

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: P648094

Luminaire Tested: **GALN-SA8A-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648094  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16876.8 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

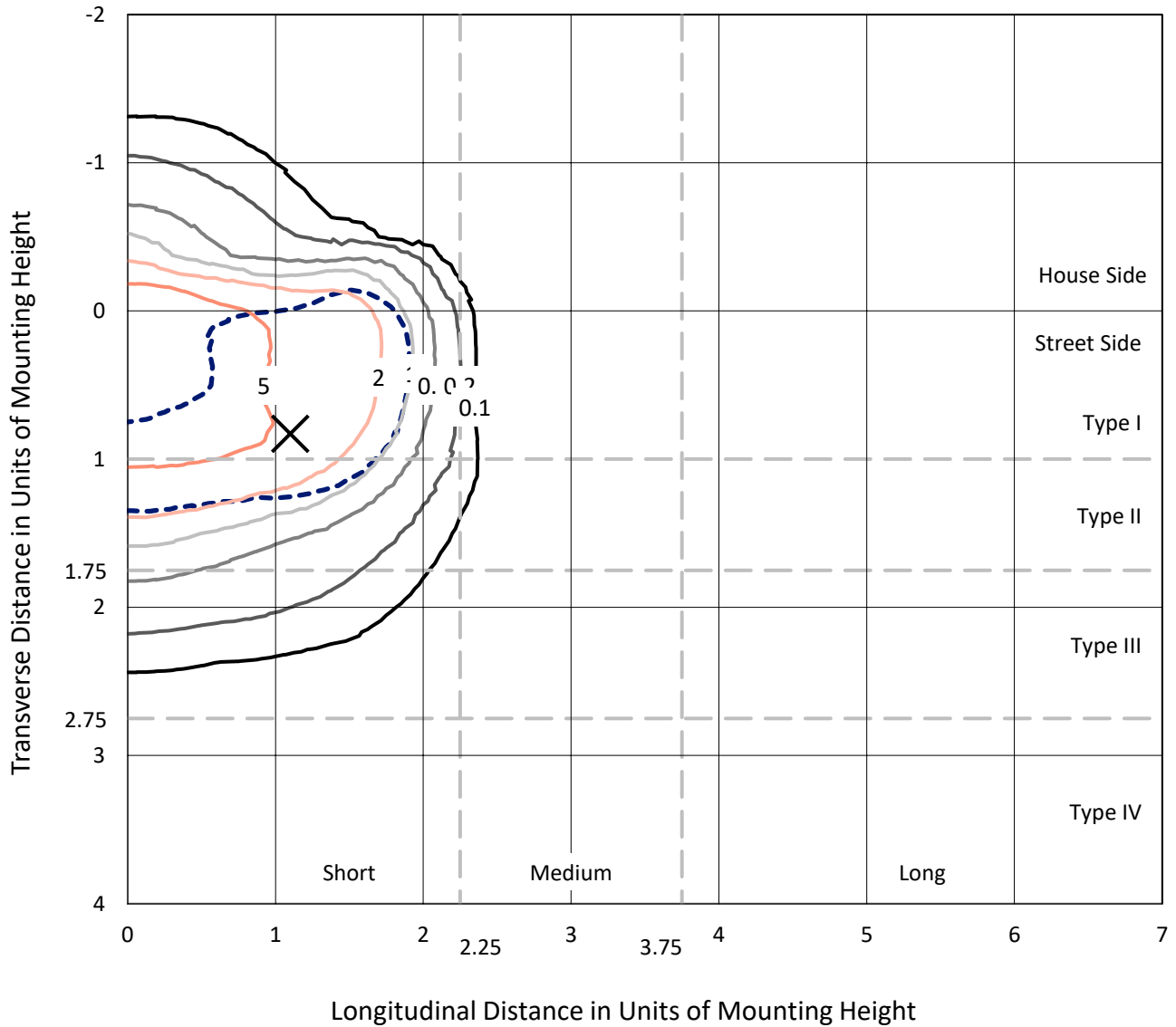
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

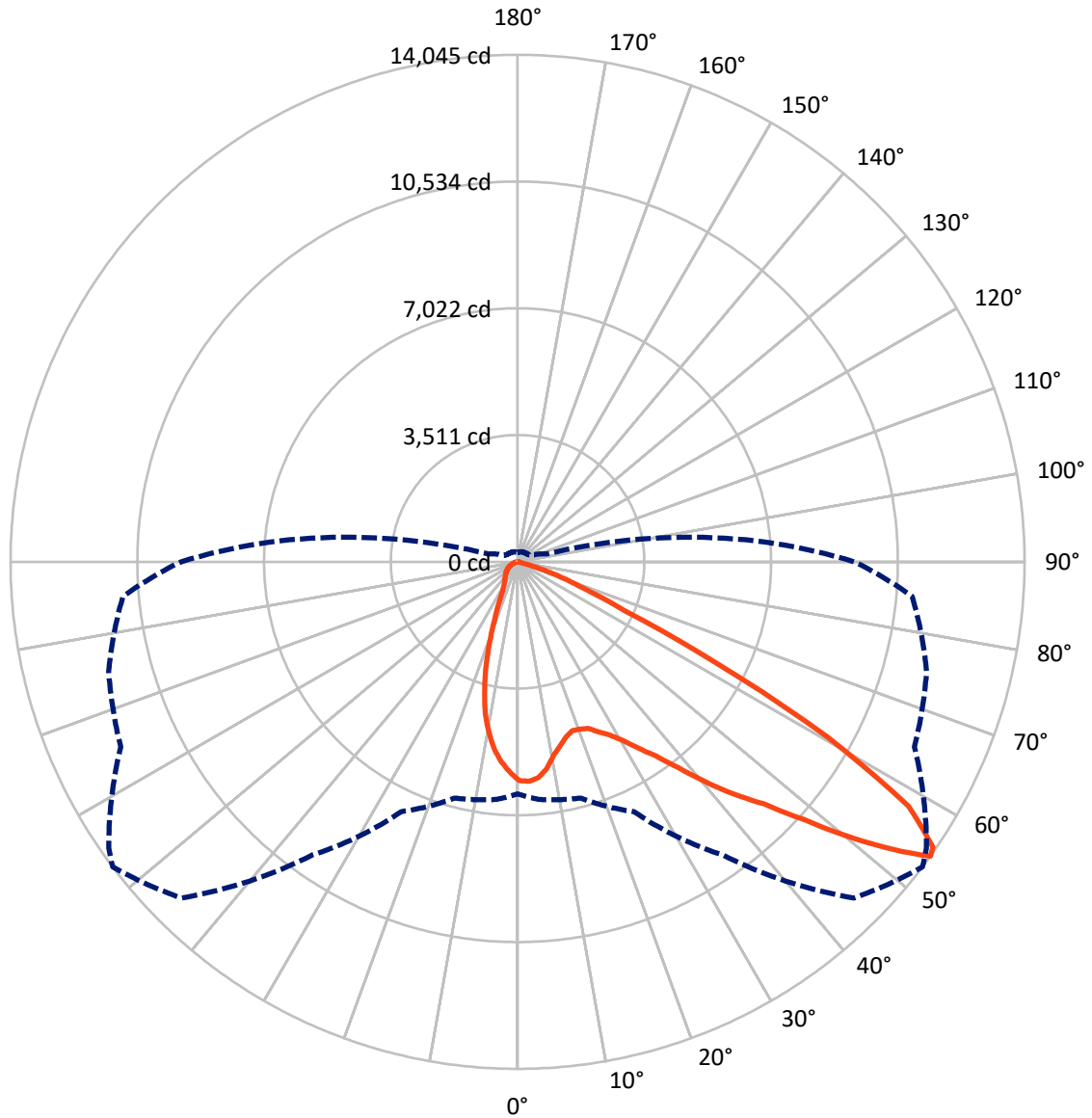
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2792.3	0.0	2792.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14084.5	0.0	14084.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	16876.8	0.0	16876.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.1	3.1
10°-20°	1192.4	7.1
20°-30°	1694.7	10.0
30°-40°	2615.3	15.5
40°-50°	4100.6	24.3
50°-60°	4763.4	28.2
60°-70°	1799.9	10.7
70°-80°	171.2	1.0
80°-90°	19.3	0.1
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°	16876.8	100.0
0°-180°	16876.8	100.0

**Coefficient of Utilization**

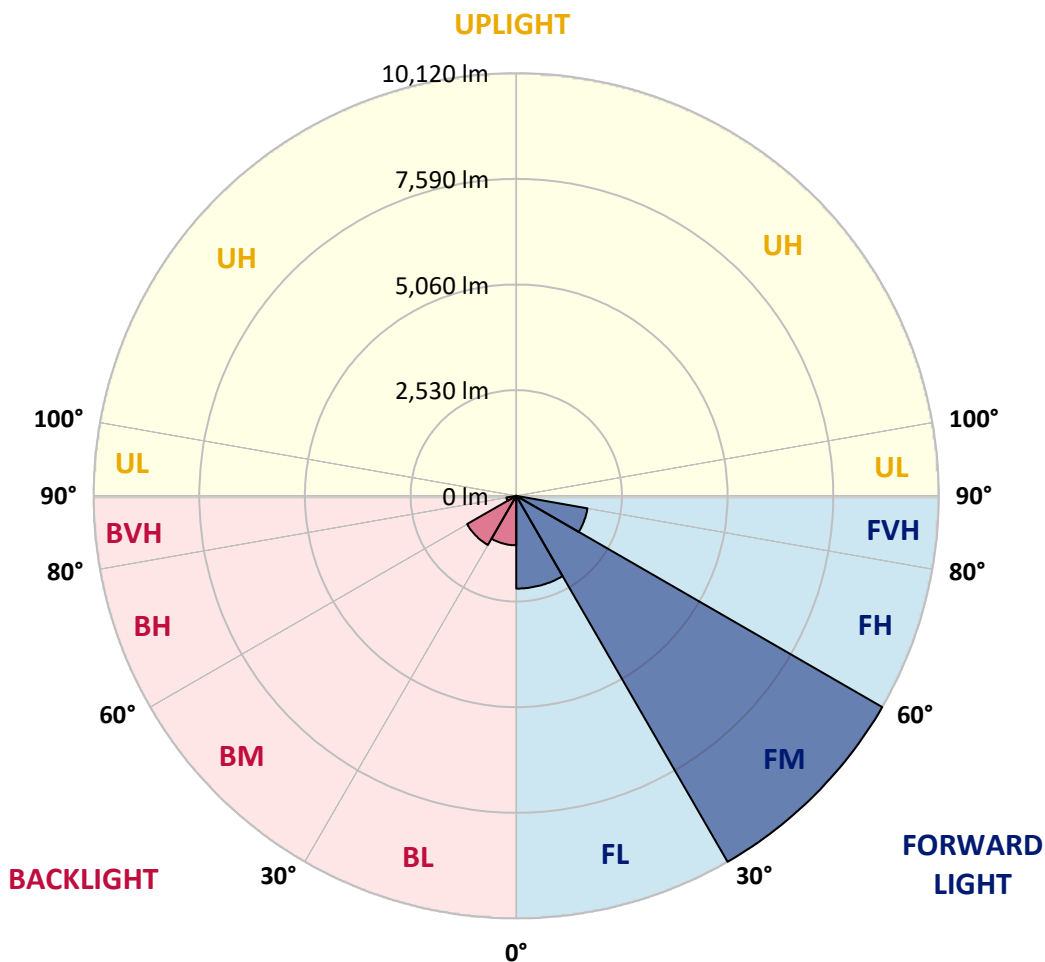


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2222.2	13.2			
FM (30°-60°)	10120.5	60.0			
FH (60°-80°)	1731.8	10.3			G1/1800
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	1184.9	7.0	B3/2500		
BM (30°-60°)	1358.8	8.1	B2/2500		
BH (60°-80°)	239.2	1.4	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8
2.5°	6030.4	5977.0	6030.4	6036.7	6074.4	6109.0	6087.0	6137.3	6109.0	6077.6	6068.2
