

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: P191847

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191847  
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-09-LED-E1-SL2-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 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: 35611 lumens  
Efficiency: N/A  
Efficacy: 95.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 374  
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

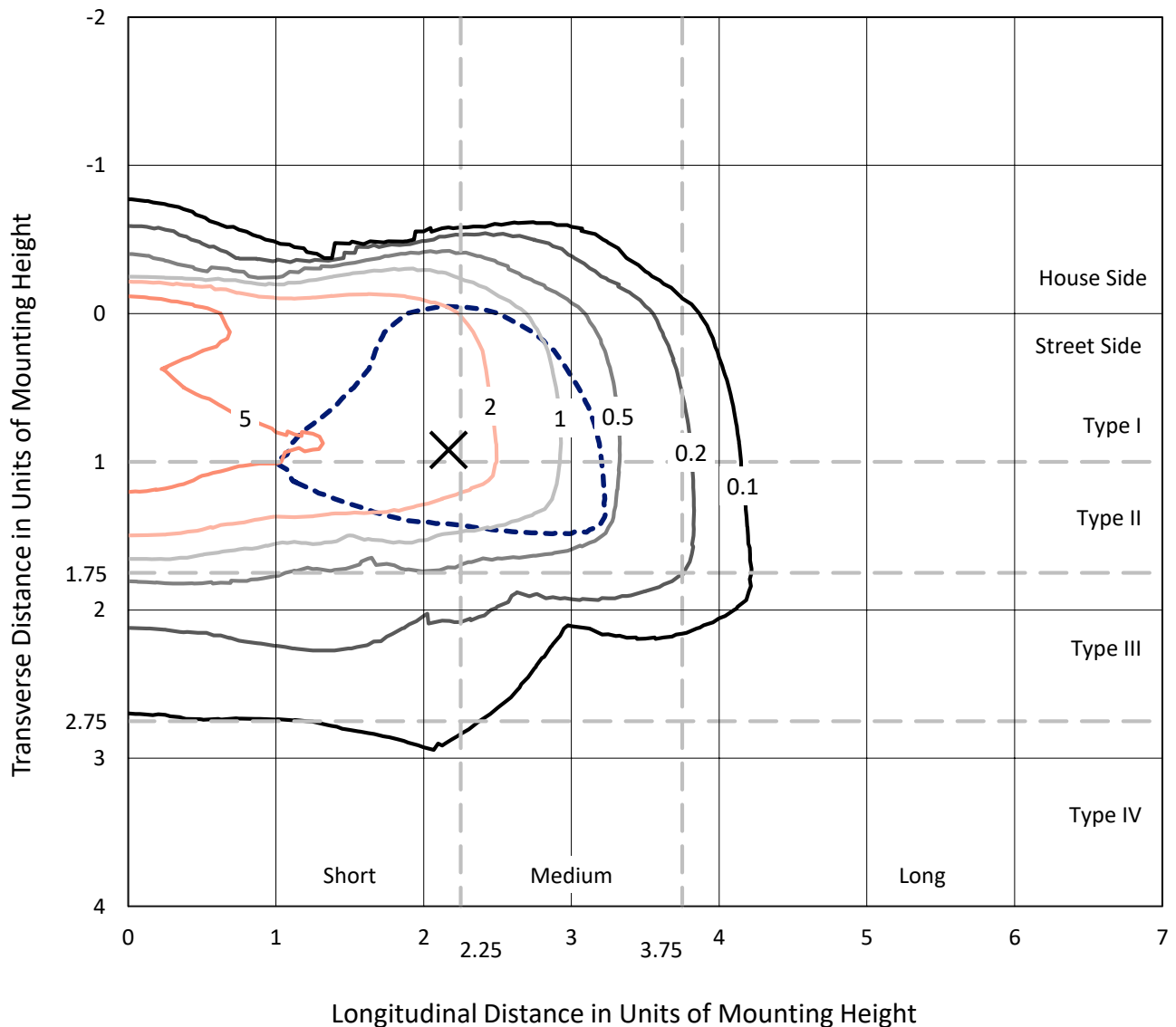


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

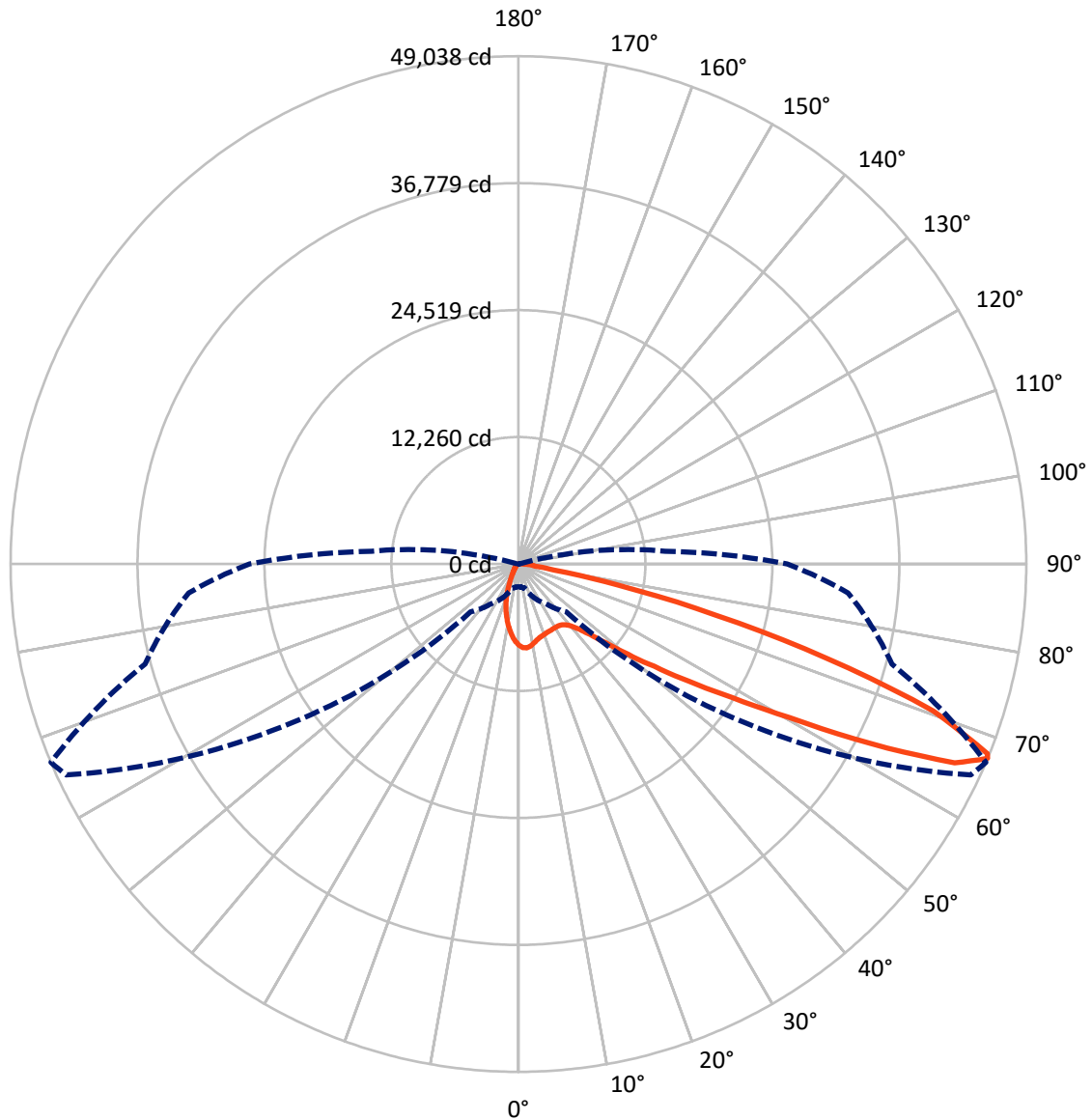


Based on 30 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - Semi-Cutoff

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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	3697.5	0.0	3697.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	31913.5	0.0	31913.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	35611.0	0.0	35611.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	639.0	1.8
10°-20°	1360.1	3.8
20°-30°	1977.5	5.6
30°-40°	3084.9	8.7
40°-50°	5464.8	15.3
50°-60°	8647.5	24.3
60°-70°	9904.5	27.8
70°-80°	4108.3	11.5
80°-90°	424.4	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°	35611.0	100.0
0°-180°	35611.0	100.0

