

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: P529338

Luminaire Tested: **GALN-SA4C-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529338
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-SA4C-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 20304 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

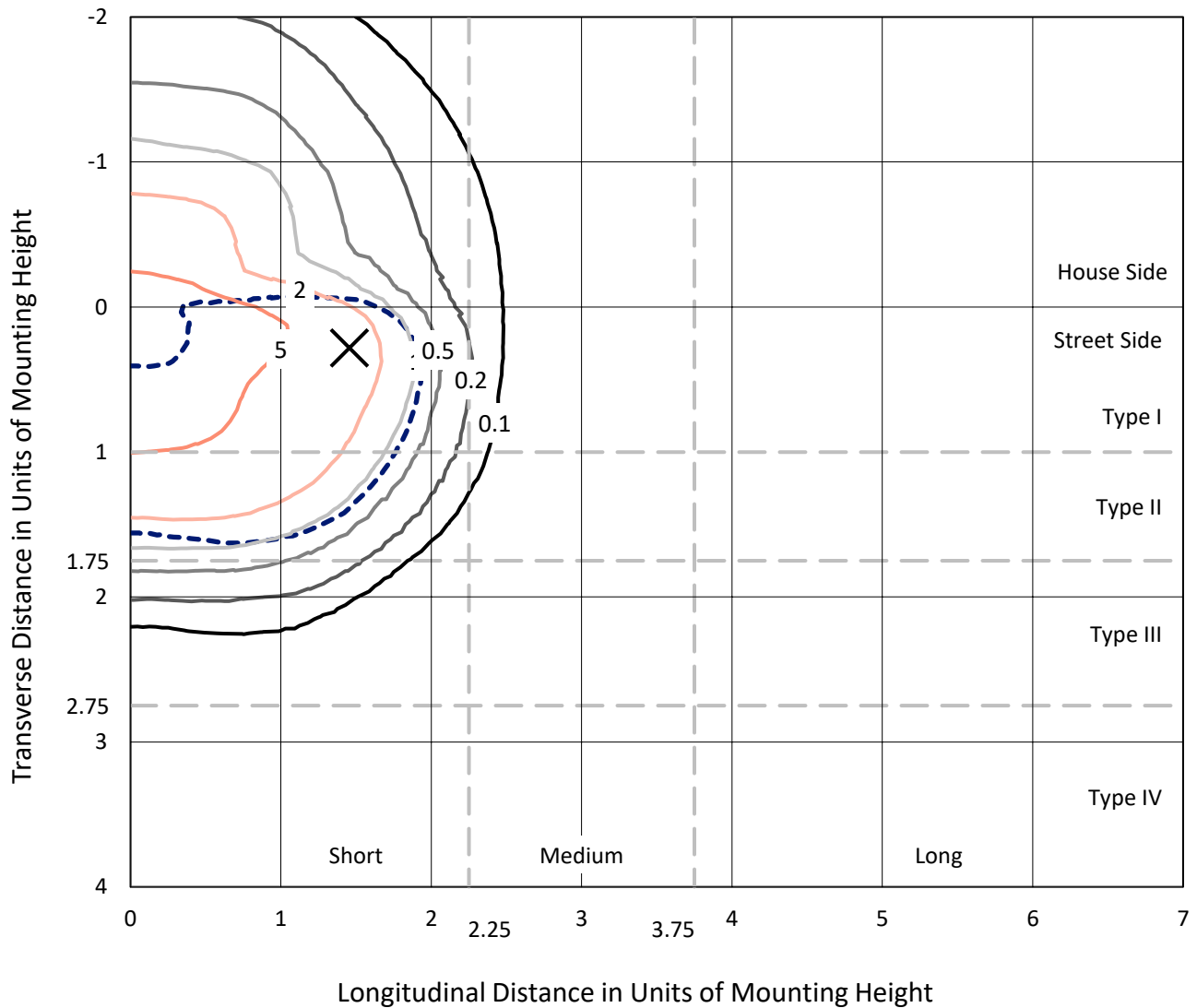
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

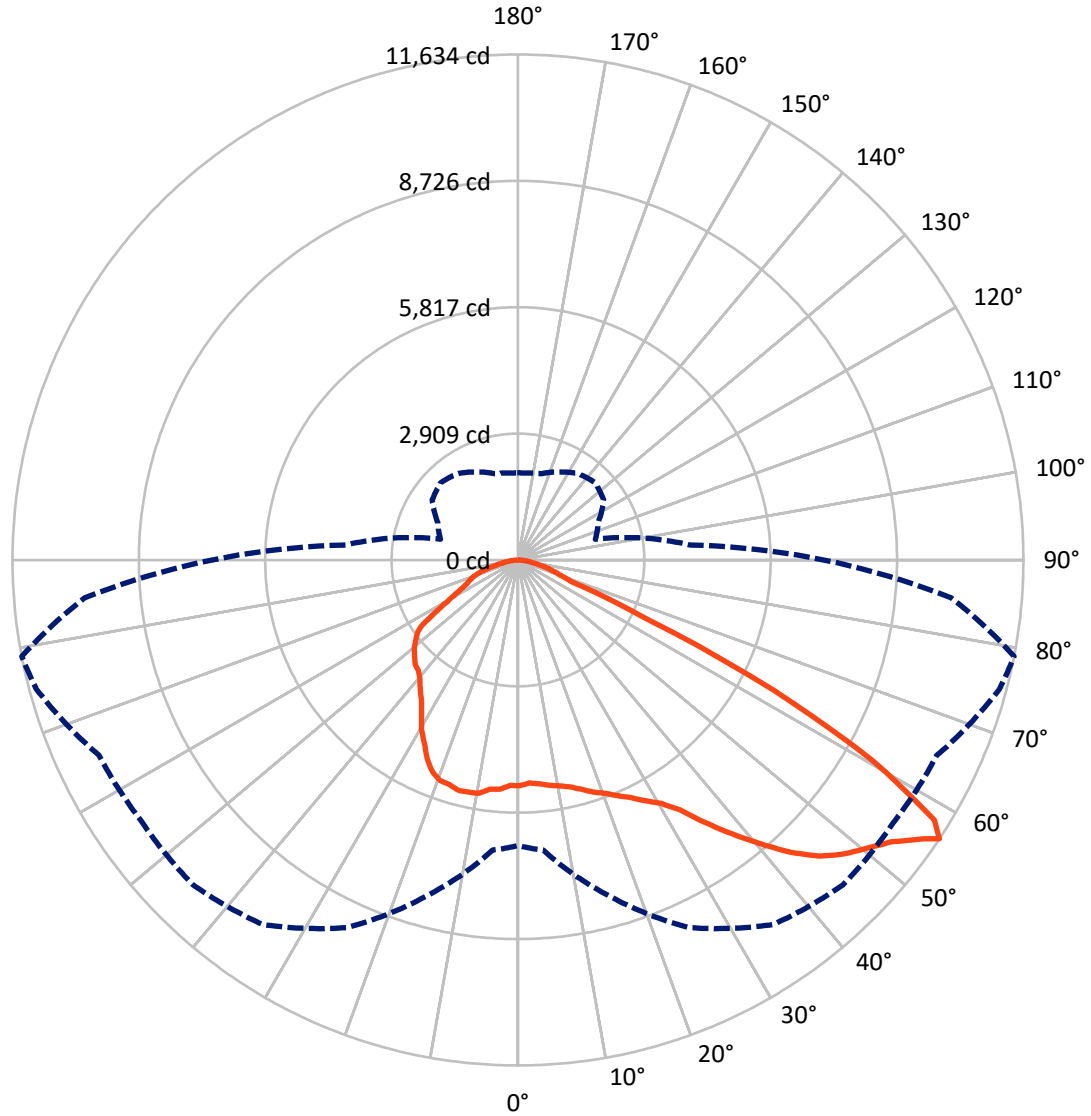
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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
House Side	Lumens	5996.2	0.0	5996.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	14307.8	0.0	14307.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	20304.0	0.0	20304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.3	2.3
10°-20°	1292.6	6.4
20°-30°	2211.4	10.9
30°-40°	3389.3	16.7
40°-50°	4580.6	22.6
50°-60°	5261.0	25.9
60°-70°	2398.1	11.8
70°-80°	591.2	2.9
80°-90°	107.5	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°	20304.0	100.0
0°-180°	20304.0	100.0

Coefficient of Utilization



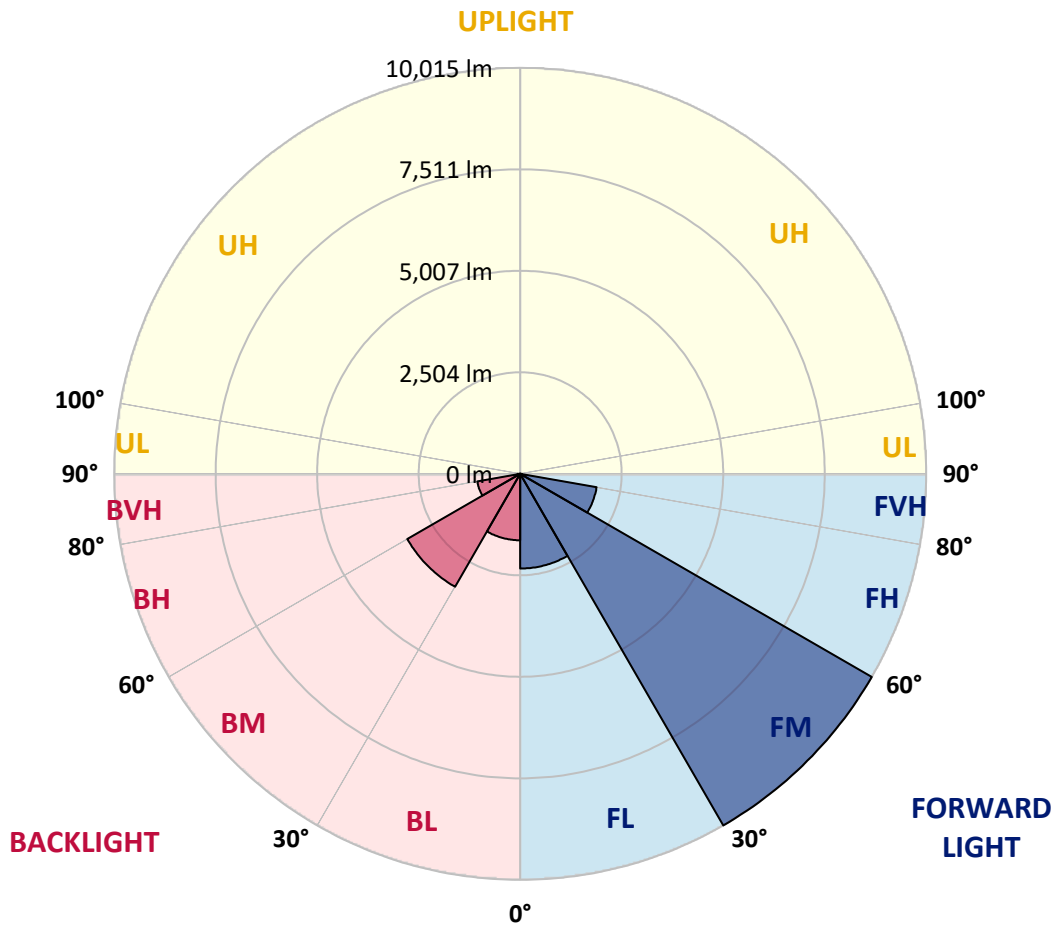
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.1	11.5			
FM (30°-60°)	10014.5	49.3			
FH (60°-80°)	1914.2	9.4			G2/5000
FVH (80°-90°)	42.9	0.2			G1/100
BL (0°-30°)	1640.2	8.1	B3/2500		
BM (30°-60°)	3216.3	15.8	B3/5000		
BH (60°-80°)	1075.1	5.3	B3/2500		G3/2500
BVH (80°-90°)	64.6	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°	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0
