

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: P529728

Luminaire Tested: **GALN-SA4D-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529728  
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-SA4D-827-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA 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: 19639 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

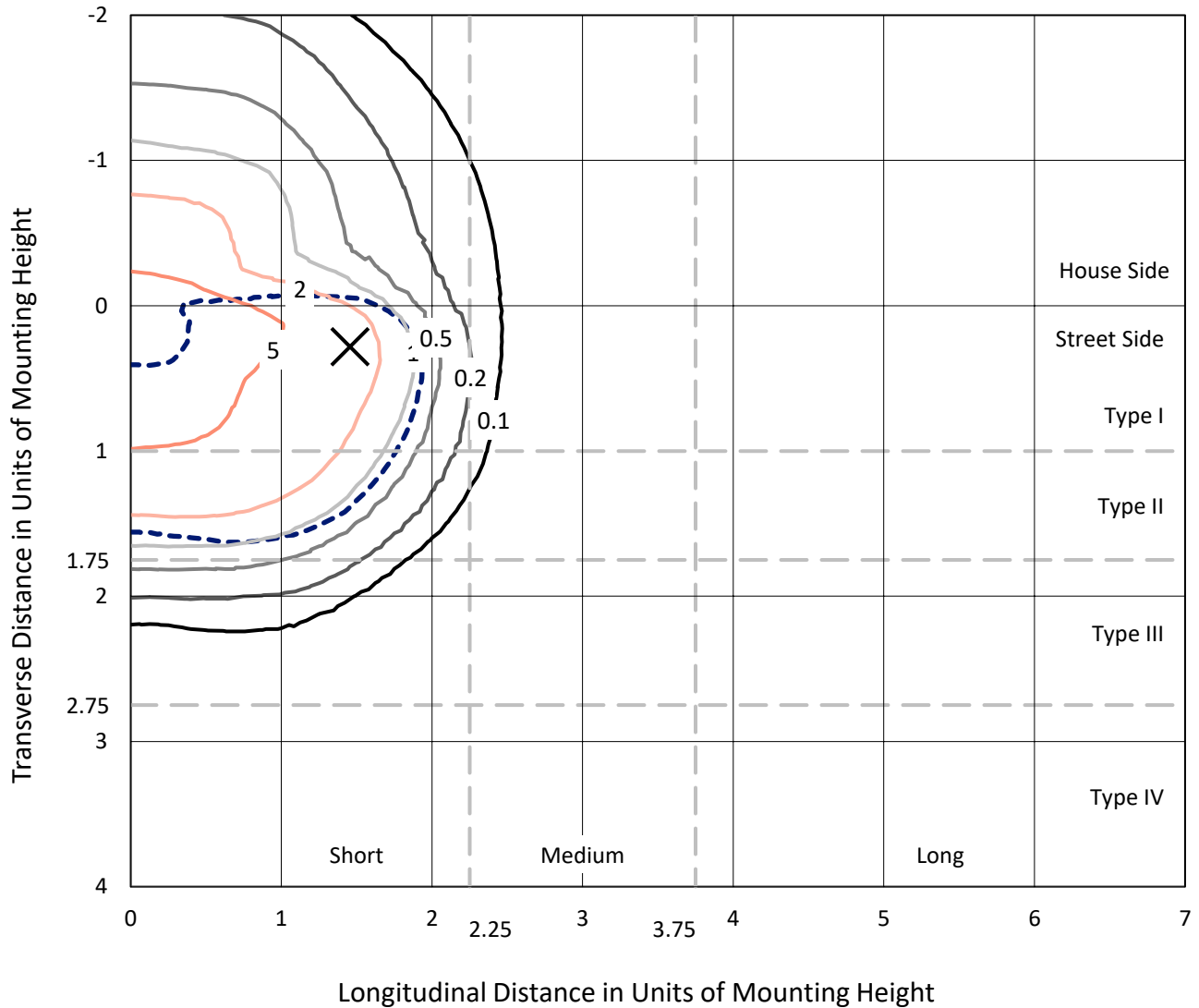
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

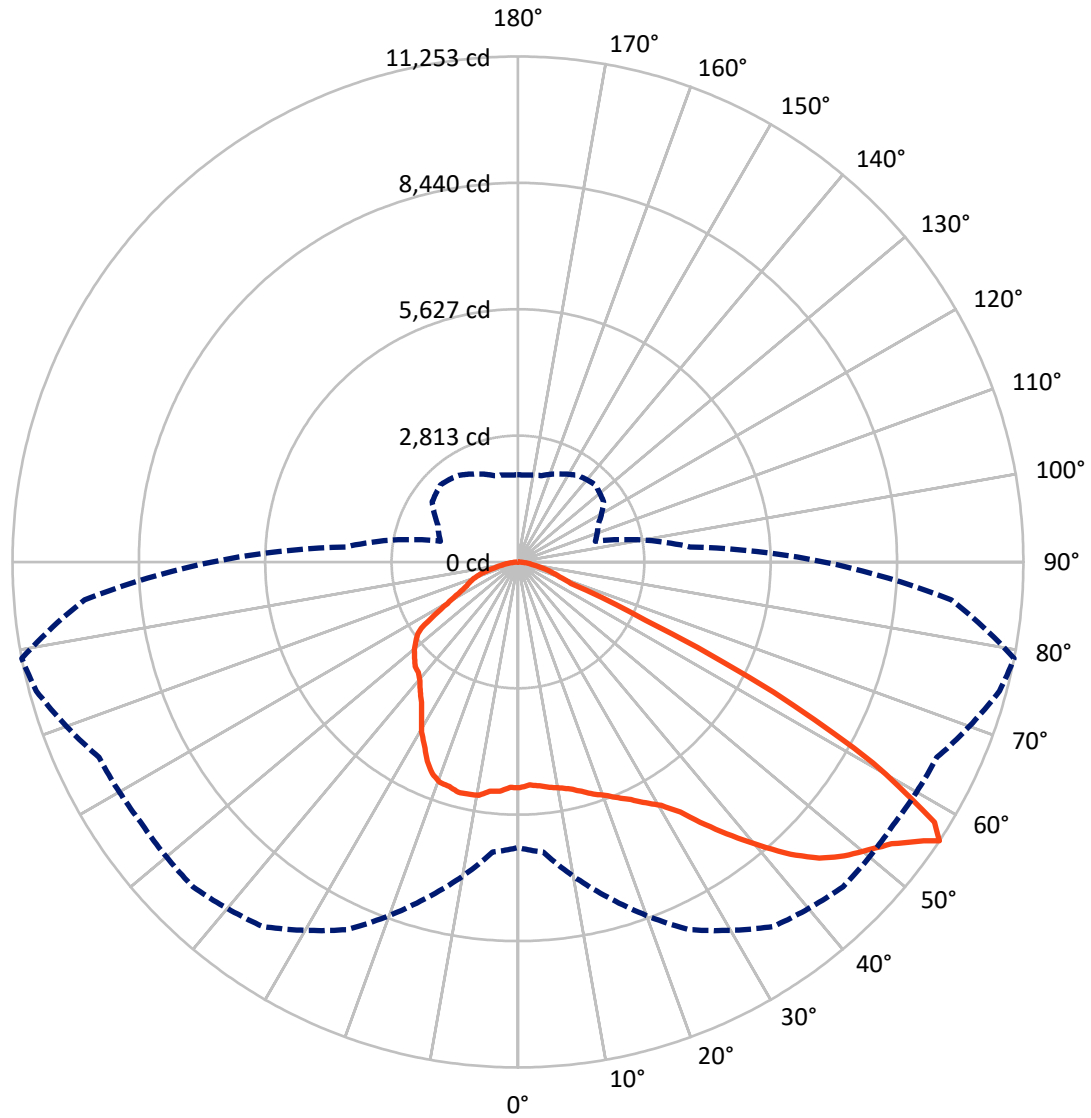
✕ Max cd  
 - - - 1/2 Max cd



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	5799.8	0.0	5799.8
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	13839.2	0.0	13839.2
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	19639.0	0.0	19639.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	456.9	2.3
10°-20°	1250.3	6.4
20°-30°	2139.0	10.9
30°-40°	3278.3	16.7
40°-50°	4430.6	22.6
50°-60°	5088.7	25.9
60°-70°	2319.6	11.8
70°-80°	571.9	2.9
80°-90°	103.9	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°	19639.0	100.0
0°-180°	19639.0	100.0

**Coefficient of Utilization**

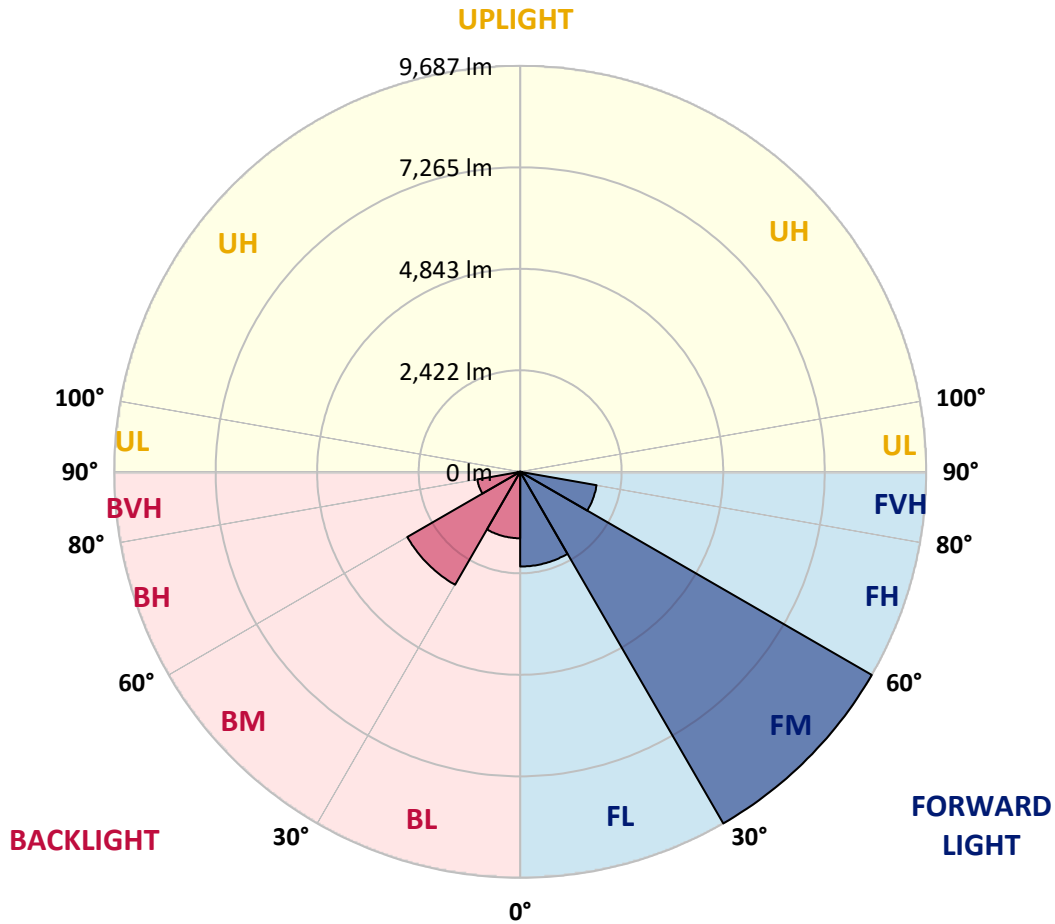


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2259.6	11.5			
FM (30°-60°)	9686.5	49.3			
FH (60°-80°)	1851.5	9.4			G2/5000
FVH (80°-90°)	41.5	0.2			G1/100
BL (0°-30°)	1586.5	8.1	B3/2500		
BM (30°-60°)	3110.9	15.8	B3/5000		
BH (60°-80°)	1039.9	5.3	B3/2500		G3/2500