5°	5543.1	5615.4	5618.6	5731.7	5706.6	5914.1	6005.3	5980.1	6134.2	6124.7	6102.7
7.5°	5106.0	5077.8	5115.5	5247.5	5414.1	5653.1	5785.2	5782.1	6002.1	6159.3	6143.6
10°	4700.4	4697.3	4775.9	4879.7	5021.1	5272.6	5455.0	5546.2	5888.9	6127.9	6162.4
12.5°	4426.9	4414.3	4499.2	4584.2	4807.4	5002.3	5235.0	5279.0	5672.0	6017.8	6074.4
15°	4247.7	4276.0	4282.3	4445.8	4587.3	4845.0	5027.4	5118.6	5571.4	5929.8	6146.8
17.5°	4216.3	4254.0	4257.2	4392.3	4543.3	4760.2	4920.5	5043.1	5486.5	5973.8	6149.9
20°	4279.2	4257.2	4276.0	4360.9	4508.7	4716.2	4948.9	4989.7	5458.2	5995.8	6184.4
22.5°	4458.3	4452.1	4404.9	4474.1	4577.8	4794.8	5014.9	5077.8	5540.0	6109.0	6212.8
25°	4656.4	4691.0	4647.0	4637.6	4709.9	4923.7	5216.1	5297.9	5813.5	6313.4	6300.8
27.5°	5027.4	4992.9	4992.9	4948.9	4930.0	5033.8	5433.0	5568.2	6118.4	6577.5	6401.4
30°	5382.7	5420.5	5392.1	5407.9	5282.1	5272.6	5741.2	5907.8	6659.3	6980.0	6615.3
32.5°	5945.6	5895.2	5942.3	5901.5	5734.8	5565.1	6159.3	6332.3	7313.2	7442.1	6935.9
35°	6414.0	6392.0	6593.2	6586.9	6316.5	6149.9	6602.6	6860.5	7769.1	7995.4	7313.2
37.5°	7080.5	7039.6	7269.2	7379.2	7137.1	6888.8	7237.7	7536.5	8193.5	8438.8	7699.9
40°	7766.0	7869.7	8177.8	8360.2	8102.4	7772.3	8014.3	8105.5	8476.5	8728.1	7964.0
42.5°	8633.7	8784.6	9099.1	9256.3	9234.2	8875.9	8803.5	8800.4	8680.9	8646.4	8159.0
45°	9466.9	9410.3	9894.5	10237.3	10513.9	10410.1	9564.4	9470.1	9004.7	8769.0	8209.3