2.5°	4942.1	4929.4	4959.8	4982.5	5010.4	5045.8	5063.5	5073.6	5162.1	5139.3	5207.6
5°	4835.8	4803.0	4825.7	4843.4	4891.5	4934.5	4982.5	5058.4	5139.3	5174.8	5258.2
7.5°	4742.3	4724.6	4719.5	4732.1	4797.9	4853.5	4937.0	5048.3	5179.8	5238.0	5286.0
10°	4588.0	4562.7	4600.6	4684.1	4701.8	4818.1	4914.2	5073.6	5187.4	5288.6	5430.2
12.5°	4519.7	4494.4	4502.0	4550.0	4674.0	4785.3	4899.1	5078.6	5318.9	5359.4	5549.1
15°	4628.4	4603.2	4610.7	4598.1	4717.0	4775.1	4954.7	5179.8	5410.0	5478.3	5680.6
17.5°	4876.3	4878.8	4846.0	4818.1	4790.3	4914.2	5038.2	5240.5	5445.4	5617.4	5769.1
20°	5349.3	5265.8	5200.0	5043.2	5000.2	5053.4	5210.2	5404.9	5589.5	5731.2	5903.2
22.5°	5713.5	5721.1	5627.5	5369.5	5275.9	5298.7	5432.7	5592.1	5794.4	5895.6	6092.9
25°	6242.1	6189.0	6087.8	5882.9	5673.0	5690.7	5789.4	5933.5	5989.2	6060.0	6275.0
27.5°	6725.2	6740.3	6540.5	6348.3	6087.8	6037.2	6214.3	6239.6	6146.0	6280.0	6353.4
30°	7215.8	7203.2	7071.7	6846.6	6591.1	6601.2	6679.6	6555.7	6426.7	6500.1	6550.6
32.5°	7724.2	7580.0	7575.0	7372.6	7177.9	7084.3	6988.2	7048.9	6849.1	6864.3	6816.2
35°	8131.4	8151.6	8035.3	7891.1	7795.0	7630.6	7367.6	7476.3	7438.4	7420.7	7213.3
37.5°	8427.3	8348.9	8407.1	8359.0	8268.0	8063.1	7790.0	7893.7	7911.4	7997.4	7757.1
40°	8670.1	8637.2	8791.5	8816.8	8753.6	8311.0	7820.3	8128.9	8394.4	8581.6	8295.8
42.5°	8786.5	8857.3	9019.1	9213.9	9072.3	8599.3	7977.1	8308.4	8900.3	9196.2	8806.7
45°	8943.3	8852.2	9092.5	9449.1	9451.6	8842.1	8128.9	8551.2	9294.8	9724.8	9155.7
