

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: P532651

Luminaire Tested: **GALN-SA8A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532651  
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-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 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: 20079 lumens  
Efficiency: N/A  
Efficacy: 82.3 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

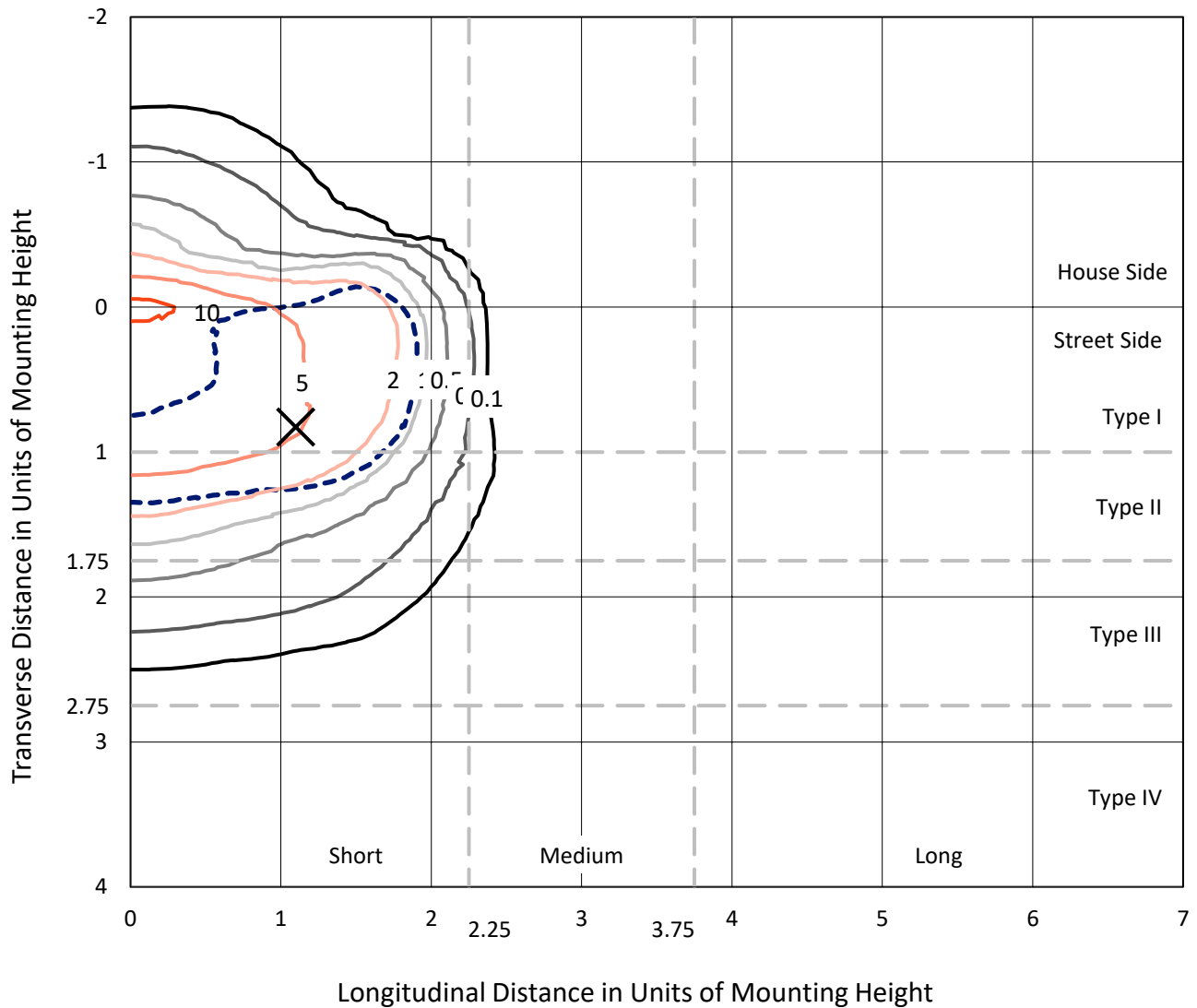
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

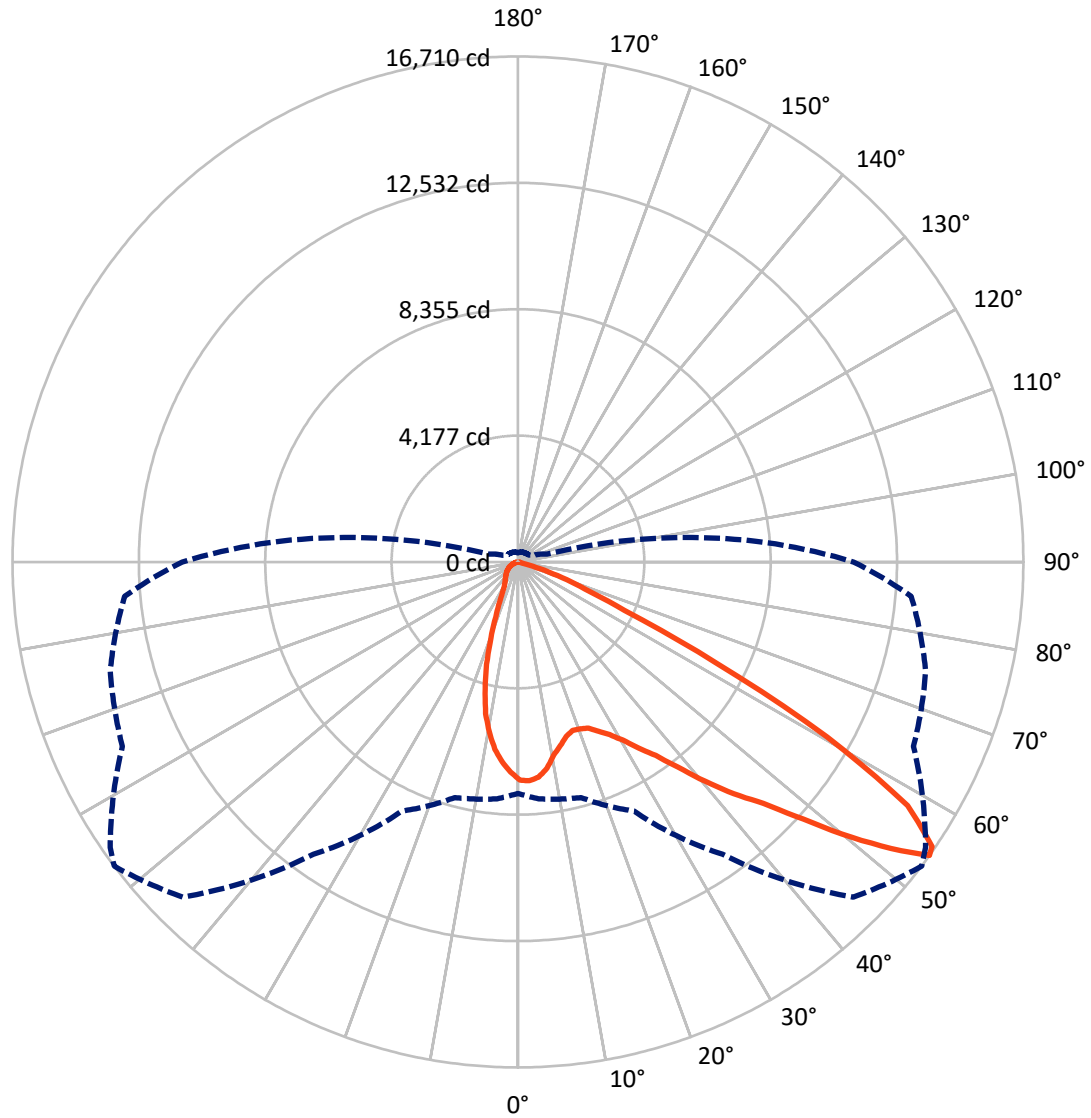
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	3322.1	0.0	3322.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	16756.9	0.0	16756.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	20079.0	0.0	20079.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	618.8	3.1
10°-20°	1418.7	7.1
20°-30°	2016.2	10.0
30°-40°	3111.6	15.5
40°-50°	4878.6	24.3
50°-60°	5667.2	28.2
60°-70°	2141.4	10.7
70°-80°	203.6	1.0
80°-90°	22.9	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°	20079.0	100.0
0°-180°	20079.0	100.0

**Coefficient of Utilization**

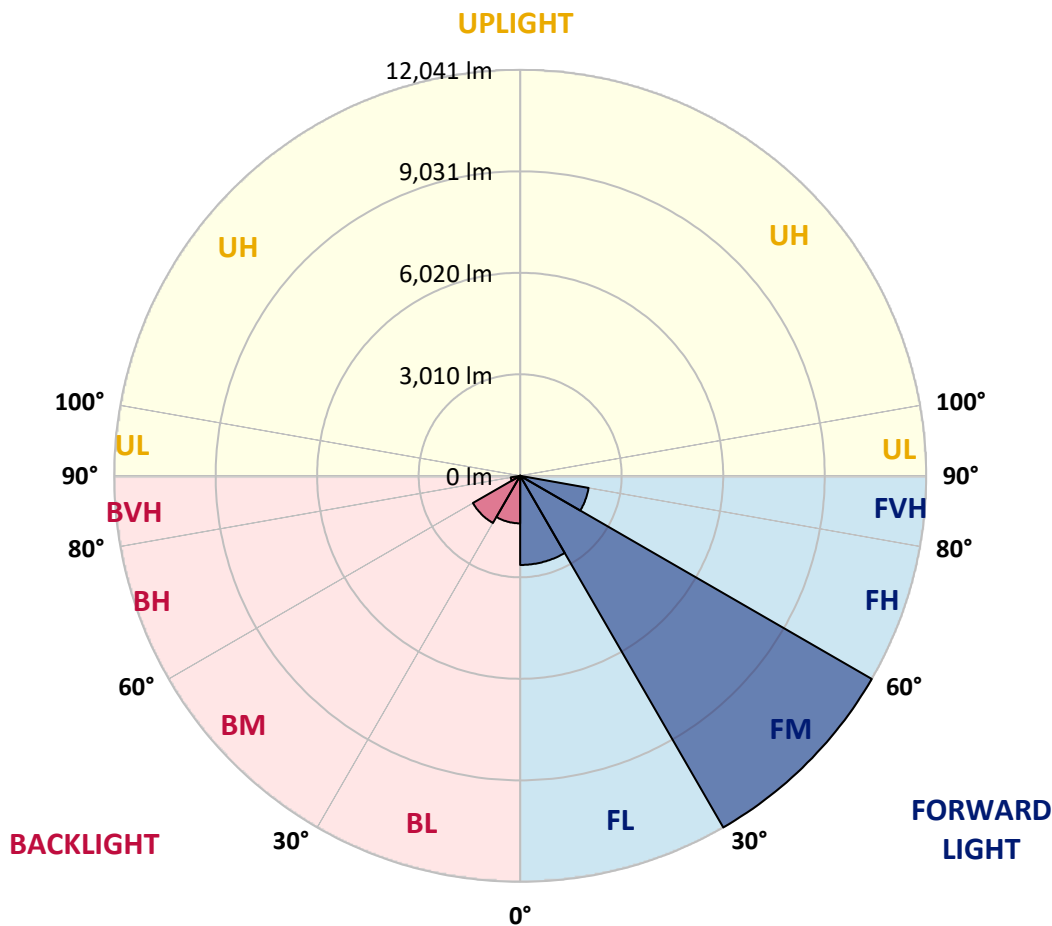


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2643.9	13.2			
FM (30°-60°)	12040.7	60.0			
FH (60°-80°)	2060.4	10.3			G2/5000
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	1409.8	7.0	B3/2500		
BM (30°-60°)	1616.6	8.1	B2/2500		
BH (60°-80°)	284.6	1.4	B1/500		G1/500
