

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: P455345

Luminaire Tested: **GALN-SA6C-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37651 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

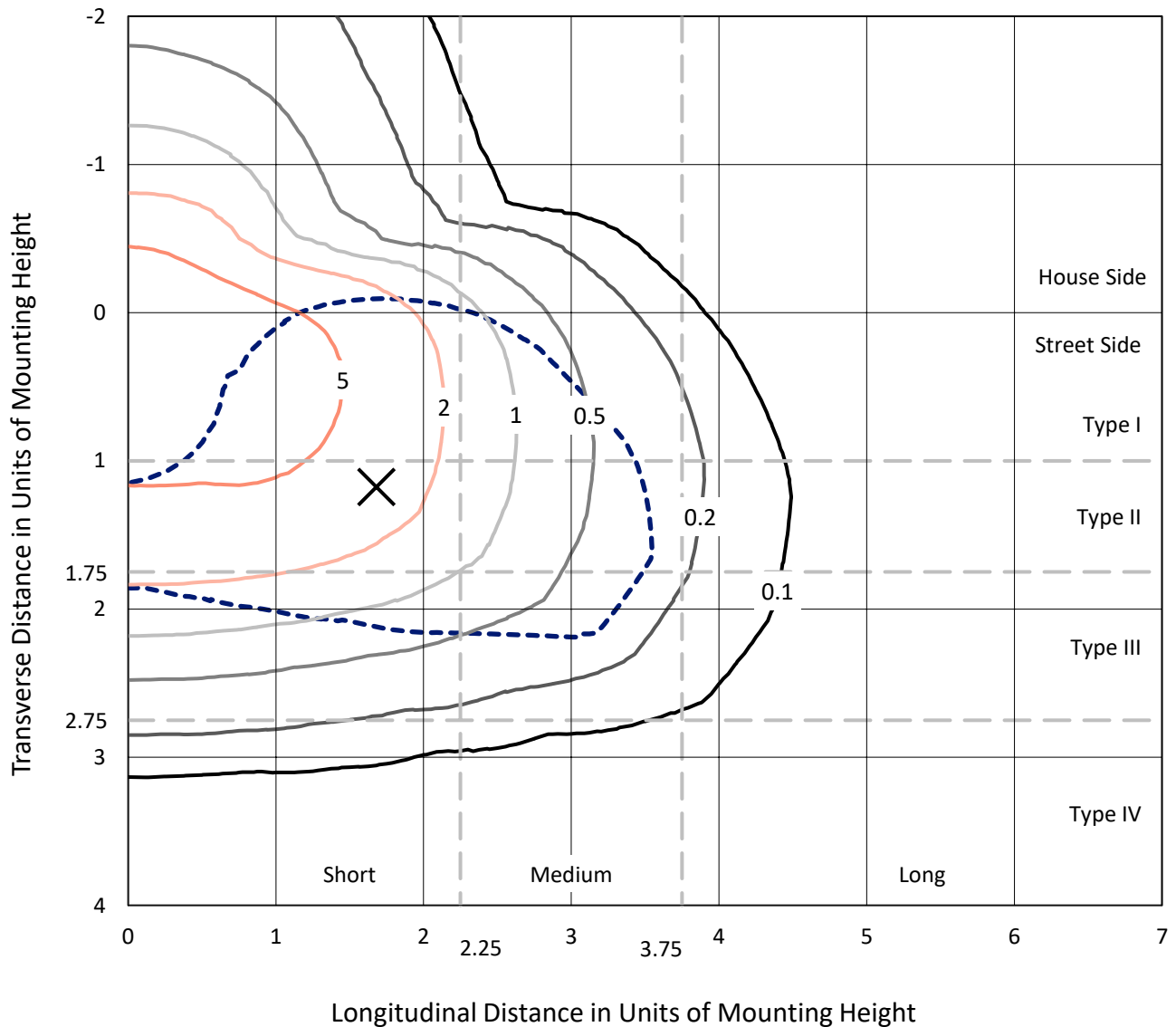
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

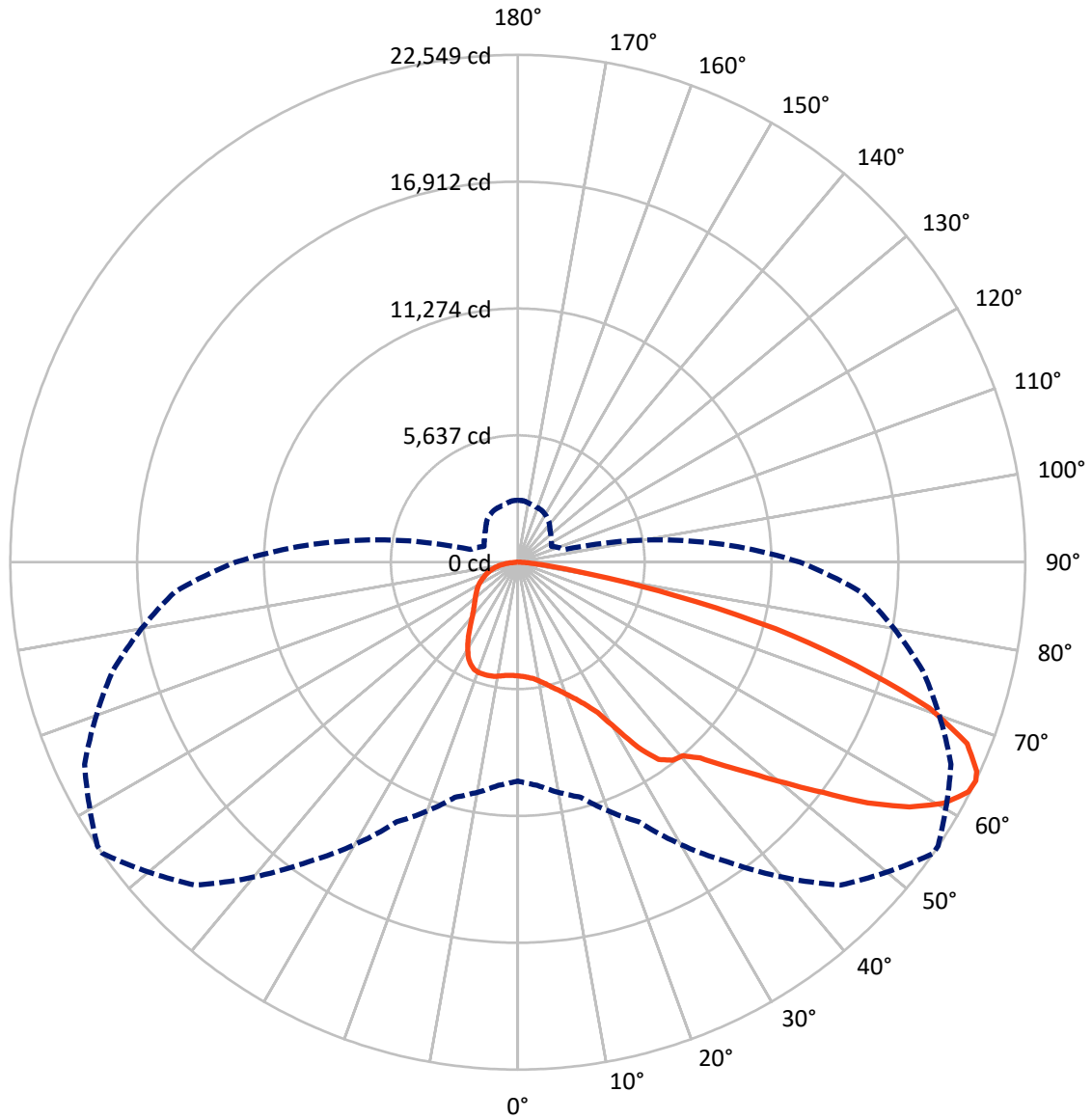
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9146.2	0.0	9146.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	28504.8	0.0	28504.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	37651.0	0.0	37651.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.4	1.3
10°-20°	1550.5	4.1
20°-30°	2760.3	7.3
30°-40°	4247.0	11.3
40°-50°	6020.4	16.0
50°-60°	8714.4	23.1
60°-70°	9018.5	24.0
70°-80°	4223.4	11.2
80°-90°	625.2	1.7
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°	37651.0	100.0
0°-180°	37651.0	100.0

Coefficient of Utilization



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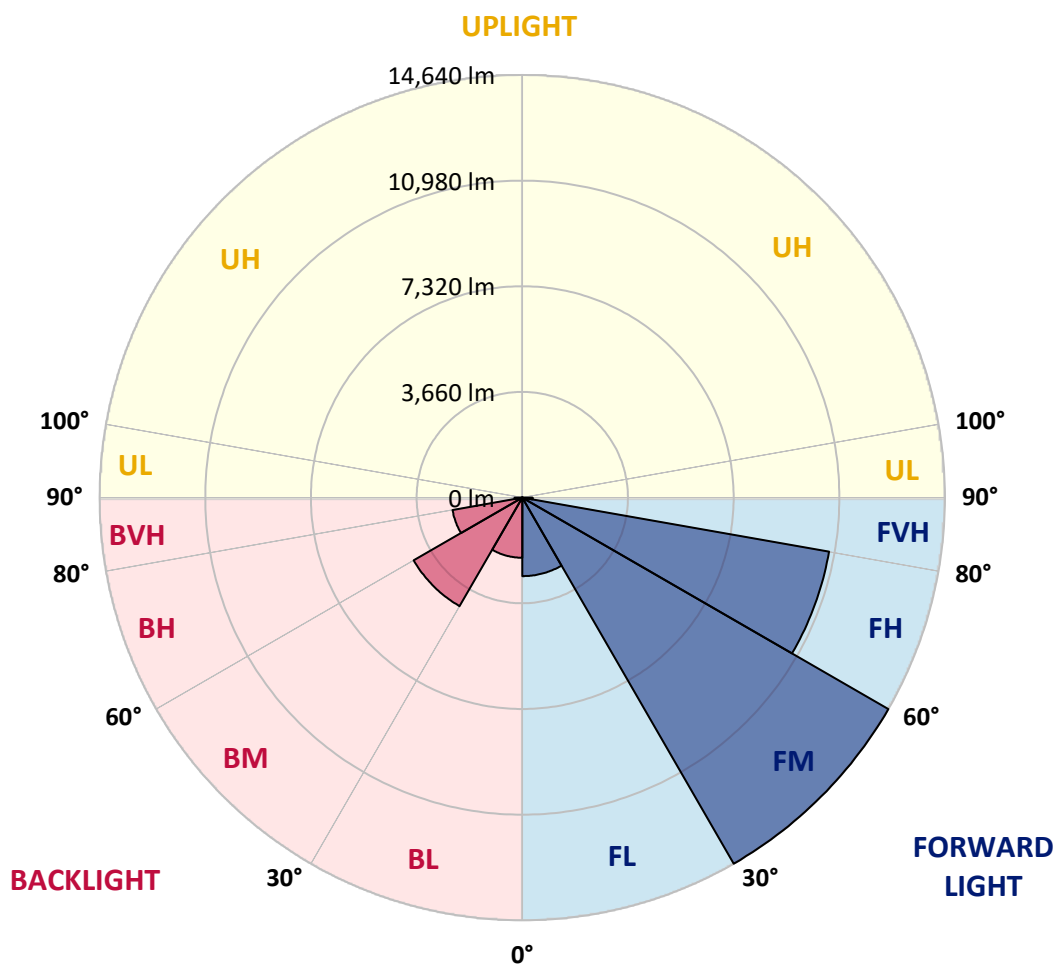
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2719.0	7.2			
FM	(30°-60°)	14639.7	38.9			
FH	(60°-80°)	10788.1	28.7			G4/12000
FVH	(80°-90°)	358.0	1.0			G3/500
BL	(0°-30°)	2083.1	5.5	B3/2500		
BM	(30°-60°)	4342.1	11.5	B3/5000		
BH	(60°-80°)	2453.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	267.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6
2.5°	5108.3	5106.2	5112.5	5106.2	5110.4	5095.7	5089.4	5093.6	5087.3	5076.8	5057.9
5°	5171.3	5169.2	5171.3	5162.9	5167.1	5158.7	5144.0	5148.2	5137.7	5114.6	5087.3
