

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: P191863

Luminaire Tested: **GLEON-AF-05-LED-E1-SL2-7050-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191863  
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-05-LED-E1-SL2-7050-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5000K, 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: 27032 lumens  
Efficiency: N/A  
Efficacy: 84.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 320  
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

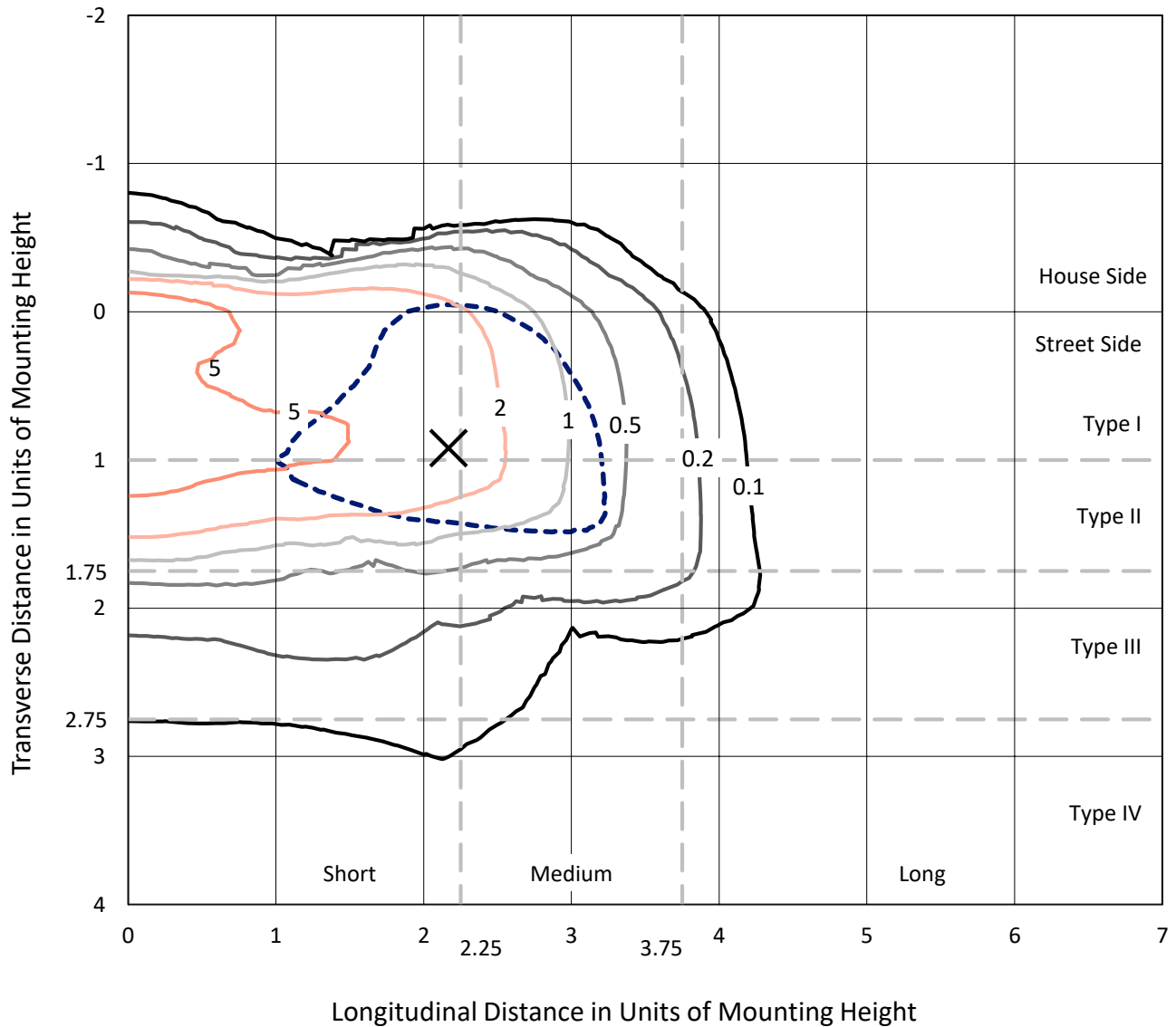


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### Iso-Footcandle Lines of Horizontal Illumination

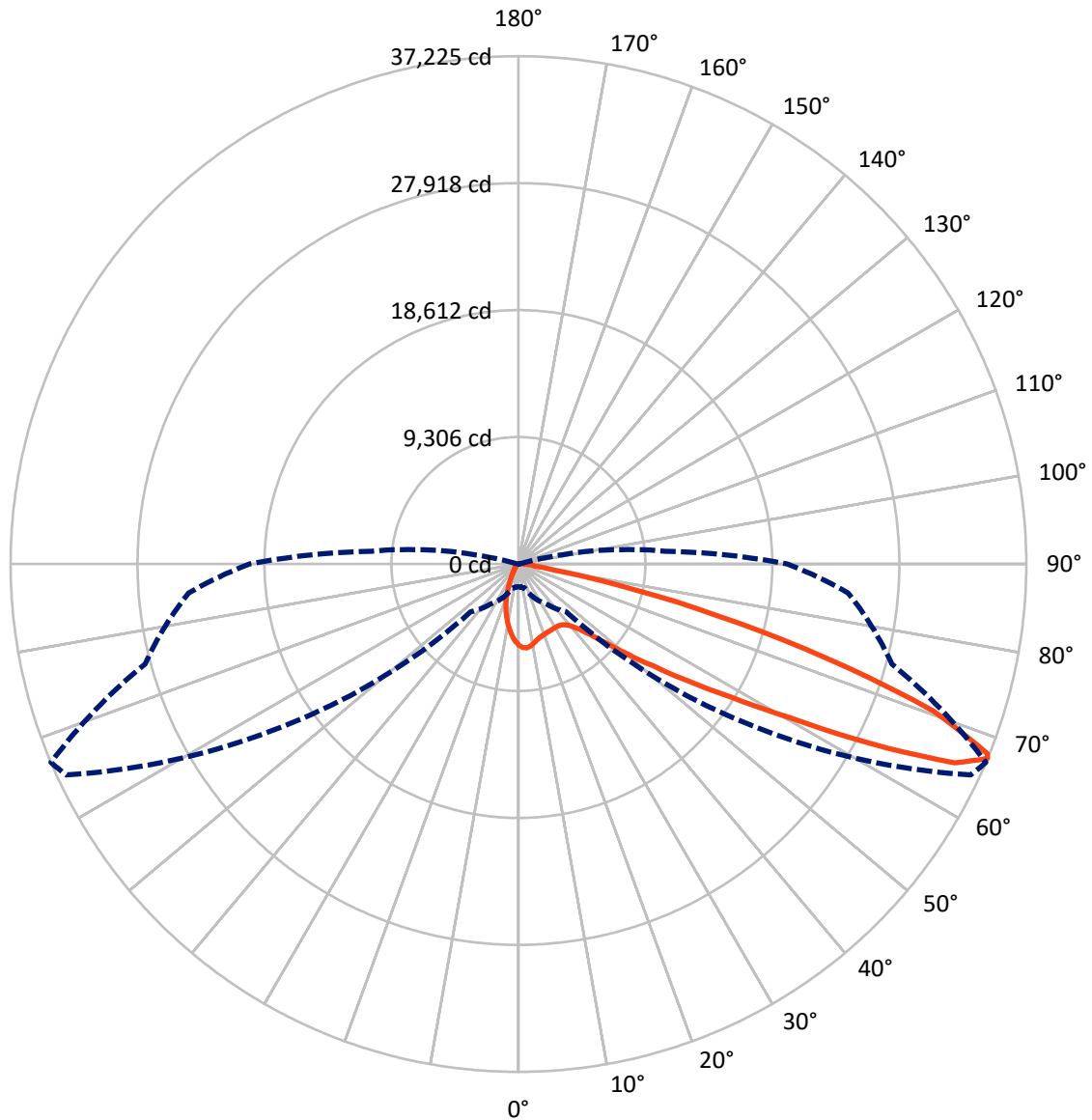
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	2806.7	0.0	2806.7
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	24225.3	0.0	24225.3
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	27032.0	0.0	27032.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.1	1.8
10°-20°	1032.4	3.8
20°-30°	1501.1	5.6
30°-40°	2341.7	8.7
40°-50°	4148.3	15.3
50°-60°	6564.2	24.3
60°-70°	7518.4	27.8
70°-80°	3118.6	11.5
80°-90°	322.1	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°	27032.0	100.0
0°-180°	27032.0	100.0



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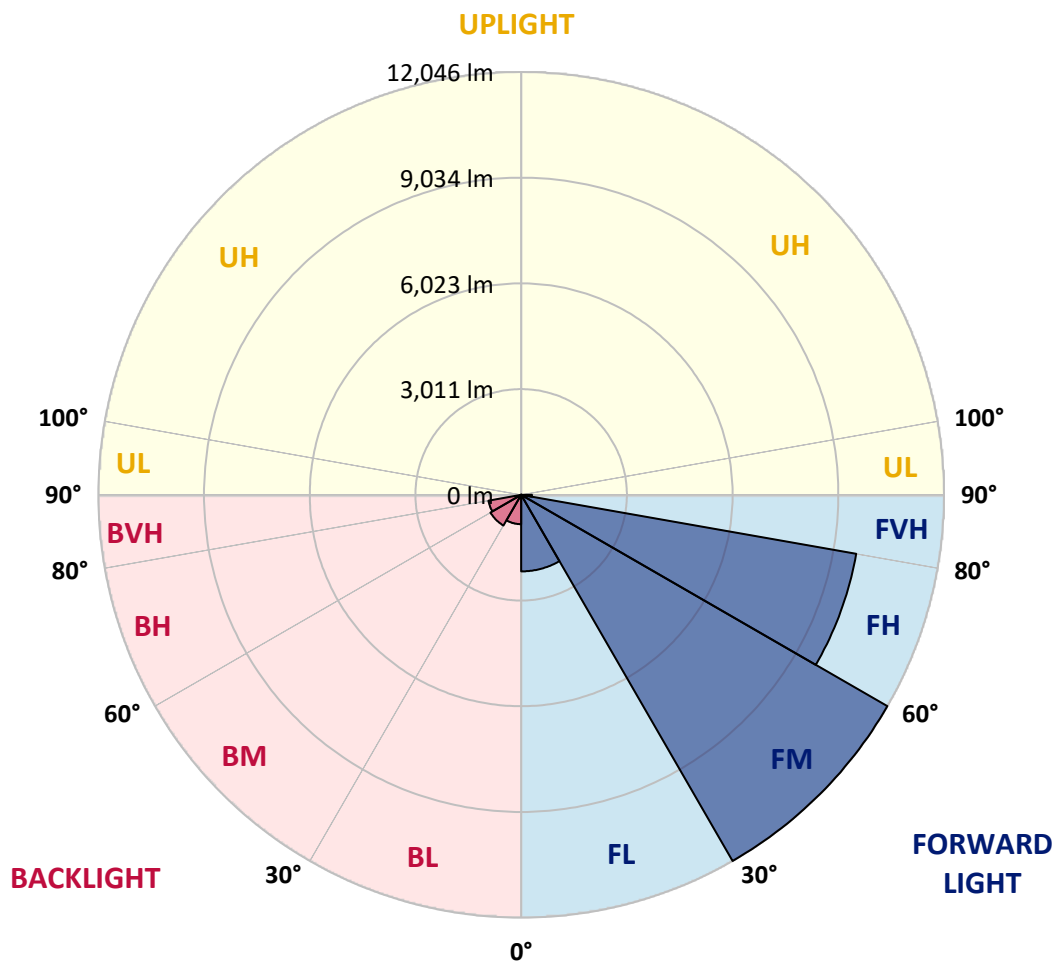
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2181.1	8.1			
FM (30°-60°)	12045.5	44.6			
FH (60°-80°)	9691.0	35.9			G4/12000