47.5°	8783.9	8829.5	9077.3	9530.0	9646.4	9097.6	8538.6	8895.2	9729.9	10111.8	9479.5
50°	8427.3	8518.4	8971.1	9441.5	9793.1	9368.2	9009.0	9267.0	10132.0	10422.9	9532.6
52.5°	8055.5	8106.1	8814.3	9509.8	9858.8	9717.2	9638.8	9780.4	10622.7	10774.4	9598.3
55°	7043.8	7284.1	8295.8	9479.5	10180.1	10347.0	10286.3	10493.7	11179.1	11330.8	9957.5
56°	6575.9	6702.4	7984.7	9337.8	10243.3	10577.1	10546.8	10640.4	11475.0	11634.3	10013.1
57.5°	5710.9	5721.1	6808.6	8710.6	10005.5	10645.4	10615.1	10688.4	11416.8	11308.1	9525.0
60°	3573.8	3730.6	4633.5	6699.9	8508.2	9876.6	10048.5	9459.2	9626.2	9396.0	7410.6
62.5°	1851.4	1828.6	2428.0	3917.7	5647.7	7071.7	7231.0	7203.2	6945.2	6608.8	4840.9
65°	923.2	928.2	1269.7	1939.9	2893.4	3702.8	4147.9	4196.0	3510.5	3229.8	2296.5
67.5°	670.2	695.5	913.0	1186.2	1363.2	1525.1	1869.1	1833.7	1388.5	1320.2	1224.1
70°	521.0	543.8	741.1	905.5	822.0	822.0	895.3	925.7	988.9	1016.7	1049.6
72.5°	379.4	397.1	566.5	624.7	538.7	579.2	670.2	741.1	806.8	816.9	854.9
75°	260.5	275.7	371.8	344.0	323.7	399.6	490.7	556.4	604.5	629.8	652.5
77.5°	169.5	174.5	212.5	179.6	207.4	258.0	318.7	374.3	422.4	442.6	447.7
80°	75.9	83.5	91.1	113.8	144.2	184.6	227.6	273.2	303.5	311.1	326.3
82.5°	43.0	43.0	55.6	80.9	106.2	134.0	164.4	197.3	232.7	240.3	237.7
85°	22.8	22.8	32.9	48.1	65.8	78.4	75.9	78.4	83.5	96.1	93.6
87.5°	7.6	7.6	10.1	10.1	12.6	15.2	12.6	17.7	22.8	22.8	22.8
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°	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0	5195.0
