

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: P191046

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191046  
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-08-LED-E1-SL2-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA 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: 32656.7 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

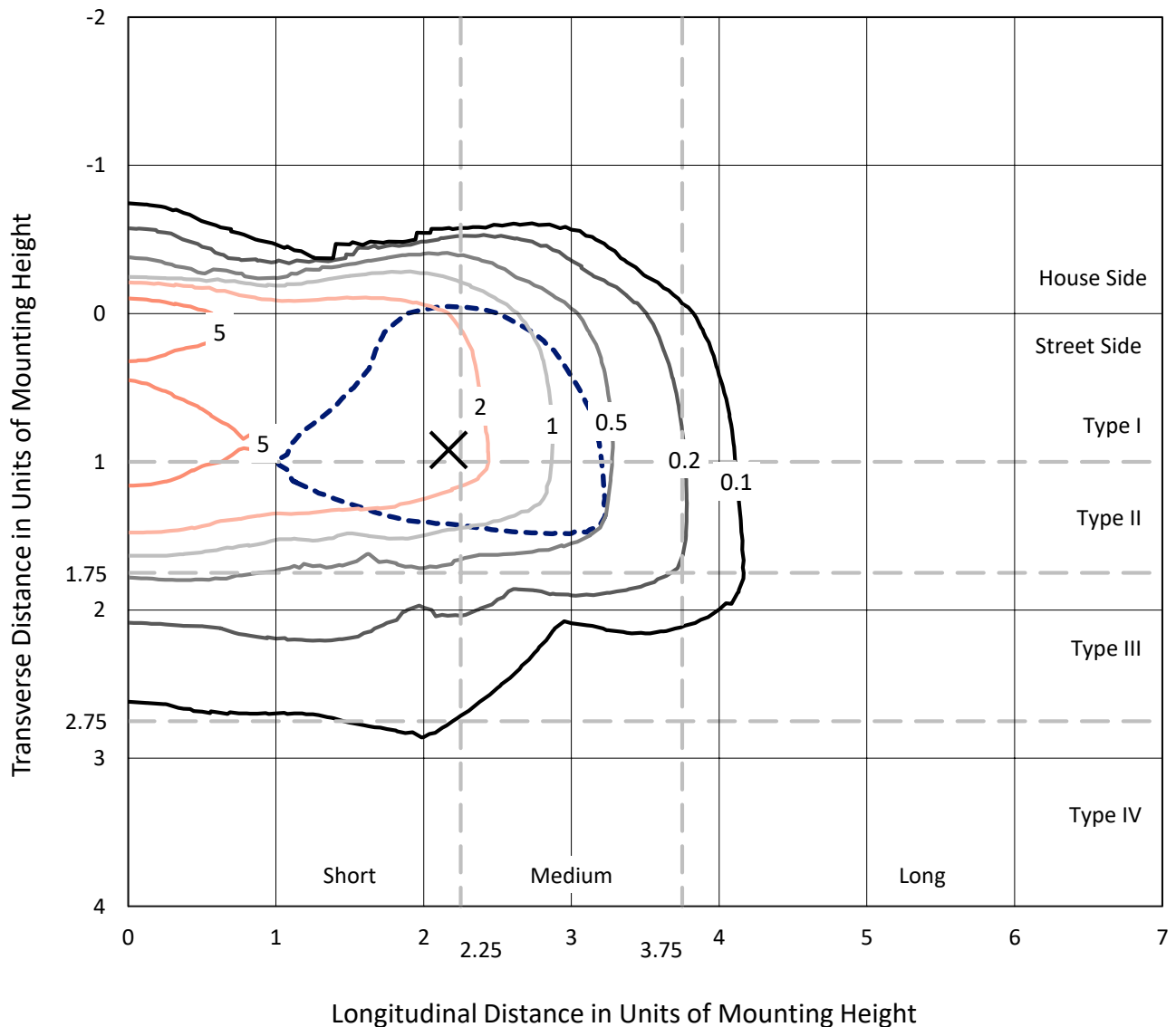
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P191046  
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

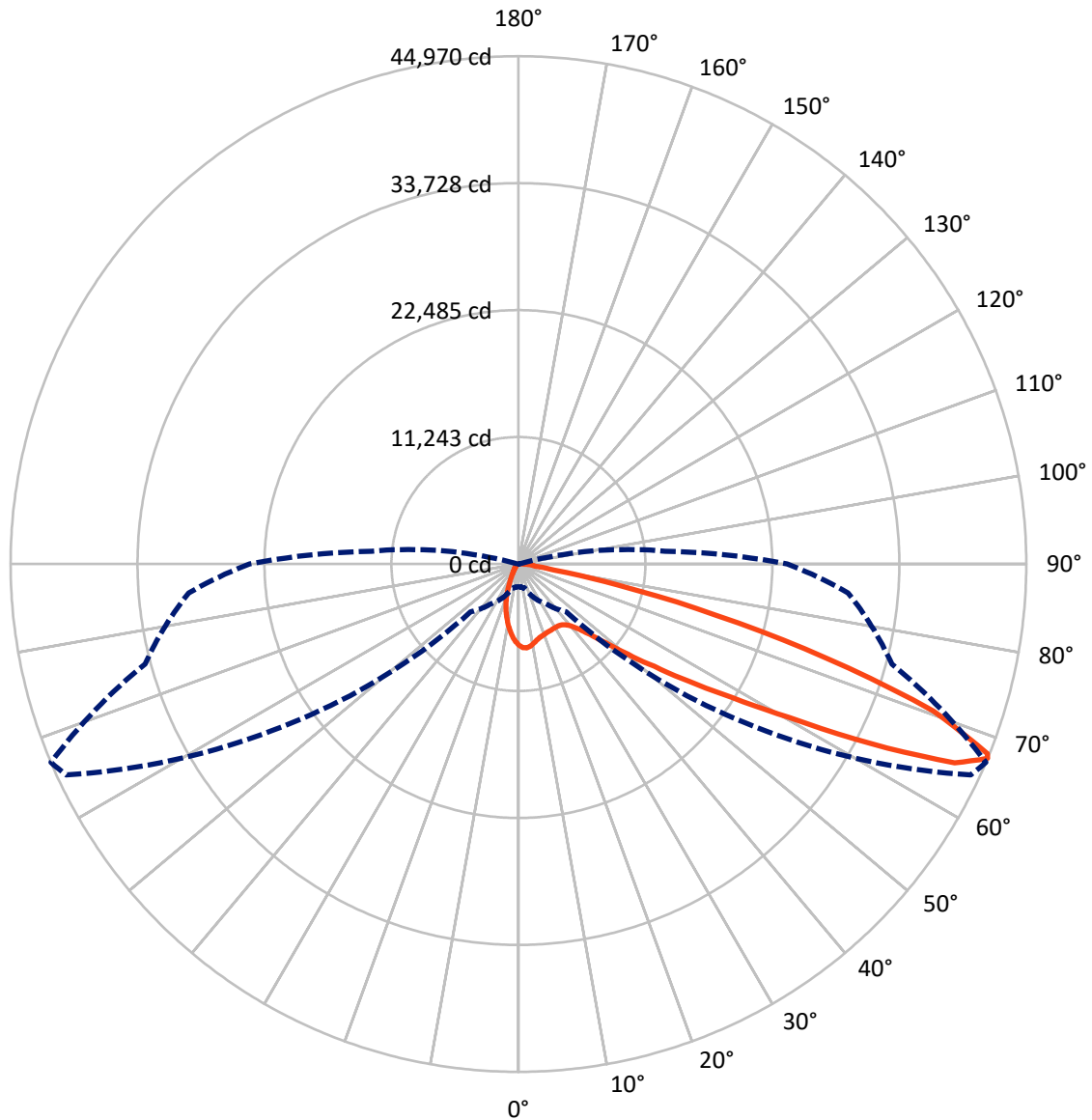
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191046  
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-800-HSS

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-800-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3390.7	0.0	3390.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	29265.9	0.0	29265.9
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	32656.7	0.0	32656.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	586.0	1.8
10°-20°	1247.3	3.8
20°-30°	1813.4	5.6
30°-40°	2829.0	8.7
40°-50°	5011.4	15.3
50°-60°	7930.1	24.3
60°-70°	9082.8	27.8
70°-80°	3767.5	11.5
80°-90°	389.2	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°	32656.7	100.0
0°-180°	32656.7	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191046

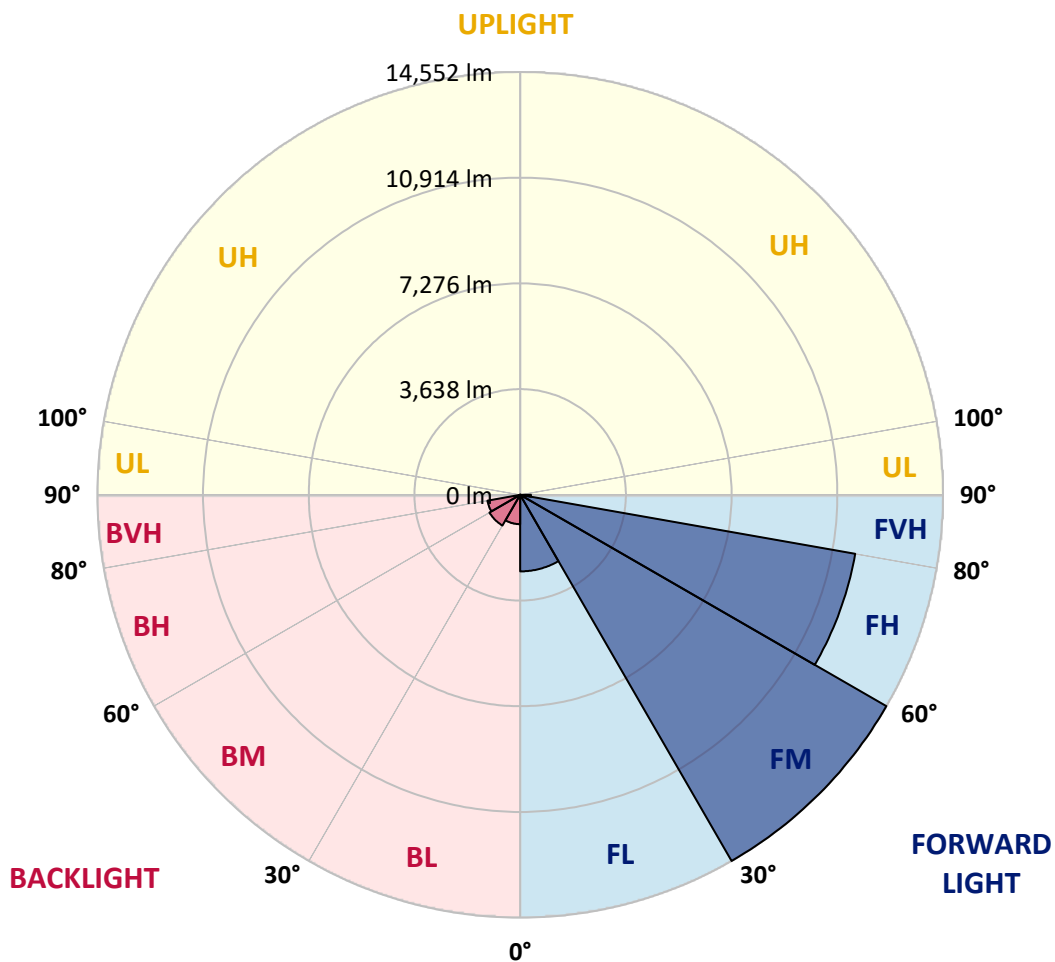
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2634.9	8.1			
FM (30°-60°)	14551.9	44.6			
FH (60°-80°)	11707.5	35.9			G4/12000
