

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: P269715

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269715  
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-10-LED-E1-SL3-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 615mA 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: 28812.4 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

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

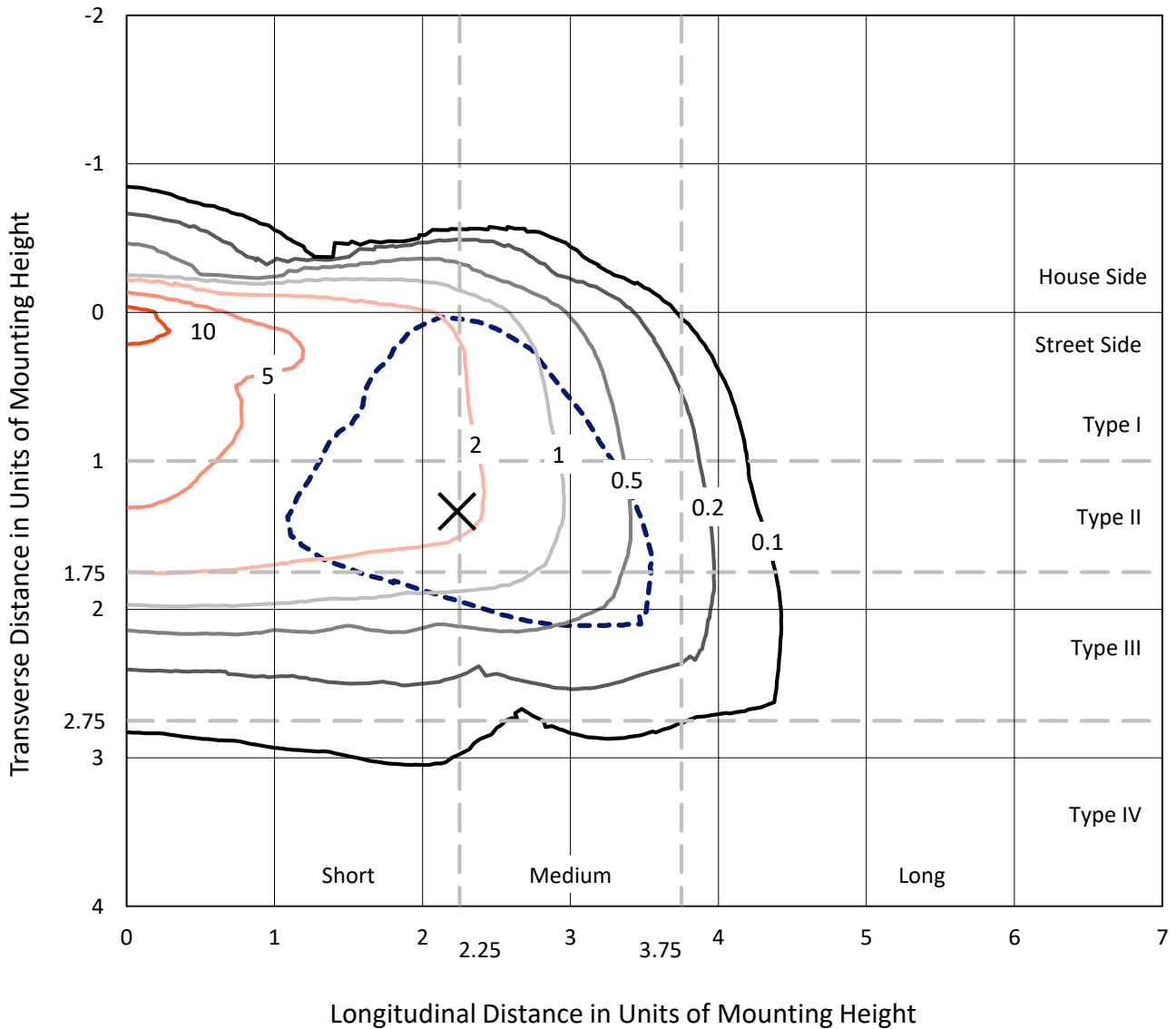


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CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7027-600-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

