

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: P638406

Luminaire Tested: **IFLD-M-SA4B-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638406
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16602.9 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

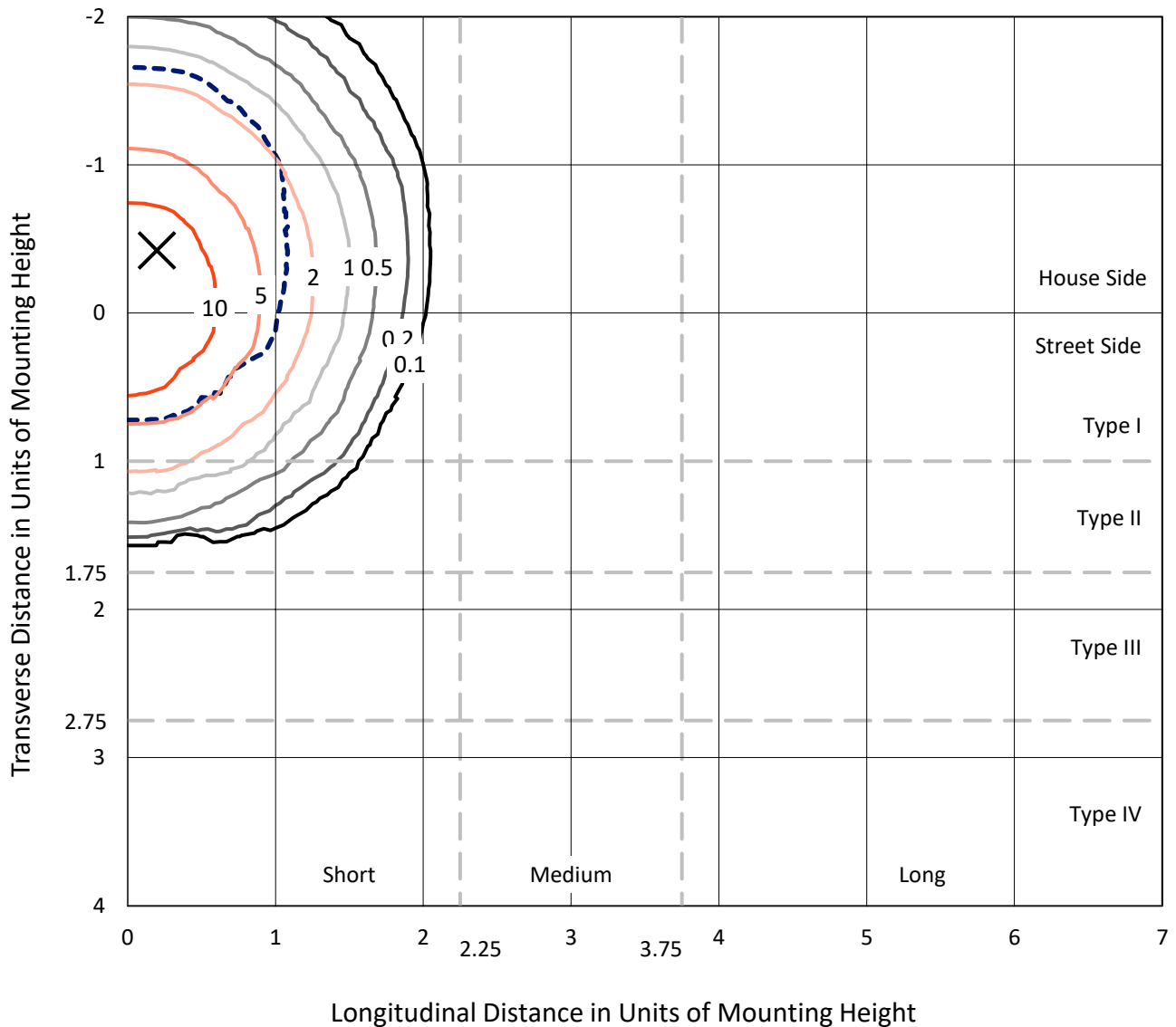
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

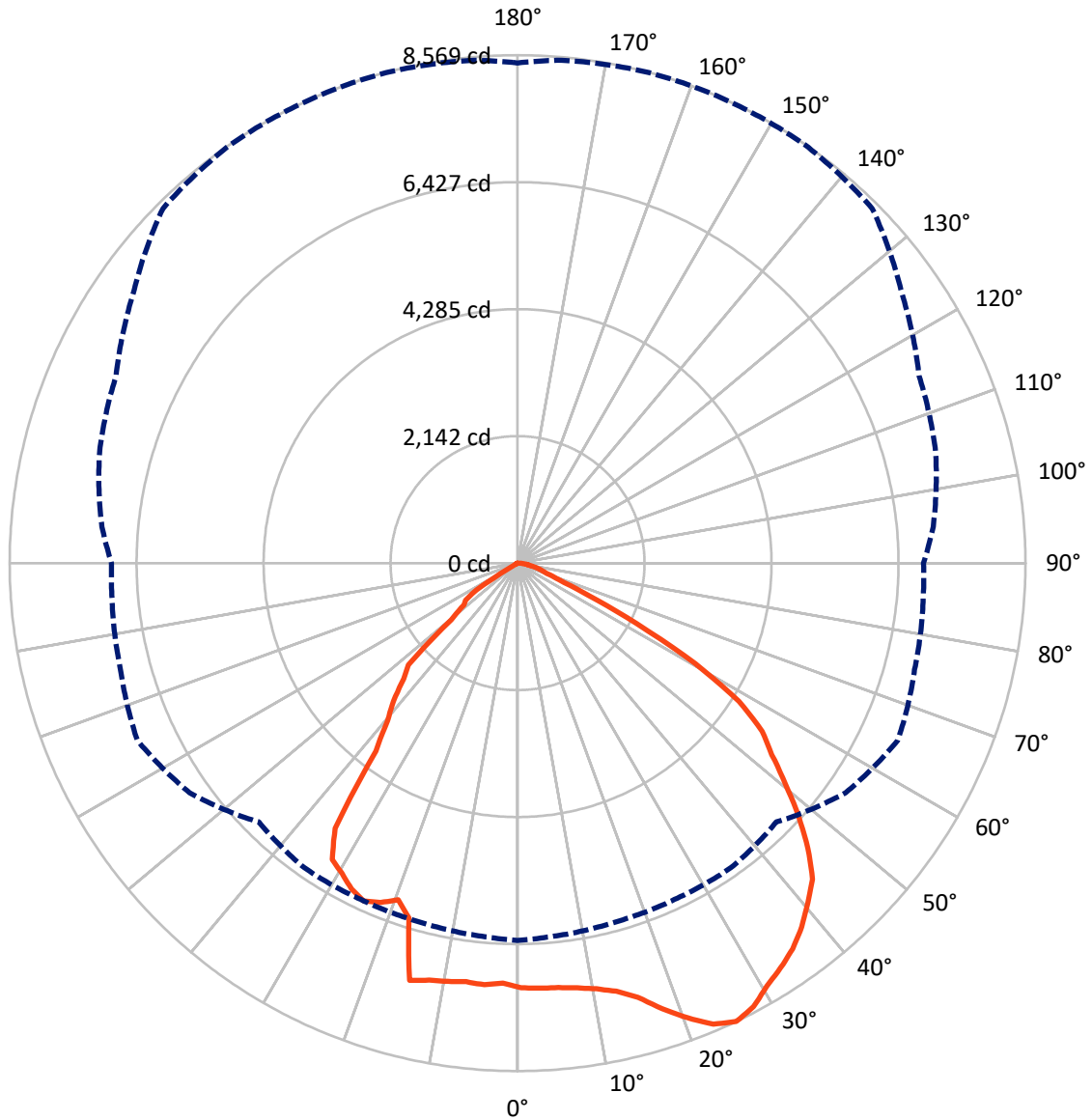
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.9 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	10278.9	0.0	10278.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6324.0	0.0	6324.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	16602.9	0.0	16602.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.3	4.1
10°-20°	2098.6	12.6
20°-30°	3317.7	20.0
30°-40°	3747.6	22.6
40°-50°	3509.7	21.1
50°-60°	2419.7	14.6
60°-70°	650.1	3.9
70°-80°	135.5	0.8
80°-90°	36.6	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°	16602.9	100.0
0°-180°	16602.9	100.0



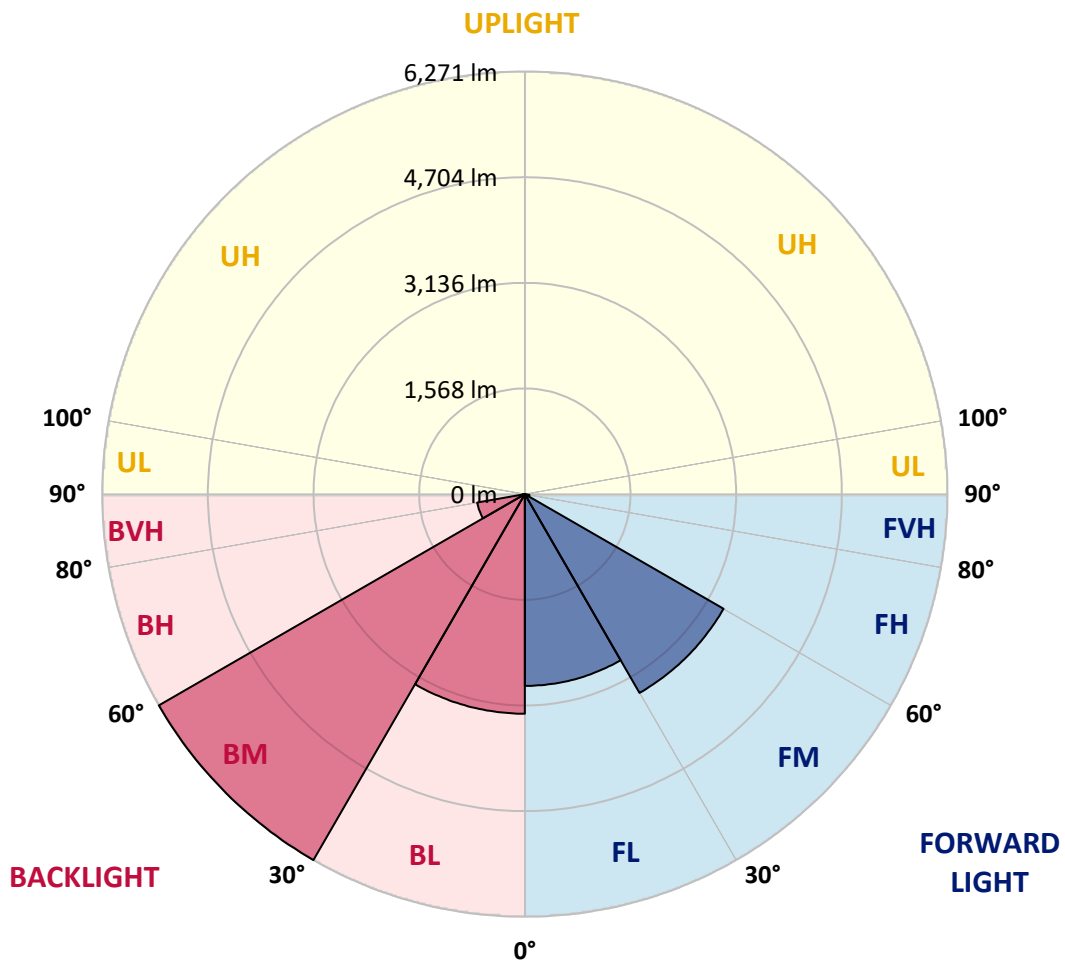
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2845.2	17.1			
FM (30°-60°)	3405.6	20.5			
FH (60°-80°)	68.2	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	3258.3	19.6	B4/5000		
BM (30°-60°)	6271.5	37.8	B4/8500		
BH (60°-80°)	717.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.7	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°	7163.9	7163.9	7163.9	7163.9	7163.9	7163.9	7163.9	7163.9	7163.9	7163.9