FVH (80°-90°)	371.6	1.1			G3/500
BL (0°-30°)	1011.8	3.1	B3/2500		
BM (30°-60°)	1218.6	3.7	B2/2500		
BH (60°-80°)	1142.8	3.5	B3/2500		G3/2500
BVH (80°-90°)	17.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P191046

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0
2.5°	7445.9	7461.1	7459.2	7470.6	7497.2	7499.2	7472.5	7421.1	7409.6	7342.9	7226.7
5°	6866.8	6910.5	6937.2	7045.8	7167.7	7314.4	7424.9	7464.9	7459.2	7411.5	7236.3
7.5°	6205.8	6249.6	6280.1	6407.7	6569.6	6821.0	7108.7	7344.9	7365.9	7417.2	7228.7
10°	5765.8	5773.4	5815.3	5937.2	6106.7	6363.9	6706.8	7120.1	7183.0	7371.5	7209.7
12.5°	5403.8	5409.6	5464.8	5596.3	5777.2	6036.2	6396.3	6874.3	6971.5	7314.4	7205.8
15°	5146.8	5167.6	5217.3	5354.3	5546.7	5803.9	6173.4	6693.5	6809.6	7293.4	7240.1
17.5°	5061.0	5083.9	5099.1	5198.1	5373.5	5624.8	6003.9	6575.3	6706.8	7304.9	7306.7
20°	5150.6	5167.6	5133.4	5158.1	5266.8	5491.5	5861.0	6474.4	6630.6	7318.2	7392.5
22.5°	5483.8	5491.5	5398.2	5289.6	5270.5	5394.3	5748.7	6394.4	6562.0	7354.4	7493.4
25°	6055.4	6042.0	5889.6	5655.3	5434.3	5377.2	5682.0	6344.9	6527.8	7392.5	7598.2
27.5°	6744.8	6763.9	6554.4	6213.4	5792.5	5491.5	5672.5	6323.9	6512.5	7419.2	7689.6
30°	7582.9	7609.6	7369.6	6941.0	6337.2	5773.4	5760.0	6320.1	6502.9	7402.0	7697.3
32.5°	8438.2	8470.5	8282.0	7840.1	7064.9	6245.8	5958.2	6362.0	6522.0	7342.9	7653.4
35°	9333.5	9379.1	9253.5	8874.4	8051.5	6927.7	6306.8	6489.6	6611.5	7337.2	7609.6
37.5°	10569.6	10611.6	10375.4	9973.5	9245.8	7842.0	6866.8	6729.6	6823.0	7428.7	7621.1
