

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: P191238

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-SL4-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37732.6 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

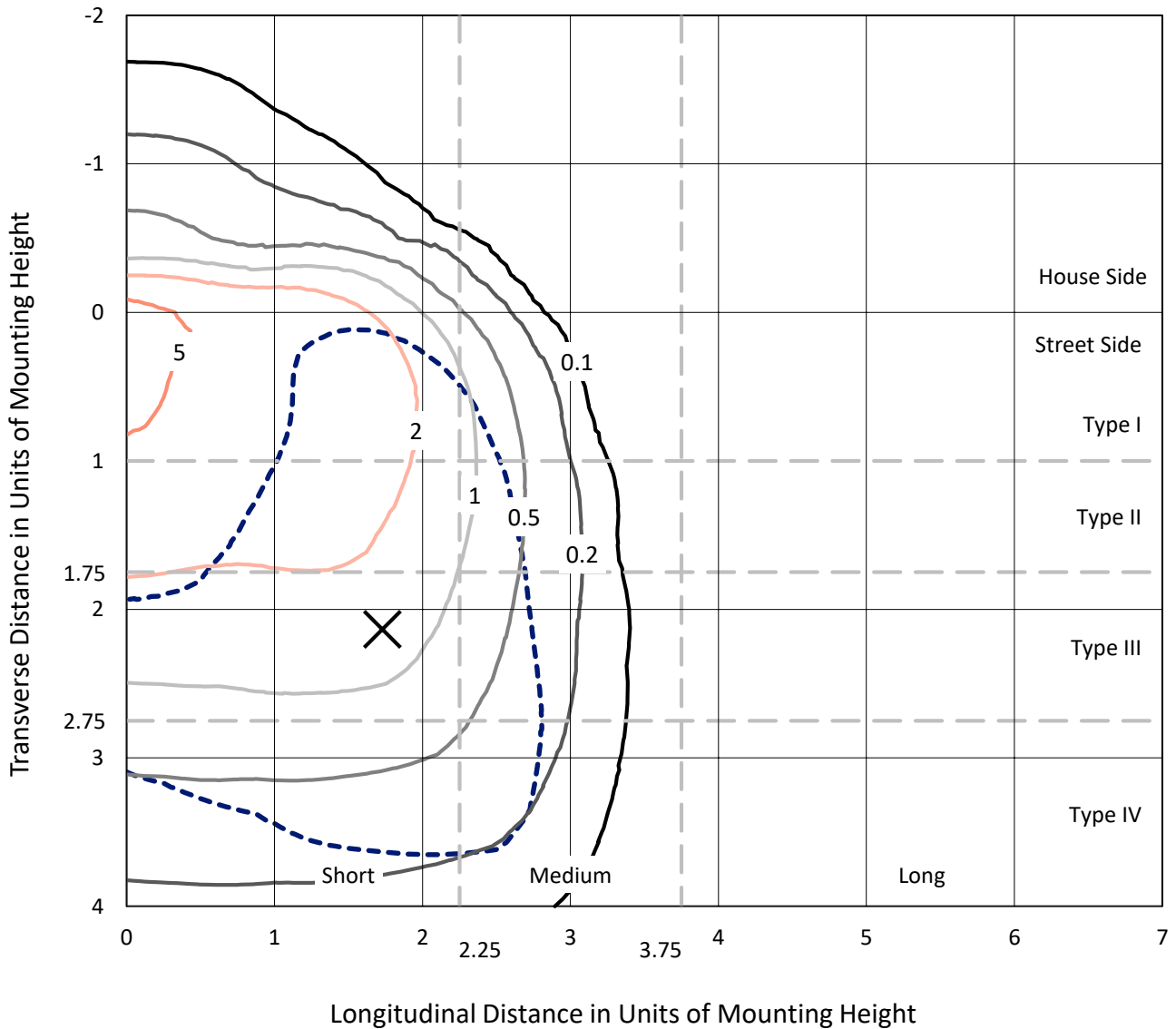
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

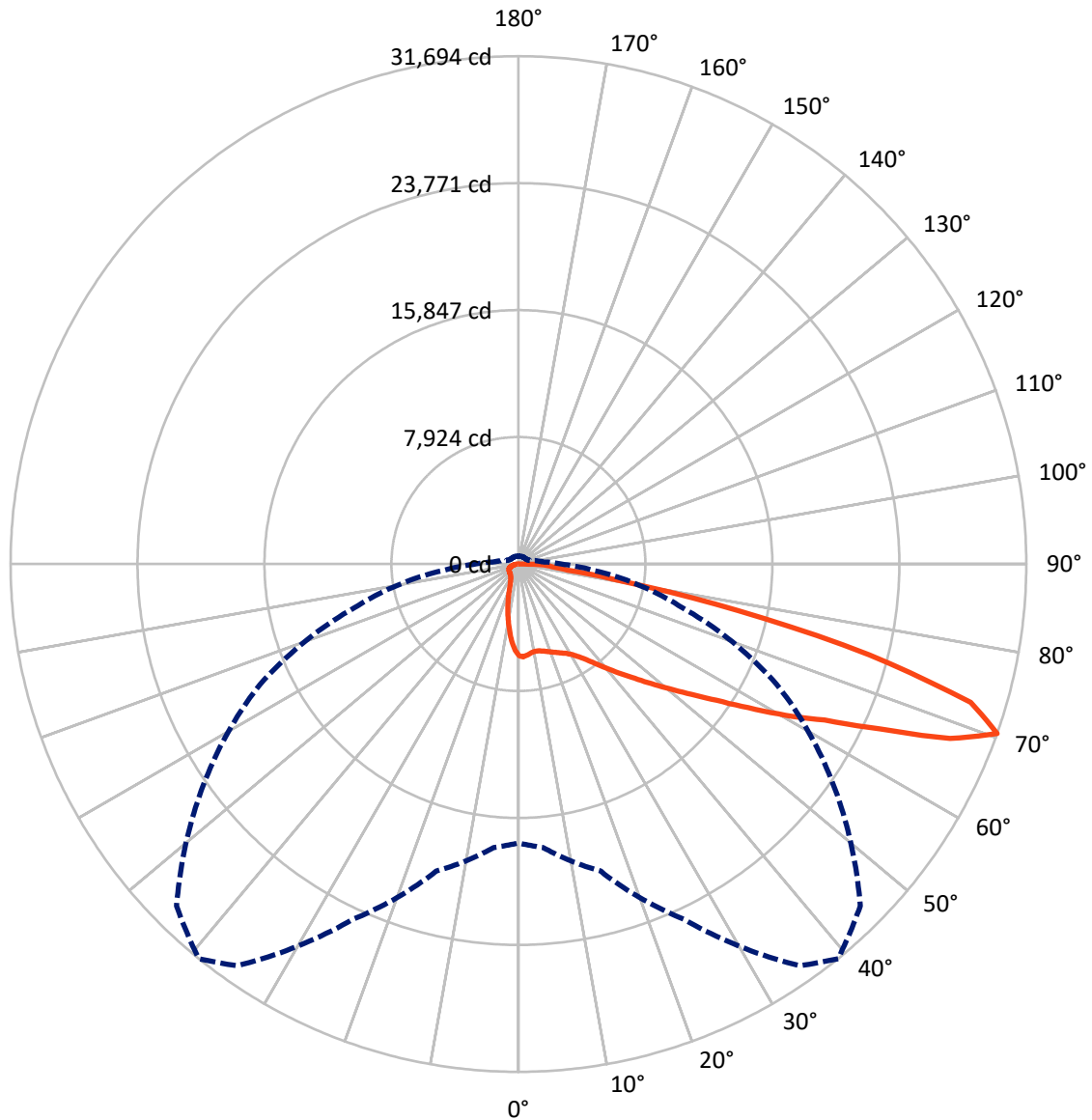
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4291.5	0.0	4291.5
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	33441.1	0.0	33441.1
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	37732.6	0.0	37732.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	491.6	1.3
10°-20°	1228.8	3.3
20°-30°	1913.3	5.1
30°-40°	2980.6	7.9
40°-50°	5003.9	13.3
50°-60°	7949.1	21.1
60°-70°	10603.3	28.1
70°-80°	6403.0	17.0
80°-90°	1158.9	3.1
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°	37732.6	100.0
0°-180°	37732.6	100.0



REPORT NUMBER: P191238

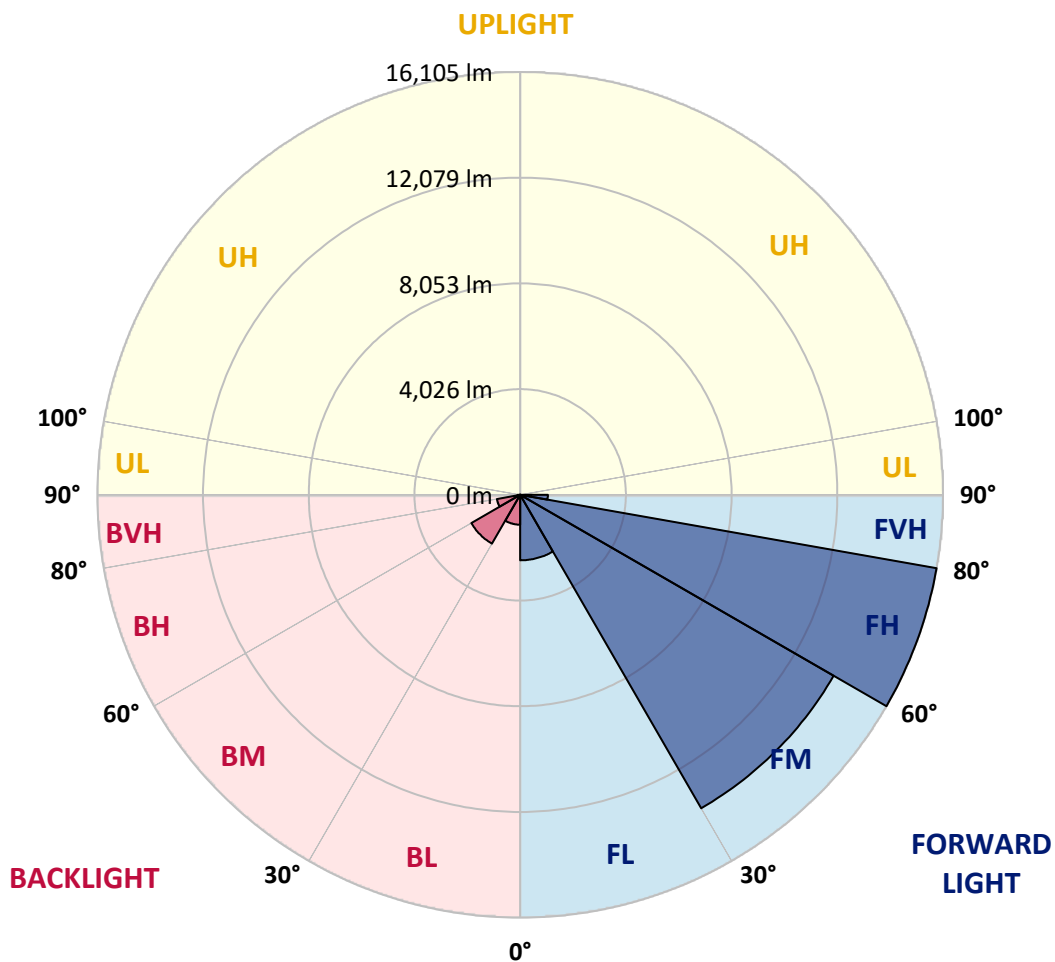
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2495.3	6.6			
FM	(30°-60°)	13786.0	36.5			
FH	(60°-80°)	16105.4	42.7			G5
FVH	(80°-90°)	1054.4	2.8			G5
BL	(0°-30°)	1138.4	3.0	B3/2500		
BM	(30°-60°)	2147.6	5.7	B2/2500		
BH	(60°-80°)	901.0	2.4	B2/1000		G2/1000
BVH	(80°-90°)	104.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4
2.5°	5839.6	5837.8	5822.4	5810.9	5801.3	5797.5	5805.1	5776.4	5751.4	5720.8	5688.1
5°	5795.5	5793.6	5768.6	5745.6	5722.6	5714.9	5713.1	5661.2	5630.5	5584.5	5523.1