2.5°	7195.6	7149.2	7105.3	7090.6	7151.7	7217.5	7176.1	7178.5	7163.9	7190.7
5°	7249.3	7185.8	7156.5	7134.6	7144.3	7212.7	7154.1	7176.1	7151.7	7183.4
7.5°	7229.7	7185.8	7156.5	7115.1	7146.8	7227.3	7171.2	7173.6	7161.4	7190.7
10°	7217.5	7185.8	7149.2	7154.1	7190.7	7259.0	7215.1	7239.5	7222.4	7239.5
12.5°	7246.8	7212.7	7193.1	7193.1	7224.9	7302.9	7281.0	7302.9	7295.6	7310.3
15°	6971.1	7002.8	7188.3	7271.2	7334.7	7412.7	7403.0	7424.9	7429.8	7451.8
17.5°	5880.4	5848.7	5834.0	6261.0	7395.7	7637.2	7629.9	7627.5	7603.1	7586.0
20°	6024.4	6012.2	5995.1	6026.8	6153.7	7754.3	7803.1	7503.0	7415.2	7407.9
22.5°	6253.7	6234.2	6170.8	6173.2	6212.2	6741.7	7561.6	7288.3	7259.0	7241.9
25°	6366.0	6326.9	6275.7	6261.0	6273.2	6175.6	6753.9	7078.4	6934.5	6868.6
27.5°	6168.3	6170.8	6129.3	6168.3	6122.0	5682.8	5436.3	6668.5	6663.6	6634.4
30°	6019.5	6012.2	5963.4	6012.2	5692.5	5202.1	5097.2	6219.6	6168.3	6129.3
32.5°	5563.2	5568.1	5709.6	5899.9	5375.3	4987.4	4670.2	5555.9	6041.4	6019.5
35°	3979.6	3989.4	4492.0	5431.4	4894.6	4560.4	4536.0	4801.9	5841.4	5851.1
37.5°	3830.8	3830.8	3818.6	3972.3	4516.4	4387.1	4435.9	4409.1	5350.9	5375.3
40°	3723.4	3701.5	3684.4	3442.8	3140.3	4265.1	4299.3	4177.3	5058.1	5063.0
42.5°	3594.1	3569.7	3574.6	3128.1	2810.9	3962.6	3867.4	3703.9	4570.1	4575.0