FVH (80°-90°)	307.6	1.1			G3/500
BL (0°-30°)	837.5	3.1	B2/1000		
BM (30°-60°)	1008.7	3.7	B2/2500		
BH (60°-80°)	946.0	3.5	B2/1000		G2/1000
BVH (80°-90°)	14.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6
2.5°	6163.4	6176.0	6174.4	6183.9	6205.9	6207.5	6185.4	6142.9	6133.4	6078.2	5982.1
5°	5684.1	5720.3	5742.4	5832.3	5933.2	6054.6	6146.0	6179.1	6174.4	6135.0	5989.9
7.5°	5136.9	5173.2	5198.4	5304.1	5438.1	5646.2	5884.3	6079.8	6097.2	6139.7	5983.6
10°	4772.7	4779.0	4813.7	4914.6	5054.9	5267.8	5551.6	5893.8	5945.8	6101.9	5967.9
12.5°	4473.1	4477.9	4523.6	4632.4	4782.2	4996.6	5294.6	5690.4	5770.8	6054.6	5964.7
15°	4260.3	4277.6	4318.6	4432.1	4591.4	4804.2	5110.1	5540.6	5636.8	6037.2	5993.1
17.5°	4189.3	4208.2	4220.9	4302.9	4447.9	4656.0	4969.8	5442.8	5551.6	6046.7	6048.3
20°	4263.4	4277.6	4249.2	4269.7	4359.6	4545.7	4851.5	5359.2	5488.5	6057.7	6119.2
22.5°	4539.4	4545.7	4468.4	4378.5	4362.8	4465.3	4758.5	5293.0	5431.8	6087.7	6202.8
25°	5012.4	5001.3	4875.2	4681.3	4498.4	4451.1	4703.3	5252.0	5403.4	6119.2	6289.5
27.5°	5583.1	5598.9	5425.5	5143.2	4794.8	4545.7	4695.5	5234.7	5390.8	6141.3	6365.2
30°	6276.9	6299.0	6100.3	5745.5	5245.7	4779.0	4768.0	5231.5	5382.9	6127.1	6371.5
32.5°	6984.8	7011.6	6855.6	6489.8	5848.0	5170.0	4932.0	5266.2	5398.7	6078.2	6335.2
35°	7725.9	7763.7	7659.7	7345.9	6664.8	5734.5	5220.5	5371.9	5472.8	6073.5	6299.0
37.5°	8749.2	8783.9	8588.4	8255.7	7653.4	6491.3	5684.1	5570.5	5647.8	6149.2	6308.4
40°	10277.0	10272.3	9767.7	9258.5	8739.7	7453.1	6335.2	5930.0	5969.4	6377.8	6425.1
