

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: McGRAW-EDISON

Report Number: P193684

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL3-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27226 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 382
Input Voltage (V): NR
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

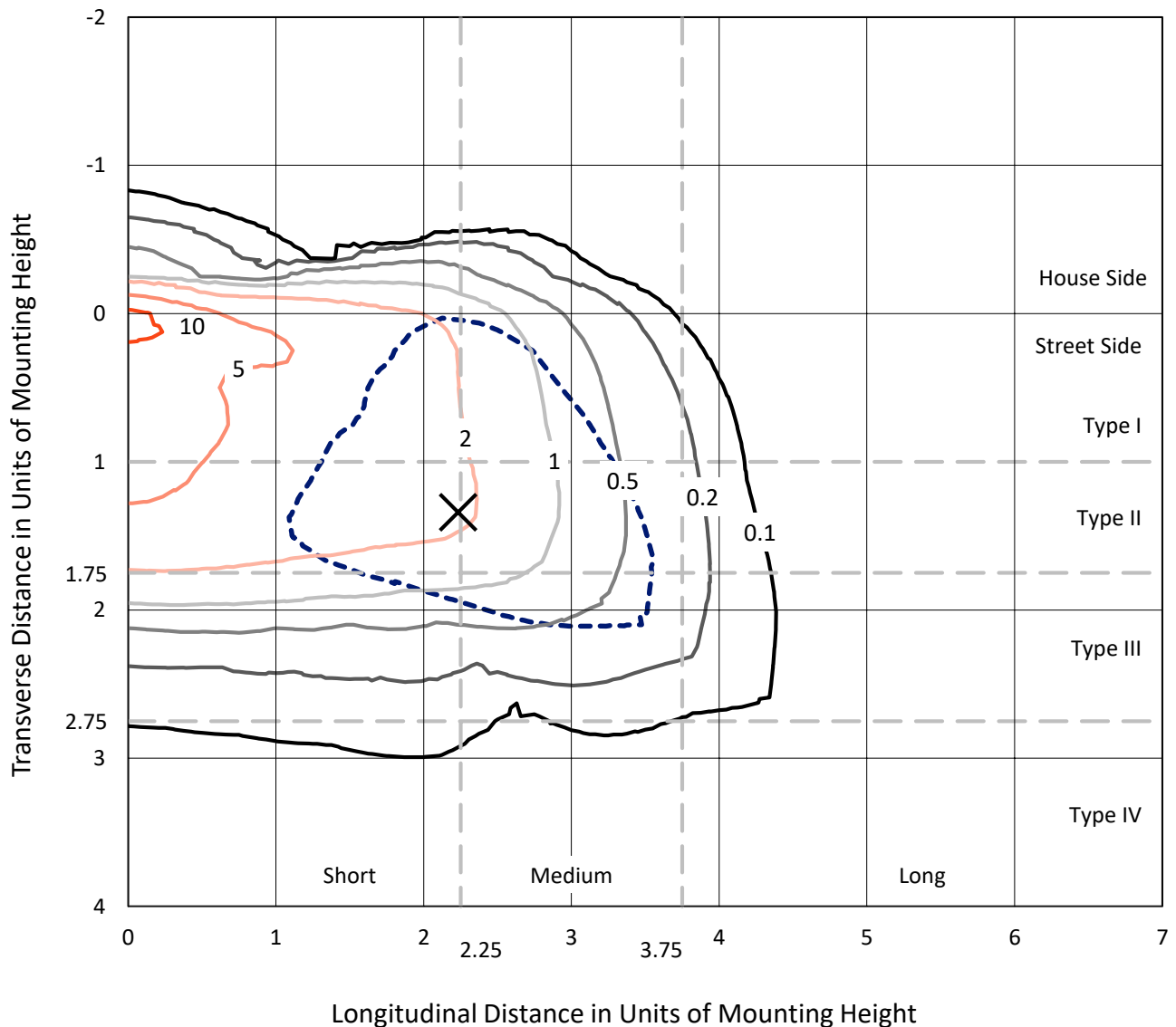


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

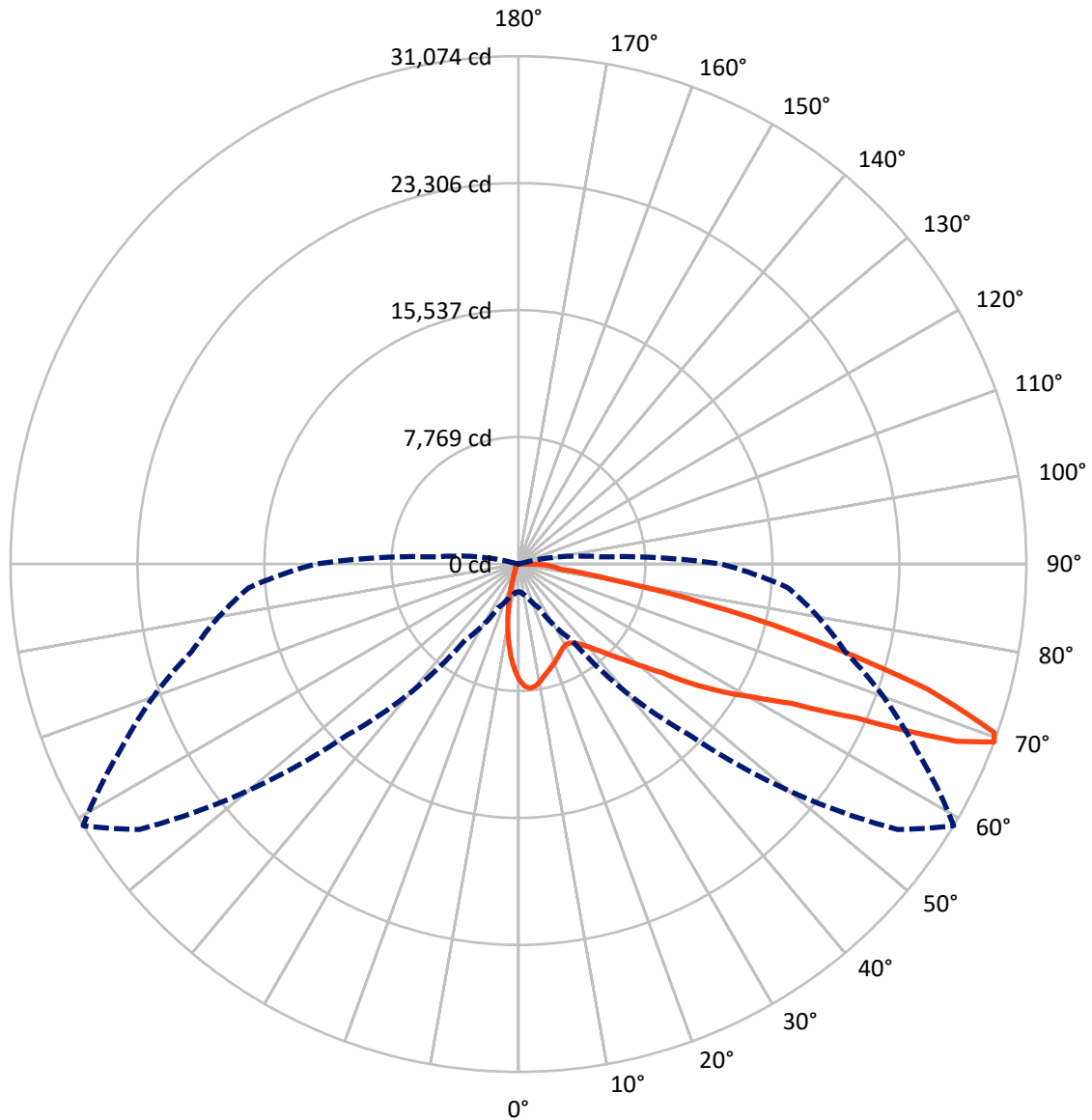


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2217.2	0.0	2217.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	25008.8	0.0	25008.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	27226.0	0.0	27226.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.2	2.1
10°-20°	1188.6	4.4
20°-30°	1599.4	5.9
30°-40°	2322.2	8.5
40°-50°	3866.6	14.2
50°-60°	6031.8	22.2
60°-70°	7463.9	27.4
70°-80°	3782.6	13.9
80°-90°	395.8	1.5
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°	27226.0	100.0
0°-180°	27226.0	100.0



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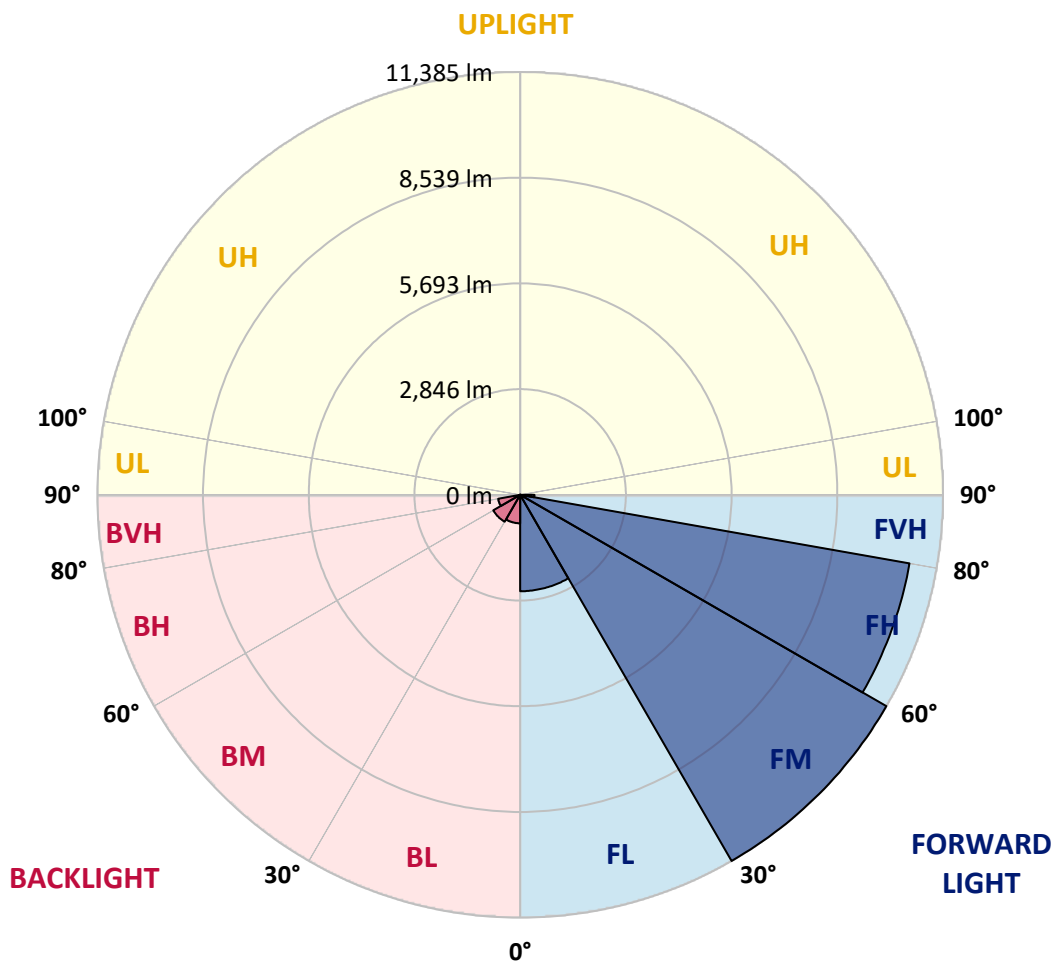
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2595.7	9.5			
FM	(30°-60°)	11385.1	41.8			
FH	(60°-80°)	10644.4	39.1			G4/12000
FVH	(80°-90°)	383.6	1.4			G3/500
BL	(0°-30°)	767.4	2.8	B2/1000		
BM	(30°-60°)	835.4	3.1	B1/1000		
BH	(60°-80°)	602.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.2	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6
