

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: P532653

Luminaire Tested: **GALN-SA8A-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-735-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20117 lumens  
Efficiency: N/A  
Efficacy: 82.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

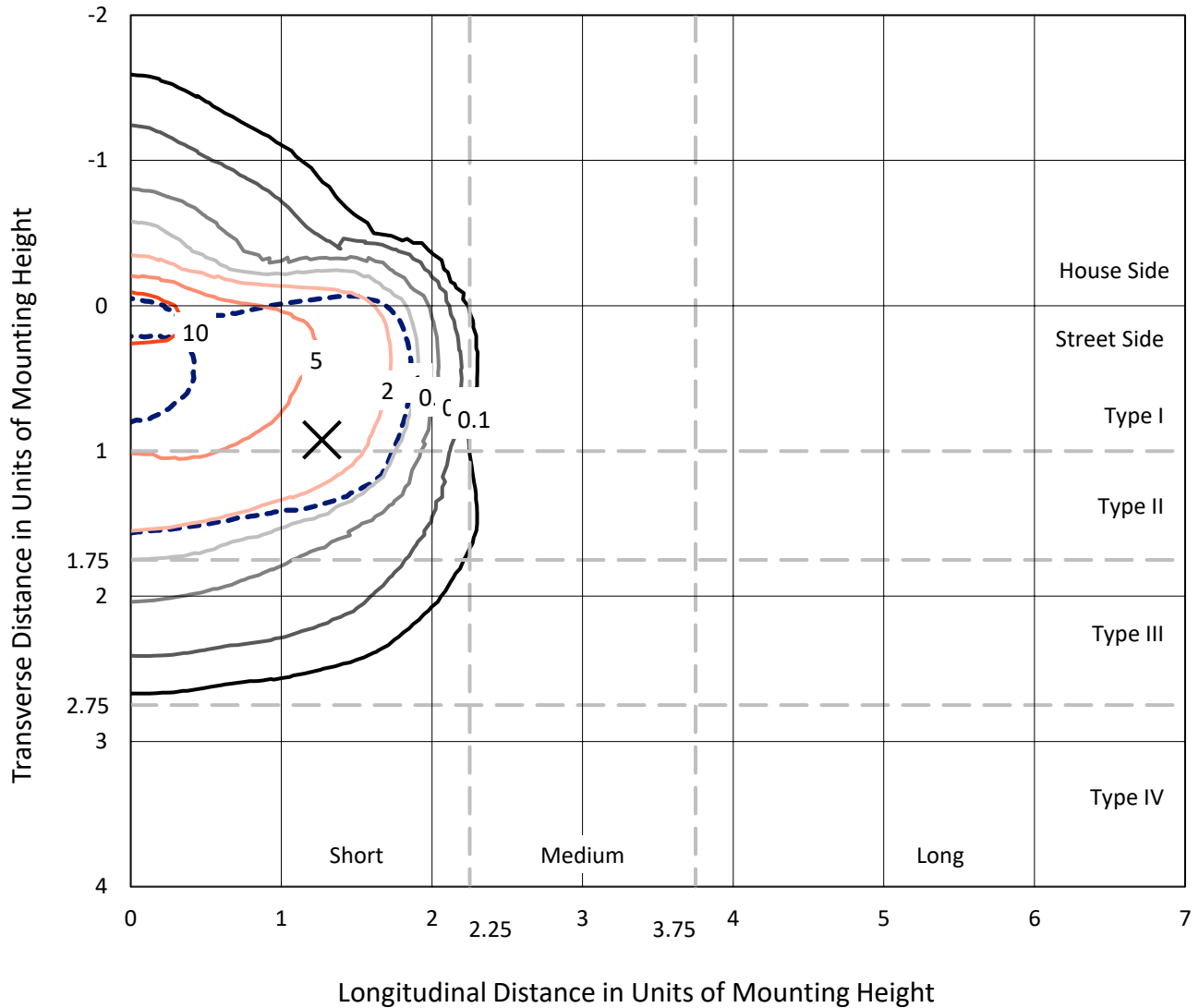
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

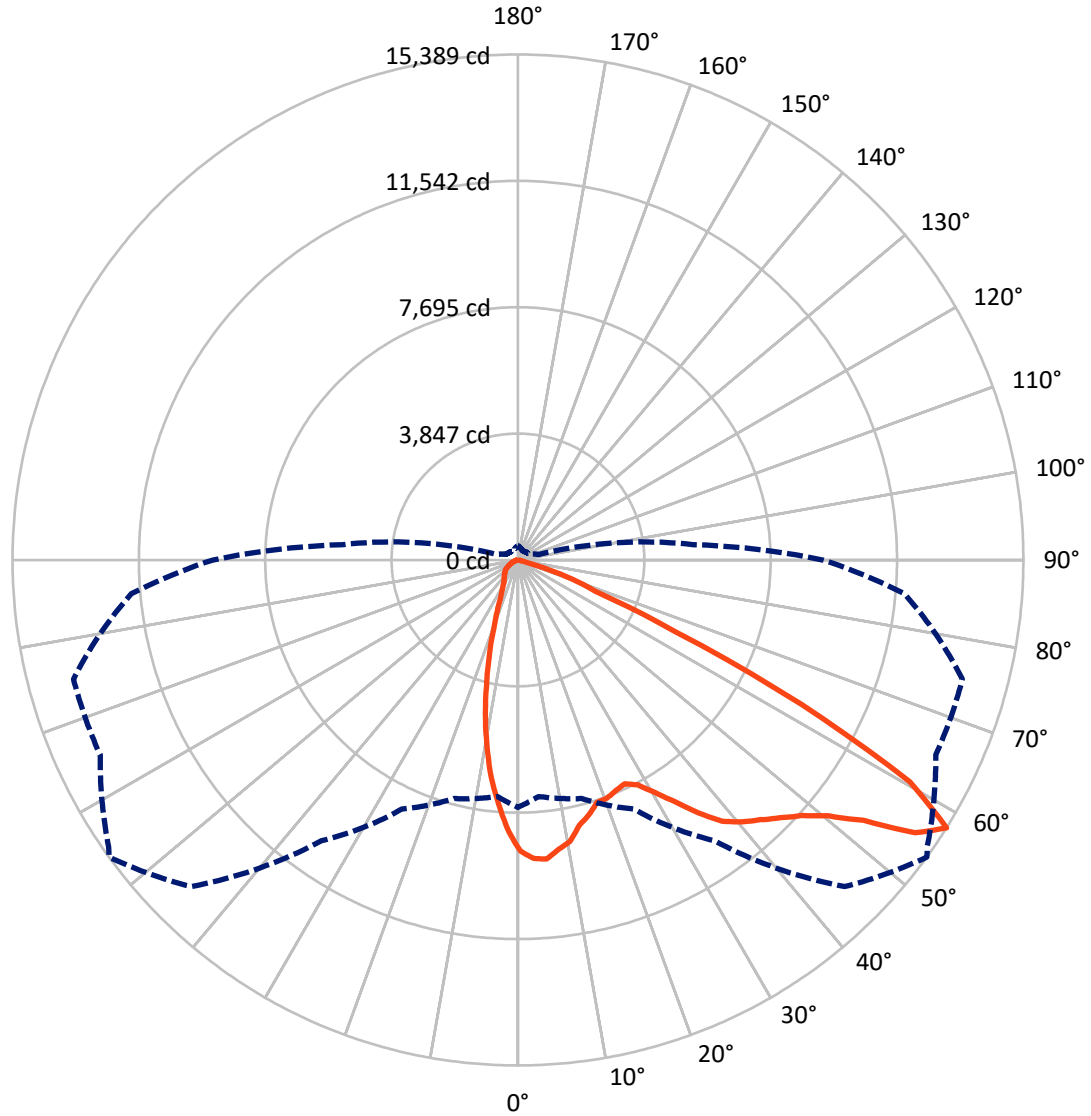
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2842.9	0.0	2842.9
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	17274.1	0.0	17274.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	20117.0	0.0	20117.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	741.6	3.7
10°-20°	1583.2	7.9
20°-30°	2098.1	10.4
30°-40°	3049.1	15.2
40°-50°	4521.5	22.5
50°-60°	5653.9	28.1
60°-70°	2230.2	11.1
70°-80°	222.1	1.1
80°-90°	17.3	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°	20117.0	100.0
0°-180°	20117.0	100.0

**Coefficient of Utilization**



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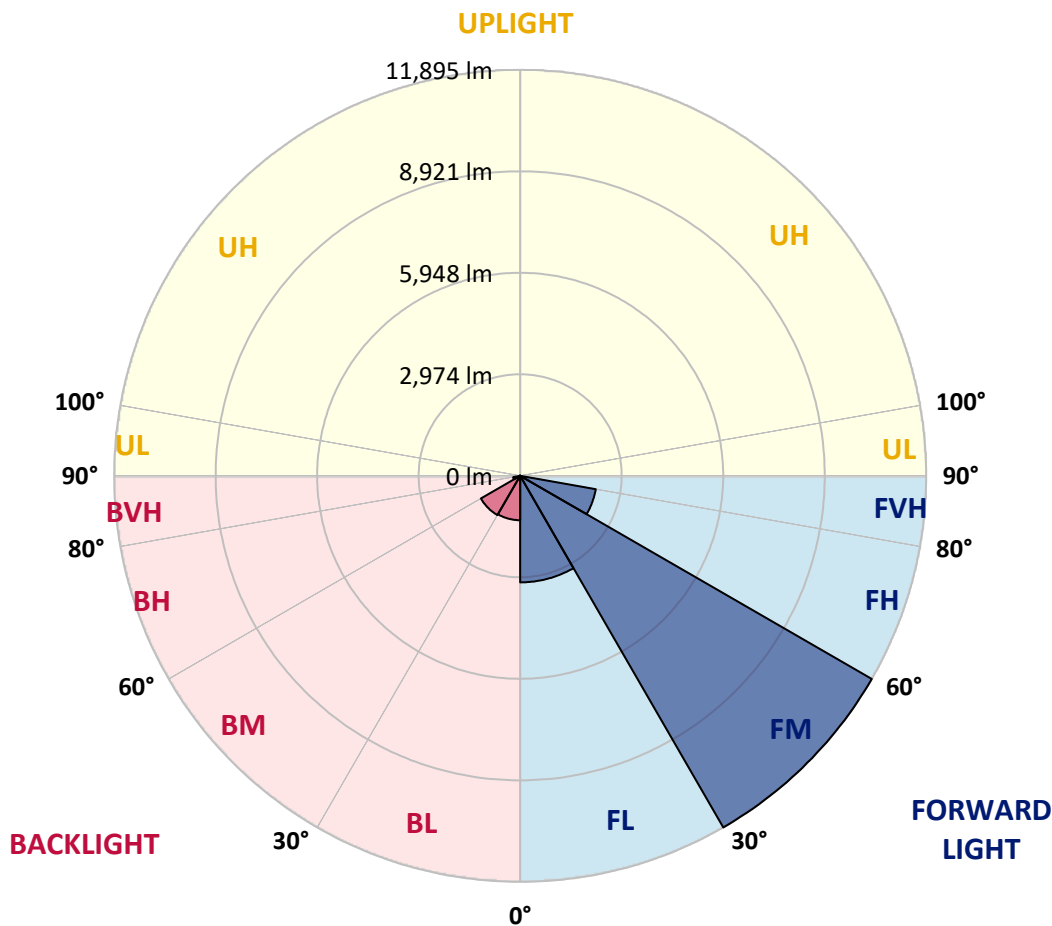
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3122.7	15.5			
FM (30°-60°)	11895.1	59.1			
FH (60°-80°)	2248.4	11.2			G2/5000
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	1300.2	6.5	B3/2500		
BM (30°-60°)	1329.4	6.6	B2/2500		