7.5°	5278.3	5269.9	5269.9	5267.8	5259.4	5246.8	5236.3	5232.1	5221.6	5192.2	5150.3
10°	5416.8	5416.8	5418.9	5402.1	5412.6	5389.5	5379.0	5376.9	5341.3	5303.5	5244.7
12.5°	5599.4	5609.9	5603.6	5595.2	5591.0	5582.6	5546.9	5555.3	5515.4	5450.4	5379.0
15°	5826.1	5842.8	5832.4	5828.2	5817.7	5786.2	5771.5	5765.2	5712.7	5618.3	5523.8
17.5°	6126.2	6105.2	6096.8	6086.3	6042.2	6019.1	5994.0	5989.8	5943.6	5832.4	5685.4
20°	6388.5	6417.9	6401.1	6390.6	6346.5	6302.5	6283.6	6277.3	6237.4	6115.7	5880.6
22.5°	6701.2	6707.5	6713.8	6688.6	6667.6	6634.1	6600.5	6590.0	6575.3	6449.4	6161.9
25°	7034.9	7060.1	7039.1	7013.9	6988.7	6986.7	7018.1	7013.9	7007.6	6885.9	6535.4
27.5°	7578.5	7601.6	7607.9	7580.6	7484.0	7492.4	7563.8	7586.9	7683.4	7481.9	7016.0
30°	7884.9	7908.0	7960.5	8063.3	8216.5	8350.8	8522.9	8575.4	8667.7	8287.9	7586.9
32.5°	8073.8	8082.2	8176.6	8367.6	8827.2	9328.8	9796.8	9815.7	9874.5	9341.4	8109.5
35°	8371.8	8378.1	8453.7	8663.5	9202.9	10038.2	10762.3	10785.3	10737.1	9668.8	8352.9
37.5°	8739.1	8755.9	8804.1	8978.3	9622.6	10632.1	11163.1	11146.3	10718.2	9929.1	8783.2
40°	9274.3	9274.3	9217.6	9452.7	10065.5	10972.1	11303.7	11274.3	11161.0	10682.5	9438.0
42.5°	9746.5	9738.1	9872.4	10031.9	10619.5	11496.8	11893.5	11941.7	12128.5	11629.0	10183.0
45°	10361.4	10399.2	10474.7	10764.4	11561.9	12393.0	12905.1	12951.2	13215.7	12743.4	11054.0
47.5°	10982.6	10995.2	11232.4	11618.5	12728.8	13608.1	14027.9	14103.4	14344.8	14046.8	11992.1