2.5°	7767.0	7764.0	7730.1	7714.7	7687.0	7628.5	7537.6	7489.9	7412.9	7279.0	7098.9
5°	7696.2	7733.2	7753.2	7754.7	7774.7	7753.2	7671.6	7631.6	7525.3	7309.8	6986.5
7.5°	7215.9	7229.7	7286.7	7336.0	7431.4	7522.2	7551.5	7534.6	7471.4	7240.5	6811.0
10°	6701.7	6715.5	6783.3	6847.9	6977.2	7117.3	7265.1	7295.9	7322.1	7142.0	6641.6
12.5°	6258.3	6272.1	6341.4	6426.1	6577.0	6749.4	6978.8	7029.6	7145.1	7048.1	6506.1
15°	5876.5	5882.6	5950.4	6055.1	6235.2	6456.9	6717.1	6798.7	6975.7	6981.9	6387.6
17.5°	5551.6	5567.0	5608.6	5708.7	5905.7	6179.8	6483.0	6600.1	6807.9	6926.4	6272.1
20°	5353.0	5368.4	5366.9	5422.3	5599.3	5891.9	6249.0	6389.1	6641.6	6869.5	6169.0
22.5°	5314.5	5314.5	5274.5	5266.8	5371.5	5616.3	6005.8	6176.7	6492.3	6844.8	6096.6
25°	5451.5	5445.4	5345.3	5263.7	5268.3	5414.6	5770.2	5973.5	6366.0	6861.8	6058.1
27.5°	5741.0	5733.3	5607.0	5451.5	5326.8	5325.3	5591.6	5810.3	6266.0	6941.8	6073.5
30°	6141.3	6138.2	6001.2	5805.6	5579.3	5371.5	5530.1	5728.7	6201.3	7086.6	6108.9
32.5°	6578.5	6573.9	6470.7	6264.4	5978.1	5579.3	5594.7	5761.0	6219.8	7279.0	6195.2
35°	7041.9	7034.2	6989.6	6809.4	6493.8	5962.7	5807.2	5936.5	6336.8	7566.9	6364.5
37.5°	7543.8	7551.5	7583.8	7411.4	7080.4	6500.0	6162.8	6250.6	6572.3	7957.9	6640.1
40°	8284.3	8282.8	8293.6	8067.2	7748.6	7157.4	6660.1	6687.8	6966.5	8476.8	7058.8
42.5°	9628.3	9534.4	9249.6	8787.8	8467.5	7908.7	7286.7	7257.4	7448.3	9118.8	7645.4
