

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: P530794

Luminaire Tested: **GALN-SA6A-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530794  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-735-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22052 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

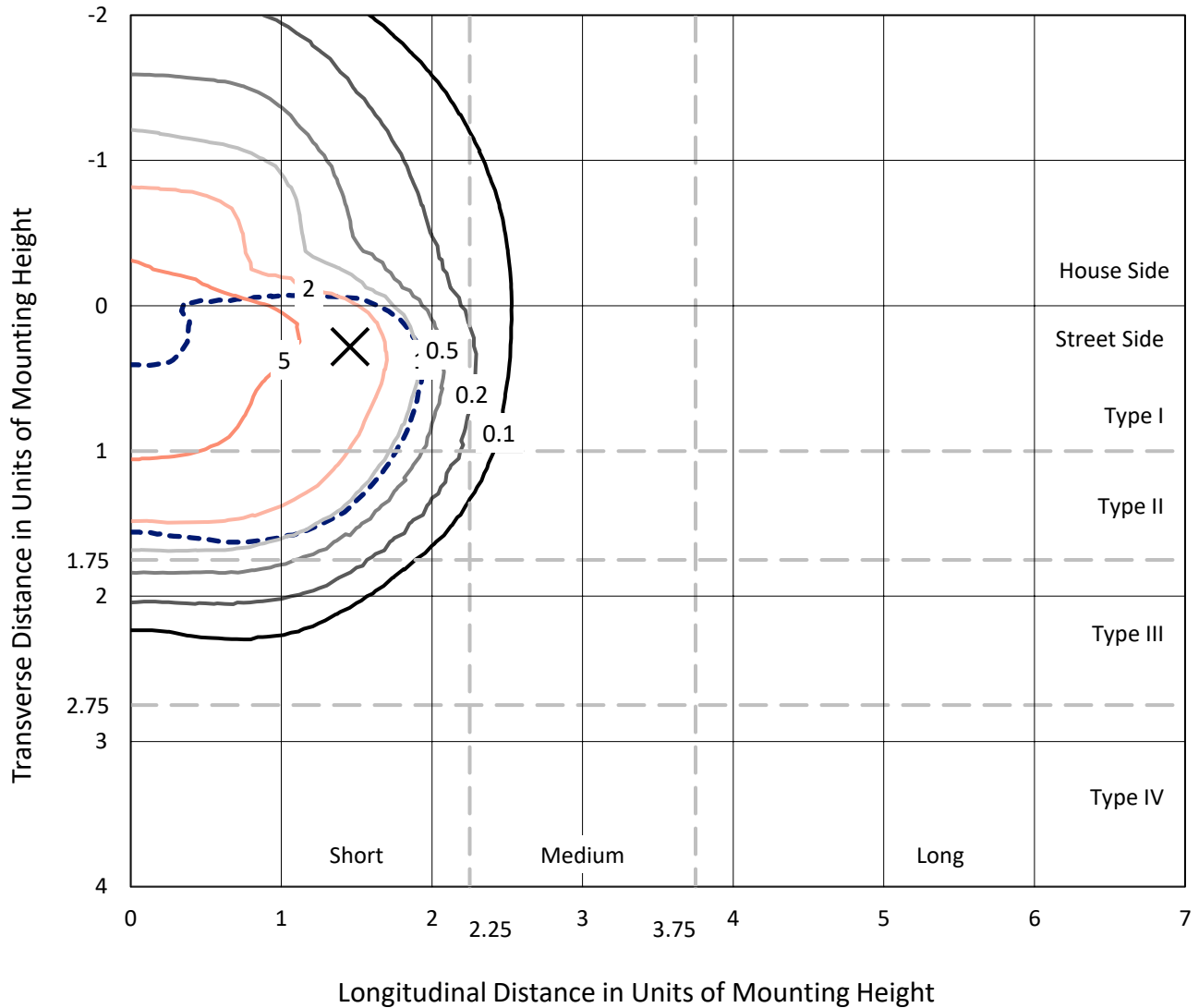
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

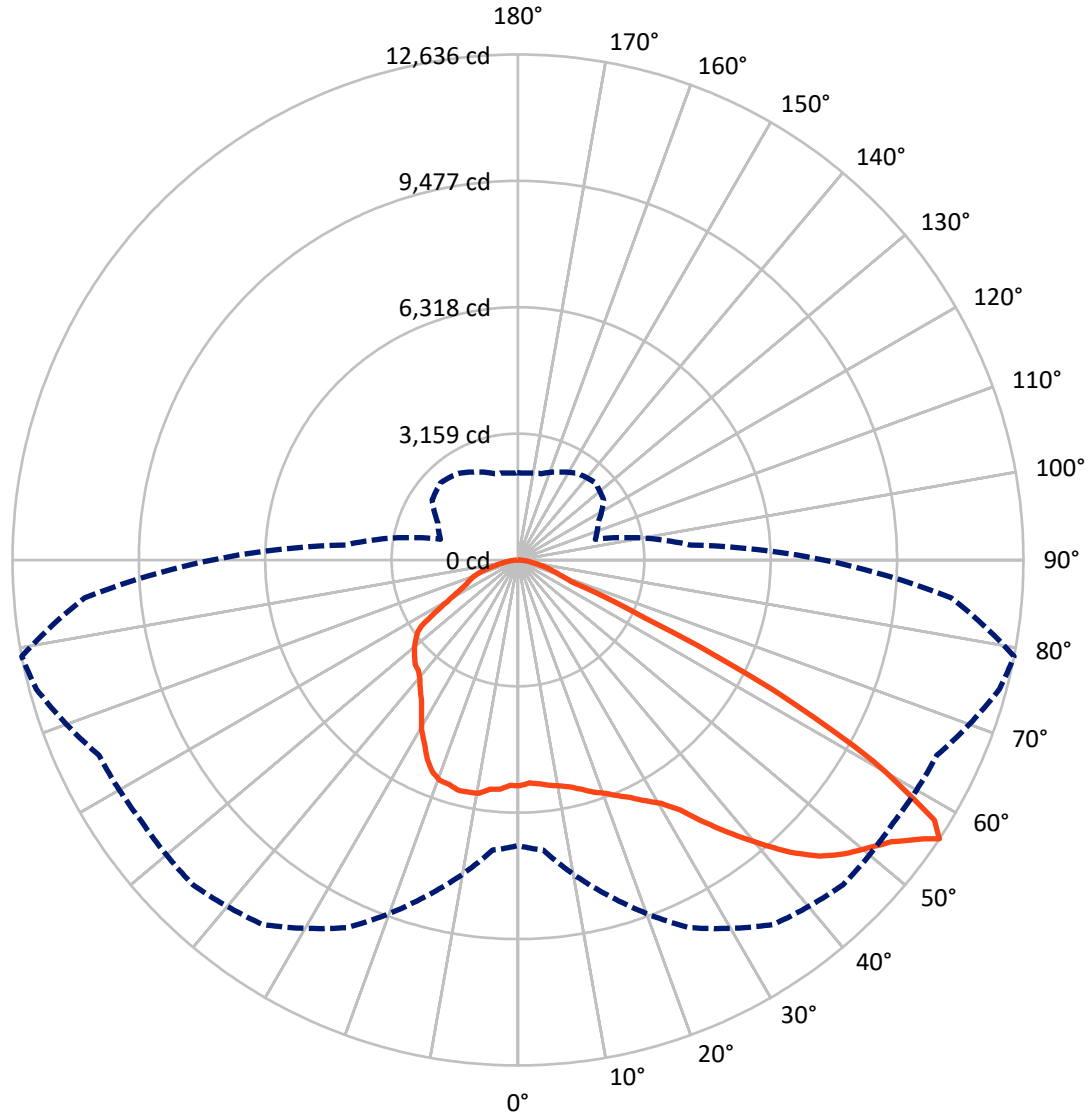
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6512.4	0.0	6512.4
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	15539.6	0.0	15539.6
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	22052.0	0.0	22052.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.0	2.3
10°-20°	1403.9	6.4
20°-30°	2401.8	10.9
30°-40°	3681.1	16.7
40°-50°	4974.9	22.6
50°-60°	5713.9	25.9
60°-70°	2604.6	11.8
70°-80°	642.1	2.9
80°-90°	116.7	0.5
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°	22052.0	100.0
0°-180°	22052.0	100.0

**Coefficient of Utilization**



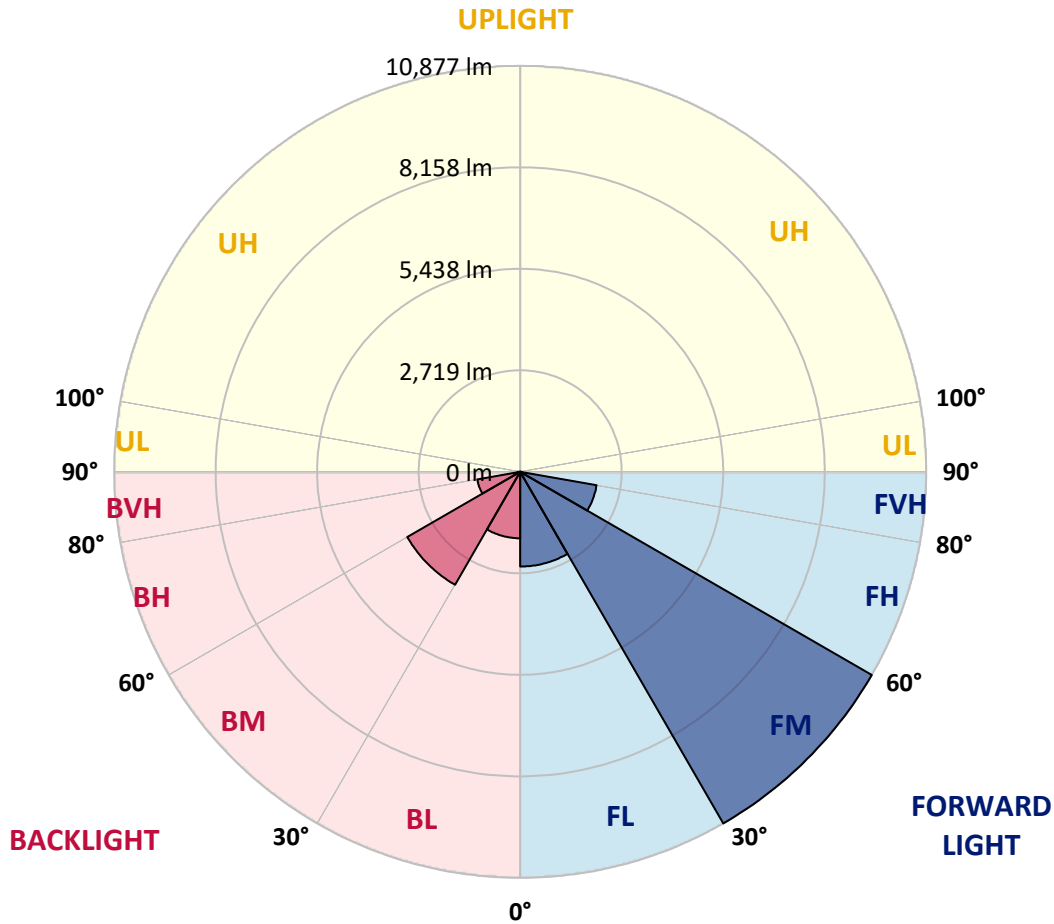
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2537.3	11.5			
FM (30°-60°)	10876.7	49.3			
FH (60°-80°)	2079.0	9.4			G2/5000
FVH (80°-90°)	46.6	0.2			G1/100
BL (0°-30°)	1781.4	8.1	B3/2500		
BM (30°-60°)	3493.2	15.8	B3/5000		
BH (60°-80°)	1167.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	70.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P530794

CATALOG NUMBER: GALN-SA6A-735-U-T3R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2