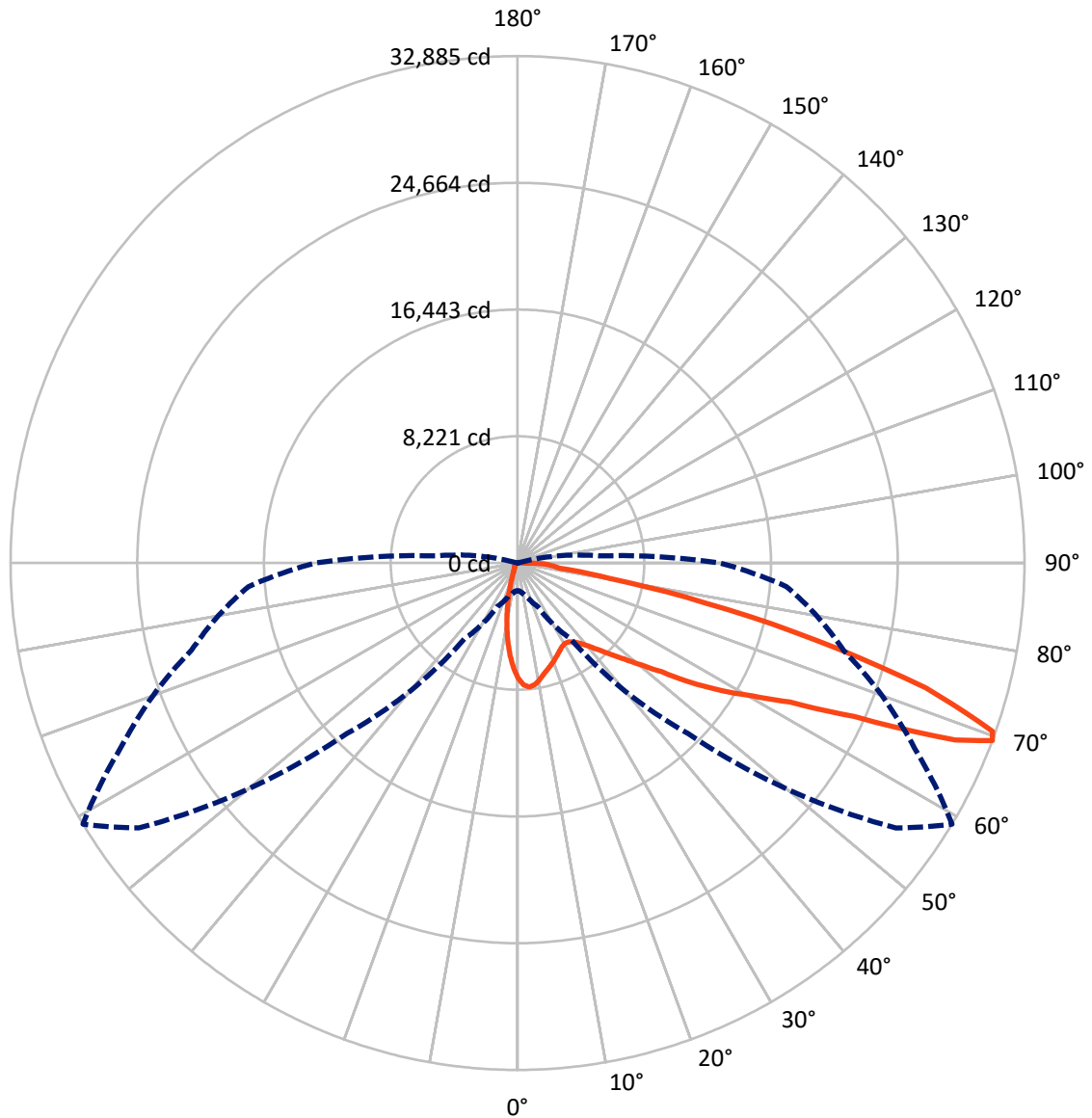


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type III - Short - Non-Cutoff

REPORT NUMBER: P269715

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7027-600-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P269715

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL3-7027-600-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2346.4	0.0	2346.4
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	26466.0	0.0	26466.0
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	28812.4	0.0	28812.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.7	2.1
10°-20°	1257.8	4.4
20°-30°	1692.6	5.9
30°-40°	2457.5	8.5
40°-50°	4091.9	14.2
50°-60°	6383.3	22.2
60°-70°	7898.8	27.4
70°-80°	4003.0	13.9
80°-90°	418.9	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°	28812.4	100.0
0°-180°	28812.4	100.0