45°	3357.4	3398.9	3428.2	2737.7	2713.3	2830.4	3567.3	3464.8	4240.7	4331.0
47.5°	1708.0	1744.6	2676.7	2518.1	2574.2	2515.6	3013.4	3015.8	3528.2	3828.4
50°	1549.4	1539.6	1542.1	1468.9	2376.6	2035.0	2178.9	2764.5	2825.5	3255.0
52.5°	1444.5	1442.0	1293.2	1149.2	1493.3	1791.0	1581.1	2000.8	2100.8	2757.2
55°	1068.7	1146.8	1019.9	1080.9	934.5	1434.7	1427.4	1805.6	1839.8	2210.6
57.5°	9.8	12.2	29.3	822.3	646.6	717.4	985.8	1232.2	1293.2	1722.6
60°	2.4	4.9	12.2	24.4	419.7	441.6	658.8	712.5	802.8	1027.2
62.5°	0.0	0.0	4.9	12.2	22.0	180.6	209.8	229.4	353.8	524.6
65°	0.0	0.0	2.4	7.3	12.2	29.3	51.2	107.4	153.7	190.3
67.5°	0.0	0.0	2.4	4.9	9.8	14.6	29.3	41.5	65.9	112.2
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.5	29.3	39.0	56.1
72.5°	0.0	0.0	2.4	4.9	4.9	14.6	14.6	22.0	29.3	36.6
75°	0.0	0.0	2.4	2.4	4.9	9.8	14.6	17.1	19.5	29.3
77.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	19.5	17.1	17.1
80°	0.0	0.0	2.4	7.3	7.3	12.2	14.6	19.5	12.2	12.2
82.5°	0.0	0.0	2.4	9.8	7.3	24.4	24.4	26.8	9.8	9.8
85°	0.0	0.0	7.3	4.9	14.6	24.4	22.0	14.6	12.2	7.3
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	17.1	14.6	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°
7163.9	0°	7163.9	7163.9	7163.9	7163.9	7163.9	7163.9	7163.9	7163.9	7163.9
7119.9	2.5°	7217.5	7185.8	7251.7	7244.4	7212.7	7198.0	7180.9	7166.3	7058.9