BVH (80°-90°)	11.1	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0
2.5°	7174.6	7111.0	7174.6	7182.1	7227.0	7268.1	7242.0	7301.8	7268.1	7230.7	7219.5
5°	6594.8	6680.9	6684.6	6819.3	6789.3	7036.2	7144.7	7114.8	7298.1	7286.9	7260.7
7.5°	6074.9	6041.2	6086.1	6243.2	6441.5	6725.7	6882.9	6879.1	7141.0	7328.0	7309.3
10°	5592.3	5588.6	5682.1	5805.5	5973.9	6273.1	6490.1	6598.6	7006.3	7290.6	7331.7
12.5°	5266.9	5251.9	5352.9	5453.9	5719.5	5951.4	6228.2	6280.6	6748.2	7159.7	7227.0
15°	5053.7	5087.3	5094.8	5289.3	5457.7	5764.4	5981.4	6089.8	6628.5	7054.9	7313.0
17.5°	5016.3	5061.1	5064.9	5225.7	5405.3	5663.4	5854.2	6000.1	6527.5	7107.3	7316.8
20°	5091.1	5064.9	5087.3	5188.3	5364.1	5611.0	5887.8	5936.5	6493.8	7133.5	7357.9
22.5°	5304.3	5296.8	5240.7	5323.0	5446.4	5704.5	5966.4	6041.2	6591.1	7268.1	7391.6
25°	5540.0	5581.1	5528.7	5517.5	5603.5	5857.9	6205.8	6303.1	6916.5	7511.3	7496.3
27.5°	5981.4	5940.2	5940.2	5887.8	5865.4	5988.8	6463.9	6624.8	7279.4	7825.5	7616.0
30°	6404.1	6448.9	6415.3	6434.0	6284.3	6273.1	6830.5	7028.7	7922.8	8304.3	7870.4
32.5°	7073.6	7013.8	7069.9	7021.3	6823.0	6621.0	7328.0	7533.7	8700.8	8854.2	8251.9
35°	7631.0	7604.8	7844.2	7836.7	7515.0	7316.8	7855.4	8162.2	9243.2	9512.6	8700.8
37.5°	8424.0	8375.4	8648.5	8779.4	8491.4	8195.8	8611.1	8966.4	9748.2	10040.0	9160.9
40°	9239.5	9362.9	9729.5	9946.5	9639.7	9247.0	9535.0	9643.5	10084.9	10384.1	9475.2
42.5°	10271.9	10451.5	10825.5	11012.6	10986.4	10560.0	10473.9	10470.2	10328.0	10286.9	9707.1