BH (60°-80°)	203.9	1.0	B1/500		G1/500
BVH (80°-90°)	9.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8
2.5°	9378.0	9280.8	9288.3	9254.6	9209.7	9243.4	9097.5	9131.1	9127.4	8929.1	8798.2
5°	9142.4	9247.1	9138.6	9228.4	9142.4	9235.9	9146.1	9078.8	8970.3	8824.4	8581.3
7.5°	8742.1	8641.1	8671.0	8783.3	8802.0	9011.4	8899.2	8985.3	8940.4	8652.3	8319.4
10°	7937.8	7915.4	8065.0	8214.7	8398.0	8622.4	8708.4	8659.8	8626.1	8517.7	8072.5
12.5°	7320.6	7384.2	7380.5	7627.4	7937.8	8065.0	8289.5	8282.0	8469.0	8267.0	7840.6
15°	6733.3	6767.0	6924.1	7077.5	7421.6	7784.5	8061.3	8098.7	8323.1	8181.0	7661.0
17.5°	6374.2	6325.6	6449.0	6632.3	6984.0	7459.0	7765.8	7855.6	8162.3	8132.4	7455.3
20°	6018.8	6018.8	6119.8	6336.8	6658.5	7193.4	7739.6	7713.4	8162.3	8076.3	7234.6
22.5°	5899.1	5959.0	5985.2	6149.8	6531.3	6991.4	7627.4	7676.0	8225.9	8050.1	7137.3
25°	6063.7	5985.2	5992.7	6123.6	6482.7	6894.2	7545.1	7653.6	8341.8	8181.0	7058.8
27.5°	6089.9	6168.5	6190.9	6280.7	6520.1	6924.1	7750.8	7971.5	8629.9	8487.7	7081.2
30°	6318.1	6396.7	6392.9	6546.3	6710.9	7167.3	8210.9	8255.8	9224.7	8873.0	7219.6
32.5°	6594.9	6677.2	6703.4	6883.0	7013.9	7612.4	8772.0	8888.0	9797.0	9479.0	7582.5
35°	6939.1	6909.1	7028.8	7208.4	7489.0	8263.3	9456.6	9651.1	10414.2	10264.6	7956.6
37.5°	7369.3	7331.8	7447.8	7739.6	8121.1	9033.9	10088.8	10216.0	10863.1	10994.0	8648.6