2.5°	5367.5	5353.8	5386.8	5411.5	5441.7	5480.2	5499.4	5510.4	5606.5	5581.8	5656.0
5°	5252.2	5216.5	5241.2	5260.4	5312.6	5359.3	5411.5	5493.9	5581.8	5620.3	5710.9
7.5°	5150.5	5131.3	5125.8	5139.5	5211.0	5271.4	5362.0	5482.9	5625.8	5688.9	5741.1
10°	4983.0	4955.5	4996.7	5087.3	5106.6	5232.9	5337.3	5510.4	5634.0	5743.9	5897.7
12.5°	4908.8	4881.3	4889.6	4941.8	5076.4	5197.2	5320.8	5515.9	5776.8	5820.8	6026.8
15°	5026.9	4999.4	5007.7	4994.0	5123.1	5186.2	5381.3	5625.8	5875.7	5949.9	6169.6
17.5°	5296.1	5298.9	5263.2	5232.9	5202.7	5337.3	5471.9	5691.7	5914.2	6101.0	6265.8
20°	5809.8	5719.1	5647.7	5477.4	5430.7	5488.4	5658.7	5870.2	6070.8	6224.6	6411.4
22.5°	6205.4	6213.6	6112.0	5831.8	5730.1	5754.9	5900.4	6073.5	6293.3	6403.1	6617.4
25°	6779.5	6721.8	6611.9	6389.4	6161.4	6180.6	6287.8	6444.3	6504.8	6581.7	6815.2
27.5°	7304.1	7320.6	7103.6	6894.8	6611.9	6557.0	6749.3	6776.7	6675.1	6820.7	6900.3
30°	7837.0	7823.3	7680.5	7436.0	7158.5	7169.5	7254.7	7120.1	6980.0	7059.7	7114.6
32.5°	8389.2	8232.6	8227.1	8007.4	7795.8	7694.2	7589.8	7655.7	7438.7	7455.2	7403.0
35°	8831.4	8853.4	8727.1	8570.5	8466.1	8287.5	8001.9	8120.0	8078.8	8059.5	7834.3
37.5°	9152.8	9067.7	9130.9	9078.7	8979.8	8757.3	8460.6	8573.2	8592.5	8685.9	8424.9
40°	9416.5	9380.8	9548.4	9575.9	9507.2	9026.5	8493.6	8828.7	9117.1	9320.4	9010.0
42.5°	9542.9	9619.8	9795.6	10007.1	9853.3	9339.6	8663.9	9023.7	9666.5	9987.9	9564.9
45°	9713.2	9614.3	9875.3	10262.6	10265.3	9603.3	8828.7	9287.4	10095.0	10562.0	9944.0
