

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: P193594

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24062 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 333  
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

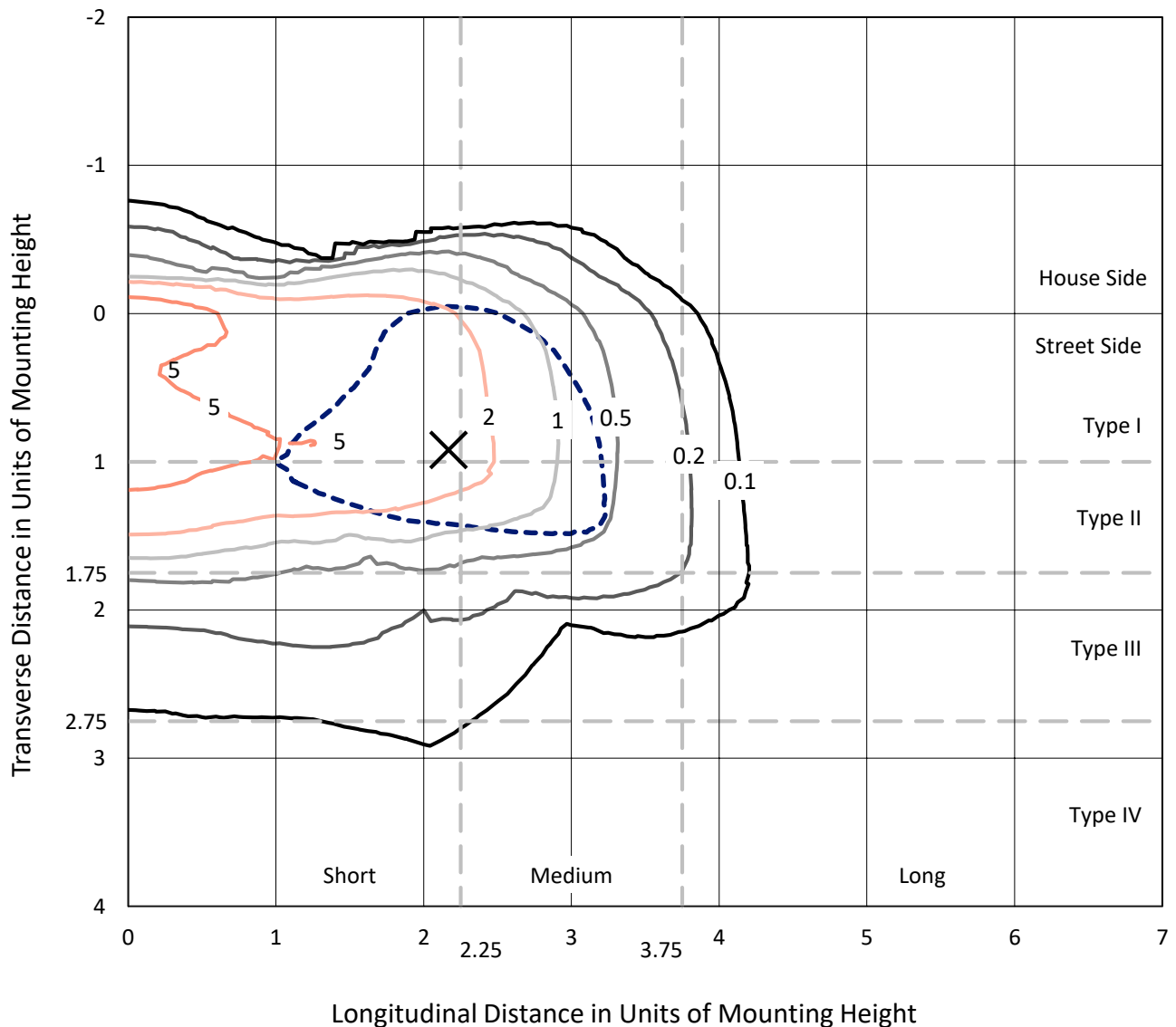


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

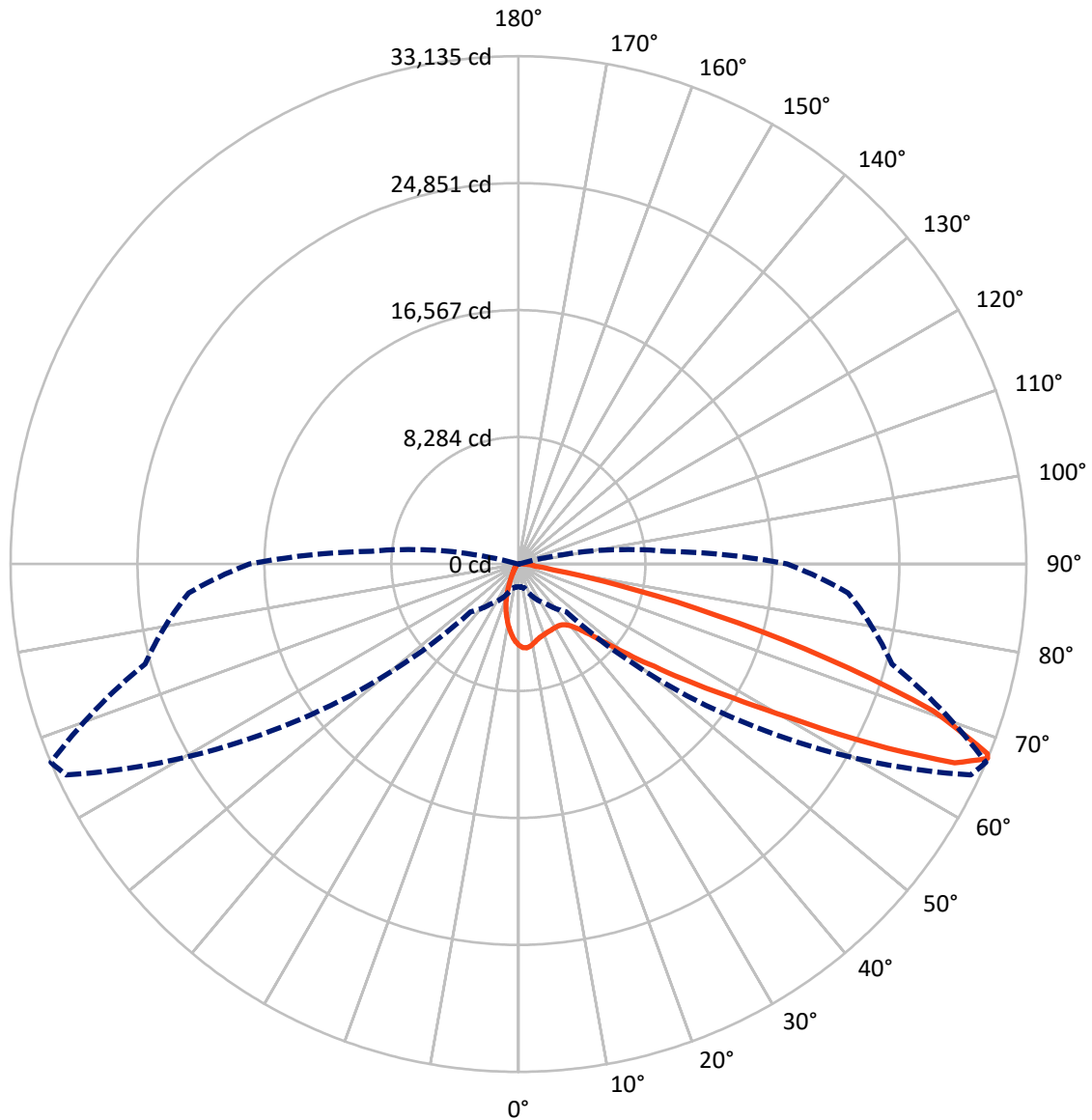


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2498.3	0.0	2498.3
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	21563.6	0.0	21563.6
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	24062.0	0.0	24062.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.8	1.8
10°-20°	919.0	3.8
20°-30°	1336.2	5.6
30°-40°	2084.4	8.7
40°-50°	3692.5	15.3
50°-60°	5843.0	24.3
60°-70°	6692.4	27.8
70°-80°	2775.9	11.5
80°-90°	286.7	1.2
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°	24062.0	100.0
0°-180°	24062.0	100.0

**Coefficient of Utilization**



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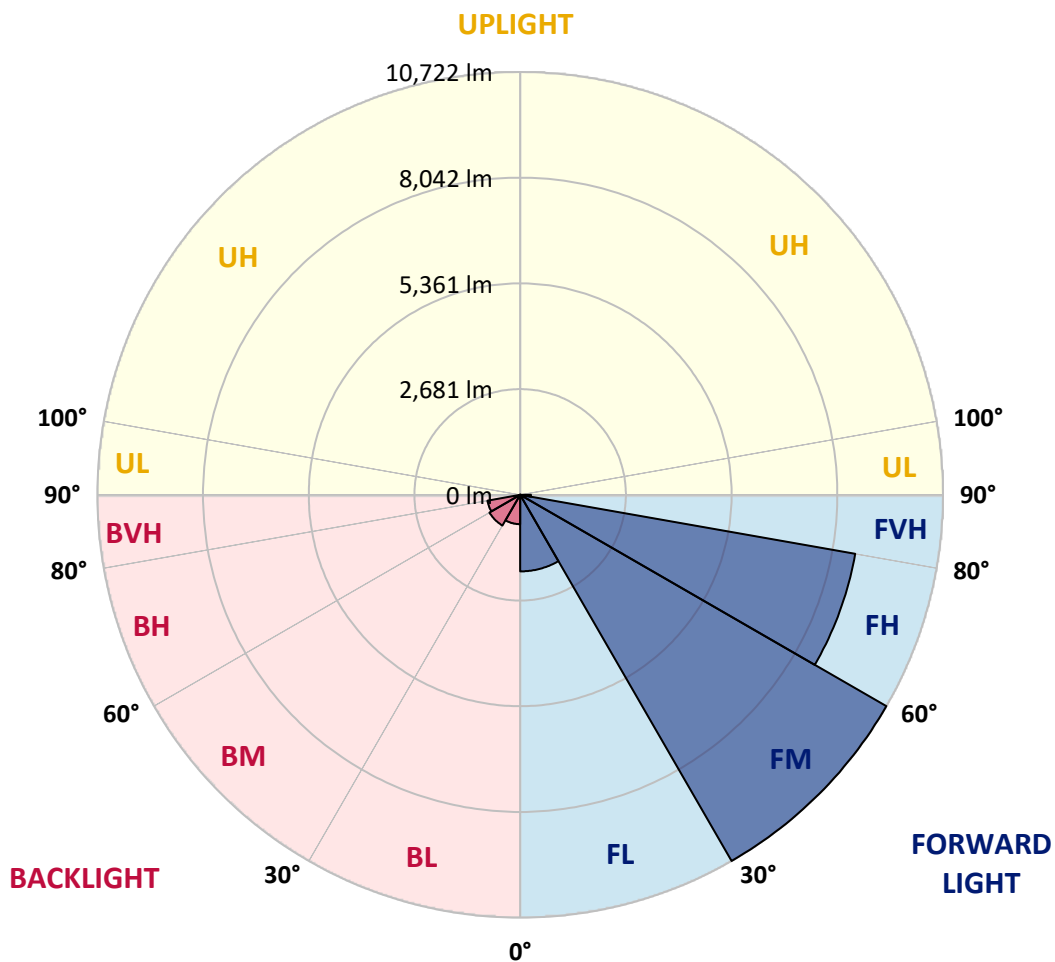
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1941.4	8.1			
FM (30°-60°)	10722.1	44.6			
FH (60°-80°)	8626.3	35.9			G4/12000
FVH (80°-90°)	273.8	1.1			G3/500
BL (0°-30°)	745.5	3.1	B2/1000		
BM (30°-60°)	897.9	3.7	B1/1000		
BH (60°-80°)	842.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	12.9	0.1			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6
