

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: P191856

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-7050-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191856  
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-SL2-7050-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 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: 39513 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 445  
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

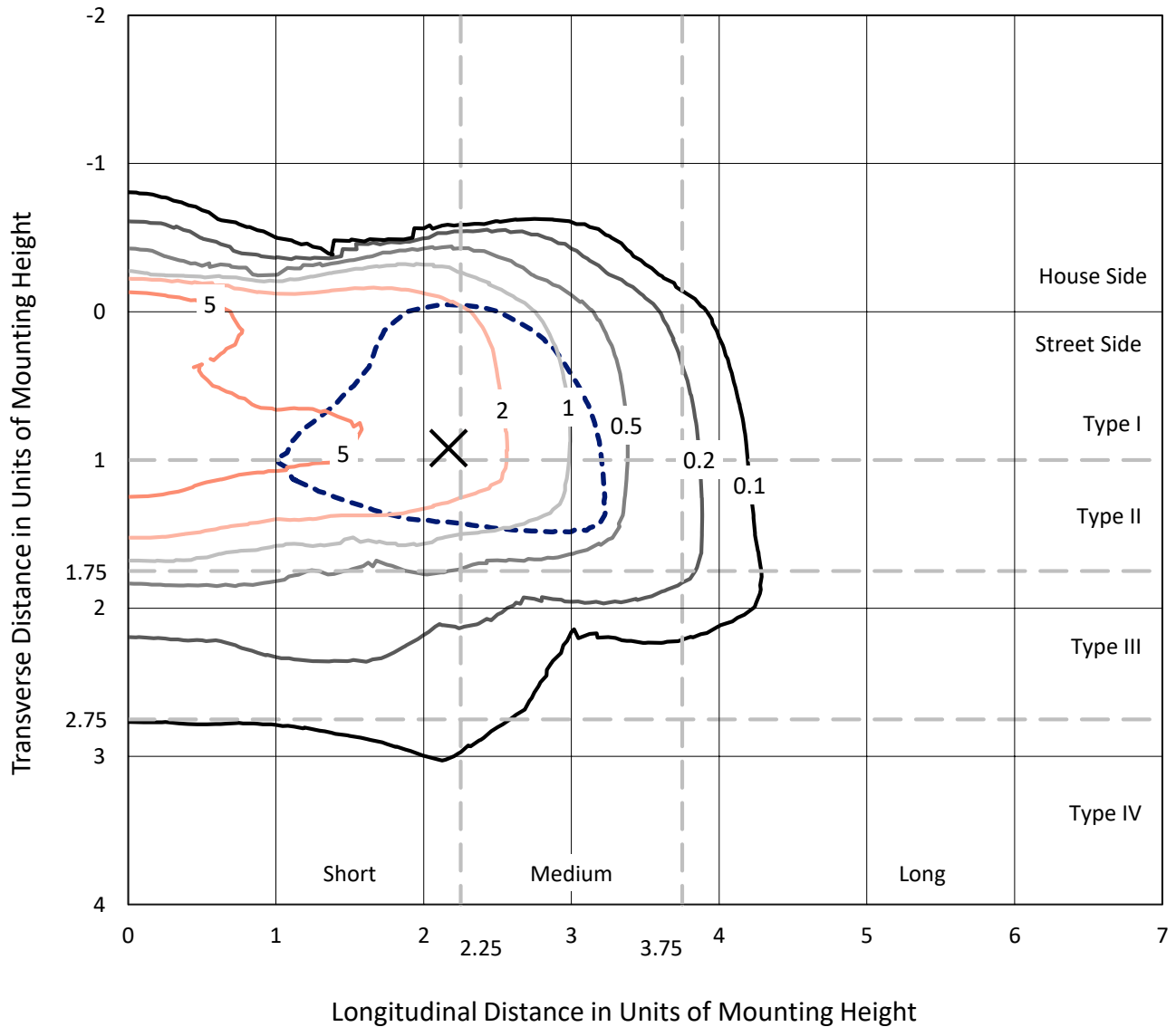


REPORT NUMBER: P191856

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

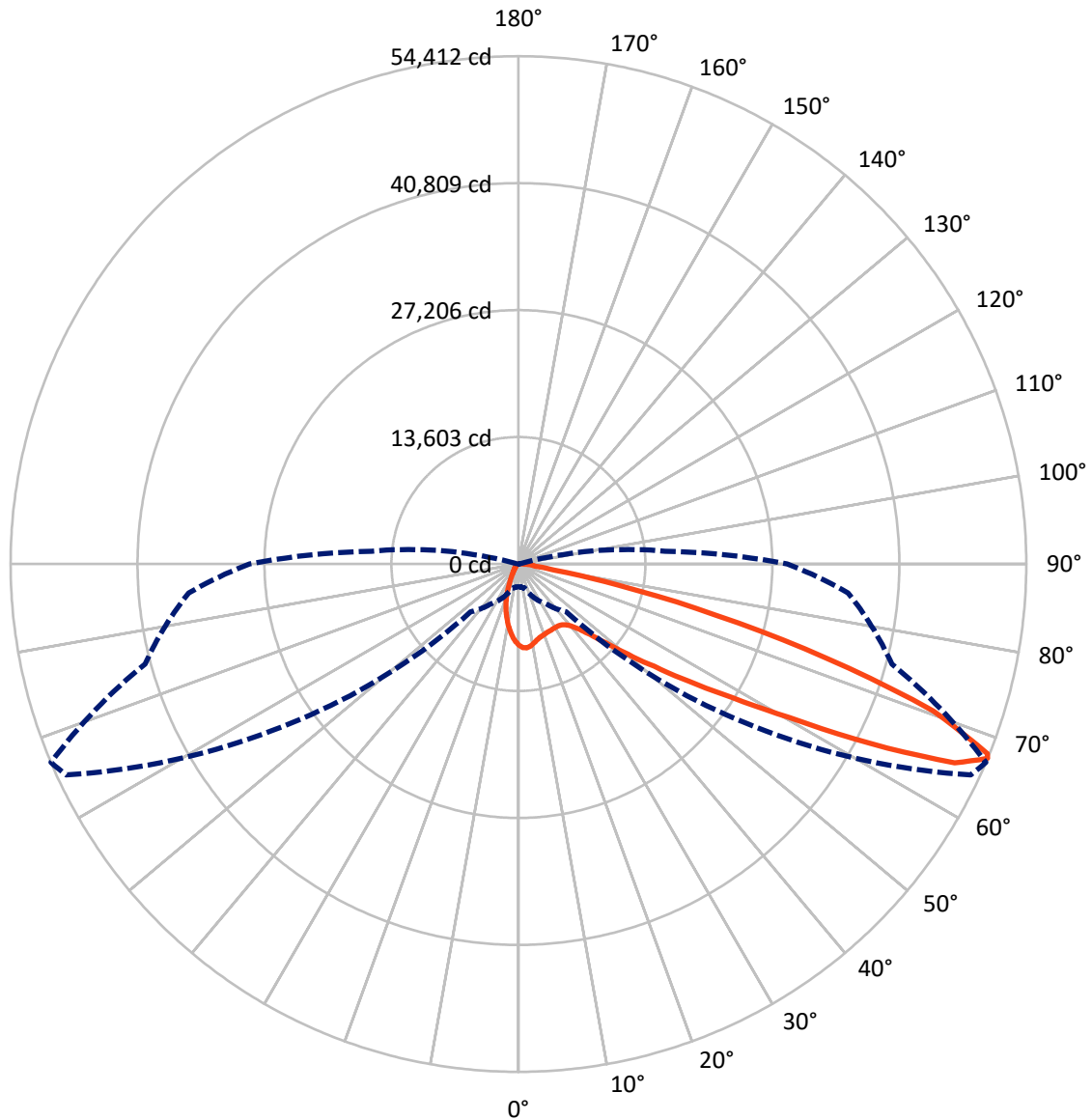


Based on 30 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191856

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P191856

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4102.6	0.0	4102.6
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	35410.4	0.0	35410.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	39513.0	0.0	39513.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	709.1	1.8
10°-20°	1509.1	3.8
20°-30°	2194.2	5.6
30°-40°	3422.9	8.7
40°-50°	6063.6	15.3
50°-60°	9595.0	24.3
60°-70°	10989.8	27.8
70°-80°	4558.5	11.5
80°-90°	470.9	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°	39513.0	100.0
0°-180°	39513.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P191856