BVH (80°-90°)	62.4	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°	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8
2.5°	4780.2	4768.0	4797.3	4819.3	4846.3	4880.5	4897.6	4907.4	4993.0	4971.0	5037.1
5°	4677.5	4645.7	4667.7	4684.8	4731.3	4772.9	4819.3	4892.7	4971.0	5005.3	5086.0
7.5°	4586.9	4569.8	4564.9	4577.2	4640.8	4694.6	4775.3	4883.0	5010.2	5066.4	5112.9
10°	4437.7	4413.3	4449.9	4530.7	4547.8	4660.3	4753.3	4907.4	5017.5	5115.4	5252.4
12.5°	4371.7	4347.2	4354.5	4401.0	4520.9	4628.5	4738.6	4912.3	5144.7	5183.9	5367.3
15°	4476.9	4452.4	4459.7	4447.5	4562.5	4618.7	4792.4	5010.2	5232.8	5298.8	5494.5
17.5°	4716.6	4719.0	4687.2	4660.3	4633.4	4753.3	4873.2	5068.9	5267.0	5433.4	5580.2
20°	5174.1	5093.3	5029.7	4878.1	4836.5	4887.8	5039.5	5227.9	5406.5	5543.5	5709.8
22.5°	5526.3	5533.7	5443.2	5193.6	5103.1	5125.1	5254.8	5408.9	5604.6	5702.5	5893.3
25°	6037.6	5986.3	5888.4	5690.3	5487.2	5504.3	5599.7	5739.2	5793.0	5861.5	6069.4
27.5°	6504.9	6519.6	6326.3	6140.4	5888.4	5839.5	6010.7	6035.2	5944.7	6074.3	6145.3
30°	6979.5	6967.3	6840.0	6622.3	6375.2	6385.0	6460.9	6341.0	6216.2	6287.2	6336.1
32.5°	7471.2	7331.8	7326.9	7131.2	6942.8	6852.3	6759.3	6818.0	6624.8	6639.4	6593.0
35°	7865.1	7884.6	7772.1	7632.7	7539.7	7380.7	7126.3	7231.5	7194.8	7177.6	6977.0
37.5°	8151.3	8075.5	8131.7	8085.3	7997.2	7799.0	7534.8	7635.1	7652.2	7735.4	7503.0
40°	8386.2	8354.4	8503.6	8528.0	8466.9	8038.8	7564.2	7862.6	8119.5	8300.5	8024.1
42.5°	8498.7	8567.2	8723.8	8912.1	8775.1	8317.7	7715.8	8036.3	8608.8	8895.0	8518.3