50°	11423.4	11543.0	11922.8	12531.5	13931.3	15089.8	15417.2	15507.5	15933.5	15465.5	13085.5
52.5°	11889.3	12006.8	12470.6	13398.3	15312.3	16605.1	17008.1	17068.9	17511.7	16901.0	14204.2
55°	12288.0	12397.2	12923.9	14166.4	16412.0	18151.9	18882.2	18810.9	19022.8	18007.0	15066.7
57.5°	12353.1	12441.2	13104.4	14657.5	17238.9	19478.3	20525.5	20567.5	20321.9	18833.9	15778.2
60°	11849.4	12029.9	12791.7	14605.0	17610.4	20401.7	21751.2	21780.6	21083.8	19257.9	16061.5
62.5°	10957.4	10938.5	11859.9	13761.3	17089.9	20611.6	22473.1	22441.7	21381.8	19054.3	15786.6
64°	9725.5	9952.1	10812.6	12724.6	16250.4	20288.4	22548.7	22531.9	21239.1	18630.4	15318.6
65°	8974.1	8961.5	9811.5	11876.7	15415.1	19801.5	22414.4	22391.3	20941.1	18250.5	14955.5
67.5°	6478.8	6508.1	7347.6	9165.1	12531.5	17897.9	21539.2	21453.2	19765.8	16991.3	13574.5
70°	3924.6	3941.4	4600.4	6080.0	8995.1	14468.6	19415.3	19419.5	17967.2	15110.8	11553.5
72.5°	2067.2	2111.3	2375.8	3452.4	5463.0	10151.5	15750.9	16124.5	15425.6	12896.7	9127.3
75°	1150.1	1156.4	1343.2	1702.1	2787.1	5681.2	11838.9	11945.9	12212.5	10380.3	6749.5
77.5°	877.3	889.9	948.6	1099.7	1517.4	2633.9	7165.0	7702.3	8606.9	7318.2	3851.2
80°	711.5	724.1	774.4	864.7	1009.5	1248.7	3328.6	3618.2	4606.7	3248.8	1502.7
82.5°	554.1	545.7	610.7	669.5	734.6	738.8	1366.3	1511.1	1876.3	1397.7	650.6
85°	411.3	411.3	463.8	451.2	474.3	432.3	602.3	665.3	751.3	593.9	302.2
87.5°	163.7	180.5	304.3	272.8	212.0	170.0	222.5	235.1	260.2	233.0	125.9
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°	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6	5051.6