45°	11263.2	11195.9	11771.9	12179.7	12508.8	12385.4	11379.2	11266.9	10713.3	10432.8	9766.9
47.5°	11697.1	11674.7	12067.4	12793.1	13915.3	14068.7	12695.9	12262.0	11364.2	11046.2	10092.4
50°	11136.0	11252.0	11641.0	12445.3	14166.0	15336.8	14311.9	13728.3	12123.6	11794.4	10862.9
52.5°	9303.1	9381.6	9752.0	10773.2	13313.1	16084.9	15860.5	15523.8	13518.8	12972.7	12205.9
54°	7649.7	7859.2	8061.2	9086.1	11794.4	15669.7	16709.6	16451.5	14427.8	13952.8	13051.2
55°	6662.2	6785.6	6931.5	7952.7	10743.2	14966.5	16612.4	16634.8	15037.5	14259.5	13619.8
57.5°	4866.6	4952.7	4803.0	5255.7	7376.6	12153.5	15194.7	15800.6	15860.5	14719.6	13967.7
60°	3718.2	3755.6	3587.3	3658.4	4586.1	8341.7	11753.2	12482.7	14308.1	12864.2	11831.8
62.5°	2884.1	2891.5	2887.8	3011.3	3160.9	4907.8	7350.4	7997.6	9864.2	9134.7	8035.0
65°	2124.7	2091.0	2150.9	2525.0	2697.0	3086.1	3871.6	4342.9	5360.4	4526.2	3235.7
67.5°	1376.6	1387.8	1447.6	1877.8	2311.7	2367.9	2382.8	2345.4	2349.1	1294.3	811.7
70°	826.7	845.4	826.7	1062.4	1653.4	1698.3	1552.4	1515.0	1182.1	306.7	303.0
72.5°	490.0	463.8	415.2	456.4	688.3	823.0	740.7	736.9	463.8	179.6	179.6
75°	205.7	187.0	153.4	138.4	183.3	175.8	175.8	157.1	123.4	119.7	112.2
77.5°	41.1	41.1	29.9	33.7	44.9	52.4	63.6	63.6	74.8	74.8	71.1
80°	0.0	3.7	11.2	22.4	33.7	48.6	56.1	56.1	63.6	63.6	52.4
82.5°	0.0	3.7	11.2	22.4	29.9	44.9	56.1	56.1	63.6	67.3	56.1
