

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: P530742

Luminaire Tested: **GALN-SA6A-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530742  
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-727-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 19797 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

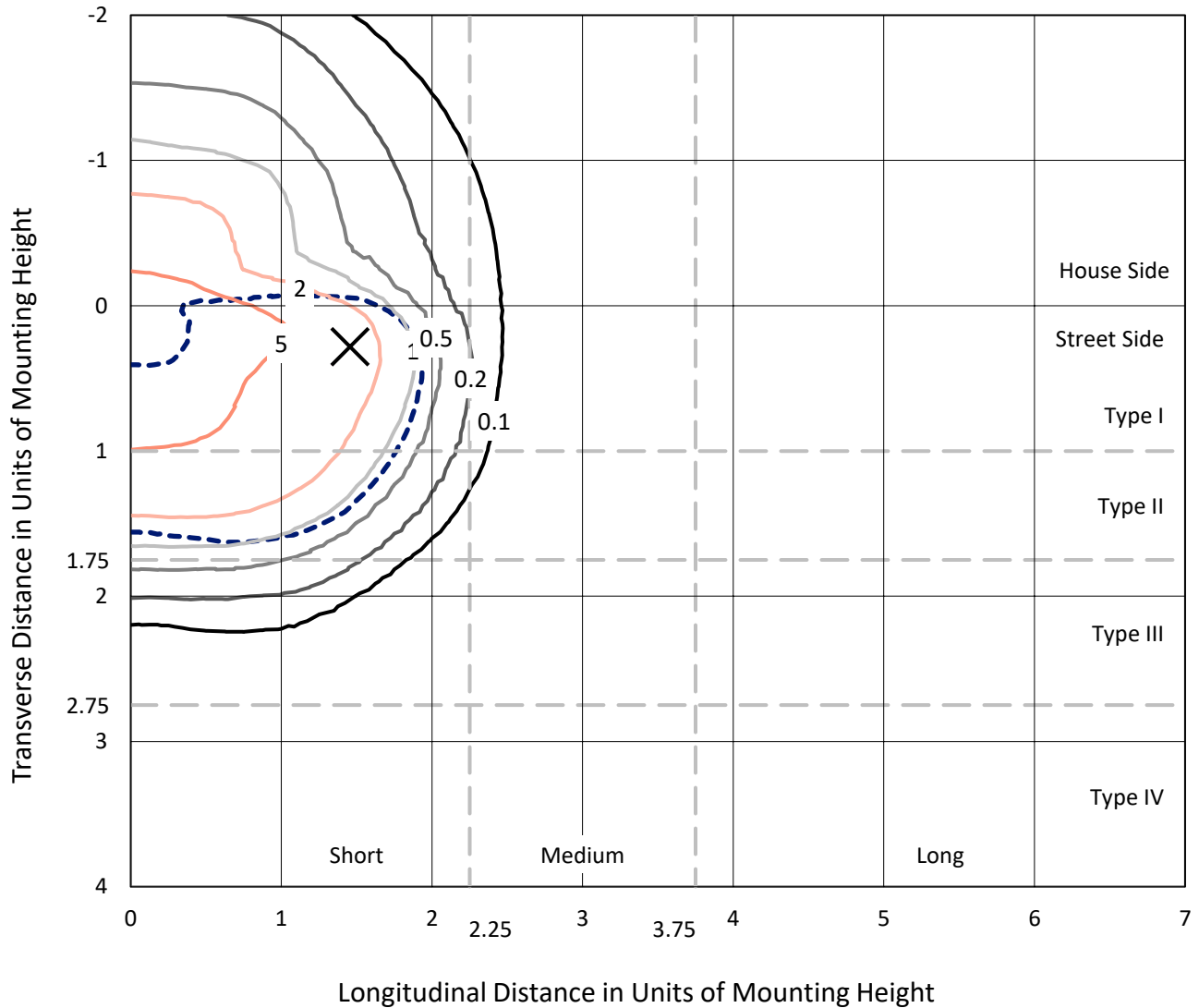
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

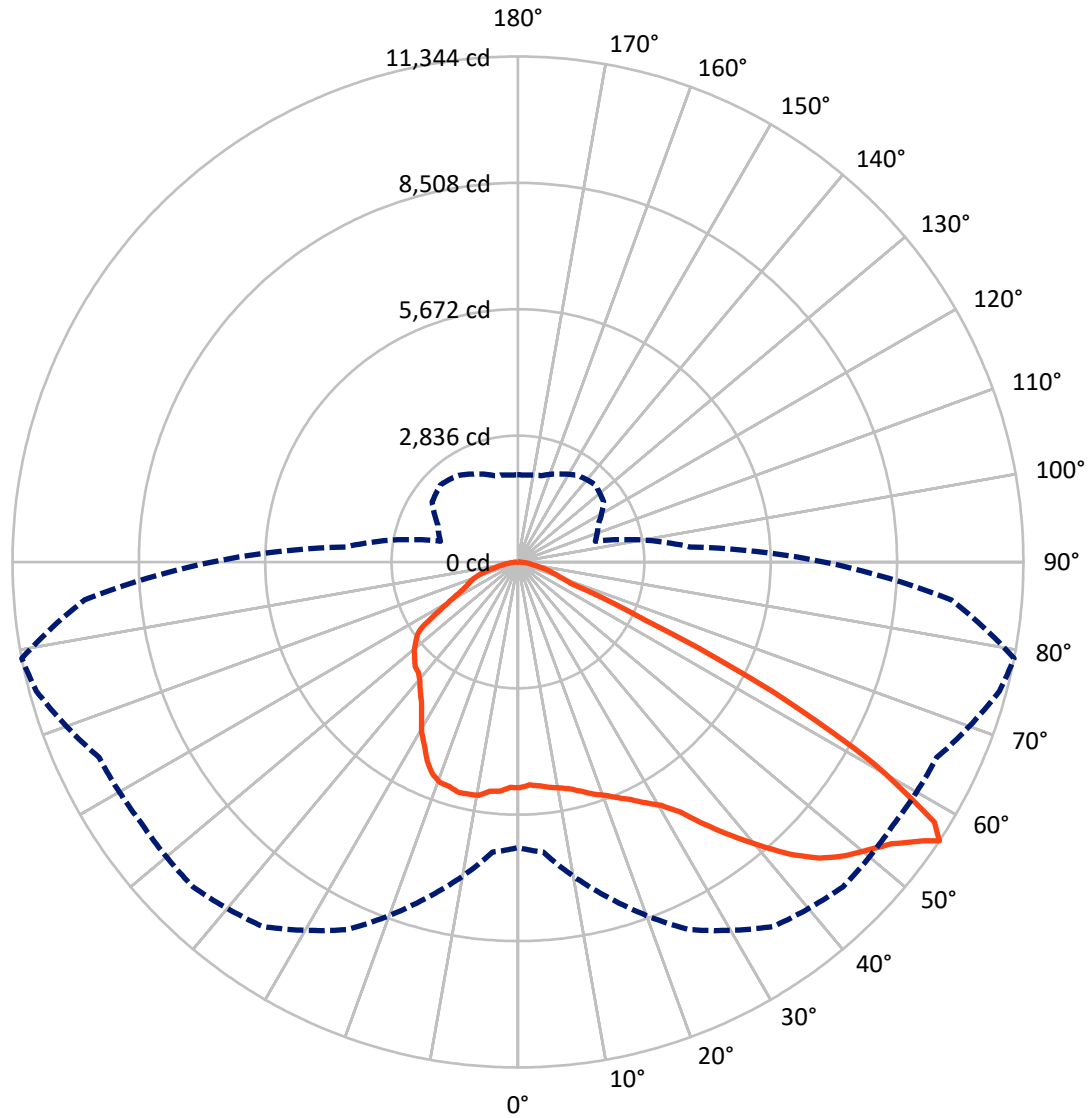
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	5846.5	0.0	5846.5
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	13950.5	0.0	13950.5
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	19797.0	0.0	19797.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.5	2.3
10°-20°	1260.3	6.4
20°-30°	2156.2	10.9
30°-40°	3304.6	16.7
40°-50°	4466.2	22.6
50°-60°	5129.6	25.9
60°-70°	2338.2	11.8
70°-80°	576.5	2.9
80°-90°	104.8	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°	19797.0	100.0
0°-180°	19797.0	100.0

**Coefficient of Utilization**



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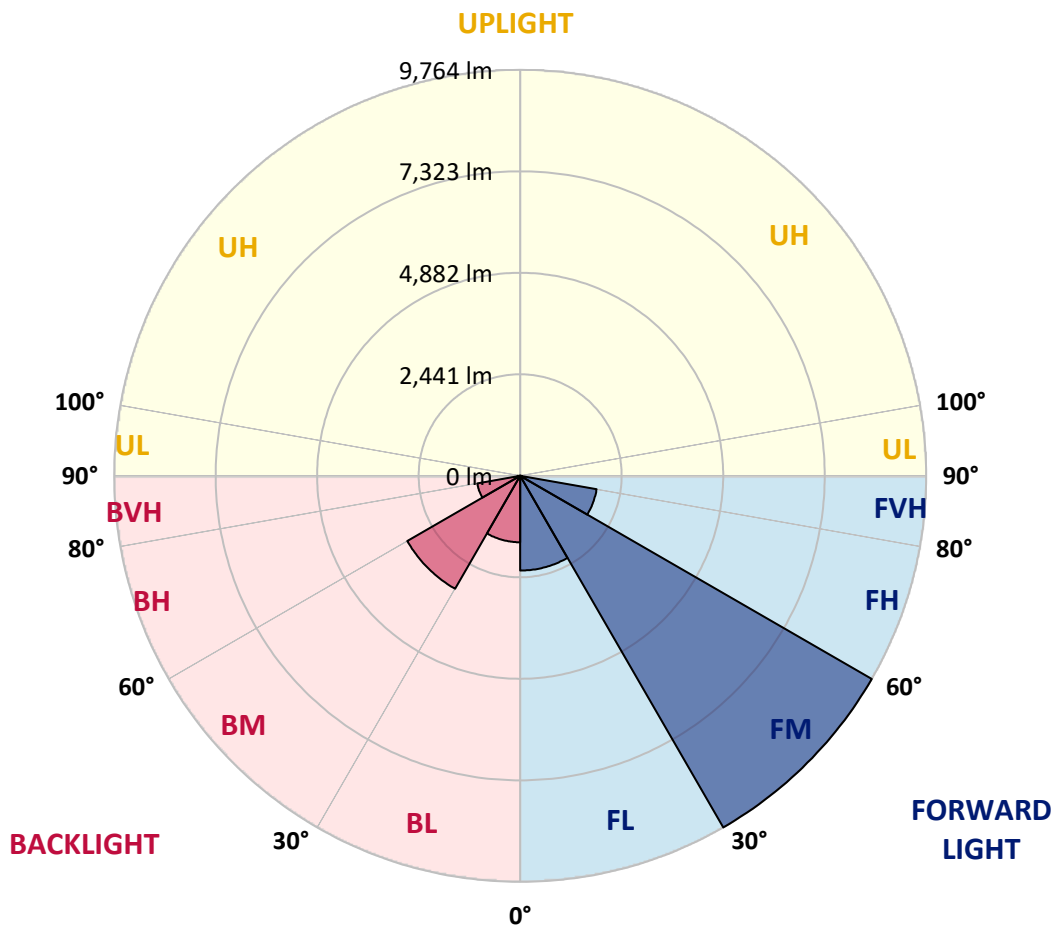
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2277.8	11.5			
FM (30°-60°)	9764.5	49.3			
FH (60°-80°)	1866.4	9.4			G2/5000
FVH (80°-90°)	41.8	0.2			G1/100
BL (0°-30°)	1599.3	8.1	B3/2500		
BM (30°-60°)	3136.0	15.8	B3/5000		
BH (60°-80°)	1048.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	62.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3