40°	7672.3	7687.2	8038.8	8431.6	8835.6	9767.1	10489.0	10612.5	11177.3	11674.8	9172.3
42.5°	8177.3	8270.8	8693.5	9172.3	9595.0	10317.0	10814.5	10934.2	11323.2	12221.0	9879.3
45°	8910.4	8869.3	9336.9	9871.8	10339.4	10889.3	11199.8	11158.6	11409.3	12763.4	10324.4
47.5°	9853.1	9860.6	10171.1	10627.4	11113.7	11386.8	11630.0	11484.1	11588.8	13335.7	10919.2
50°	10496.5	10552.6	10803.3	11270.8	11514.0	11933.0	12243.4	12153.7	12120.0	13679.9	11293.3
52.5°	10661.1	10829.4	10964.1	11547.7	12116.3	12778.4	13174.9	13365.7	12767.1	13795.8	11768.4
55°	9419.2	9568.8	10043.9	10844.4	12344.4	14117.5	14663.7	14667.4	13612.5	14312.1	12101.3
57.5°	7530.1	7227.1	7518.9	8368.0	10436.7	14061.4	15389.4	15213.6	14035.3	14009.1	11813.3
60°	5207.1	5132.3	5151.0	5487.7	7223.4	11184.8	13713.5	13941.7	12924.3	12142.4	9351.8
62.5°	4126.0	4062.4	3980.1	3942.7	4485.1	6969.0	9673.5	9995.3	9037.6	7874.3	5543.8
65°	3232.0	3194.6	3205.8	3355.4	3351.7	3954.0	5289.4	5158.5	4129.8	3052.4	1743.2
67.5°	2180.9	2237.0	2281.9	2734.5	2966.4	2753.2	2554.9	2480.1	1342.9	564.9	385.3
70°	1227.0	1234.4	1283.1	1709.5	2251.9	2136.0	1761.9	1761.9	669.6	205.7	220.7
72.5°	669.6	647.1	602.3	736.9	1002.5	1017.5	785.6	684.6	198.3	134.7	123.4
75°	325.4	321.7	276.8	228.2	217.0	179.6	138.4	127.2	89.8	86.0	74.8
77.5°	67.3	63.6	33.7	33.7	37.4	41.1	52.4	52.4	63.6	63.6	52.4
80°	0.0	0.0	3.7	15.0	26.2	37.4	44.9	44.9	52.4	52.4	41.1