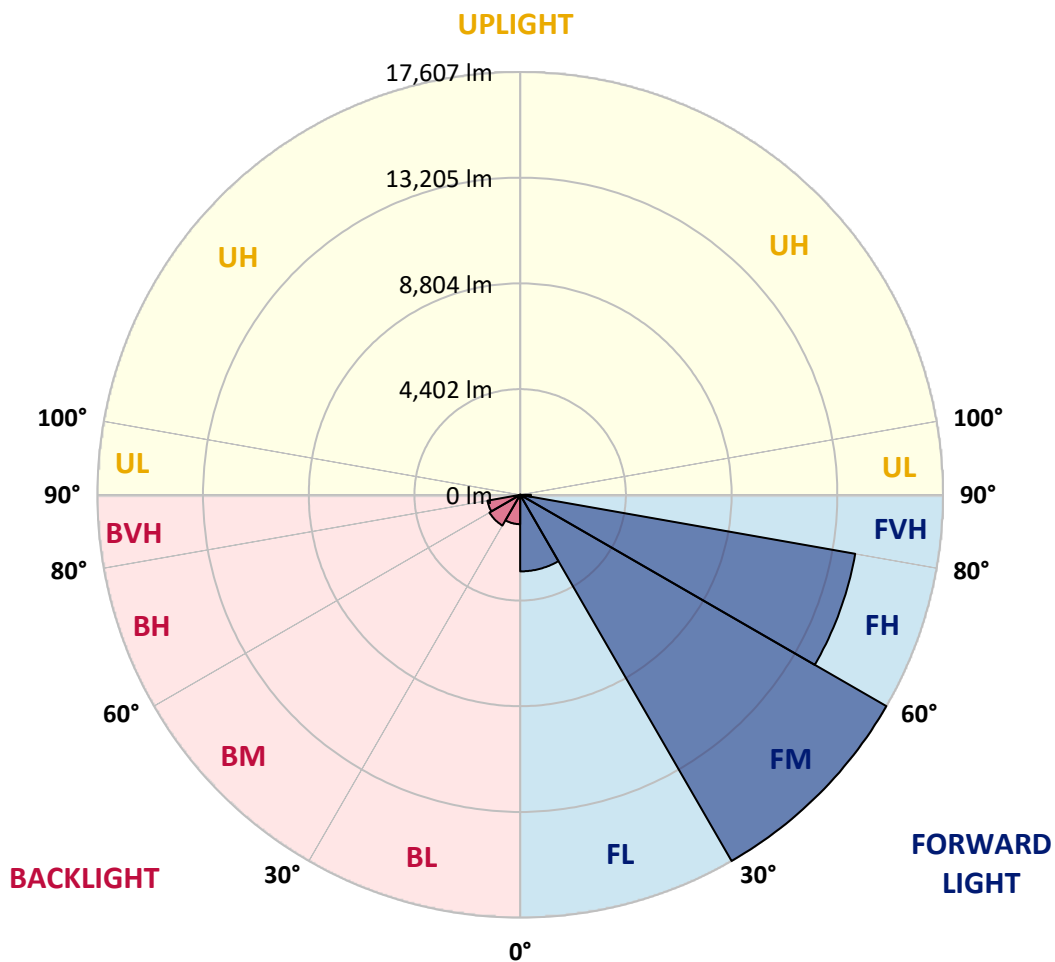
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3188.1	8.1			
FM (30°-60°)	17607.1	44.6			
FH (60°-80°)	14165.5	35.9			G5
FVH (80°-90°)	449.7	1.1			G3/500
BL (0°-30°)	1224.2	3.1	B3/2500		
BM (30°-60°)	1474.5	3.7	B2/2500		
BH (60°-80°)	1382.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	21.2	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-G5**