2.5°	4818.7	4806.3	4835.9	4858.1	4885.2	4919.8	4937.0	4946.9	5033.2	5011.0	5077.6
5°	4715.1	4683.0	4705.2	4722.5	4769.3	4811.3	4858.1	4932.1	5011.0	5045.5	5126.9
7.5°	4623.8	4606.6	4601.7	4614.0	4678.1	4732.4	4813.7	4922.2	5050.5	5107.2	5154.0
10°	4473.4	4448.8	4485.7	4567.1	4584.4	4697.8	4791.5	4946.9	5057.9	5156.5	5294.6
12.5°	4406.8	4382.2	4389.6	4436.4	4557.3	4665.8	4776.7	4951.8	5186.1	5225.6	5410.5
15°	4512.9	4488.2	4495.6	4483.3	4599.2	4655.9	4831.0	5050.5	5274.9	5341.5	5538.8
17.5°	4754.5	4757.0	4725.0	4697.8	4670.7	4791.5	4912.4	5109.7	5309.4	5477.1	5625.1
20°	5215.7	5134.3	5070.2	4917.3	4875.4	4927.2	5080.1	5270.0	5450.0	5588.1	5755.8
22.5°	5570.8	5578.2	5487.0	5235.4	5144.2	5166.4	5297.1	5452.4	5649.7	5748.4	5940.7
25°	6086.2	6034.4	5935.8	5736.0	5531.4	5548.6	5644.8	5785.4	5839.6	5908.7	6118.3
27.5°	6557.2	6572.0	6377.2	6189.8	5935.8	5886.5	6059.1	6083.7	5992.5	6123.2	6194.7
30°	7035.6	7023.3	6895.1	6675.6	6426.5	6436.4	6512.8	6392.0	6266.2	6337.8	6387.1
32.5°	7531.3	7390.8	7385.8	7188.5	6998.7	6907.4	6813.7	6872.9	6678.1	6692.9	6646.0
35°	7928.4	7948.1	7834.6	7694.1	7600.4	7440.1	7183.6	7289.6	7252.7	7235.4	7033.2
37.5°	8216.9	8140.4	8197.2	8150.3	8061.5	7861.8	7595.4	7696.5	7713.8	7797.7	7563.4
40°	8453.6	8421.6	8572.0	8596.7	8535.0	8103.4	7625.0	7925.9	8184.8	8367.3	8088.6
42.5°	8567.1	8636.1	8793.9	8983.8	8845.7	8384.6	7777.9	8101.0	8678.0	8966.6	8586.8
45°	8720.0	8631.2	8865.5	9213.2	9215.6	8621.3	7925.9	8337.7	9062.7	9482.0	8927.1