2.5°	5486.2	5497.4	5496.0	5504.5	5524.1	5525.5	5505.9	5468.0	5459.5	5410.4	5324.8
5°	5059.5	5091.8	5111.5	5191.5	5281.3	5389.4	5470.8	5500.2	5496.0	5460.9	5331.8
7.5°	4572.5	4604.8	4627.3	4721.3	4840.6	5025.9	5237.8	5411.8	5427.3	5465.2	5326.2
10°	4248.3	4253.9	4284.8	4374.6	4499.6	4689.0	4941.7	5246.2	5292.5	5431.5	5312.2
12.5°	3981.7	3985.9	4026.6	4123.4	4256.8	4447.6	4712.9	5065.2	5136.7	5389.4	5309.4
15°	3792.2	3807.6	3844.1	3945.2	4086.9	4276.4	4548.7	4931.8	5017.4	5373.9	5334.6
17.5°	3729.0	3745.9	3757.1	3830.1	3959.2	4144.5	4423.8	4844.8	4941.7	5382.3	5383.8
20°	3795.0	3807.6	3782.4	3800.6	3880.6	4046.2	4318.5	4770.4	4885.5	5392.2	5446.9
22.5°	4040.6	4046.2	3977.5	3897.5	3883.4	3974.7	4235.7	4711.5	4835.0	5418.8	5521.3
25°	4461.7	4451.8	4339.6	4166.9	4004.1	3962.0	4186.6	4675.0	4809.7	5446.9	5598.5
27.5°	4969.7	4983.8	4829.4	4578.2	4268.0	4046.2	4179.6	4659.6	4798.5	5466.6	5665.9
30°	5587.3	5606.9	5430.1	5114.3	4669.4	4253.9	4244.1	4656.7	4791.5	5453.9	5671.5
32.5°	6217.4	6241.3	6102.3	5776.7	5205.5	4602.0	4390.1	4687.6	4805.5	5410.4	5639.2
35°	6877.1	6910.7	6818.1	6538.8	5932.5	5104.5	4646.9	4781.7	4871.5	5406.2	5606.9
37.5°	7787.9	7818.8	7644.8	7348.6	6812.5	5778.1	5059.5	4958.5	5027.3	5473.6	5615.3
40°	9147.9	9143.7	8694.6	8241.2	7779.5	6634.3	5639.2	5278.5	5313.6	5677.1	5719.2
42.5°	10630.0	10622.9	9959.1	9270.0	8853.2	7688.3	6401.3	5831.5	5807.6	6051.8	5988.7