REPORT NUMBER: P269715

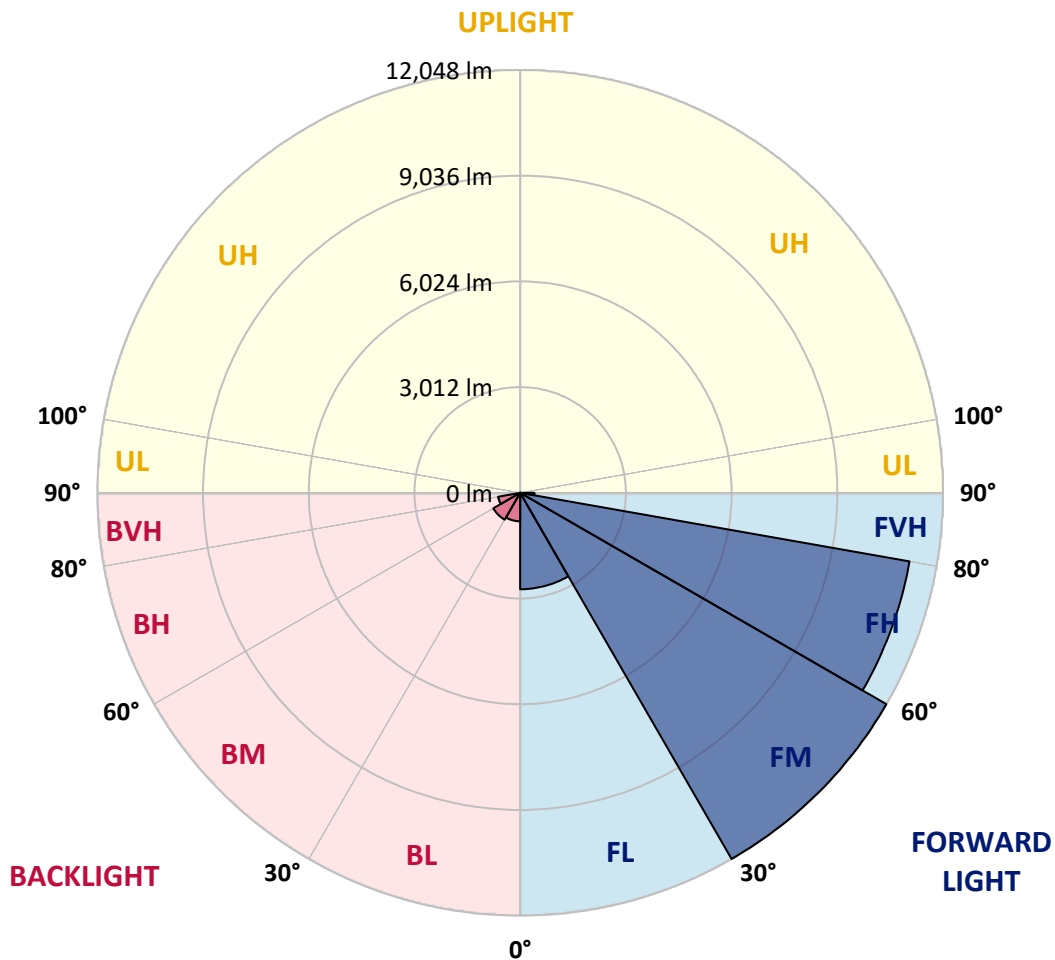
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2746.9	9.5			
FM	(30°-60°)	12048.5	41.8			
FH	(60°-80°)	11264.6	39.1			G4/12000
FVH	(80°-90°)	406.0	1.4			G3/500
BL	(0°-30°)	812.2	2.8	B2/1000		
BM	(30°-60°)	884.1	3.1	B1/1000		
BH	(60°-80°)	637.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.9	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