40°	12415.5	12409.7	11800.1	11184.9	10558.3	9003.9	7653.4	7163.9	7211.5	7704.9	7762.0
42.5°	14426.9	14417.4	13516.4	12581.2	12015.4	10434.4	8687.7	7914.4	7882.0	8213.5	8127.8
45°	15977.4	15975.4	15240.2	14186.9	13769.7	12076.3	10024.9	8958.2	8908.7	9040.1	8802.0
47.5°	16638.3	16649.8	16280.3	15539.2	15714.5	14297.4	11710.6	10470.6	10396.4	10343.0	9981.1
50°	16124.1	16146.9	16177.4	16032.6	17141.2	17282.1	13971.7	12602.0	12565.9	12327.8	11762.1
52.5°	14444.0	14560.2	14918.3	15377.4	17636.4	20146.9	17516.4	15249.7	15055.5	14802.1	14179.2
55°	11613.5	11741.1	12421.1	13535.4	16899.2	22028.8	22484.2	18663.1	18339.3	17583.1	16684.0
57.5°	7685.8	7883.9	8870.6	10287.7	14758.3	22331.7	27440.3	23400.3	22272.7	20202.2	19188.8
60°	4234.3	4424.8	5495.3	6779.1	10659.1	20834.5	30773.7	29568.0	27575.6	23129.8	22230.8
62.5°	2607.7	2710.5	3501.0	4695.3	6392.4	16444.0	31463.3	37318.6	35011.9	26899.4	25905.1
65°	2076.2	2120.1	2506.7	3838.1	4582.9	9781.0	29236.5	43227.2	42457.8	31463.3	29194.7
67°	2015.3	2032.4	2215.3	3295.3	4320.0	5996.2	24493.6	44189.2	44970.1	34225.3	29297.5
67.5°	2028.6	2047.6	2221.0	3144.8	4312.5	5510.5	22859.4	43810.1	44796.9	34444.3	28842.3
70°	1956.2	2015.3	2542.9	3142.9	4101.0	4579.1	13689.7	37958.6	38985.3	32004.2	24472.8
72.5°	693.4	697.1	1099.1	2542.9	4459.1	4628.6	6874.3	27827.0	28587.1	24482.3	17644.1
75°	411.4	350.5	365.7	723.8	4261.0	4495.3	3965.8	17781.2	18065.0	14028.7	8935.4
77.5°	283.8	247.7	255.2	320.0	1622.9	4432.4	3150.5	9272.5	8969.6	4920.1	1902.9