47.5°	8564.6	8609.0	8850.7	9292.1	9405.5	8870.4	8325.4	8673.1	9486.9	9859.3	9242.8
50°	8216.9	8305.7	8747.1	9205.8	9548.5	9134.3	8784.1	9035.6	9879.0	10162.6	9294.5
52.5°	7854.4	7903.7	8594.2	9272.4	9612.7	9474.6	9398.1	9536.2	10357.4	10505.4	9358.7
55°	6868.0	7102.2	8088.6	9242.8	9925.9	10088.6	10029.4	10231.6	10899.9	11047.9	9708.8
56°	6411.7	6535.0	7785.3	9104.7	9987.5	10313.0	10283.4	10374.7	11188.5	11343.8	9763.1
57.5°	5568.3	5578.2	6638.6	8493.1	9755.7	10379.6	10350.0	10421.5	11131.8	11025.7	9287.1
60°	3484.5	3637.4	4517.8	6532.6	8295.8	9629.9	9797.6	9223.0	9385.8	9161.4	7225.5
62.5°	1805.1	1783.0	2367.4	3819.9	5506.7	6895.1	7050.4	7023.3	6771.8	6443.8	4720.0
65°	900.1	905.0	1238.0	1891.5	2821.2	3610.3	4044.3	4091.2	3422.9	3149.1	2239.2
67.5°	653.5	678.2	890.2	1156.6	1329.2	1487.0	1822.4	1787.9	1353.9	1287.3	1193.6
70°	508.0	530.2	722.6	882.8	801.5	801.5	873.0	902.6	964.2	991.4	1023.4
72.5°	369.9	387.2	552.4	609.1	525.3	564.7	653.5	722.6	786.7	796.5	833.5
75°	254.0	268.8	362.5	335.4	315.7	389.6	478.4	542.5	589.4	614.0	636.2
77.5°	165.2	170.2	207.1	175.1	202.2	251.5	310.7	365.0	411.8	431.6	436.5
80°	74.0	81.4	88.8	111.0	140.6	180.0	221.9	266.3	295.9	303.3	318.1
82.5°	41.9	41.9	54.3	78.9	103.6	130.7	160.3	192.4	226.9	234.3	231.8
85°	22.2	22.2	32.1	46.9	64.1	76.4	74.0	76.4	81.4	93.7	91.2
87.5°	7.4	7.4	9.9	9.9	12.3	14.8	12.3	17.3	22.2	22.2	22.2
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°	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3	5065.3