REPORT NUMBER: P269715

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5
2.5°	8219.6	8216.3	8180.4	8164.2	8135.0	8073.0	7976.8	7926.4	7844.9	7703.1	7512.4
5°	8144.7	8183.7	8204.8	8206.6	8227.8	8204.8	8118.6	8076.2	7963.8	7735.8	7393.6
7.5°	7636.3	7651.0	7711.3	7763.4	7864.4	7960.5	7991.5	7973.5	7906.8	7662.5	7207.8
10°	7092.2	7106.9	7178.4	7246.9	7383.8	7532.1	7688.5	7721.0	7748.7	7558.1	7028.6
12.5°	6622.9	6637.5	6710.9	6800.4	6960.2	7142.7	7385.4	7439.1	7561.4	7458.7	6885.1
15°	6218.8	6225.3	6297.1	6407.9	6598.5	6833.0	7108.5	7194.7	7382.1	7388.6	6759.7
17.5°	5875.1	5891.4	5935.5	6041.3	6249.8	6539.8	6860.7	6984.6	7204.5	7330.0	6637.5
20°	5664.9	5681.2	5679.5	5738.3	5925.6	6235.1	6613.1	6761.5	7028.6	7269.8	6528.4
22.5°	5624.2	5624.2	5581.8	5573.7	5684.5	5943.5	6355.7	6536.5	6870.5	7243.7	6451.8
25°	5769.2	5762.6	5656.7	5570.4	5575.3	5730.1	6106.5	6321.6	6737.0	7261.5	6411.2
27.5°	6075.4	6067.3	5933.8	5769.2	5637.3	5635.5	5917.5	6148.8	6631.1	7346.2	6427.5
30°	6499.1	6495.9	6350.8	6143.9	5904.4	5684.5	5852.3	6062.4	6562.7	7499.5	6464.9
32.5°	6961.9	6957.0	6847.8	6629.4	6326.5	5904.4	5920.6	6096.6	6582.2	7703.1	6556.1
35°	7452.2	7444.1	7396.9	7206.3	6872.3	6310.1	6145.6	6282.3	6705.9	8007.9	6735.3
37.5°	7983.3	7991.5	8025.6	7843.2	7492.9	6878.7	6522.0	6614.8	6955.2	8421.6	7027.0
40°	8767.0	8765.4	8776.8	8537.3	8200.1	7574.4	7048.1	7077.4	7372.4	8970.7	7470.1
42.5°	10189.4	10090.0	9788.7	9299.9	8961.0	8369.5	7711.3	7680.2	7882.4	9650.1	8090.9
45°	12100.4	11888.7	11106.6	10169.8	9736.4	9265.6	8527.5	8428.2	8556.9	10466.3	8856.6
47.5°	13744.3	13524.4	12418.2	11075.7	10559.1	10116.1	9483.9	9304.6	9347.0	11380.4	9827.6
50°	14303.3	14195.6	13229.6	11864.3	11356.0	11186.5	10593.4	10375.2	10314.8	12437.8	10953.6
52.5°	14109.4	14101.2	13457.7	12375.8	12085.7	12294.4	11989.7	11737.2	11515.6	13552.1	12098.8
55°	13798.1	13838.8	13550.6	12823.8	12814.1	13306.1	13899.1	13689.0	13047.1	14762.7	13086.1
57.5°	12939.5	13113.8	13498.4	13671.0	14071.9	14575.3	15489.4	15613.1	14854.0	15689.7	13905.8
60°	10498.9	10881.8	12139.5	13793.2	15693.0	16947.6	17408.7	17514.6	16336.5	16460.4	15011.9
62.5°	7452.2	7843.2	9438.3	12235.8	15717.5	20064.3	20267.9	19852.5	17969.1	17602.5	16919.8
65°	3955.9	4257.2	5560.7	8832.1	13627.1	20787.7	25268.2	24029.9	20849.7	19849.2	19384.9
67.5°	2023.5	2114.8	2632.9	4322.5	9368.2	18464.3	29750.2	30621.9	25814.0	22078.1	19265.9
69°	1790.5	1844.3	2188.1	3124.9	5998.9	15639.2	29968.5	32885.0	28412.6	21892.4	17508.0
70°	1733.5	1780.8	2093.6	2828.5	4689.1	13115.6	29132.8	32686.1	29077.2	21185.2	16194.9
72.5°	1471.2	1511.9	1863.9	2499.3	3810.8	6510.5	23664.9	27697.4	26092.4	17648.1	11722.5
75°	984.1	1117.8	1789.0	2342.9	3545.3	3698.4	15601.8	20015.3	18593.1	11903.4	6106.5
77.5°	236.3	254.2	505.0	1863.9	3242.3	3255.3	8024.1	12442.7	10148.6	4242.5	1443.5
80°	127.1	122.2	141.8	369.8	3019.1	3054.9	3612.1	6039.7	3623.5	703.8	475.7