45°	8650.4	8562.3	8794.7	9139.6	9142.1	8552.5	7862.6	8271.2	8990.4	9406.3	8855.9
47.5°	8496.2	8540.3	8780.0	9217.9	9330.5	8799.6	8258.9	8603.9	9411.2	9780.6	9169.0
50°	8151.3	8239.4	8677.3	9132.3	9472.3	9061.4	8714.0	8963.5	9800.2	10081.5	9220.4
52.5°	7791.7	7840.6	8525.6	9198.3	9535.9	9399.0	9323.1	9460.1	10274.8	10421.5	9284.0
55°	6813.1	7045.5	8024.1	9169.0	9846.6	10008.1	9949.4	10150.0	10813.0	10959.7	9631.4
56°	6360.6	6482.9	7723.2	9032.0	9907.8	10230.7	10201.4	10291.9	11099.2	11253.3	9685.2
57.5°	5523.9	5533.7	6585.6	8425.3	9677.8	10296.8	10267.4	10338.4	11042.9	10937.7	9213.0
60°	3456.7	3608.4	4481.7	6480.4	8229.6	9553.1	9719.4	9149.4	9310.9	9088.3	7167.9
62.5°	1790.7	1768.7	2348.5	3789.4	5462.7	6840.0	6994.2	6967.3	6717.7	6392.4	4682.4
65°	892.9	897.8	1228.1	1876.4	2798.6	3581.5	4012.0	4058.5	3395.6	3124.0	2221.3
67.5°	648.3	672.8	883.1	1147.3	1318.6	1475.2	1807.9	1773.6	1343.1	1277.0	1184.0
70°	504.0	526.0	716.8	875.8	795.1	795.1	866.0	895.4	956.5	983.4	1015.2
72.5°	367.0	384.1	548.0	604.3	521.1	560.2	648.3	716.8	780.4	790.2	826.9
75°	252.0	266.7	359.6	332.7	313.1	386.5	474.6	538.2	584.7	609.1	631.2
77.5°	163.9	168.8	205.5	173.7	200.6	249.5	308.2	362.1	408.5	428.1	433.0
80°	73.4	80.7	88.1	110.1	139.4	178.6	220.2	264.2	293.6	300.9	315.6
82.5°	41.6	41.6	53.8	78.3	102.7	129.7	159.0	190.8	225.1	232.4	230.0
85°	22.0	22.0	31.8	46.5	63.6	75.8	73.4	75.8	80.7	93.0	90.5
87.5°	7.3	7.3	9.8	9.8	12.2	14.7	12.2	17.1	22.0	22.0	22.0