7.5°	5747.6	5737.9	5705.4	5667.0	5626.7	5607.5	5588.4	5521.2	5486.7	5440.7	5369.7
10°	5697.7	5686.2	5655.5	5617.1	5578.8	5550.0	5517.4	5452.1	5415.7	5381.1	5298.7
12.5°	5645.9	5636.3	5628.6	5611.4	5584.5	5559.5	5534.7	5479.0	5440.7	5400.4	5304.4
15°	5638.2	5634.4	5651.7	5663.2	5647.8	5632.5	5605.6	5557.7	5517.4	5477.1	5352.4
17.5°	5699.6	5697.7	5741.8	5772.5	5764.8	5737.9	5701.5	5647.8	5615.2	5580.7	5425.3
20°	5833.9	5843.5	5897.2	5937.5	5899.2	5860.8	5801.3	5726.5	5709.2	5693.8	5500.1
22.5°	6087.2	6096.7	6135.0	6150.4	6050.7	5995.0	5912.6	5816.6	5805.1	5816.6	5590.2
25°	6482.3	6472.7	6467.0	6409.4	6227.2	6140.9	6035.3	5935.6	5941.3	5993.2	5716.9
27.5°	7006.1	6954.2	6873.7	6701.0	6411.3	6315.4	6186.9	6094.8	6131.3	6231.0	5906.8
30°	7549.0	7491.4	7305.3	7023.3	6653.1	6547.6	6403.7	6300.0	6396.0	6553.3	6160.0
32.5°	8051.5	8043.9	7771.5	7408.9	6986.9	6894.8	6750.9	6633.8	6789.2	7029.1	6539.8
35°	8600.3	8617.5	8291.4	7856.0	7437.7	7341.8	7238.2	7149.9	7357.2	7687.1	7090.5
37.5°	9187.3	9221.8	8836.2	8345.1	7951.8	7911.5	7850.1	7811.8	8132.2	8588.7	7859.7
40°	9971.9	9937.4	9402.1	8897.6	8583.0	8581.0	8561.9	8607.9	9141.3	9766.6	8847.7
42.5°	10812.2	10710.5	10002.6	9490.4	9275.5	9340.8	9379.1	9567.1	10355.6	11197.8	10052.5
45°	11717.7	11489.4	10626.1	10117.7	10044.9	10183.0	10313.4	10722.1	11784.8	12826.5	11372.3
47.5°	12440.9	12220.3	11270.7	10775.8	10934.9	11144.0	11395.4	12041.9	13384.8	14509.0	12675.0