82.5°	0.0	0.0	3.7	11.2	22.4	33.7	41.1	44.9	52.4	56.1	44.9
85°	0.0	0.0	0.0	7.5	18.7	26.2	22.4	22.4	18.7	15.0	7.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8	8861.8
2.5°	8730.9	8723.4	8551.3	8454.1	8278.3	8124.9	8001.4	7911.7	7911.7	7855.6	7803.2
5°	8484.0	8420.4	8053.8	7818.1	7485.2	7238.3	7070.0	6939.1	6733.3	6789.4	6568.7
7.5°	8177.3	8016.4	7530.1	7171.0	6710.9	6359.3	6000.1	5682.2	5375.4	5237.0	5311.8
10°	7848.1	7567.5	6912.9	6344.3	5772.0	5128.6	4709.6	4200.8	3886.6	3867.9	3785.6
12.5°	7500.2	7182.2	6385.4	5599.9	4848.0	4073.7	3434.0	2958.9	2745.7	2510.0	2554.9
15°	7238.3	6767.0	5798.1	4851.7	3853.0	3071.1	2427.7	2061.1	1859.1	1803.0	1784.3
17.5°	6954.0	6449.0	5199.6	4055.0	3022.5	2210.8	1746.9	1571.1	1492.6	1492.6	1481.3
20°	6658.5	6089.9	4604.8	3314.3	2266.9	1649.7	1399.0	1342.9	1339.2	1335.4	1335.4
22.5°	6464.0	5678.4	4066.2	2633.5	1709.5	1320.5	1215.7	1193.3	1208.3	1253.1	1253.1
25°	6258.3	5281.9	3471.4	2031.2	1324.2	1133.4	1073.6	1088.6	1126.0	1167.1	1152.1
27.5°	6048.8	5023.8	2910.3	1593.6	1084.8	991.3	968.9	1002.5	1043.7	1081.1	1069.9
30°	6000.1	4747.0	2379.1	1208.3	931.4	864.1	879.1	909.0	950.1	965.1	980.1
32.5°	6075.0	4530.0	1948.9	991.3	811.7	793.0	793.0	808.0	834.2	867.9	856.6
35°	6288.2	4406.6	1541.2	860.4	744.4	725.7	722.0	736.9	751.9	763.1	751.9
37.5°	6613.6	4309.3	1260.6	763.1	699.5	669.6	662.1	658.4	673.3	677.1	684.6
