

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: P193608

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193608  
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-10-LED-E1-SL2-8030-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1200mA 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: 43683 lumens  
Efficiency: N/A  
Efficacy: 68.3 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): 640  
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

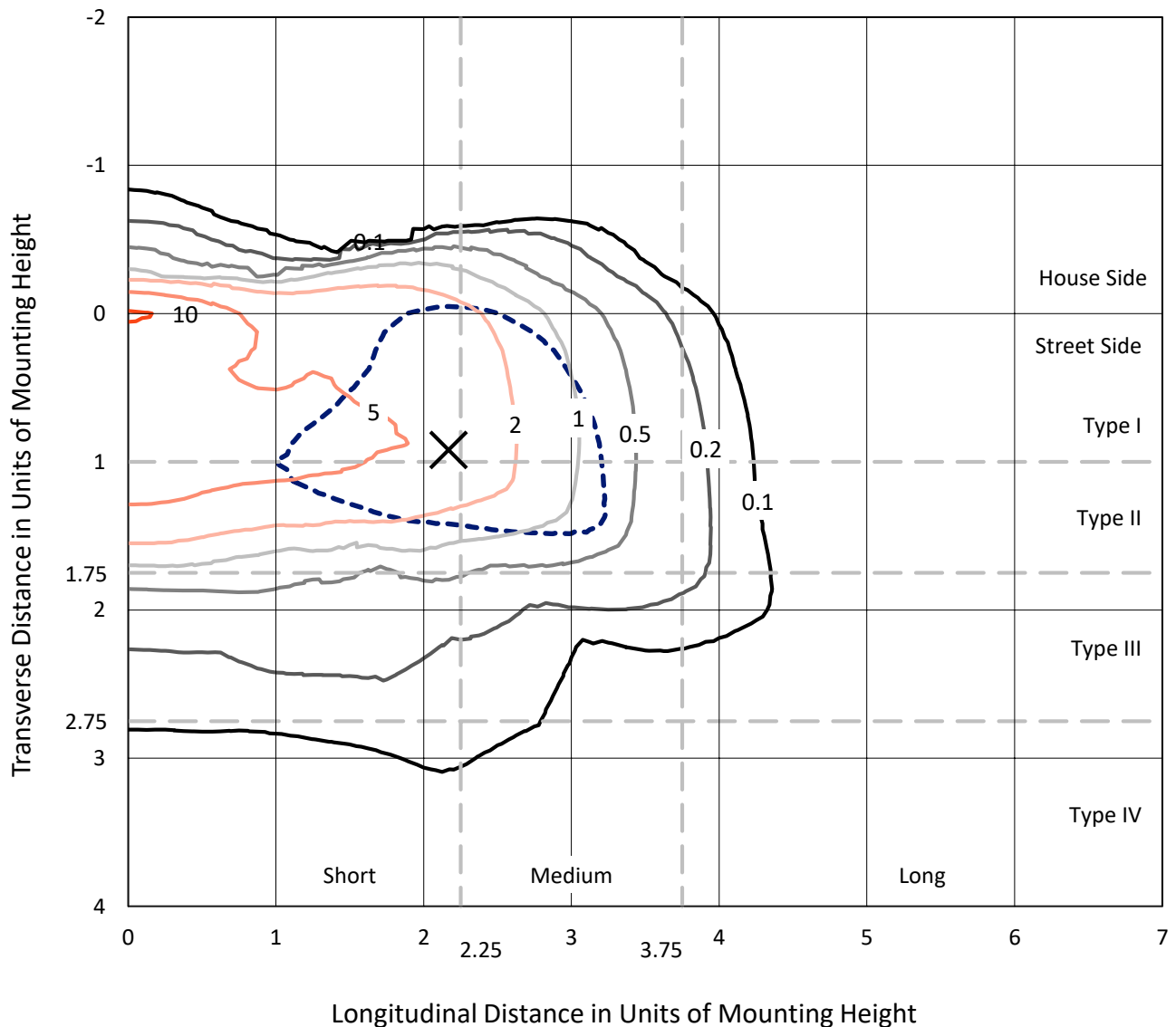


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### Iso-Footcandle Lines of Horizontal Illumination

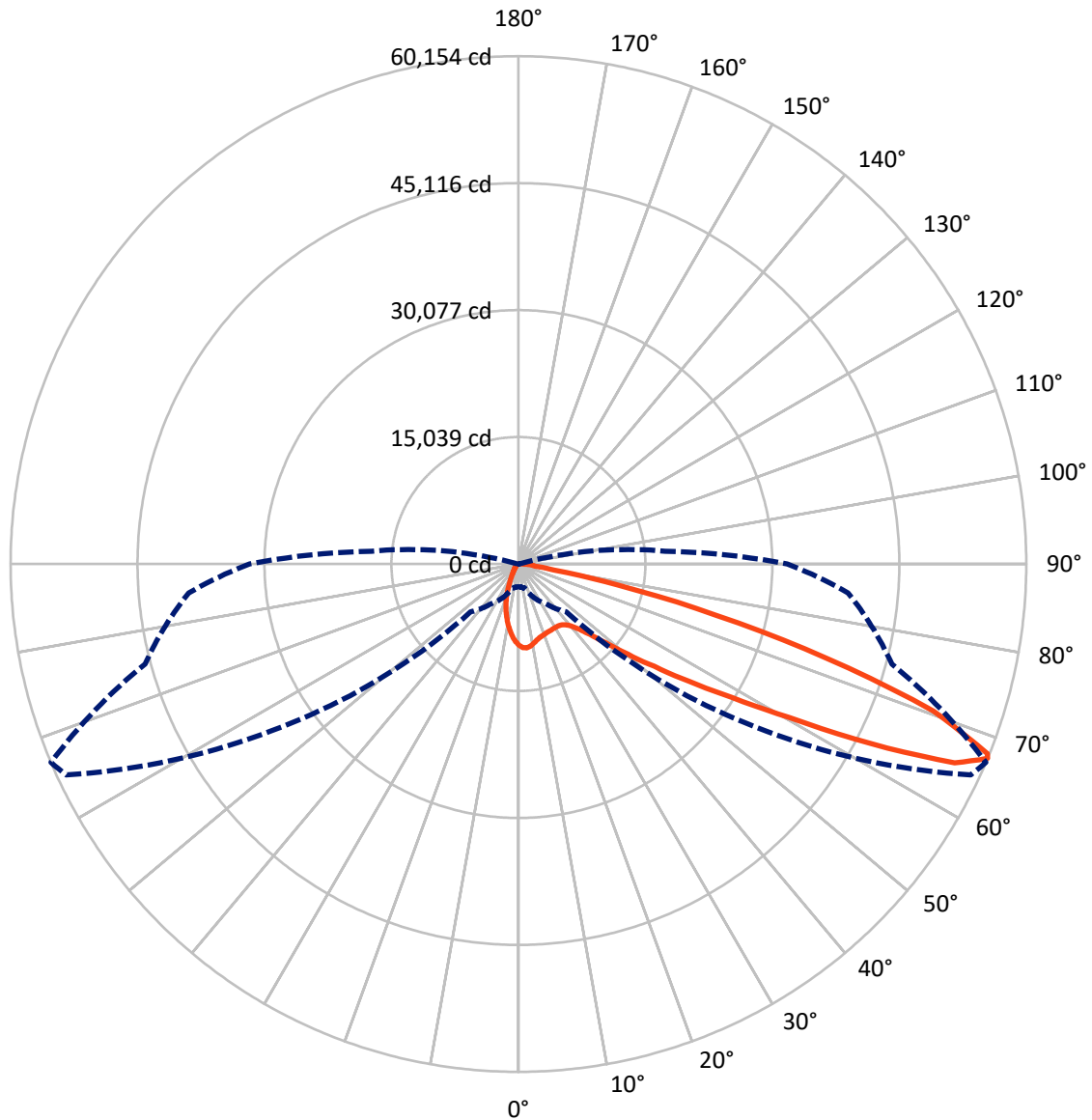
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.7 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	4535.6	0.0	4535.6
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	39147.4	0.0	39147.4
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	43683.0	0.0	43683.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	783.9	1.8
10°-20°	1668.4	3.8
20°-30°	2425.7	5.6
30°-40°	3784.2	8.7
40°-50°	6703.5	15.3
50°-60°	10607.6	24.3
60°-70°	12149.6	27.8
70°-80°	5039.6	11.5
80°-90°	520.6	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°	43683.0	100.0
0°-180°	43683.0	100.0



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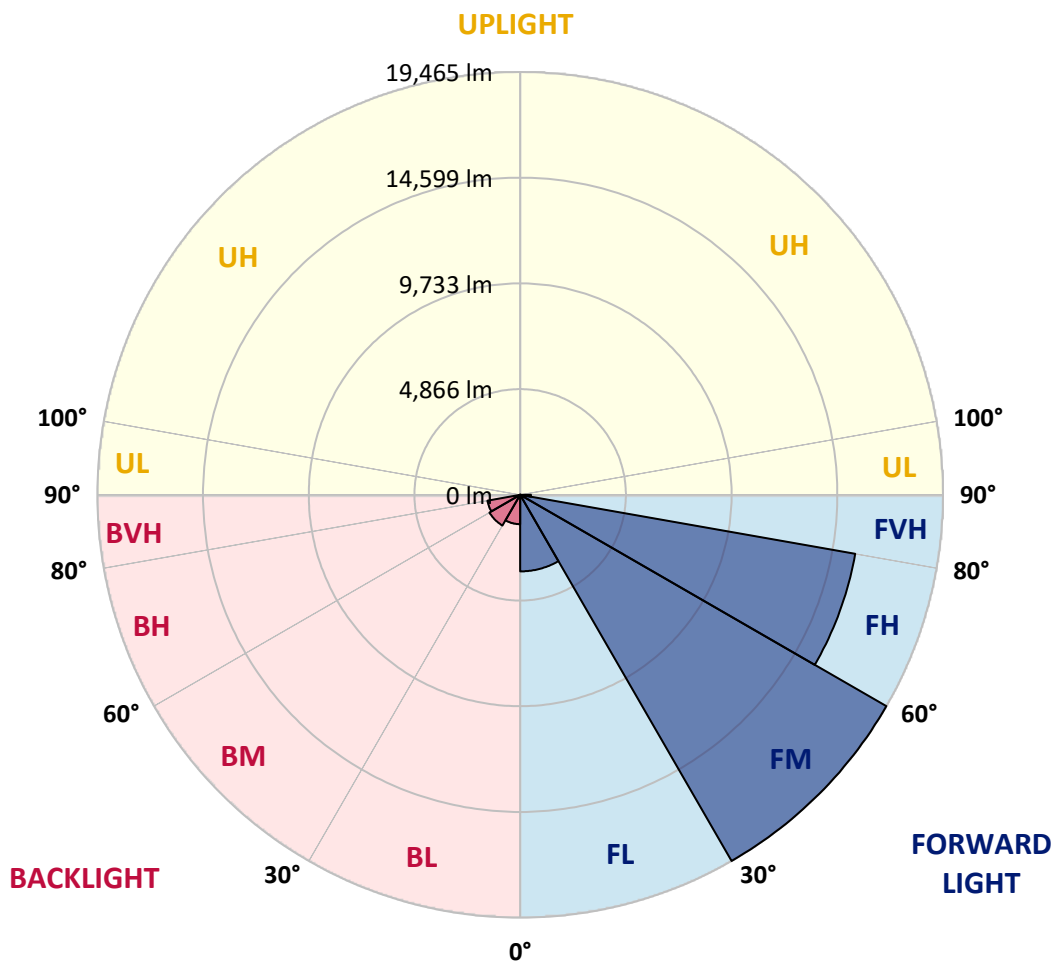
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3524.6	8.1			
FM (30°-60°)	19465.3	44.6			
FH (60°-80°)	15660.5	35.9			G5
FVH (80°-90°)	497.1	1.1			G3/500