50°	13010.7	12866.8	11921.1	11543.1	11915.2	12237.6	12648.1	13536.3	15050.0	16147.3	13881.6
52.5°	13563.2	13455.8	12577.2	12329.6	13066.4	13511.4	14069.7	15140.2	16757.4	17758.7	14896.5
55°	14062.0	13985.3	13283.1	13309.9	14420.7	15000.0	15702.2	16966.5	18618.2	19195.7	15755.9
57.5°	14624.1	14526.2	14088.8	14539.7	16160.7	16912.8	17825.9	19019.2	20364.0	20473.3	16410.1
60°	15190.0	15105.6	14982.9	15959.3	18370.8	19161.1	20026.3	21008.5	22134.7	21465.2	16371.7
62.5°	15681.1	15690.7	15907.5	17449.9	20534.7	21449.8	22504.9	23475.7	23736.6	21637.8	15161.3
65°	16513.7	16665.3	17311.8	19560.1	23581.2	24805.1	26100.1	25944.7	24179.7	20024.5	12565.6
67.5°	17503.6	17770.3	19080.6	22372.5	27431.4	29056.3	29557.0	26502.9	22405.2	16277.7	8957.1
70°	17403.9	17770.3	19844.1	24469.4	30604.4	31694.2	30174.8	23985.9	17791.4	10633.8	4757.6
72.5°	15454.7	15978.5	18288.2	23508.2	29605.0	29509.1	26195.9	17881.6	10570.5	4270.4	1858.9
75°	11779.1	12308.6	14296.0	18572.2	23398.9	22593.2	18587.5	9877.9	4011.4	1695.8	1172.2
77.5°	6775.8	7186.4	8721.1	11389.6	14844.7	14017.9	10346.0	4393.2	1952.9	1181.7	915.1
80°	3783.1	4011.4	4943.7	5778.2	7274.6	6668.4	4629.2	2729.9	1458.0	857.5	705.9
82.5°	2990.8	3194.2	3998.0	3645.0	3322.6	3065.6	2659.0	2430.6	1164.5	541.0	422.1
85°	2612.9	2806.7	3384.1	2870.0	2269.5	2081.5	2160.2	2392.3	905.5	326.1	360.7
87.5°	2421.0	2680.0	3015.8	2211.9	1766.8	1565.4	1993.2	2622.4	291.6	203.4	145.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191238