2.5°	5060.0	5066.3	5051.6	5041.1	5036.9	5030.6	5024.3	5026.4	5034.8	5043.2	5041.1
5°	5085.2	5087.3	5062.1	5049.5	5041.1	5032.7	5032.7	5039.0	5055.8	5068.4	5068.4
7.5°	5148.2	5148.2	5112.5	5089.4	5076.8	5062.1	5057.9	5060.0	5072.6	5089.4	5091.5
10°	5246.8	5238.4	5192.2	5156.6	5133.5	5097.8	5066.3	5049.5	5055.8	5066.3	5066.3
12.5°	5366.4	5343.4	5284.6	5236.3	5179.6	5112.5	5047.4	5013.9	5011.8	5022.2	5018.0
15°	5494.5	5469.3	5387.4	5299.3	5200.6	5102.0	5024.3	4976.1	4938.3	4927.8	4950.9
17.5°	5643.5	5591.0	5477.7	5355.9	5209.0	5081.0	4959.3	4860.6	4793.5	4774.6	4780.9
20°	5824.0	5754.7	5601.5	5410.5	5202.7	5005.5	4816.6	4684.4	4575.2	4541.6	4545.8
22.5°	6073.7	5954.1	5729.5	5437.8	5150.3	4862.7	4600.4	4428.3	4296.1	4243.6	4275.1
25°	6357.0	6226.9	5851.2	5431.5	5013.9	4634.0	4344.4	4119.8	4000.2	3922.5	3939.3
27.5°	6747.4	6516.5	5981.4	5374.8	4818.7	4354.9	4019.1	3807.1	3698.0	3658.1	3677.0
30°	7246.9	6892.2	6122.0	5221.6	4510.2	4002.3	3691.7	3553.1	3488.1	3437.7	3454.5
32.5°	7607.9	7156.6	6153.5	4963.5	4176.5	3681.2	3469.2	3366.4	3295.0	3246.7	3257.2
35°	7866.0	7381.2	6138.8	4646.6	3828.1	3416.7	3292.9	3208.9	3093.5	2988.6	2969.7
37.5°	8212.3	7662.4	6031.7	4300.3	3483.9	3238.3	3150.2	2994.9	2829.1	2688.5	2682.2
40°	8743.3	7991.9	5803.0	3893.1	3190.1	3106.1	2999.1	2797.6	2619.2	2505.9	2497.5
42.5°	9291.0	8296.3	5492.4	3465.0	2948.7	2967.6	2837.5	2638.1	2529.0	2455.5	2447.1
45°	9960.5	8625.8	5156.6	3093.5	2770.3	2837.5	2696.9	2581.4	2516.4	2468.1	2455.5