80°	161.9	142.9	152.4	280.0	590.4	4135.3	2971.5	3760.1	3205.7	834.3	525.7
82.5°	85.7	72.4	87.7	230.5	411.4	2577.2	2977.2	1817.2	1440.0	281.9	358.1
85°	30.5	24.8	41.9	158.1	274.3	790.5	2760.0	1527.7	1200.0	137.2	272.4
87.5°	5.7	5.7	17.2	64.8	110.5	241.9	1632.4	906.6	607.6	81.9	186.7
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: P191046

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0	7202.0
2.5°	7179.2	7097.2	6986.8	6851.5	6691.5	6550.6	6445.8	6337.2	6314.4	6276.3	6270.6
5°	7131.5	6990.5	6716.3	6402.0	6066.7	5763.9	5518.2	5299.1	5202.0	5118.1	5108.6
7.5°	7061.0	6849.6	6382.9	5876.2	5352.5	4876.3	4472.4	4186.7	3923.8	3798.1	3779.1
10°	6979.2	6676.3	6007.7	5304.8	4581.0	3908.6	3308.6	2805.7	2501.0	2320.1	2297.1
12.5°	6903.0	6506.8	5624.8	4712.4	3750.5	2851.5	2080.1	1600.0	1280.0	1150.5	1135.3
15°	6866.8	6369.6	5266.8	4106.7	2882.0	1815.2	1137.1	880.0	775.3	744.8	742.9
17.5°	6863.0	6253.4	4916.3	3480.1	2019.1	1055.3	740.9	676.2	655.2	647.6	647.6
20°	6861.0	6142.9	4565.7	2830.5	1282.0	702.9	617.1	601.9	586.7	577.1	577.1
22.5°	6882.0	6043.9	4200.0	2167.6	807.6	569.6	542.9	527.6	508.6	495.2	493.4
25°	6903.0	5967.7	3826.8	1542.9	584.8	495.2	468.6	447.6	420.9	403.9	401.9
27.5°	6906.8	5872.5	3426.7	1032.4	489.5	432.4	398.1	365.7	335.2	318.1	316.2
30°	6849.6	5712.5	2982.9	697.1	432.4	375.2	329.5	295.2	266.7	253.4	253.4
32.5°	6737.3	5514.3	2495.3	525.7	384.7	321.9	272.4	240.0	221.0	215.2	213.3
35°	6636.3	5301.0	1994.3	445.7	344.7	272.4	222.9	201.9	190.5	188.5	186.7