47.5°	9540.2	9589.6	9858.8	10350.5	10476.9	9880.8	9273.7	9661.0	10567.5	10982.3	10295.6
50°	9152.8	9251.7	9743.4	10254.4	10636.2	10174.7	9784.6	10064.8	11004.3	11320.2	10353.3
52.5°	8749.0	8804.0	9573.1	10328.5	10707.6	10553.8	10468.6	10622.5	11537.2	11702.0	10424.7
55°	7650.3	7911.2	9010.0	10295.6	11056.5	11237.8	11171.8	11397.1	12141.5	12306.3	10814.7
56°	7142.1	7279.4	8672.1	10141.7	11125.1	11487.7	11454.8	11556.4	12462.9	12636.0	10875.2
57.5°	6202.6	6213.6	7394.8	9460.5	10866.9	11561.9	11528.9	11608.6	12399.7	12281.6	10345.0
60°	3881.4	4051.7	5032.4	7276.7	9240.7	10726.8	10913.6	10273.6	10454.9	10204.9	8048.6
62.5°	2010.8	1986.0	2637.1	4255.0	6133.9	7680.5	7853.5	7823.3	7543.1	7177.8	5257.7
65°	1002.6	1008.1	1379.0	2106.9	3142.5	4021.5	4505.0	4557.2	3812.8	3507.9	2494.2
67.5°	727.9	755.4	991.6	1288.3	1480.6	1656.4	2030.0	1991.5	1508.1	1433.9	1329.5
70°	565.9	590.6	804.9	983.4	892.8	892.8	972.4	1005.4	1074.1	1104.3	1140.0
72.5°	412.0	431.3	615.3	678.5	585.1	629.1	727.9	804.9	876.3	887.3	928.5
75°	282.9	299.4	403.8	373.6	351.6	434.0	532.9	604.3	656.5	684.0	708.7
77.5°	184.0	189.5	230.7	195.0	225.2	280.2	346.1	406.5	458.7	480.7	486.2
80°	82.4	90.6	98.9	123.6	156.6	200.5	247.2	296.7	329.6	337.9	354.4
82.5°	46.7	46.7	60.4	87.9	115.4	145.6	178.6	214.3	252.7	261.0	258.2
85°	24.7	24.7	35.7	52.2	71.4	85.2	82.4	85.2	90.6	104.4	101.6
87.5°	8.2	8.2	11.0	11.0	13.7	16.5	13.7	19.2	24.7	24.7	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P530794