45°	11434.2	11234.1	10495.1	9609.9	9200.4	8755.4	8058.0	7964.1	8085.7	9890.1	8369.0
47.5°	12987.6	12779.8	11734.5	10465.9	9977.8	9559.1	8961.7	8792.4	8832.4	10753.8	9286.6
50°	13515.7	13414.1	12501.2	11211.0	10730.7	10570.6	10010.2	9803.9	9746.9	11752.9	10350.4
52.5°	13332.5	13324.8	12716.7	11694.4	11420.4	11617.4	11329.6	11090.9	10881.5	12806.0	11432.7
55°	13038.5	13076.9	12804.4	12117.8	12108.6	12573.5	13133.9	12935.3	12328.7	13949.9	12365.7
57.5°	12227.1	12391.8	12755.2	12918.4	13297.1	13772.8	14636.5	14753.5	14036.1	14825.9	13140.1
60°	9920.9	10282.7	11471.2	13033.8	14829.0	16014.4	16450.1	16550.2	15437.1	15554.1	14185.4
62.5°	7041.9	7411.4	8918.6	11562.0	14852.0	18959.6	19152.0	18759.4	16979.7	16633.3	15988.2
65°	3738.0	4022.8	5254.5	8345.9	12876.8	19643.1	23876.9	22706.8	19701.6	18756.3	18317.6
67.5°	1912.1	1998.3	2487.9	4084.4	8852.4	17447.7	28112.2	28935.9	24392.6	20862.5	18205.2
69°	1692.0	1742.8	2067.6	2952.9	5668.6	14778.1	28318.5	31074.3	26848.2	20686.9	16544.0
70°	1638.1	1682.7	1978.3	2672.7	4430.8	12393.4	27528.7	30886.5	27476.4	20018.8	15303.1
72.5°	1390.2	1428.7	1761.2	2361.7	3601.0	6152.0	22362.0	26172.4	24655.9	16676.4	11077.1
75°	929.9	1056.1	1690.4	2213.9	3350.1	3494.8	14742.7	18913.4	17569.4	11248.0	5770.2
77.5°	223.2	240.2	477.3	1761.2	3063.7	3076.0	7582.3	11757.5	9589.9	4009.0	1364.0
80°	120.1	115.5	133.9	349.5	2852.8	2886.7	3413.2	5707.1	3424.0	665.1	449.5
82.5°	84.7	80.1	86.2	146.3	897.6	2629.6	2469.4	2583.4	1419.5	255.6	201.7