2.5°	5057.9	5080.1	5050.5	5114.6	5114.6	5102.3	5040.6	5060.3	5075.1	5075.1	5087.5
5°	5154.0	5146.6	5166.4	5089.9	5043.1	5025.8	4924.7	4875.4	4833.5	4831.0	4794.0
7.5°	5208.3	5188.6	5181.2	5124.5	4917.3	4791.5	4574.5	4448.8	4421.6	4325.5	4362.4
10°	5294.6	5331.6	5294.6	4986.4	4697.8	4409.3	4197.2	4002.4	3926.0	3864.3	3827.3
12.5°	5472.2	5454.9	5240.4	4823.6	4419.2	4076.4	3760.7	3556.0	3479.6	3425.3	3420.4
15°	5622.6	5536.3	5208.3	4567.1	3985.1	3620.2	3361.2	3215.7	3181.2	3186.1	3208.3
17.5°	5674.4	5615.2	5040.6	4300.8	3662.1	3233.0	3112.2	3090.0	3122.0	3159.0	3168.9
20°	5755.8	5662.1	4971.6	3938.3	3262.6	2991.3	2983.9	3062.8	3122.0	3176.3	3183.7
22.5°	5925.9	5689.2	4747.1	3595.5	2988.9	2919.8	2991.3	3057.9	3149.1	3193.5	3154.1
25°	5975.2	5630.0	4431.5	3183.7	2816.2	2875.4	2951.9	3043.1	3107.2	3131.9	3149.1
27.5°	6017.2	5538.8	4004.9	2909.9	2762.0	2872.9	2951.9	3028.3	3062.8	3085.0	3104.8
30°	6135.5	5511.6	3635.0	2727.5	2727.5	2823.6	2924.7	2944.5	2991.3	3018.4	3053.0
32.5°	6194.7	5324.2	3255.2	2611.5	2692.9	2848.3	2855.7	2892.7	2895.1	2917.3	2880.3
35°	6350.1	5191.0	2902.5	2527.7	2707.7	2823.6	2860.6	2838.4	2717.6	2658.4	2670.7
37.5°	6463.5	5124.5	2648.5	2517.8	2710.2	2850.8	2870.5	2702.8	2577.0	2478.4	2503.0
40°	6769.3	4959.2	2456.2	2500.6	2732.4	2880.3	2826.1	2643.6	2416.7	2315.6	2298.4
42.5°	7003.6	4840.9	2335.4	2480.8	2749.6	2922.3	2803.9	2525.2	2293.4	2199.7	2224.4
45°	7274.8	4813.7	2271.2	2485.8	2779.2	2944.5	2776.8	2434.0	2187.4	2150.4	2143.0