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL4-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4	5728.4
2.5°	5659.4	5628.6	5578.8	5534.7	5465.5	5429.1	5388.8	5360.1	5337.0	5317.8	5348.5
5°	5484.8	5427.2	5321.7	5208.5	5074.2	4968.7	4880.5	4797.9	4740.4	4702.0	4728.9
7.5°	5319.8	5225.7	5060.7	4855.5	4625.3	4429.6	4268.5	4126.5	4028.7	3965.4	3990.3
10°	5225.7	5108.7	4853.6	4531.3	4191.7	3886.7	3633.5	3414.8	3263.2	3176.9	3190.3
12.5°	5202.7	5051.2	4698.2	4255.1	3790.7	3366.8	3010.0	2706.9	2494.0	2382.7	2386.5
15°	5220.0	5026.3	4552.4	3990.3	3403.3	2868.0	2423.0	2054.6	1807.1	1680.5	1678.7
17.5°	5248.8	5007.0	4398.9	3704.4	3010.0	2388.4	1891.5	1530.8	1312.2	1210.6	1202.9
20°	5279.4	4976.3	4226.2	3395.6	2601.4	1943.4	1481.0	1199.0	1060.9	1005.3	1001.4
22.5°	5323.6	4949.5	4047.8	3069.5	2200.5	1582.7	1218.2	1028.3	955.3	926.6	922.8
25°	5394.6	4936.0	3858.0	2729.9	1839.8	1323.7	1060.9	943.9	901.6	882.5	880.6
27.5°	5513.5	4955.3	3679.6	2399.9	1546.3	1149.1	972.6	901.6	870.9	853.7	851.8
30°	5667.0	5014.7	3491.5	2087.2	1318.0	1030.2	918.9	872.9	847.9	830.6	830.6
32.5°	5922.2	5114.4	3293.9	1816.8	1154.9	947.7	878.6	847.9	826.9	813.5	811.5
35°	6298.2	5302.5	3109.8	1592.3	1037.9	888.2	844.1	821.1	805.8	798.1	798.1
37.5°	6844.9	5599.8	2946.7	1431.1	966.9	847.9	811.5	794.2	784.6	784.6	784.6
40°	7579.7	6010.3	2814.3	1323.7	926.6	819.2	786.5	773.1	767.3	769.3	769.3