85°	30.8	29.3	47.7	132.4	281.7	1511.8	2537.2	2130.7	1150.0	117.0	147.8
87.5°	10.8	9.2	18.5	72.4	86.2	643.5	1565.7	1610.4	452.6	70.8	69.3
90°	0.0	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°	180°
0°	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6	7086.6
2.5°	7023.4	6928.0	6752.5	6572.3	6406.1	6205.9	6105.9	6007.3	5965.8	5950.4	5878.0
5°	6820.2	6658.6	6286.0	5911.9	5567.0	5200.6	4958.9	4764.9	4651.0	4595.6	4507.8
7.5°	6560.0	6295.2	5730.2	5152.9	4615.6	4086.0	3693.4	3391.6	3183.8	3083.7	2992.9
10°	6307.5	5955.0	5151.3	4364.6	3634.9	2932.8	2390.9	1998.3	1747.4	1631.9	1558.0
12.5°	6081.2	5624.0	4592.5	3596.4	2680.4	1858.2	1307.1	994.5	839.1	785.2	759.0
15°	5879.5	5319.1	4064.4	2866.6	1815.1	1062.3	714.4	608.1	583.5	583.5	580.4
17.5°	5688.6	5020.5	3554.8	2181.5	1139.3	649.7	543.5	529.6	529.6	535.8	535.8
20°	5505.4	4735.7	3062.2	1565.7	717.4	515.7	491.1	488.0	491.1	498.8	498.8
22.5°	5348.4	4477.0	2601.8	1074.6	532.7	464.9	452.6	448.0	449.5	454.2	457.2
25°	5231.4	4258.4	2167.7	728.2	458.8	423.4	409.5	401.8	395.7	395.7	398.7
27.5°	5157.5	4073.7	1747.4	529.6	412.6	384.9	363.3	351.0	337.2	329.5	332.5
30°	5103.6	3898.1	1353.3	432.6	369.5	341.8	314.1	294.1	274.0	264.8	267.9
32.5°	5083.6	3756.5	1011.5	381.8	331.0	300.2	266.3	240.2	218.6	210.9	212.5
35°	5137.5	3644.1	740.5	344.9	300.2	261.7	223.2	194.0	177.0	172.4	174.0
37.5°	5279.1	3584.1	554.2	314.1	272.5	229.4	186.3	158.6	147.8	147.8	149.3