**Coefficient of Utilization**



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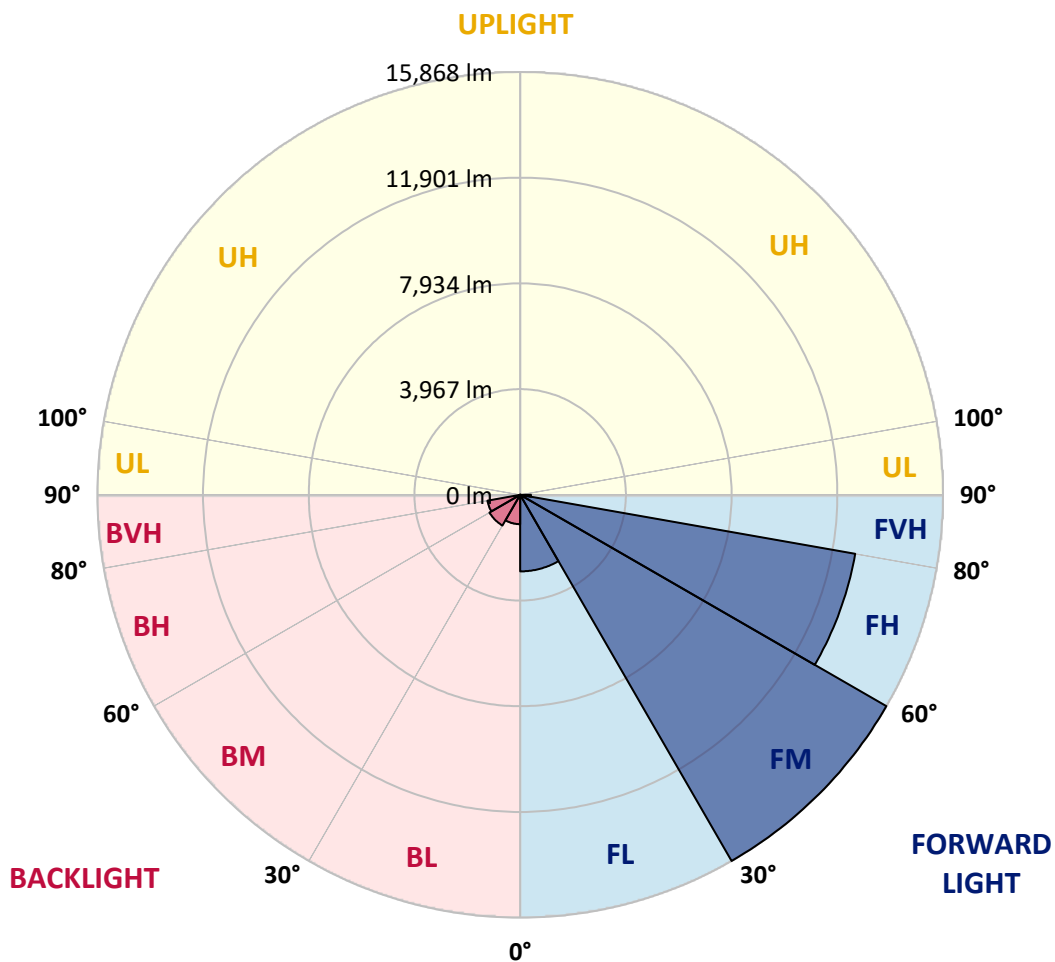
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2873.3	8.1			
FM (30°-60°)	15868.4	44.6			
FH (60°-80°)	12766.6	35.9			G5
FVH (80°-90°)	405.3	1.1			G3/500
BL (0°-30°)	1103.3	3.1	B3/2500		
BM (30°-60°)	1328.8	3.7	B2/2500		
BH (60°-80°)	1246.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	19.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5
2.5°	8119.4	8136.0	8134.0	8146.4	8175.5	8177.6	8148.5	8092.4	8079.9	8007.2	7880.5
5°	7488.0	7535.7	7564.8	7683.2	7816.2	7976.1	8096.6	8140.2	8134.0	8082.0	7890.9
7.5°	6767.2	6815.0	6848.2	6987.4	7163.9	7438.1	7751.8	8009.3	8032.2	8088.3	7882.6
10°	6287.4	6295.7	6341.4	6474.3	6659.2	6939.6	7313.5	7764.2	7832.8	8038.4	7861.8
12.5°	5892.8	5899.0	5959.2	6102.5	6299.9	6582.4	6974.9	7496.3	7602.2	7976.1	7857.7
15°	5612.3	5635.2	5689.2	5838.7	6048.5	6328.9	6731.9	7299.0	7425.7	7953.2	7895.1
17.5°	5518.9	5543.8	5560.4	5668.4	5859.5	6133.7	6547.0	7170.2	7313.5	7965.7	7967.8
20°	5616.5	5635.2	5597.8	5624.8	5743.2	5988.3	6391.3	7060.1	7230.4	7980.2	8061.3
22.5°	5980.0	5988.3	5886.5	5768.1	5747.4	5882.4	6268.7	6972.8	7155.6	8019.7	8171.3
25°	6603.1	6588.6	6422.4	6166.9	5926.0	5863.7	6196.0	6918.8	7118.2	8061.3	8285.6
27.5°	7355.0	7375.8	7147.3	6775.5	6316.5	5988.3	6185.6	6896.0	7101.6	8090.3	8385.3
30°	8269.0	8298.0	8036.3	7569.0	6910.5	6295.7	6281.2	6891.8	7091.2	8071.6	8393.6
32.5°	9201.6	9236.9	9031.3	8549.4	7704.0	6810.8	6497.2	6937.5	7112.0	8007.2	8345.8
35°	10177.8	10227.7	10090.6	9677.2	8779.9	7554.4	6877.3	7076.7	7209.6	8001.0	8298.0
37.5°	11525.9	11571.6	11314.0	10875.7	10082.3	8551.4	7488.0	7338.4	7440.2	8100.7	8310.5
40°	13538.6	13532.4	12867.7	12196.8	11513.4	9818.5	8345.8	7812.0	7863.9	8401.9	8464.2
42.5°	15732.0	15721.6	14739.1	13719.3	13102.4	11378.4	9473.7	8630.4	8595.1	8956.5	8863.0
45°	17422.8	17420.7	16618.9	15470.3	15015.4	13168.9	10931.8	9768.6	9714.6	9857.9	9598.3
47.5°	18143.5	18156.0	17753.0	16945.0	17136.1	15590.8	12770.1	11417.9	11336.8	11278.7	10884.0