47.5°	10684.6	8963.6	4778.8	2759.8	2619.2	2717.8	2638.1	2585.6	2549.9	2516.4	2501.7
50°	11465.3	9341.4	4424.1	2491.2	2482.8	2594.0	2631.8	2612.9	2591.9	2581.4	2568.8
52.5°	12321.6	9727.6	4126.1	2302.3	2363.2	2505.9	2633.9	2648.6	2648.6	2642.3	2633.9
55°	12900.9	9996.2	3823.9	2149.1	2241.4	2434.5	2629.7	2686.4	2707.4	2699.0	2690.6
57.5°	13329.0	10143.1	3444.0	2016.9	2138.6	2365.3	2606.6	2690.6	2711.6	2722.0	2717.8
60°	13417.1	10006.7	2946.6	1878.4	2027.4	2264.5	2522.7	2627.6	2654.9	2719.9	2726.2
62.5°	13020.5	9587.0	2451.3	1741.9	1890.9	2111.3	2409.3	2556.2	2610.8	2711.6	2722.0
64°	12533.6	9116.9	2176.4	1655.9	1802.8	2025.3	2352.7	2537.4	2608.7	2743.0	2751.4
65°	12176.8	8774.8	2004.3	1601.3	1746.1	1968.6	2321.2	2543.7	2627.6	2791.3	2803.9
67.5°	10863.0	7597.4	1658.0	1473.3	1611.8	1872.1	2327.5	2596.1	2623.4	2810.2	2808.1
70°	8988.8	6048.5	1389.4	1355.8	1481.7	1794.4	2302.3	2512.2	2514.3	2638.1	2608.7
72.5°	6730.6	4470.3	1204.7	1234.0	1336.9	1609.7	2174.3	2398.8	2363.2	2380.0	2350.6
75°	4623.5	2957.1	1036.8	1103.9	1185.8	1422.9	1993.8	2178.5	2121.8	2100.8	2079.8
77.5°	2468.1	1634.9	862.6	975.9	1030.5	1229.9	1739.8	1918.2	1859.5	1777.6	1750.3
80°	999.0	770.2	694.7	808.0	839.5	990.6	1448.1	1559.4	1515.3	1372.6	1326.4
82.5°	501.6	461.7	545.7	635.9	638.0	707.3	1076.6	1181.6	1082.9	908.7	868.9
85°	262.3	270.7	375.7	447.0	394.6	382.0	646.4	715.7	656.9	570.9	514.2
87.5°	94.4	109.1	197.3	195.2	138.5	73.5	142.7	69.3	37.8	23.1	29.4
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)