47.5°	9831.7	9812.8	10142.9	10752.9	11696.1	11825.0	10671.1	10306.4	9551.8	9284.6	8482.8
50°	9360.1	9457.5	9784.5	10460.5	11906.8	12890.8	12029.4	11538.9	10190.1	9913.4	9130.5
52.5°	7819.4	7885.4	8196.7	9055.1	11189.9	13519.7	13331.0	13048.1	11362.8	10903.8	10259.3
54°	6429.7	6605.8	6775.5	7637.1	9913.4	13170.7	14044.7	13827.9	12126.9	11727.5	10969.8
55°	5599.7	5703.5	5826.1	6684.4	9029.9	12579.6	13963.0	13981.9	12639.3	11985.4	11447.7
57.5°	4090.5	4162.8	4037.1	4417.5	6200.2	10215.3	12771.4	13280.8	13331.0	12372.1	11740.1
60°	3125.3	3156.7	3015.2	3074.9	3854.7	7011.4	9878.8	10491.9	12026.3	10812.6	9944.8
62.5°	2424.1	2430.4	2427.2	2531.0	2656.8	4125.1	6178.2	6722.1	8291.0	7677.9	6753.5
65°	1785.9	1757.5	1807.9	2122.2	2266.9	2593.9	3254.1	3650.3	4505.5	3804.4	2719.7
67.5°	1157.0	1166.4	1216.8	1578.4	1943.1	1990.2	2002.8	1971.4	1974.5	1087.9	682.3
70°	694.8	710.6	694.8	892.9	1389.7	1427.4	1304.8	1273.4	993.5	257.8	254.7
72.5°	411.9	389.9	349.0	383.6	578.5	691.7	622.6	619.4	389.9	150.9	150.9
75°	173.0	157.2	128.9	116.4	154.1	147.8	147.8	132.0	103.7	100.6	94.4
77.5°	34.6	34.6	25.1	28.3	37.7	44.0	53.5	53.5	62.9	62.9	59.7
80°	0.0	3.1	9.4	18.9	28.3	40.9	47.1	47.1	53.5	53.5	44.0
82.5°	0.0	3.1	9.4	18.9	25.1	37.7	47.1	47.1	53.5	56.6	47.1
85°	0.0	3.1	9.4	15.7	25.1	31.5	31.5	28.3	22.0	18.9	12.6
87.5°	0.0	0.0	3.1	6.3	3.1	6.3	6.3	6.3	6.3	6.3	6.3