85°	0.0	3.7	11.2	18.7	29.9	37.4	37.4	33.7	26.2	22.4	15.0
87.5°	0.0	0.0	3.7	7.5	3.7	7.5	7.5	7.5	7.5	7.5	7.5
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°	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0	7212.0
2.5°	7245.7	7242.0	7152.2	7006.3	6972.6	6849.2	6834.2	6759.4	6800.6	6662.2	6647.2
5°	7185.9	7141.0	7032.5	6939.0	6665.9	6471.4	6318.0	6131.0	6022.5	6041.2	5970.1
7.5°	7271.9	7155.9	6965.2	6639.7	6306.8	5966.4	5783.1	5401.5	5263.1	5057.4	5027.5
10°	7182.1	7096.1	6800.6	6261.9	5801.8	5311.8	4881.6	4458.9	4137.2	3998.8	3968.9
12.5°	7174.6	7025.0	6531.2	5932.7	5266.9	4563.6	3938.9	3411.5	3093.5	2914.0	2872.8
15°	7058.7	6879.1	6228.2	5424.0	4503.8	3628.5	2947.7	2438.9	2195.8	2091.0	2121.0
17.5°	7069.9	6800.6	5925.2	4885.3	3751.9	2663.4	2012.5	1750.6	1687.0	1713.2	1713.2
20°	7058.7	6624.8	5558.7	4264.4	2872.8	1847.9	1477.6	1384.1	1425.2	1507.5	1488.8
22.5°	6998.8	6542.5	5222.0	3609.8	2113.5	1369.1	1185.8	1189.5	1253.1	1354.1	1376.6
25°	7043.7	6359.2	4795.6	2947.7	1541.2	1092.3	1028.7	1054.9	1122.2	1197.0	1212.0
27.5°	7010.0	6228.2	4350.4	2289.3	1125.9	938.9	935.2	965.1	995.0	1051.1	1051.1
30°	7047.4	6108.5	3912.8	1702.0	927.7	860.4	845.4	867.8	897.8	909.0	905.2
32.5°	7185.9	6018.8	3407.8	1271.8	819.2	785.5	785.5	785.5	781.8	796.8	800.5
35°	7488.8	6033.7	2962.6	983.8	748.1	722.0	710.7	695.8	688.3	695.8	699.5
37.5°	7818.0	6026.2	2502.5	837.9	695.8	673.3	647.1	624.7	621.0	628.4	617.2
40°	7963.9	6097.3	2076.1	751.9	647.1	621.0	579.8	561.1	564.8	572.3	564.8