7124.8	5°	7220.0	7171.2	7251.7	7237.1	7232.2	7207.8	7193.1	7215.1	7117.5
7144.3	7.5°	7220.0	7171.2	7259.0	7263.9	7256.6	7237.1	7234.6	7249.3	7168.7
7178.5	10°	7268.8	7249.3	7322.5	7329.8	7320.0	7315.1	7302.9	7293.2	7207.8
7295.6	12.5°	7371.3	7332.2	7415.2	7437.1	7429.8	7442.0	7412.7	7427.4	7339.5
7415.2	15°	7495.7	7498.1	7561.6	7610.4	7605.5	7644.5	7600.6	7639.7	7576.2
7551.8	17.5°	7686.0	7712.9	7803.1	7876.3	7903.2	7932.5	7903.2	7915.4	7825.1
7400.5	20°	7485.9	7586.0	8020.3	8154.5	8210.6	8237.5	8188.7	8203.3	8113.0
7215.1	22.5°	7305.4	7434.7	7820.2	8239.9	8413.1	8466.8	8449.7	8447.3	8413.1
6849.1	25°	7039.4	7300.5	7473.7	7917.8	8461.9	8559.5	8569.3	8566.9	8515.6
6624.6	27.5°	6712.4	6771.0	7220.0	7490.8	8120.3	8491.2	8476.6	8405.8	8337.5
6158.6	30°	6295.2	6561.2	6763.7	7195.6	7678.7	8281.4	8281.4	8227.7	8156.9
5992.6	32.5°	6082.9	6427.0	6614.8	6771.0	7183.4	8047.1	8144.7	8088.6	8032.5
5863.3	35°	5970.7	6021.9	6461.1	6602.6	6951.6	7595.7	7991.0	7934.9	7893.4
5519.3	37.5°	5724.2	5843.8	6048.8	6427.0	6534.3	7227.3	7786.1	7756.8	7708.0
5072.8	40°	5175.2	5494.9	5809.6	6168.3	6280.6	6753.9	7537.2	7549.4	7483.5
4597.0	42.5°	4850.7	5067.9	5560.8	5802.3	6104.9	6448.9	7295.6	7315.1	7268.8
4355.4	45°	4470.1	4711.6	5058.1	5497.3	5909.7	6029.2	6868.6	7073.6	7034.5
3874.7	47.5°	4121.2	4316.4	4740.9	5185.0	5641.3	5624.2	6378.2	6763.7	6710.0