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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CATALOG NUMBER: GALN-SA8A-835-U-SL2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8	6061.8
2.5°	6090.2	6087.0	6011.6	5888.9	5860.6	5756.9	5744.3	5681.4	5716.0	5599.7	5587.1
5°	6039.8	6002.1	5910.9	5832.3	5602.8	5439.3	5310.4	5153.2	5062.0	5077.8	5018.0
7.5°	6112.2	6014.7	5854.3	5580.8	5301.0	5014.9	4860.8	4540.1	4423.8	4250.8	4225.7
10°	6036.7	5964.4	5716.0	5263.2	4876.5	4464.7	4103.1	3747.8	3477.4	3361.0	3335.9
12.5°	6030.4	5904.7	5489.6	4986.5	4426.9	3835.8	3310.8	2867.4	2600.2	2449.3	2414.7
15°	5932.9	5782.1	5235.0	4558.9	3785.5	3049.8	2477.6	2050.0	1845.6	1757.5	1782.7
17.5°	5942.3	5716.0	4980.3	4106.2	3153.5	2238.6	1691.5	1471.4	1418.0	1440.0	1440.0
20°	5932.9	5568.2	4672.2	3584.3	2414.7	1553.2	1241.9	1163.3	1197.9	1267.1	1251.4
22.5°	5882.7	5499.1	4389.2	3034.0	1776.4	1150.8	996.7	999.8	1053.3	1138.2	1157.0
25°	5920.3	5345.0	4030.7	2477.6	1295.4	918.1	864.7	886.7	943.2	1006.2	1018.7
27.5°	5892.1	5235.0	3656.6	1924.2	946.4	789.2	786.1	811.2	836.3	883.5	883.5
30°	5923.6	5134.4	3288.8	1430.5	779.7	723.2	710.6	729.4	754.6	764.1	760.8
32.5°	6039.8	5058.9	2864.3	1069.0	688.6	660.2	660.2	660.2	657.1	669.7	672.8
35°	6294.5	5071.5	2490.2	826.9	628.8	606.8	597.4	584.8	578.5	584.8	588.0
37.5°	6571.2	5065.1	2103.5	704.3	584.8	566.0	544.0	525.1	521.9	528.2	518.8
40°	6693.8	5124.9	1745.0	632.0	544.0	521.9	487.3	471.6	474.7	481.1	474.7