2.5°	5187.4	5210.2	5179.8	5245.6	5245.6	5232.9	5169.7	5189.9	5205.1	5205.1	5217.8
5°	5286.0	5278.5	5298.7	5220.3	5172.2	5154.5	5050.8	5000.2	4957.2	4954.7	4916.8
7.5°	5341.7	5321.4	5313.9	5255.7	5043.2	4914.2	4691.7	4562.7	4534.9	4436.2	4474.2
10°	5430.2	5468.1	5430.2	5114.1	4818.1	4522.2	4304.7	4104.9	4026.5	3963.3	3925.3
12.5°	5612.3	5594.6	5374.6	4947.1	4532.3	4180.8	3857.0	3647.1	3568.7	3513.1	3508.0
15°	5766.6	5678.1	5341.7	4684.1	4087.2	3712.9	3447.3	3298.1	3262.7	3267.7	3290.5
17.5°	5819.7	5759.0	5169.7	4410.9	3755.9	3315.8	3191.9	3169.1	3202.0	3239.9	3250.0
20°	5903.2	5807.1	5098.9	4039.1	3346.1	3067.9	3060.3	3141.3	3202.0	3257.6	3265.2
22.5°	6077.7	5834.9	4868.7	3687.6	3065.4	2994.6	3067.9	3136.2	3229.8	3275.3	3234.9
25°	6128.3	5774.2	4545.0	3265.2	2888.4	2949.1	3027.5	3121.0	3186.8	3212.1	3229.8
27.5°	6171.3	5680.6	4107.4	2984.5	2832.7	2946.5	3027.5	3105.9	3141.3	3164.0	3184.3
30°	6292.7	5652.8	3728.0	2797.3	2797.3	2895.9	2999.6	3019.9	3067.9	3095.7	3131.2
32.5°	6353.4	5460.6	3338.6	2678.4	2761.9	2921.2	2928.8	2966.8	2969.3	2992.1	2954.1
35°	6512.7	5324.0	2976.9	2592.4	2777.1	2895.9	2933.9	2911.1	2787.2	2726.5	2739.1
37.5°	6629.0	5255.7	2716.4	2582.3	2779.6	2923.8	2944.0	2772.0	2643.0	2541.9	2567.1
40°	6942.7	5086.2	2519.1	2564.6	2802.4	2954.1	2898.5	2711.3	2478.6	2374.9	2357.2
42.5°	7182.9	4964.8	2395.2	2544.4	2820.1	2997.1	2875.7	2589.9	2352.2	2256.1	2281.3