Type II Short





REPORT NUMBER: P191856

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1
2.5°	9009.1	9027.5	9025.2	9039.0	9071.3	9073.6	9041.3	8979.1	8965.3	8884.6	8744.0
5°	8308.4	8361.5	8393.7	8525.1	8672.6	8850.1	8983.7	9032.1	9025.2	8967.6	8755.6
7.5°	7508.7	7561.7	7598.6	7753.0	7948.9	8253.1	8601.1	8886.9	8912.3	8974.5	8746.3
10°	6976.3	6985.5	7036.3	7183.8	7388.9	7700.0	8114.9	8615.0	8691.0	8919.2	8723.3
12.5°	6538.4	6545.4	6612.2	6771.2	6990.2	7303.6	7739.2	8317.7	8435.2	8850.1	8718.7
15°	6227.3	6252.7	6312.6	6478.5	6711.3	7022.4	7469.5	8098.7	8239.3	8824.7	8760.2
17.5°	6123.6	6151.2	6169.7	6289.5	6501.6	6805.8	7264.4	7955.8	8114.9	8838.5	8840.8
20°	6231.9	6252.7	6211.2	6241.1	6372.5	6644.5	7091.6	7833.7	8022.7	8854.7	8944.5
22.5°	6635.2	6644.5	6531.5	6400.2	6377.1	6526.9	6955.6	7736.9	7939.7	8898.5	9066.7
25°	7326.6	7310.5	7126.1	6842.7	6575.3	6506.2	6874.9	7677.0	7898.2	8944.5	9193.5
27.5°	8160.9	8184.0	7930.5	7517.9	7008.6	6644.5	6863.4	7651.6	7879.8	8976.8	9304.1
30°	9175.0	9207.3	8916.9	8398.3	7667.7	6985.5	6969.4	7647.0	7868.3	8956.1	9313.3
32.5°	10209.8	10249.0	10020.8	9486.2	8548.1	7557.1	7209.1	7697.7	7891.3	8884.6	9260.3
35°	11293.0	11348.3	11196.2	10737.6	9742.0	8382.2	7630.9	7852.1	7999.6	8877.7	9207.3
37.5°	12788.8	12839.5	12553.7	12067.4	11187.0	9488.5	8308.4	8142.5	8255.4	8988.3	9221.1
40°	15022.0	15015.1	14277.6	13533.2	12775.0	10894.3	9260.3	8668.0	8725.6	9322.5	9391.7
42.5°	17455.8	17444.3	16354.2	15222.6	14538.1	12625.2	10511.7	9576.0	9536.9	9937.9	9834.2
45°	19331.8	19329.5	18439.9	17165.4	16660.7	14611.8	12129.6	10839.0	10779.1	10938.1	10650.0
47.5°	20131.6	20145.4	19698.3	18801.8	19013.8	17299.1	14169.3	12668.9	12579.1	12514.5	12076.6
50°	19509.3	19537.0	19573.8	19398.7	20740.0	20910.6	16905.0	15247.9	15204.1	14916.0	14231.5
52.5°	17476.6	17617.1	18050.4	18605.9	21339.2	24376.8	21194.0	18451.4	18216.4	17909.8	17156.2
55°	14051.8	14206.2	15029.0	16377.2	20447.3	26653.9	27204.7	22581.5	22189.7	21274.7	20186.9
57.5°	9299.5	9539.2	10733.0	12447.7	17856.8	27020.3	33201.5	28313.3	26948.9	24443.7	23217.6
60°	5123.4	5353.8	6649.1	8202.4	12897.1	25208.8	37234.8	35775.9	33365.2	27986.0	26898.2
62.5°	3155.1	3279.6	4236.0	5681.1	7734.6	19896.5	38069.1	45153.7	42362.7	32547.0	31343.9
65°	2512.1	2565.1	3033.0	4644.0	5545.1	11834.6	35374.9	52302.9	51371.8	38069.1	35324.2
67°	2438.4	2459.1	2680.4	3987.1	5227.1	7255.2	29636.2	53466.8	54411.7	41410.9	35448.6
67.5°	2454.5	2477.6	2687.3	3805.1	5217.8	6667.5	27658.7	53008.1	54202.0	41675.9	34897.8
70°	2366.9	2438.4	3076.8	3802.8	4962.0	5540.5	16563.9	45928.1	47170.3	38723.6	29610.8
72.5°	838.9	843.5	1329.8	3076.8	5395.3	5600.4	8317.7	33669.4	34589.0	29622.3	21348.4
75°	497.8	424.1	442.5	875.8	5155.6	5439.1	4798.4	21514.4	21857.8	16974.1	10811.4
77.5°	343.4	299.6	308.8	387.2	1963.6	5363.0	3812.0	11219.3	10852.8	5953.0	2302.4
80°	195.9	172.9	184.4	338.8	714.5	5003.5	3595.3	4549.5	3878.8	1009.5	636.1
82.5°	103.7	87.6	106.0	278.9	497.8	3118.3	3602.2	2198.7	1742.4	341.1	433.3
85°	36.9	30.0	50.7	191.3	331.9	956.5	3339.5	1848.4	1452.0	165.9	329.6
87.5°	6.9	6.9	20.7	78.4	133.7	292.7	1975.1	1097.0	735.2	99.1	225.9
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: P191856