42.5°	11942.0	11934.1	11188.4	10414.2	9945.9	8637.2	7191.4	6551.2	6524.4	6798.8	6727.8
45°	13225.5	13223.9	12615.3	11743.4	11398.1	9996.4	8298.2	7415.3	7374.3	7483.1	7286.0
47.5°	13772.6	13782.1	13476.2	12862.8	13007.9	11834.8	9693.6	8667.2	8605.7	8561.6	8262.0
50°	13346.9	13365.8	13391.0	13271.2	14188.8	14305.5	11565.2	10431.5	10401.6	10204.5	9736.2
52.5°	11956.2	12052.4	12348.8	12728.8	14598.8	16676.9	14499.5	12623.2	12462.3	12252.6	11737.1
55°	9613.2	9718.9	10281.7	11204.1	13988.6	18234.7	18611.5	15448.6	15180.6	14554.6	13810.4
57.5°	6362.0	6526.0	7342.8	8515.8	12216.4	18485.4	22714.1	19369.9	18436.5	16722.6	15883.8
60°	3505.0	3662.7	4548.8	5611.5	8823.3	17246.1	25473.4	24475.3	22826.1	19146.0	18401.8
62.5°	2158.5	2243.7	2898.0	3886.6	5291.5	13611.8	26044.2	30891.0	28981.6	22266.4	21443.3
65°	1718.6	1754.9	2075.0	3177.1	3793.6	8096.4	24201.0	35781.9	35144.9	26044.2	24166.3
67°	1668.2	1682.4	1833.7	2727.7	3576.0	4963.5	20275.0	36578.2	37224.6	28330.4	24251.4
67.5°	1679.2	1695.0	1838.4	2603.2	3569.7	4561.4	18922.1	36264.4	37081.2	28511.7	23874.6
70°	1619.3	1668.2	2104.9	2601.6	3394.7	3790.4	11331.8	31420.7	32270.6	26491.9	20257.6
72.5°	573.9	577.1	909.8	2104.9	3691.1	3831.4	5690.4	23034.2	23663.3	20265.5	14605.1
75°	340.6	290.1	302.7	599.2	3527.1	3721.0	3282.7	14718.6	14953.6	11612.5	7396.4
77.5°	234.9	205.0	211.3	264.9	1343.4	3669.0	2607.9	7675.4	7424.7	4072.7	1575.1
80°	134.0	118.3	126.1	231.8	488.8	3423.0	2459.7	3112.4	2653.6	690.6	435.2
