67.5°	0.0	0.0	2.5	4.9	9.9	14.8	29.6	41.9	66.5	113.3
70°	0.0	0.0	2.5	4.9	7.4	12.3	19.7	29.6	39.4	56.7
72.5°	0.0	0.0	2.5	4.9	4.9	14.8	14.8	22.2	29.6	37.0
75°	0.0	0.0	2.5	2.5	4.9	9.9	14.8	17.2	19.7	29.6
77.5°	0.0	0.0	2.5	4.9	7.4	9.9	12.3	19.7	17.2	17.2
80°	0.0	0.0	2.5	7.4	7.4	12.3	14.8	19.7	12.3	12.3
82.5°	0.0	0.0	2.5	9.9	7.4	24.6	24.6	27.1	9.9	9.9
85°	0.0	0.0	7.4	4.9	14.8	24.6	22.2	14.8	12.3	7.4
87.5°	0.0	0.0	2.5	2.5	4.9	7.4	17.2	14.8	4.9	4.9
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°
7233.7	0°	7233.7	7233.7	7233.7	7233.7	7233.7	7233.7	7233.7	7233.7	7233.7
7189.3	2.5°	7287.9	7255.9	7322.4	7315.0	7283.0	7268.2	7250.9	7236.2	7127.7
7194.3	5°	7290.4	7241.1	7322.4	7307.6	7302.7	7278.0	7263.3	7285.4	7186.9
7214.0	7.5°	7290.4	7241.1	7329.8	7334.7	7327.3	7307.6	7305.1	7319.9	7238.6
7248.5	10°	7339.6	7319.9	7393.8	7401.2	7391.4	7386.4	7374.1	7364.3	7278.0
7366.7	12.5°	7443.1	7403.7	7487.5	7509.6	7502.2	7514.6	7485.0	7499.8	7411.1
7487.5	15°	7568.8	7571.2	7635.3	7684.6	7679.6	7719.1	7674.7	7714.1	7650.1
7625.4	17.5°	7760.9	7788.0	7879.2	7953.1	7980.2	8009.8	7980.2	7992.5	7901.4
7472.7	20°	7558.9	7659.9	8098.5	8234.0	8290.7	8317.8	8268.5	8283.3	8192.1
7285.4	22.5°	7376.6	7507.2	7896.4	8320.2	8495.1	8549.3	8532.1	8529.6	8495.1
6915.9	25°	7108.0	7371.7	7546.6	7995.0	8544.4	8643.0	8652.8	8650.4	8598.6
6689.2	27.5°	6777.9	6837.0	7290.4	7563.8	8199.5	8574.0	8559.2	8487.8	8418.8
6218.6	30°	6356.6	6625.1	6829.6	7265.7	7753.5	8362.1	8362.1	8307.9	8236.4
6051.1	32.5°	6142.2	6489.6	6679.3	6837.0	7253.4	8125.6	8224.1	8167.5	8110.8
5920.5	35°	6028.9	6080.6	6524.1	6667.0	7019.3	7669.8	8068.9	8012.2	7970.4
5573.1	37.5°	5780.1	5900.8	6107.7	6489.6	6598.0	7297.7	7862.0	7832.4	7783.1
5122.2	40°	5225.7	5548.5	5866.3	6228.5	6341.8	6819.8	7610.6	7623.0	7556.4
4641.8	42.5°	4898.0	5117.3	5615.0	5858.9	6164.4	6511.8	7366.7	7386.4	7339.6
4397.9	45°	4513.7	4757.6	5107.4	5550.9	5967.3	6088.0	6935.6	7142.5	7103.1
3912.5	47.5°	4161.3	4358.4	4787.1	5235.6	5696.3	5679.0	6440.3	6829.6	6775.4
3540.5	50°	3661.2	4006.1	4208.2	4619.6	5307.0	5353.8	5913.1	6462.5	6418.2
3008.3	52.5°	3087.1	3520.8	3907.6	4284.5	4912.8	5023.7	5422.8	6088.0	6058.5
2298.7	55°	2697.8	3013.2	3449.3	3752.4	4434.8	4730.5	5055.7	5730.8	5716.0
1889.7	57.5°	1919.3	2527.8	2887.6	3311.3	3671.0	4205.7	4447.1	5004.0	4866.0
1047.1	60°	1300.9	1586.7	2025.2	2481.0	2722.5	3257.1	3481.3	3927.3	3890.3
625.8	62.5°	687.4	951.0	1263.9	1493.1	1668.0	2187.8	2281.5	2761.9	2749.6
251.3	65°	303.0	401.6	684.9	803.2	983.1	1224.5	1305.8	1478.3	1436.4
123.2	67.5°	157.7	239.0	386.8	475.5	598.7	689.9	756.4	810.6	845.1
81.3	70°	96.1	174.9	239.0	330.1	411.5	485.4	537.1	611.0	655.4
41.9	72.5°	71.4	110.9	165.1	253.8	298.1	384.4	436.1	490.3	529.7
34.5	75°	39.4	73.9	133.0	199.6	239.0	312.9	359.7	396.7	409.0
19.7	77.5°	24.6	56.7	110.9	155.2	187.2	253.8	241.5	275.9	305.5
14.8	80°	17.2	41.9	86.2	128.1	130.6	162.6	192.2	221.7	241.5
9.9	82.5°	12.3	34.5	64.1	98.6	86.2	125.7	150.3	172.5	125.7
7.4	85°	9.9	24.6	32.0	59.1	49.3	88.7	76.4	73.9	49.3
4.9	87.5°	7.4	12.3	22.2	27.1	19.7	19.7	24.6	29.6	24.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7233.7
7053.8
7103.1
7145.0
7206.6
7332.2
7544.1
7822.5
8128.0
8384.3
8519.8
8364.6
8209.3
8064.0
7911.2
7733.8
7541.7
7334.7
7108.0
6814.8
6425.6
6078.2
5733.2
4851.2
3892.8
2752.1
1419.1
845.1
657.8
537.1
401.6
310.4
243.9
91.2
49.3
24.6
0.0

(END OF REPORT)