45°	11772.4	11771.0	11229.2	10453.1	10145.8	8898.1	7386.5	6600.6	6564.1	6660.9	6485.5
47.5°	12259.4	12267.8	11995.5	11449.6	11578.7	10534.5	8628.6	7714.9	7660.2	7620.9	7354.2
50°	11880.5	11897.3	11919.8	11813.1	12629.9	12733.8	10294.5	9285.4	9258.8	9083.3	8666.5
52.5°	10642.6	10728.2	10992.1	11330.3	12994.8	14844.6	12906.4	11236.3	11093.1	10906.4	10447.5
55°	8557.0	8651.1	9152.1	9973.1	12451.7	16231.3	16566.7	13751.3	13512.7	12955.5	12293.1
57.5°	5663.0	5809.0	6536.0	7580.2	10874.2	16454.4	20218.5	17241.8	16410.9	14885.3	14138.7
60°	3119.9	3260.3	4049.0	4995.0	7853.9	15351.3	22674.6	21786.2	20318.2	17042.5	16380.0
62.5°	1921.4	1997.2	2579.6	3459.6	4710.1	12116.2	23182.7	27497.0	25797.4	19820.0	19087.3
65°	1529.8	1562.1	1847.0	2828.0	3376.8	7206.9	21542.0	31850.6	31283.6	23182.7	21511.1
67°	1484.9	1497.5	1632.2	2428.0	3183.1	4418.2	18047.4	32559.3	33134.8	25217.7	21586.9
67.5°	1494.7	1508.7	1636.5	2317.1	3177.5	4060.3	16843.2	32280.1	33007.1	25379.1	21251.5
70°	1441.4	1484.9	1873.6	2315.7	3021.7	3374.0	10086.8	27968.6	28725.0	23581.3	18031.9
72.5°	510.9	513.7	809.8	1873.6	3285.5	3410.5	5065.2	20503.4	21063.4	18038.9	13000.4
75°	303.2	258.2	269.5	533.3	3139.6	3312.2	2922.0	13101.5	13310.6	10336.6	6583.7
77.5°	209.1	182.5	188.1	235.8	1195.8	3265.9	2321.4	6832.1	6609.0	3625.2	1402.1
80°	119.3	105.3	112.3	206.3	435.1	3047.0	2189.4	2770.5	2362.1	614.7	387.4
82.5°	63.2	53.3	64.6	169.8	303.2	1898.9	2193.6	1338.9	1061.0	207.7	263.9