42.5°	6860.5	5143.8	1512.3	575.3	506.2	471.6	449.6	430.7	427.6	437.1	433.9
45°	6857.3	5036.9	1267.1	544.0	471.6	433.9	405.6	389.9	389.9	396.1	399.3
47.5°	7058.5	5021.1	1087.9	515.6	446.5	408.7	374.1	361.6	358.5	358.5	352.1
50°	7527.0	5241.2	949.5	484.2	415.0	380.5	352.1	336.5	323.8	317.6	314.4
52.5°	8441.9	5926.7	842.6	446.5	380.5	352.1	327.0	314.4	298.7	283.0	279.8
54°	9328.6	6634.0	836.3	415.0	352.1	333.2	311.2	305.0	286.1	264.1	257.8
55°	9727.9	7046.0	858.3	389.9	333.2	320.7	301.8	295.6	276.7	251.5	248.4
57.5°	10058.0	7206.3	845.8	323.8	301.8	298.7	283.0	273.5	251.5	217.0	210.6
60°	8096.1	5448.7	606.8	286.1	276.7	270.4	257.8	251.5	223.2	185.5	182.4
62.5°	5115.5	3134.7	386.7	251.5	242.1	232.6	217.0	210.6	185.5	147.8	138.4
65°	2178.9	1298.5	261.0	223.2	207.5	191.8	179.2	169.8	147.8	110.0	106.9
67.5°	566.0	462.2	217.0	195.0	173.0	150.9	141.5	125.7	100.6	75.5	72.3
70°	254.7	232.6	182.4	163.5	138.4	116.4	103.7	88.0	66.0	50.3	47.1
72.5°	150.9	147.8	138.4	122.6	103.7	88.0	75.5	59.7	44.0	28.3	28.3
75°	94.4	91.1	94.4	84.9	72.3	66.0	56.6	40.9	25.1	12.6	12.6
77.5°	56.6	56.6	56.6	53.5	50.3	50.3	40.9	25.1	12.6	3.1	3.1
80°	44.0	44.0	47.1	44.0	44.0	44.0	34.6	18.9	6.3	0.0	0.0
82.5°	44.0	47.1	53.5	50.3	44.0	37.7	31.5	18.9	6.3	0.0	0.0
85°	12.6	9.4	15.7	22.0	31.5	28.3	22.0	15.7	6.3	0.0	0.0
87.5°	6.3	6.3	6.3	6.3	3.1	3.1	3.1	3.1	3.1	0.0	0.0
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)