42.5°	8162.2	6119.8	1799.3	684.5	602.3	561.1	534.9	512.5	508.7	520.0	516.2
45°	8158.4	5992.6	1507.5	647.1	561.1	516.2	482.5	463.8	463.8	471.3	475.1
47.5°	8397.8	5973.9	1294.3	613.5	531.2	486.3	445.1	430.2	426.4	426.4	419.0
50°	8955.2	6235.7	1129.7	576.1	493.8	452.6	419.0	400.3	385.3	377.8	374.1
52.5°	10043.7	7051.2	1002.5	531.2	452.6	419.0	389.0	374.1	355.4	336.7	332.9
54°	11098.6	7892.8	995.0	493.8	419.0	396.5	370.3	362.8	340.4	314.2	306.7
55°	11573.7	8382.9	1021.2	463.8	396.5	381.5	359.1	351.6	329.2	299.3	295.5
57.5°	11966.4	8573.6	1006.2	385.3	359.1	355.4	336.7	325.4	299.3	258.1	250.6
60°	9632.3	6482.6	722.0	340.4	329.2	321.7	306.7	299.3	265.6	220.7	217.0
62.5°	6086.1	3729.5	460.1	299.3	288.0	276.8	258.1	250.6	220.7	175.8	164.6
65°	2592.3	1544.9	310.5	265.6	246.9	228.2	213.2	202.0	175.8	130.9	127.2
67.5°	673.3	549.9	258.1	231.9	205.7	179.6	168.3	149.6	119.7	89.8	86.0
70°	303.0	276.8	217.0	194.5	164.6	138.4	123.4	104.7	78.6	59.9	56.1
72.5°	179.6	175.8	164.6	145.9	123.4	104.7	89.8	71.1	52.4	33.7	33.7
75°	112.2	108.5	112.2	101.0	86.0	78.6	67.3	48.6	29.9	15.0	15.0
77.5°	67.3	67.3	67.3	63.6	59.9	59.9	48.6	29.9	15.0	3.7	3.7
80°	52.4	52.4	56.1	52.4	52.4	52.4	41.1	22.4	7.5	0.0	0.0
82.5°	52.4	56.1	63.6	59.9	52.4	44.9	37.4	22.4	7.5	0.0	0.0
85°	15.0	11.2	18.7	26.2	37.4	33.7	26.2	18.7	7.5	0.0	0.0
87.5°	7.5	7.5	7.5	7.5	3.7	3.7	3.7	3.7	3.7	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)