50°	17582.7	17607.6	17640.9	17483.0	18691.9	18845.6	15235.6	13742.1	13702.7	13443.0	12826.1
52.5°	15750.7	15877.4	16267.9	16768.5	19231.9	21969.6	19101.1	16629.3	16417.5	16141.2	15462.0
55°	12664.1	12803.3	13544.8	14759.9	18428.1	24021.7	24518.2	20351.5	19998.4	19173.8	18193.4
57.5°	8381.1	8597.1	9673.1	11218.5	16093.4	24352.0	29922.8	25517.3	24287.6	22029.8	20924.8
60°	4617.4	4825.1	5992.5	7392.4	11623.5	22719.4	33557.7	32242.9	30070.3	25222.3	24241.9
62.5°	2843.6	2955.7	3817.7	5120.1	6970.8	17931.7	34309.6	40694.7	38179.3	29332.9	28248.7
65°	2264.0	2311.8	2733.5	4185.4	4997.5	10665.9	31881.5	47137.9	46298.7	34309.6	31835.8
67°	2197.6	2216.3	2415.7	3593.4	4710.9	6538.7	26709.5	48186.8	49038.4	37321.5	31948.0
67.5°	2212.1	2232.9	2421.9	3429.3	4702.6	6009.1	24927.4	47773.5	48849.4	37560.3	31451.6
70°	2133.2	2197.6	2772.9	3427.2	4472.0	4993.4	14928.2	41392.6	42512.1	34899.5	26686.7
72.5°	756.1	760.2	1198.5	2772.9	4862.5	5047.4	7496.3	30344.5	31173.2	26697.1	19240.2
75°	448.7	382.2	398.8	789.3	4646.5	4902.0	4324.5	19389.8	19699.3	15297.9	9743.7
77.5°	309.5	270.0	278.3	349.0	1769.7	4833.4	3435.5	10111.4	9781.1	5365.2	2075.0
80°	176.6	155.8	166.2	305.3	643.9	4509.4	3240.3	4100.2	3495.8	909.8	573.3
82.5°	93.5	78.9	95.5	251.3	448.7	2810.3	3246.5	1981.6	1570.3	307.4	390.5
85°	33.2	27.0	45.7	172.4	299.1	862.0	3009.7	1665.8	1308.6	149.6	297.0
87.5°	6.2	6.2	18.7	70.6	120.5	263.8	1780.1	988.7	662.6	89.3	203.6
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°	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5	7853.5
2.5°	7828.6	7739.3	7618.8	7471.4	7296.9	7143.2	7028.9	6910.5	6885.6	6844.1	6837.8
5°	7776.7	7623.0	7323.9	6981.2	6615.6	6285.3	6017.4	5778.5	5672.6	5581.2	5570.8
7.5°	7699.8	7469.3	6960.4	6407.9	5836.7	5317.4	4877.0	4565.5	4278.8	4141.8	4121.0
10°	7610.5	7280.3	6551.2	5784.7	4995.4	4262.2	3607.9	3059.6	2727.2	2529.9	2505.0
12.5°	7527.4	7095.4	6133.7	5138.8	4089.8	3109.4	2268.2	1744.8	1395.8	1254.6	1238.0
15°	7488.0	6945.8	5743.2	4478.2	3142.7	1979.5	1240.0	959.6	845.4	812.1	810.1
17.5°	7483.8	6819.1	5361.0	3794.9	2201.7	1150.7	808.0	737.4	714.5	706.2	706.2