40°	5547.0	3582.5	444.9	292.5	247.9	198.6	154.0	133.9	127.8	130.9	132.4
42.5°	5938.0	3664.1	388.0	272.5	226.3	169.4	127.8	113.9	112.4	115.5	117.0
45°	6472.3	3813.5	357.2	255.6	203.2	141.6	107.8	98.5	98.5	103.1	104.7
47.5°	7126.6	4032.1	331.0	238.6	180.1	118.5	92.4	86.2	87.8	92.4	93.9
50°	7914.8	4307.7	304.8	220.2	163.2	98.5	80.1	75.4	77.0	83.1	84.7
52.5°	8812.4	4678.7	283.3	203.2	141.6	81.6	67.7	64.7	67.7	73.9	75.4
55°	9582.2	5011.2	257.1	189.4	113.9	67.7	55.4	55.4	58.5	66.2	67.7
57.5°	10322.7	5359.2	234.0	163.2	89.3	53.9	46.2	47.7	52.3	60.0	61.6
60°	11409.6	5948.8	206.3	137.0	67.7	43.1	38.5	40.0	46.2	53.9	55.4
62.5°	13255.5	6846.4	178.6	113.9	52.3	33.9	30.8	33.9	41.6	50.8	52.3
65°	14921.3	7211.3	146.3	95.5	40.0	26.2	26.2	30.8	40.0	49.3	50.8
67.5°	13993.0	6070.4	113.9	75.4	30.8	20.0	21.6	29.3	38.5	49.3	50.8
69°	12374.9	4963.5	97.0	60.0	26.2	18.5	20.0	29.3	38.5	47.7	49.3
70°	11114.0	4190.7	86.2	50.8	23.1	18.5	20.0	27.7	38.5	47.7	49.3
72.5°	7443.7	2263.1	69.3	36.9	21.6	16.9	16.9	27.7	36.9	46.2	47.7
75°	3199.2	625.1	55.4	26.2	18.5	15.4	15.4	26.2	35.4	44.6	47.7
77.5°	585.0	158.6	44.6	23.1	18.5	15.4	13.9	24.6	33.9	43.1	44.6
80°	232.5	78.5	35.4	20.0	16.9	13.9	12.3	23.1	32.3	41.6	43.1
82.5°	140.1	44.6	29.3	18.5	16.9	12.3	10.8	20.0	30.8	40.0	41.6
85°	113.9	30.8	23.1	18.5	15.4	12.3	9.2	18.5	27.7	38.5	40.0
87.5°	55.4	21.6	21.6	16.9	15.4	12.3	9.2	16.9	26.2	36.9	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)