82.5°	89.7	84.7	91.3	154.8	949.9	2782.8	2613.3	2733.9	1502.1	270.5	213.4
85°	32.6	30.9	50.6	140.1	298.1	1599.9	2685.0	2254.8	1217.1	123.8	156.5
87.5°	11.4	9.8	19.6	76.5	91.3	681.0	1657.0	1704.3	478.9	75.0	73.3
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°	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5	7499.5
2.5°	7432.7	7331.6	7145.8	6955.2	6779.2	6567.5	6461.6	6357.3	6313.4	6297.1	6220.6
5°	7217.6	7046.6	6652.3	6256.3	5891.4	5503.6	5247.8	5042.5	4922.0	4863.3	4770.4
7.5°	6942.2	6662.0	6064.1	5453.2	4884.5	4324.0	3908.5	3589.3	3369.4	3263.5	3167.2
10°	6675.0	6302.0	5451.5	4618.9	3846.7	3103.7	2530.3	2114.8	1849.3	1727.0	1648.7
12.5°	6435.5	5951.7	4860.1	3805.9	2836.6	1966.5	1383.2	1052.5	888.0	830.9	803.3
15°	6222.1	5629.0	4301.3	3033.7	1920.8	1124.1	756.0	643.5	617.5	617.5	614.3
17.5°	6020.1	5312.9	3761.9	2308.6	1205.6	687.6	575.2	560.5	560.5	567.0	567.0
20°	5826.1	5011.6	3240.5	1657.0	759.2	545.8	519.7	516.4	519.7	527.8	527.8
22.5°	5660.0	4737.9	2753.5	1137.3	563.7	492.0	478.9	474.1	475.7	480.7	483.8
25°	5536.3	4506.4	2294.0	770.7	485.5	448.1	433.4	425.3	418.7	418.7	421.9
27.5°	5458.0	4311.0	1849.3	560.5	436.7	407.3	384.6	371.4	356.7	348.6	352.0
30°	5401.0	4125.2	1432.1	457.9	391.0	361.7	332.4	311.3	290.1	280.2	283.4
32.5°	5379.8	3975.4	1070.4	404.1	350.2	317.7	281.9	254.2	231.4	223.1	224.8
35°	5436.8	3856.5	783.7	364.9	317.7	276.9	236.3	205.4	187.3	182.4	184.2
37.5°	5586.6	3793.0	586.6	332.4	288.4	242.7	197.2	167.9	156.5	156.5	158.0
40°	5870.2	3791.2	470.8	309.6	262.3	210.2	163.0	141.8	135.3	138.5	140.1
42.5°	6284.1	3877.7	410.5	288.4	239.5	179.2	135.3	120.6	118.9	122.2	123.8
45°	6849.3	4035.6	377.9	270.5	215.1	149.8	114.1	104.3	104.3	109.1	110.9
47.5°	7541.8	4266.9	350.2	252.6	190.6	125.5	97.7	91.3	92.9	97.7	99.4
50°	8375.9	4558.7	322.6	233.0	172.7	104.3	84.7	79.8	81.4	87.9	89.7
52.5°	9325.8	4951.3	299.8	215.1	149.8	86.3	71.7	68.5	71.7	78.2	79.8
55°	10140.4	5303.2	272.0	200.4	120.6	71.7	58.7	58.7	62.0	70.1	71.7
57.5°	10924.2	5671.4	247.7	172.7	94.5	57.0	48.9	50.6	55.3	63.5	65.1
60°	12074.4	6295.4	218.3	144.9	71.7	45.6	40.8	42.4	48.9	57.0	58.7
62.5°	14027.9	7245.3	189.1	120.6	55.3	35.8	32.6	35.8	43.9	53.8	55.3
65°	15790.8	7631.5	154.8	101.0	42.4	27.7	27.7	32.6	42.4	52.1	53.8
67.5°	14808.3	6424.1	120.6	79.8	32.6	21.2	22.7	30.9	40.8	52.1	53.8
69°	13095.9	5252.7	102.6	63.5	27.7	19.6	21.2	30.9	40.8	50.6	52.1
70°	11761.6	4434.8	91.3	53.8	24.4	19.6	21.2	29.4	40.8	50.6	52.1
72.5°	7877.4	2395.1	73.3	39.0	22.7	18.0	18.0	29.4	39.0	48.9	50.6
75°	3385.6	661.5	58.7	27.7	19.6	16.3	16.3	27.7	37.5	47.3	50.6
77.5°	619.1	167.9	47.3	24.4	19.6	16.3	14.6	26.1	35.8	45.6	47.3
80°	246.0	83.2	37.5	21.2	18.0	14.6	13.0	24.4	34.2	43.9	45.6
82.5°	148.3	47.3	30.9	19.6	18.0	13.0	11.4	21.2	32.6	42.4	43.9
85°	120.6	32.6	24.4	19.6	16.3	13.0	9.8	19.6	29.4	40.8	42.4
87.5°	58.7	22.7	22.7	18.0	16.3	13.0	9.8	18.0	27.7	39.0	40.8
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)