42.5°	8487.1	6543.7	2726.1	1248.9	907.5	801.9	769.3	757.8	752.0	750.1	752.0
45°	9521.1	7149.9	2716.4	1193.3	888.2	790.4	757.8	746.2	734.8	727.1	727.1
47.5°	10526.4	7765.7	2795.1	1174.0	867.2	776.9	748.2	736.6	719.4	702.2	702.2
50°	11414.6	8289.5	2900.7	1181.7	859.5	757.8	732.8	727.1	700.2	681.1	679.1
52.5°	12120.5	8692.3	2987.0	1204.7	867.2	744.3	713.6	715.6	686.8	665.7	663.8
55°	12686.4	8957.1	2964.0	1227.7	884.3	736.6	696.4	700.2	677.2	656.1	656.1
57.5°	12934.0	8859.3	2708.8	1208.6	897.8	738.6	682.9	698.3	679.1	659.9	659.9
60°	12402.6	7990.2	2231.2	1124.2	880.6	732.8	677.2	705.9	704.1	684.9	682.9
62.5°	10794.9	6434.4	1730.4	999.5	821.1	704.1	661.8	704.1	725.2	719.4	717.5
65°	8320.2	4583.1	1321.8	865.2	740.5	656.1	621.5	659.9	688.8	696.4	694.5
67.5°	5400.4	2808.5	1018.7	738.6	650.4	600.5	569.8	587.1	592.8	592.8	588.9
70°	2655.1	1511.7	811.5	621.5	558.2	541.0	523.8	514.1	504.5	496.8	496.8
72.5°	1310.3	988.0	667.6	525.7	481.5	473.8	470.0	458.5	450.8	441.2	437.4
75°	968.8	803.8	567.8	443.1	414.4	406.7	414.4	404.8	402.8	395.2	391.4
77.5°	796.2	684.9	489.2	379.8	354.9	341.5	353.0	354.9	356.8	345.3	341.5
80°	646.5	579.4	408.7	314.7	291.6	282.0	289.7	305.0	308.8	291.6	284.0
82.5°	466.2	473.8	330.0	245.5	226.4	218.7	234.1	253.2	257.1	232.1	226.4
85°	391.4	395.2	253.2	174.6	155.4	143.9	168.8	188.0	201.4	176.5	170.7
87.5°	163.1	232.1	145.8	97.8	86.3	74.8	90.1	99.7	120.8	111.3	109.4
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)