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°	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8	5024.8
2.5°	5017.5	5039.5	5010.2	5073.8	5073.8	5061.5	5000.4	5019.9	5034.6	5034.6	5046.9
5°	5112.9	5105.6	5125.1	5049.3	5002.8	4985.7	4885.4	4836.5	4794.9	4792.4	4755.7
7.5°	5166.7	5147.2	5139.8	5083.6	4878.1	4753.3	4538.0	4413.3	4386.3	4290.9	4327.6
10°	5252.4	5289.1	5252.4	4946.6	4660.3	4374.1	4163.7	3970.5	3894.6	3833.5	3796.8
12.5°	5428.5	5411.4	5198.5	4785.1	4383.9	4043.8	3730.7	3527.7	3451.8	3398.0	3393.1
15°	5577.7	5492.1	5166.7	4530.7	3953.3	3591.3	3334.4	3190.1	3155.8	3160.7	3182.7
17.5°	5629.1	5570.4	5000.4	4266.5	3632.9	3207.2	3087.3	3065.3	3097.1	3133.8	3143.6
20°	5709.8	5616.9	4931.9	3906.9	3236.5	2967.4	2960.1	3038.4	3097.1	3150.9	3158.3
22.5°	5878.6	5643.8	4709.3	3566.8	2965.0	2896.5	2967.4	3033.5	3124.0	3168.0	3128.9
25°	5927.6	5585.1	4396.1	3158.3	2793.8	2852.5	2928.3	3018.8	3082.4	3106.9	3124.0
27.5°	5969.1	5494.5	3972.9	2886.7	2739.9	2850.0	2928.3	3004.1	3038.4	3060.4	3080.0
30°	6086.6	5467.6	3605.9	2705.7	2705.7	2801.1	2901.4	2921.0	2967.4	2994.4	3028.6
32.5°	6145.3	5281.7	3229.2	2590.7	2671.4	2825.6	2832.9	2869.6	2872.0	2894.1	2857.4
35°	6299.4	5149.6	2879.4	2507.5	2686.1	2801.1	2837.8	2815.8	2695.9	2637.2	2649.4
37.5°	6411.9	5083.6	2627.4	2497.7	2688.6	2828.0	2847.6	2681.2	2556.5	2458.6	2483.1
40°	6715.3	4919.6	2436.6	2480.6	2710.6	2857.4	2803.5	2622.5	2397.4	2297.1	2280.0
42.5°	6947.7	4802.2	2316.7	2461.0	2727.7	2898.9	2781.5	2505.1	2275.1	2182.2	2206.6