BL (0°-30°)	1353.4	3.1	B3/2500		
BM (30°-60°)	1630.1	3.7	B2/2500		
BH (60°-80°)	1528.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	23.4	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°	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7
2.5°	9959.8	9980.2	9977.7	9993.0	10028.6	10031.2	9995.5	9926.7	9911.4	9822.3	9666.8
5°	9185.3	9243.9	9279.6	9424.8	9587.9	9784.0	9931.8	9985.3	9977.7	9914.0	9679.6
7.5°	8301.1	8359.8	8400.5	8571.2	8787.8	9124.1	9508.9	9824.8	9852.8	9921.6	9669.4
10°	7712.6	7722.8	7778.8	7941.9	8168.7	8512.6	8971.3	9524.2	9608.2	9860.5	9643.9
12.5°	7228.5	7236.1	7310.0	7485.8	7727.9	8074.4	8555.9	9195.5	9325.4	9784.0	9638.8
15°	6884.5	6912.5	6978.8	7162.2	7419.6	7763.5	8257.8	8953.4	9108.8	9756.0	9684.7
17.5°	6769.8	6800.4	6820.8	6953.3	7187.7	7524.0	8031.1	8795.4	8971.3	9771.3	9773.9
20°	6889.6	6912.5	6866.7	6899.8	7045.0	7345.7	7840.0	8660.4	8869.3	9789.1	9888.5
22.5°	7335.5	7345.7	7220.8	7075.6	7050.1	7215.7	7689.6	8553.4	8777.6	9837.5	10023.5
25°	8099.9	8082.0	7878.2	7564.8	7269.2	7192.8	7600.5	8487.1	8731.7	9888.5	10163.7
27.5°	9022.2	9047.7	8767.4	8311.3	7748.2	7345.7	7587.7	8459.1	8711.4	9924.2	10286.0
30°	10143.3	10179.0	9857.9	9284.6	8477.0	7722.8	7704.9	8454.0	8698.6	9901.2	10296.2
32.5°	11287.3	11330.6	11078.4	10487.3	9450.3	8354.7	7969.9	8510.1	8724.1	9822.3	10237.6
35°	12484.8	12546.0	12377.8	11870.8	10770.1	9266.8	8436.2	8680.8	8843.9	9814.6	10179.0
37.5°	14138.5	14194.5	13878.6	13340.9	12367.6	10489.8	9185.3	9001.8	9126.7	9936.9	10194.3