37.5°	6577.3	5129.6	1523.8	403.9	306.7	228.5	188.5	173.3	167.7	163.8	165.7
40°	6623.0	4986.8	1125.8	369.5	268.5	190.5	160.0	152.4	146.7	144.7	144.7
42.5°	6823.0	4961.9	836.2	339.0	232.4	158.1	139.0	133.3	129.5	127.7	129.5
45°	7348.7	5114.3	649.6	310.5	196.2	133.3	118.0	116.2	114.3	114.3	114.3
47.5°	8139.2	5428.6	540.9	278.1	163.8	114.3	102.9	101.0	99.0	101.0	101.0
50°	9478.3	6003.9	483.9	245.7	135.2	97.2	87.7	87.7	87.7	87.7	89.5
52.5°	11514.4	7135.3	445.7	213.3	110.5	81.9	74.3	74.3	76.2	76.2	78.1
55°	13783.0	8636.3	411.4	181.0	93.3	68.5	61.0	62.8	64.8	66.7	66.7
57.5°	16244.0	10299.2	382.9	148.5	80.0	55.2	51.5	53.3	55.2	59.0	59.0
60°	19213.6	12099.3	340.9	116.2	66.7	43.8	40.0	43.8	49.5	53.3	55.2
62.5°	22474.6	13840.2	287.7	91.5	55.2	34.3	32.4	40.0	47.7	51.5	53.3
65°	24703.2	14386.9	221.0	74.3	41.9	24.8	26.7	36.2	45.7	51.5	51.5
67°	23800.3	13044.0	181.0	62.8	34.3	19.0	24.8	36.2	45.7	49.5	51.5
67.5°	23173.6	12518.3	173.3	61.0	32.4	19.0	24.8	36.2	45.7	51.5	51.5
70°	18855.5	9404.0	144.7	45.7	26.7	17.2	21.0	34.3	43.8	49.5	49.5
72.5°	13101.1	5798.2	129.5	32.4	22.8	15.2	19.0	32.4	41.9	47.7	49.5
75°	6228.6	2099.1	110.5	24.8	21.0	13.3	17.2	32.4	41.9	47.7	47.7
77.5°	1270.5	487.6	89.5	21.0	17.2	13.3	15.2	30.5	40.0	45.7	45.7
80°	417.2	188.5	66.7	19.0	17.2	13.3	15.2	28.5	40.0	43.8	45.7
82.5°	301.0	95.2	43.8	19.0	17.2	13.3	13.3	28.5	38.1	43.8	43.8
85°	230.5	66.7	28.5	19.0	17.2	13.3	13.3	26.7	36.2	41.9	41.9
87.5°	152.4	26.7	22.8	19.0	17.2	13.3	13.3	26.7	34.3	40.0	41.9
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)