40°	7028.8	4361.7	1069.9	703.3	654.6	621.0	598.5	598.5	598.5	609.7	613.5
42.5°	7477.7	4432.8	924.0	669.6	613.5	572.3	549.9	542.4	549.9	564.9	561.1
45°	7949.1	4571.2	830.4	617.2	576.1	523.7	493.8	486.3	505.0	534.9	531.2
47.5°	8390.5	4769.4	759.4	583.6	538.7	490.0	452.6	445.1	478.8	520.0	523.7
50°	8831.9	5113.6	733.2	557.4	512.5	456.4	422.7	415.2	452.6	505.0	516.2
52.5°	9340.6	5483.9	714.5	523.7	482.6	430.2	392.8	385.3	426.4	493.8	497.5
55°	9673.5	5798.1	699.5	463.9	426.4	389.0	359.1	355.4	400.3	460.1	475.1
57.5°	9284.5	5360.5	647.1	404.0	362.9	344.1	318.0	318.0	355.4	411.5	422.7
60°	7040.1	3527.5	460.1	325.4	306.7	295.5	284.3	284.3	314.2	355.4	359.1
62.5°	4122.3	1900.3	295.5	261.9	261.9	250.6	231.9	231.9	261.9	284.3	288.0
65°	1223.2	609.7	239.4	224.4	220.7	202.0	183.3	179.6	202.0	213.2	209.5
67.5°	351.6	280.6	198.3	187.0	183.3	153.4	142.1	138.4	142.1	134.7	130.9
70°	209.5	190.8	153.4	157.1	138.4	112.2	101.0	97.3	89.8	78.6	71.1
72.5°	116.0	116.0	112.2	119.7	97.3	74.8	63.6	52.4	41.1	33.7	29.9
75°	71.1	74.8	78.6	82.3	63.6	48.6	41.1	26.2	15.0	7.5	7.5
77.5°	48.6	52.4	56.1	59.9	52.4	44.9	33.7	18.7	3.7	0.0	0.0
80°	37.4	41.1	48.6	52.4	56.1	59.9	44.9	18.7	3.7	0.0	0.0
82.5°	41.1	44.9	56.1	52.4	52.4	52.4	41.1	18.7	3.7	0.0	0.0
85°	7.5	11.2	18.7	18.7	26.2	33.7	26.2	7.5	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)