82.5°	71.0	59.9	72.5	190.8	340.6	2133.3	2464.4	1504.2	1192.0	233.4	296.4
85°	25.2	20.5	34.7	130.9	227.0	654.3	2284.7	1264.5	993.3	113.5	225.5
87.5°	4.7	4.7	14.2	53.6	91.4	200.2	1351.2	750.5	503.0	67.8	154.5
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°	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6	5961.6
2.5°	5942.6	5874.8	5783.4	5671.4	5539.0	5422.3	5335.6	5245.7	5226.8	5195.3	5190.5
5°	5903.2	5786.5	5559.5	5299.3	5021.8	4771.1	4567.7	4386.4	4306.0	4236.6	4228.7
7.5°	5844.9	5669.9	5283.6	4864.2	4430.6	4036.4	3702.1	3465.6	3248.0	3144.0	3128.2
10°	5777.1	5526.4	4973.0	4391.1	3792.0	3235.4	2738.8	2322.5	2070.2	1920.4	1901.5
12.5°	5714.0	5386.1	4656.0	3900.8	3104.5	2360.3	1721.8	1324.4	1059.6	952.3	939.7
15°	5684.1	5272.5	4359.6	3399.4	2385.6	1502.6	941.3	728.4	641.7	616.5	614.9
17.5°	5680.9	5176.4	4069.5	2880.7	1671.3	873.5	613.3	559.7	542.4	536.1	536.1
20°	5679.3	5084.9	3779.4	2343.0	1061.1	581.8	510.9	498.2	485.6	477.7	477.7
22.5°	5696.7	5002.9	3476.7	1794.3	668.5	471.4	449.4	436.7	421.0	409.9	408.4
25°	5714.0	4939.8	3167.6	1277.1	484.1	409.9	387.9	370.5	348.5	334.3	332.7
27.5°	5717.2	4861.0	2836.5	854.6	405.2	357.9	329.5	302.7	277.5	263.3	261.7
30°	5669.9	4728.6	2469.1	577.1	357.9	310.6	272.8	244.4	220.7	209.7	209.7
32.5°	5576.8	4564.6	2065.5	435.2	318.5	266.5	225.5	198.7	182.9	178.2	176.6
35°	5493.3	4388.0	1650.8	369.0	285.4	225.5	184.5	167.1	157.7	156.1	154.5
37.5°	5444.4	4246.1	1261.4	334.3	253.9	189.2	156.1	143.5	138.8	135.6	137.2