40°	16607.4	16599.7	15784.4	14961.4	14123.2	12044.1	10237.6	9582.8	9646.5	10306.4	10382.8
42.5°	19298.0	19285.3	18080.1	16829.1	16072.3	13957.5	11621.1	10586.6	10543.3	10986.7	10872.0
45°	21372.0	21369.5	20386.0	18977.0	18419.0	16153.9	13409.7	11982.9	11916.7	12092.5	11774.0
47.5°	22256.1	22271.4	21777.1	20786.0	21020.4	19124.7	15664.7	14006.0	13906.6	13835.2	13351.1
50°	21568.2	21598.8	21639.6	21445.9	22928.8	23117.3	18689.0	16857.1	16808.7	16490.2	15733.5
52.5°	19320.9	19476.4	19955.4	20569.4	23591.3	26949.4	23430.7	20398.7	20138.8	19799.9	18966.8
55°	15534.7	15705.4	16615.0	18105.6	22605.2	29466.8	30075.7	24964.6	24531.4	23519.9	22317.3
57.5°	10280.9	10545.9	11865.7	13761.4	19741.3	29871.9	36705.4	31301.3	29792.9	27023.3	25667.8
60°	5664.0	5918.8	7350.8	9068.1	14258.2	27869.2	41164.3	39551.5	36886.3	30939.5	29736.9
62.5°	3488.1	3625.7	4683.1	6280.6	8550.8	21996.3	42086.7	49919.0	46833.5	35981.8	34651.8
65°	2777.2	2835.8	3353.1	5134.1	6130.3	13083.6	39108.1	57822.7	56793.3	42086.7	39052.1
67°	2695.7	2718.6	2963.2	4407.9	5778.7	8020.9	32763.8	59109.4	60154.0	45781.2	39189.7
67.5°	2713.5	2739.0	2970.9	4206.6	5768.5	7371.2	30577.7	58602.3	59922.2	46074.2	38580.7
70°	2616.7	2695.7	3401.5	4204.1	5485.7	6125.2	18312.0	50775.1	52148.4	42810.3	32735.8
72.5°	927.4	932.5	1470.2	3401.5	5964.7	6191.5	9195.5	37222.7	38239.3	32748.5	23601.5
75°	550.4	468.8	489.2	968.2	5699.7	6013.1	5304.8	23784.9	24164.5	18765.5	11952.3
77.5°	379.6	331.2	341.4	428.1	2170.8	5929.0	4214.3	12403.3	11998.2	6581.3	2545.4