CATALOG NUMBER: GALN-SA6A-735-U-T3R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2	5642.2
2.5°	5634.0	5658.7	5625.8	5697.2	5697.2	5683.4	5614.8	5636.7	5653.2	5653.2	5667.0
5°	5741.1	5732.9	5754.9	5669.7	5617.5	5598.3	5485.7	5430.7	5384.0	5381.3	5340.1
7.5°	5801.6	5779.6	5771.3	5708.2	5477.4	5337.3	5095.6	4955.5	4925.3	4818.1	4859.4
10°	5897.7	5938.9	5897.7	5554.3	5232.9	4911.5	4675.3	4458.3	4373.1	4304.5	4263.3
12.5°	6095.5	6076.3	5837.3	5373.0	4922.5	4540.7	4189.1	3961.1	3875.9	3815.5	3810.0
15°	6263.0	6166.9	5801.6	5087.3	4439.1	4032.5	3744.1	3582.0	3543.6	3549.1	3573.8
17.5°	6320.7	6254.8	5614.8	4790.7	4079.2	3601.3	3466.6	3441.9	3477.6	3518.8	3529.8
20°	6411.4	6307.0	5537.8	4386.9	3634.2	3332.0	3323.8	3411.7	3477.6	3538.1	3546.3
22.5°	6600.9	6337.2	5287.9	4005.1	3329.3	3252.4	3332.0	3406.2	3507.9	3557.3	3513.3
25°	6655.9	6271.3	4936.3	3546.3	3137.0	3202.9	3288.1	3389.7	3461.2	3488.6	3507.9
27.5°	6702.6	6169.6	4461.0	3241.4	3076.6	3200.2	3288.1	3373.3	3411.7	3436.4	3458.4
30°	6834.4	6139.4	4049.0	3038.1	3038.1	3145.3	3257.9	3279.9	3332.0	3362.3	3400.7
32.5°	6900.3	5930.7	3626.0	2909.0	2999.7	3172.7	3181.0	3222.2	3224.9	3249.6	3208.4
35°	7073.4	5782.3	3233.2	2815.6	3016.2	3145.3	3186.5	3161.7	3027.1	2961.2	2974.9
37.5°	7199.8	5708.2	2950.2	2804.6	3018.9	3175.5	3197.4	3010.7	2870.6	2760.7	2788.2
40°	7540.4	5524.1	2736.0	2785.4	3043.6	3208.4	3148.0	2944.7	2692.0	2579.4	2560.2
42.5°	7801.3	5392.3	2601.4	2763.4	3062.8	3255.1	3123.3	2812.9	2554.7	2450.3	2477.7