85°	22.5	18.2	30.9	116.5	202.1	582.4	2033.6	1125.6	884.2	101.1	200.7
87.5°	4.2	4.2	12.6	47.7	81.4	178.2	1202.8	668.1	447.7	60.3	137.5
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°	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6	5306.6
2.5°	5289.7	5229.4	5148.0	5048.3	4930.4	4826.6	4749.4	4669.4	4652.5	4624.5	4620.3
5°	5254.6	5150.8	4948.7	4717.1	4470.1	4246.9	4065.9	3904.5	3832.9	3771.2	3764.1
7.5°	5202.7	5046.9	4703.1	4329.7	3943.8	3592.9	3295.4	3084.9	2891.2	2798.5	2784.5
10°	5142.4	4919.2	4426.6	3908.7	3375.4	2879.9	2437.8	2067.3	1842.8	1709.4	1692.6
12.5°	5086.2	4794.3	4144.5	3472.2	2763.5	2101.0	1532.6	1178.9	943.1	847.7	836.5
15°	5059.5	4693.2	3880.6	3025.9	2123.5	1337.5	837.9	648.4	571.2	548.8	547.4
17.5°	5056.7	4607.6	3622.4	2564.2	1487.7	777.5	546.0	498.2	482.8	477.2	477.2
20°	5055.3	4526.2	3364.1	2085.6	944.5	517.9	454.7	443.5	432.3	425.3	425.3
22.5°	5070.8	4453.2	3094.7	1597.2	595.1	419.6	400.0	388.8	374.7	364.9	363.5
25°	5086.2	4397.1	2819.6	1136.8	430.9	364.9	345.3	329.8	310.2	297.5	296.1
27.5°	5089.0	4326.9	2524.9	760.7	360.7	318.6	293.3	269.5	247.0	234.4	233.0
30°	5046.9	4209.0	2197.9	513.7	318.6	276.5	242.8	217.5	196.5	186.7	186.7
32.5°	4964.1	4063.1	1838.6	387.4	283.5	237.2	200.7	176.8	162.8	158.6	157.2
35°	4889.7	3905.9	1469.4	328.4	254.0	200.7	164.2	148.8	140.3	138.9	137.5
37.5°	4846.2	3779.6	1122.8	297.5	226.0	168.4	138.9	127.7	123.5	120.7	122.1