20°	7481.7	6698.7	4978.8	3086.6	1397.9	766.5	673.0	656.4	639.7	629.4	629.4
22.5°	7504.6	6590.7	4580.0	2363.7	880.7	621.1	592.0	575.4	554.6	540.0	538.0
25°	7527.4	6507.6	4172.9	1682.5	637.7	540.0	511.0	488.1	459.0	440.3	438.3
27.5°	7531.6	6403.7	3736.7	1125.8	533.8	471.5	434.1	398.8	365.6	346.9	344.8
30°	7469.3	6229.2	3252.7	760.2	471.5	409.2	359.3	322.0	290.8	276.3	276.3
32.5°	7346.7	6013.2	2721.0	573.3	419.6	351.0	297.0	261.7	240.9	234.7	232.6
35°	7236.6	5780.6	2174.7	486.0	376.0	297.0	243.0	220.2	207.7	205.6	203.6
37.5°	7172.2	5593.6	1661.7	440.3	334.4	249.3	205.6	189.0	182.8	178.6	180.7
40°	7222.1	5437.9	1227.6	403.0	292.9	207.7	174.5	166.2	159.9	157.9	157.9
42.5°	7440.2	5410.9	911.8	369.7	253.4	172.4	151.6	145.4	141.2	139.2	141.2
45°	8013.5	5577.0	708.3	338.6	213.9	145.4	128.8	126.7	124.6	124.6	124.6
47.5°	8875.5	5919.8	589.9	303.3	178.6	124.6	112.2	110.1	108.0	110.1	110.1
50°	10335.7	6547.0	527.6	267.9	147.5	105.9	95.5	95.5	95.5	95.5	97.6
52.5°	12556.1	7780.8	486.0	232.6	120.5	89.3	81.0	81.0	83.1	83.1	85.2
55°	15029.9	9417.6	448.7	197.3	101.8	74.8	66.5	68.5	70.6	72.7	72.7
57.5°	17713.6	11230.9	417.5	162.0	87.2	60.2	56.1	58.2	60.2	64.4	64.4
60°	20951.8	13193.8	371.8	126.7	72.7	47.8	43.6	47.8	54.0	58.2	60.2
62.5°	24507.8	15092.3	313.6	99.7	60.2	37.4	35.3	43.6	51.9	56.1	58.2
65°	26938.0	15688.4	240.9	81.0	45.7	27.0	29.1	39.5	49.9	56.1	56.1
67°	25953.4	14224.0	197.3	68.5	37.4	20.8	27.0	39.5	49.9	54.0	56.1
67.5°	25270.1	13650.7	189.0	66.5	35.3	20.8	27.0	39.5	49.9	56.1	56.1
70°	20561.3	10254.7	157.9	49.9	29.1	18.7	22.8	37.4	47.8	54.0	54.0
72.5°	14286.3	6322.7	141.2	35.3	24.9	16.6	20.8	35.3	45.7	51.9	54.0
75°	6792.1	2289.0	120.5	27.0	22.8	14.5	18.7	35.3	45.7	51.9	51.9
77.5°	1385.4	531.7	97.6	22.8	18.7	14.5	16.6	33.2	43.6	49.9	49.9
80°	454.9	205.6	72.7	20.8	18.7	14.5	16.6	31.2	43.6	47.8	49.9
82.5°	328.2	103.9	47.8	20.8	18.7	14.5	14.5	31.2	41.5	47.8	47.8
85°	251.3	72.7	31.2	20.8	18.7	14.5	14.5	29.1	39.5	45.7	45.7
87.5°	166.2	29.1	24.9	20.8	18.7	14.5	14.5	29.1	37.4	43.6	45.7
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)