45°	7461.2	4937.0	2329.4	2549.4	2850.4	3019.9	2847.9	2496.3	2243.4	2205.5	2197.9
47.5°	7559.8	4737.2	2258.6	2506.4	2842.8	3012.3	2754.3	2425.5	2202.9	2208.0	2228.2
50°	7395.4	4532.3	2205.5	2417.9	2792.2	2944.0	2607.6	2331.9	2180.2	2243.4	2278.8
52.5°	7185.5	4322.4	2096.7	2299.0	2688.5	2837.8	2539.3	2326.9	2157.4	2137.2	2144.8
55°	7248.7	4150.4	1945.0	2137.2	2521.6	2640.5	2463.4	2278.8	2101.8	2025.9	2051.2
56°	7043.8	3973.4	1846.3	2036.0	2407.8	2514.0	2425.5	2235.8	2056.2	2005.7	2005.7
57.5°	6464.7	3379.0	1717.3	1874.1	2167.5	2294.0	2352.2	2210.5	2005.7	1917.1	1919.7
60°	4767.6	2402.7	1540.3	1651.6	1795.7	1896.9	2167.5	2139.7	1879.2	1818.5	1795.7
62.5°	2938.9	1755.3	1413.8	1456.8	1530.2	1613.6	1891.8	1937.4	1745.2	1679.4	1664.2
65°	1646.5	1343.0	1317.7	1335.4	1370.8	1413.8	1570.6	1671.8	1540.3	1439.1	1434.1
67.5°	1203.9	1201.4	1221.6	1236.8	1252.0	1252.0	1289.9	1330.4	1312.7	1231.7	1224.1
70°	1069.9	1077.4	1092.6	1095.1	1100.2	1082.5	1052.1	1039.5	1059.7	1009.2	999.0
72.5°	882.7	908.0	925.7	928.2	900.4	877.6	837.2	794.2	779.0	768.9	766.3
75°	677.8	695.5	703.1	700.6	690.5	657.6	609.5	566.5	538.7	508.4	523.5
77.5°	457.8	483.1	495.7	495.7	480.5	430.0	407.2	374.3	346.5	313.6	318.7
80°	321.2	338.9	359.1	356.6	331.3	306.0	273.2	242.8	220.0	194.7	192.2
82.5°	240.3	250.4	260.5	255.4	237.7	212.5	189.7	161.9	136.6	118.9	118.9
85°	86.0	93.6	113.8	118.9	129.0	129.0	108.8	91.1	73.3	60.7	60.7
87.5°	25.3	25.3	27.8	27.8	25.3	27.8	22.8	25.3	27.8	17.7	17.7
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)