40°	4879.9	3674.3	829.5	272.3	197.9	140.3	117.9	112.3	108.1	106.7	106.7
42.5°	5027.3	3656.1	616.1	249.8	171.2	116.5	102.5	98.2	95.4	94.0	95.4
45°	5414.6	3768.3	478.6	228.8	144.6	98.2	87.0	85.6	84.2	84.2	84.2
47.5°	5997.1	3999.9	398.6	204.9	120.7	84.2	75.8	74.4	73.0	74.4	74.4
50°	6983.7	4423.8	356.5	181.0	99.6	71.6	64.6	64.6	64.6	64.6	66.0
52.5°	8484.0	5257.4	328.4	157.2	81.4	60.3	54.7	54.7	56.1	56.1	57.5
55°	10155.6	6363.4	303.2	133.3	68.8	50.5	44.9	46.3	47.7	49.1	49.1
57.5°	11968.9	7588.6	282.1	109.5	58.9	40.7	37.9	39.3	40.7	43.5	43.5
60°	14156.9	8914.9	251.2	85.6	49.1	32.3	29.5	32.3	36.5	39.3	40.7
62.5°	16559.7	10197.7	211.9	67.4	40.7	25.3	23.9	29.5	35.1	37.9	39.3
65°	18201.7	10600.5	162.8	54.7	30.9	18.2	19.6	26.7	33.7	37.9	37.9
67°	17536.5	9611.0	133.3	46.3	25.3	14.0	18.2	26.7	33.7	36.5	37.9
67.5°	17074.7	9223.7	127.7	44.9	23.9	14.0	18.2	26.7	33.7	37.9	37.9
70°	13893.1	6929.0	106.7	33.7	19.6	12.6	15.4	25.3	32.3	36.5	36.5
72.5°	9653.1	4272.2	95.4	23.9	16.8	11.2	14.0	23.9	30.9	35.1	36.5
75°	4589.4	1546.6	81.4	18.2	15.4	9.8	12.6	23.9	30.9	35.1	35.1
77.5°	936.1	359.3	66.0	15.4	12.6	9.8	11.2	22.5	29.5	33.7	33.7
80°	307.4	138.9	49.1	14.0	12.6	9.8	11.2	21.1	29.5	32.3	33.7
82.5°	221.7	70.2	32.3	14.0	12.6	9.8	9.8	21.1	28.1	32.3	32.3
85°	169.8	49.1	21.1	14.0	12.6	9.8	9.8	19.6	26.7	30.9	30.9
87.5°	112.3	19.6	16.8	14.0	12.6	9.8	9.8	19.6	25.3	29.5	30.9
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)