80°	216.6	191.1	203.8	374.5	789.9	5531.6	3974.8	5029.6	4288.2	1116.0	703.2
82.5°	114.7	96.8	117.2	308.3	550.4	3447.3	3982.4	2430.7	1926.2	377.1	479.0
85°	40.8	33.1	56.1	211.5	366.9	1057.4	3691.9	2043.4	1605.2	183.5	364.4
87.5°	7.6	7.6	22.9	86.6	147.8	323.6	2183.6	1212.8	812.8	109.6	249.7
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°	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7	9633.7
2.5°	9603.1	9493.6	9345.8	9164.9	8950.9	8762.3	8622.2	8477.0	8446.4	8395.4	8387.8
5°	9539.4	9350.9	8984.0	8563.6	8115.1	7710.0	7381.3	7088.3	6958.4	6846.3	6833.5
7.5°	9445.2	9162.3	8538.1	7860.4	7159.7	6522.7	5982.5	5600.3	5248.7	5080.6	5055.1
10°	9335.6	8930.5	8036.2	7096.0	6127.8	5228.3	4425.8	3753.1	3345.4	3103.4	3072.8
12.5°	9233.7	8703.7	7524.0	6303.6	5016.9	3814.2	2782.3	2140.3	1712.2	1538.9	1518.6
15°	9185.3	8520.3	7045.0	5493.3	3855.0	2428.2	1521.1	1177.1	1037.0	996.2	993.7
17.5°	9180.2	8364.8	6576.2	4655.1	2700.8	1411.6	991.1	904.5	876.5	866.3	866.3
20°	9177.6	8217.1	6107.4	3786.2	1714.8	940.2	825.5	805.1	784.8	772.0	772.0
22.5°	9205.7	8084.6	5618.2	2899.5	1080.3	761.8	726.2	705.8	680.3	662.5	659.9
25°	9233.7	7982.7	5118.8	2063.8	782.2	662.5	626.8	598.8	563.1	540.2	537.6
27.5°	9238.8	7855.3	4583.7	1381.0	654.8	578.4	532.5	489.2	448.4	425.5	423.0
30°	9162.3	7641.2	3990.1	932.5	578.4	501.9	440.8	394.9	356.7	338.9	338.9
32.5°	9012.0	7376.3	3337.8	703.2	514.7	430.6	364.4	321.0	295.6	287.9	285.4
35°	8877.0	7090.9	2667.7	596.2	461.2	364.4	298.1	270.1	254.8	252.2	249.7