3506.3	50°	3625.8	3967.4	4167.5	4575.0	5255.8	5302.1	5856.0	6400.1	6356.2
2979.2	52.5°	3057.3	3486.8	3869.8	4243.2	4865.4	4975.2	5370.4	6029.2	6000.0
2276.5	55°	2671.8	2984.1	3416.0	3716.1	4392.0	4684.8	5006.9	5675.4	5660.8
1871.5	57.5°	1900.8	2503.4	2859.7	3279.4	3635.6	4165.1	4404.2	4955.6	4819.0
1037.0	60°	1288.3	1571.4	2005.7	2457.1	2696.2	3225.7	3447.7	3889.4	3852.8
619.8	62.5°	680.8	941.8	1251.7	1478.6	1651.9	2166.7	2259.4	2735.2	2723.0
248.9	65°	300.1	397.7	678.3	795.4	973.6	1212.7	1293.2	1464.0	1422.5
122.0	67.5°	156.2	236.7	383.1	470.9	592.9	683.2	749.1	802.8	836.9
80.5	70°	95.2	173.2	236.7	327.0	407.5	480.7	531.9	605.1	649.0
41.5	72.5°	70.8	109.8	163.5	251.3	295.2	380.6	431.9	485.6	524.6
34.2	75°	39.0	73.2	131.8	197.6	236.7	309.9	356.2	392.8	405.0
19.5	77.5°	24.4	56.1	109.8	153.7	185.4	251.3	239.1	273.3	302.6
14.6	80°	17.1	41.5	85.4	126.9	129.3	161.0	190.3	219.6	239.1
9.8	82.5°	12.2	34.2	63.4	97.6	85.4	124.4	148.8	170.8	124.4
7.3	85°	9.8	24.4	31.7	58.6	48.8	87.8	75.6	73.2	48.8
4.9	87.5°	7.3	12.2	22.0	26.8	19.5	19.5	24.4	29.3	24.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7163.9
6985.7
7034.5
7076.0
7137.0
7261.5
7471.3
7747.0
8049.6
8303.3
8437.5
8283.8
8130.1
7986.1
7834.9
7659.2
7468.9
7263.9
7039.4
6749.0
6363.5
6019.5
5677.9
4804.4
3855.2
2725.5
1405.4
836.9
651.5
531.9
397.7
307.4
241.6
90.3
48.8
24.4
0.0

(END OF REPORT)