47.5°	7371.0	4618.9	2202.2	2443.9	2771.8	2937.1	2685.5	2364.9	2147.9	2152.9	2172.6
50°	7210.7	4419.2	2150.4	2357.5	2722.5	2870.5	2542.5	2273.7	2125.7	2187.4	2221.9
52.5°	7006.1	4214.5	2044.4	2241.6	2621.4	2766.9	2475.9	2268.8	2103.5	2083.8	2091.2
55°	7067.7	4046.8	1896.4	2083.8	2458.7	2574.6	2401.9	2221.9	2049.3	1975.3	2000.0
56°	6868.0	3874.2	1800.2	1985.2	2347.7	2451.3	2364.9	2180.0	2004.9	1955.6	1955.6
57.5°	6303.2	3294.6	1674.4	1827.3	2113.4	2236.7	2293.4	2155.3	1955.6	1869.3	1871.7
60°	4648.5	2342.7	1501.8	1610.3	1750.9	1849.5	2113.4	2086.3	1832.3	1773.1	1750.9
62.5°	2865.6	1711.4	1378.5	1420.4	1492.0	1573.3	1844.6	1889.0	1701.6	1637.5	1622.7
65°	1605.4	1309.5	1284.8	1302.1	1336.6	1378.5	1531.4	1630.1	1501.8	1403.2	1398.3
67.5°	1173.8	1171.4	1191.1	1205.9	1220.7	1220.7	1257.7	1297.1	1279.9	1201.0	1193.6
70°	1043.1	1050.5	1065.3	1067.8	1072.7	1055.5	1025.9	1013.5	1033.3	984.0	974.1
72.5°	860.7	885.3	902.6	905.0	877.9	855.7	816.3	774.3	759.5	749.7	747.2
75°	660.9	678.2	685.6	683.1	673.2	641.2	594.3	552.4	525.3	495.7	510.5
77.5°	446.4	471.0	483.3	483.3	468.5	419.2	397.0	365.0	337.8	305.8	310.7
80°	313.2	330.5	350.2	347.7	323.1	298.4	266.3	236.7	214.5	189.9	187.4
82.5°	234.3	244.1	254.0	249.1	231.8	207.1	185.0	157.8	133.2	115.9	115.9
85°	83.8	91.2	111.0	115.9	125.8	125.8	106.0	88.8	71.5	59.2	59.2
87.5°	24.7	24.7	27.1	27.1	24.7	27.1	22.2	24.7	27.1	17.3	17.3
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)