40°	5482.2	4127.8	931.8	305.9	222.3	157.7	132.4	126.1	121.4	119.8	119.8
42.5°	5647.8	4107.3	692.2	280.7	192.4	130.9	115.1	110.4	107.2	105.6	107.2
45°	6083.0	4233.5	537.7	257.0	162.4	110.4	97.8	96.2	94.6	94.6	94.6
47.5°	6737.3	4493.6	447.8	230.2	135.6	94.6	85.1	83.6	82.0	83.6	83.6
50°	7845.7	4969.8	400.5	203.4	111.9	80.4	72.5	72.5	72.5	72.5	74.1
52.5°	9531.2	5906.4	369.0	176.6	91.4	67.8	61.5	61.5	63.1	63.1	64.6
55°	11409.1	7148.8	340.6	149.8	77.3	56.8	50.5	52.0	53.6	55.2	55.2
57.5°	13446.2	8525.3	316.9	123.0	66.2	45.7	42.6	44.1	45.7	48.9	48.9
60°	15904.3	10015.3	282.2	96.2	55.2	36.3	33.1	36.3	41.0	44.1	45.7
62.5°	18603.6	11456.4	238.1	75.7	45.7	28.4	26.8	33.1	39.4	42.6	44.1
65°	20448.4	11908.9	182.9	61.5	34.7	20.5	22.1	30.0	37.8	42.6	42.6
67°	19701.0	10797.3	149.8	52.0	28.4	15.8	20.5	30.0	37.8	41.0	42.6
67.5°	19182.3	10362.2	143.5	50.5	26.8	15.8	20.5	30.0	37.8	42.6	42.6
70°	15607.9	7784.2	119.8	37.8	22.1	14.2	17.3	28.4	36.3	41.0	41.0
72.5°	10844.6	4799.5	107.2	26.8	18.9	12.6	15.8	26.8	34.7	39.4	41.0
75°	5155.9	1737.5	91.4	20.5	17.3	11.0	14.2	26.8	34.7	39.4	39.4
77.5°	1051.7	403.6	74.1	17.3	14.2	11.0	12.6	25.2	33.1	37.8	37.8
80°	345.3	156.1	55.2	15.8	14.2	11.0	12.6	23.7	33.1	36.3	37.8
82.5°	249.1	78.8	36.3	15.8	14.2	11.0	11.0	23.7	31.5	36.3	36.3
85°	190.8	55.2	23.7	15.8	14.2	11.0	11.0	22.1	30.0	34.7	34.7
87.5°	126.1	22.1	18.9	15.8	14.2	11.0	11.0	22.1	28.4	33.1	34.7
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)