37.5°	8798.0	6861.6	2038.3	540.2	410.2	305.8	252.2	231.9	224.2	219.1	221.7
40°	8859.1	6670.5	1505.8	494.3	359.3	254.8	214.0	203.8	196.2	193.6	193.6
42.5°	9126.7	6637.4	1118.5	453.5	310.8	211.5	186.0	178.4	173.3	170.7	173.3
45°	9829.9	6841.2	868.8	415.3	262.4	178.4	158.0	155.4	152.9	152.9	152.9
47.5°	10887.3	7261.6	723.6	372.0	219.1	152.9	137.6	135.0	132.5	135.0	135.0
50°	12678.5	8031.1	647.2	328.7	180.9	129.9	117.2	117.2	117.2	117.2	119.8
52.5°	15402.2	9544.5	596.2	285.4	147.8	109.6	99.4	99.4	101.9	101.9	104.5
55°	18436.8	11552.3	550.4	242.1	124.8	91.7	81.5	84.1	86.6	89.2	89.2
57.5°	21728.7	13776.6	512.1	198.7	107.0	73.9	68.8	71.3	73.9	79.0	79.0
60°	25700.9	16184.4	456.1	155.4	89.2	58.6	53.5	58.6	66.2	71.3	73.9
62.5°	30063.0	18513.2	384.7	122.3	73.9	45.9	43.3	53.5	63.7	68.8	71.3
65°	33044.1	19244.5	295.6	99.4	56.1	33.1	35.7	48.4	61.2	68.8	68.8
67°	31836.4	17448.2	242.1	84.1	45.9	25.5	33.1	48.4	61.2	66.2	68.8
67.5°	30998.1	16745.0	231.9	81.5	43.3	25.5	33.1	48.4	61.2	68.8	68.8
70°	25221.9	12579.1	193.6	61.2	35.7	22.9	28.0	45.9	58.6	66.2	66.2
72.5°	17524.6	7755.9	173.3	43.3	30.6	20.4	25.5	43.3	56.1	63.7	66.2
75°	8331.7	2807.8	147.8	33.1	28.0	17.8	22.9	43.3	56.1	63.7	63.7
77.5°	1699.5	652.3	119.8	28.0	22.9	17.8	20.4	40.8	53.5	61.2	61.2
80°	558.0	252.2	89.2	25.5	22.9	17.8	20.4	38.2	53.5	58.6	61.2
82.5°	402.6	127.4	58.6	25.5	22.9	17.8	17.8	38.2	51.0	58.6	58.6
85°	308.3	89.2	38.2	25.5	22.9	17.8	17.8	35.7	48.4	56.1	56.1
87.5°	203.8	35.7	30.6	25.5	22.9	17.8	17.8	35.7	45.9	53.5	56.1
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)