45°	8103.5	5362.0	2529.9	2768.9	3095.8	3279.9	3093.1	2711.2	2436.5	2395.3	2387.1
47.5°	8210.6	5145.0	2453.0	2722.2	3087.6	3271.6	2991.4	2634.3	2392.6	2398.1	2420.1
50°	8032.1	4922.5	2395.3	2626.1	3032.6	3197.4	2832.1	2532.7	2367.9	2436.5	2475.0
52.5°	7804.1	4694.5	2277.2	2497.0	2920.0	3082.1	2757.9	2527.2	2343.1	2321.2	2329.4
55°	7872.8	4507.7	2112.4	2321.2	2738.7	2867.8	2675.5	2475.0	2282.7	2200.3	2227.8
56°	7650.3	4315.5	2005.3	2211.3	2615.1	2730.5	2634.3	2428.3	2233.3	2178.3	2178.3
57.5°	7021.2	3669.9	1865.2	2035.5	2354.1	2491.5	2554.7	2400.8	2178.3	2082.2	2084.9
60°	5178.0	2609.6	1672.9	1793.8	1950.3	2060.2	2354.1	2323.9	2041.0	1975.1	1950.3
62.5°	3192.0	1906.4	1535.5	1582.2	1661.9	1752.6	2054.7	2104.2	1895.4	1824.0	1807.5
65°	1788.3	1458.6	1431.2	1450.4	1488.8	1535.5	1705.9	1815.7	1672.9	1563.0	1557.5
67.5°	1307.5	1304.8	1326.8	1343.3	1359.7	1359.7	1400.9	1444.9	1425.7	1337.8	1329.5
70°	1162.0	1170.2	1186.7	1189.4	1194.9	1175.7	1142.7	1129.0	1151.0	1096.0	1085.0
72.5°	958.7	986.2	1005.4	1008.1	977.9	953.2	909.2	862.5	846.1	835.1	832.3
75°	736.2	755.4	763.7	760.9	749.9	714.2	662.0	615.3	585.1	552.1	568.6
77.5°	497.2	524.7	538.4	538.4	521.9	467.0	442.3	406.5	376.3	340.6	346.1
80°	348.9	368.1	390.1	387.3	359.9	332.4	296.7	263.7	239.0	211.5	208.8
82.5°	261.0	271.9	282.9	277.4	258.2	230.7	206.0	175.8	148.3	129.1	129.1
85°	93.4	101.6	123.6	129.1	140.1	140.1	118.1	98.9	79.7	65.9	65.9
87.5°	27.5	27.5	30.2	30.2	27.5	30.2	24.7	27.5	30.2	19.2	19.2
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)