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-7050-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1	8714.1
2.5°	8686.4	8587.3	8453.6	8290.0	8096.4	7925.9	7799.1	7667.7	7640.1	7594.0	7587.1
5°	8628.8	8458.3	8126.4	7746.1	7340.5	6974.0	6676.7	6411.7	6294.1	6192.7	6181.2
7.5°	8543.5	8287.7	7723.1	7110.0	6476.2	5900.0	5411.4	5065.7	4747.7	4595.6	4572.5
10°	8444.4	8078.0	7269.0	6418.6	5542.8	4729.2	4003.3	3394.8	3026.1	2807.1	2779.5
12.5°	8352.2	7872.9	6805.8	5701.8	4538.0	3450.1	2516.7	1935.9	1548.8	1392.0	1373.6
15°	8308.4	7706.9	6372.5	4968.9	3487.0	2196.4	1375.9	1064.8	938.0	901.1	898.8
17.5°	8303.8	7566.3	5948.4	4210.7	2443.0	1276.8	896.5	818.2	792.8	783.6	783.6
20°	8301.5	7432.7	5524.4	3424.8	1551.1	850.4	746.7	728.3	709.8	698.3	698.3
22.5°	8326.9	7312.8	5081.9	2622.8	977.2	689.1	656.8	638.4	615.4	599.2	596.9
25°	8352.2	7220.6	4630.1	1866.8	707.5	599.2	567.0	541.6	509.3	488.6	486.3
27.5°	8356.8	7105.4	4146.2	1249.1	592.3	523.2	481.7	442.5	405.6	384.9	382.6
30°	8287.7	6911.8	3609.2	843.5	523.2	454.0	398.7	357.2	322.7	306.5	306.5
32.5°	8151.7	6672.1	3019.2	636.1	465.5	389.5	329.6	290.4	267.3	260.4	258.1
35°	8029.6	6414.0	2413.0	539.3	417.2	329.6	269.7	244.3	230.5	228.2	225.9
37.5°	7958.1	6206.6	1843.8	488.6	371.1	276.6	228.2	209.7	202.8	198.2	200.5
40°	8013.4	6033.7	1362.1	447.1	325.0	230.5	193.6	184.4	177.5	175.2	175.2
42.5°	8255.4	6003.7	1011.8	410.2	281.2	191.3	168.2	161.3	156.7	154.4	156.7
45°	8891.5	6188.1	785.9	375.7	237.4	161.3	142.9	140.6	138.3	138.3	138.3
47.5°	9848.0	6568.4	654.5	336.5	198.2	138.3	124.5	122.1	119.8	122.1	122.1
50°	11468.2	7264.4	585.4	297.3	163.6	117.5	106.0	106.0	106.0	106.0	108.3
52.5°	13931.9	8633.4	539.3	258.1	133.7	99.1	89.9	89.9	92.2	92.2	94.5
55°	16676.8	10449.5	497.8	218.9	112.9	83.0	73.8	76.1	78.4	80.7	80.7
57.5°	19654.5	12461.5	463.2	179.8	96.8	66.8	62.2	64.5	66.8	71.4	71.4
60°	23247.5	14639.5	412.5	140.6	80.7	53.0	48.4	53.0	59.9	64.5	66.8
62.5°	27193.2	16746.0	348.0	110.6	66.8	41.5	39.2	48.4	57.6	62.2	64.5
65°	29889.7	17407.4	267.3	89.9	50.7	30.0	32.3	43.8	55.3	62.2	62.2
67°	28797.2	15782.6	218.9	76.1	41.5	23.0	30.0	43.8	55.3	59.9	62.2
67.5°	28039.0	15146.5	209.7	73.8	39.2	23.0	30.0	43.8	55.3	62.2	62.2
70°	22814.2	11378.3	175.2	55.3	32.3	20.7	25.4	41.5	53.0	59.9	59.9
72.5°	15851.7	7015.5	156.7	39.2	27.7	18.4	23.0	39.2	50.7	57.6	59.9
75°	7536.4	2539.8	133.7	30.0	25.4	16.1	20.7	39.2	50.7	57.6	57.6
77.5°	1537.2	590.0	108.3	25.4	20.7	16.1	18.4	36.9	48.4	55.3	55.3
80°	504.7	228.2	80.7	23.0	20.7	16.1	18.4	34.6	48.4	53.0	55.3
82.5°	364.1	115.2	53.0	23.0	20.7	16.1	16.1	34.6	46.1	53.0	53.0
85°	278.9	80.7	34.6	23.0	20.7	16.1	16.1	32.3	43.8	50.7	50.7
87.5°	184.4	32.3	27.7	23.0	20.7	16.1	16.1	32.3	41.5	48.4	50.7
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)