45°	7216.8	4775.3	2253.1	2465.9	2757.1	2921.0	2754.6	2414.6	2169.9	2133.2	2125.9
47.5°	7312.2	4582.0	2184.6	2424.4	2749.7	2913.6	2664.1	2346.1	2130.8	2135.7	2155.3
50°	7153.2	4383.9	2133.2	2338.7	2700.8	2847.6	2522.2	2255.6	2108.8	2169.9	2204.2
52.5°	6950.1	4180.8	2028.0	2223.7	2600.5	2744.8	2456.2	2250.7	2086.8	2067.2	2074.5
55°	7011.3	4014.5	1881.3	2067.2	2439.0	2554.0	2382.8	2204.2	2032.9	1959.5	1984.0
56°	6813.1	3843.2	1785.8	1969.3	2328.9	2431.7	2346.1	2162.6	1988.9	1940.0	1940.0
57.5°	6252.9	3268.3	1661.1	1812.8	2096.5	2218.9	2275.1	2138.1	1940.0	1854.3	1856.8
60°	4611.4	2324.1	1489.8	1597.5	1736.9	1834.8	2096.5	2069.6	1817.7	1758.9	1736.9
62.5°	2842.7	1697.8	1367.5	1409.1	1480.1	1560.8	1829.9	1873.9	1688.0	1624.4	1609.7
65°	1592.6	1299.0	1274.6	1291.7	1325.9	1367.5	1519.2	1617.1	1489.8	1392.0	1387.1
67.5°	1164.5	1162.0	1181.6	1196.3	1211.0	1211.0	1247.6	1286.8	1269.7	1191.4	1184.0
70°	1034.8	1042.2	1056.8	1059.3	1064.2	1047.0	1017.7	1005.5	1025.0	976.1	966.3
72.5°	853.8	878.2	895.4	897.8	870.9	848.9	809.7	768.2	753.5	743.7	741.2
75°	655.6	672.8	680.1	677.6	667.9	636.1	589.6	548.0	521.1	491.7	506.4
77.5°	442.8	467.3	479.5	479.5	464.8	415.9	393.9	362.1	335.2	303.3	308.2
80°	310.7	327.8	347.4	344.9	320.5	296.0	264.2	234.9	212.8	188.4	185.9
82.5°	232.4	242.2	252.0	247.1	230.0	205.5	183.5	156.6	132.1	115.0	115.0
85°	83.2	90.5	110.1	115.0	124.8	124.8	105.2	88.1	70.9	58.7	58.7
87.5°	24.5	24.5	26.9	26.9	24.5	26.9	22.0	24.5	26.9	17.1	17.1
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)