

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: P530814

Luminaire Tested: **GALN-SA6A-740-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-740-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22747 lumens  
Efficiency: N/A  
Efficacy: 125.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

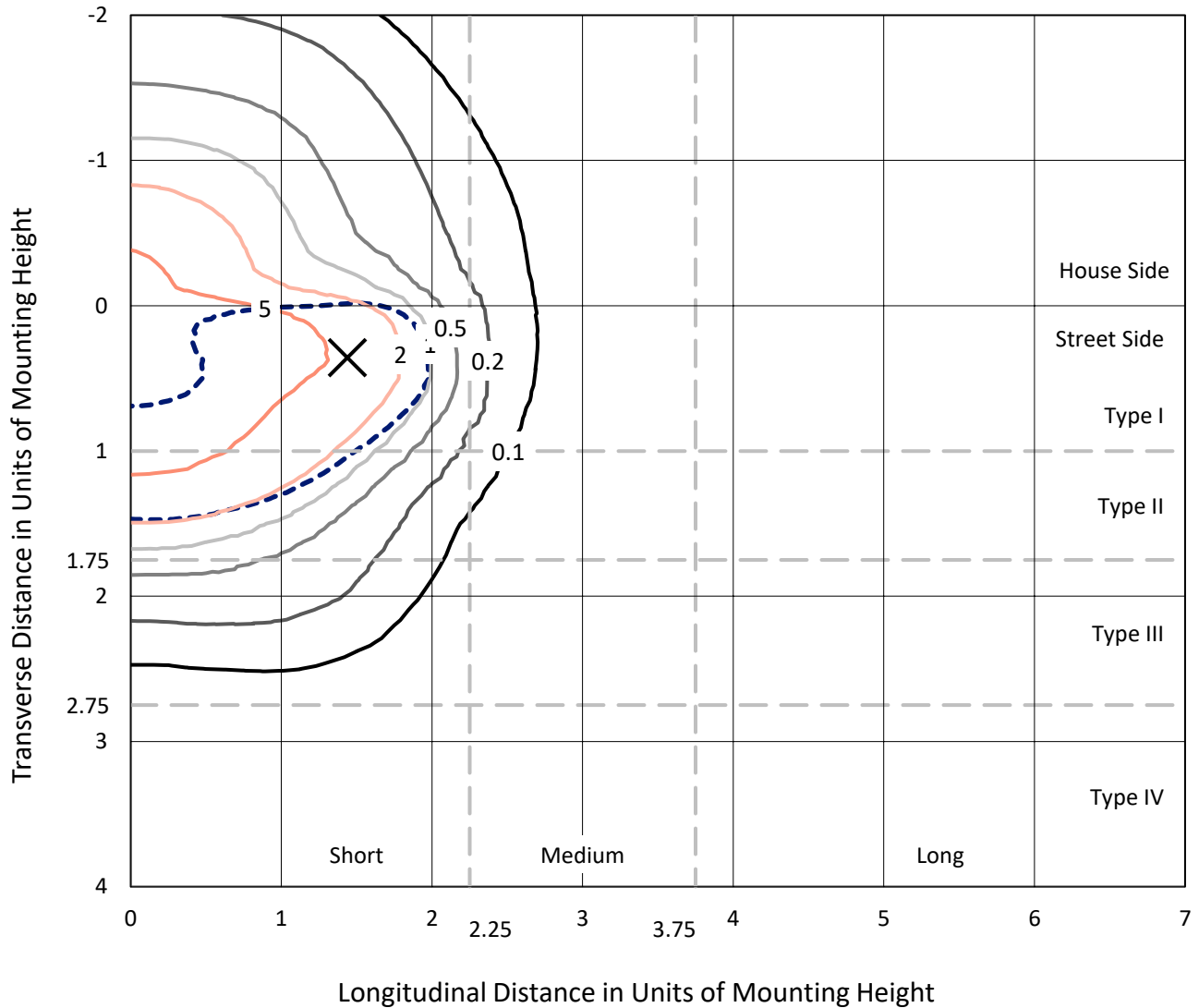
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

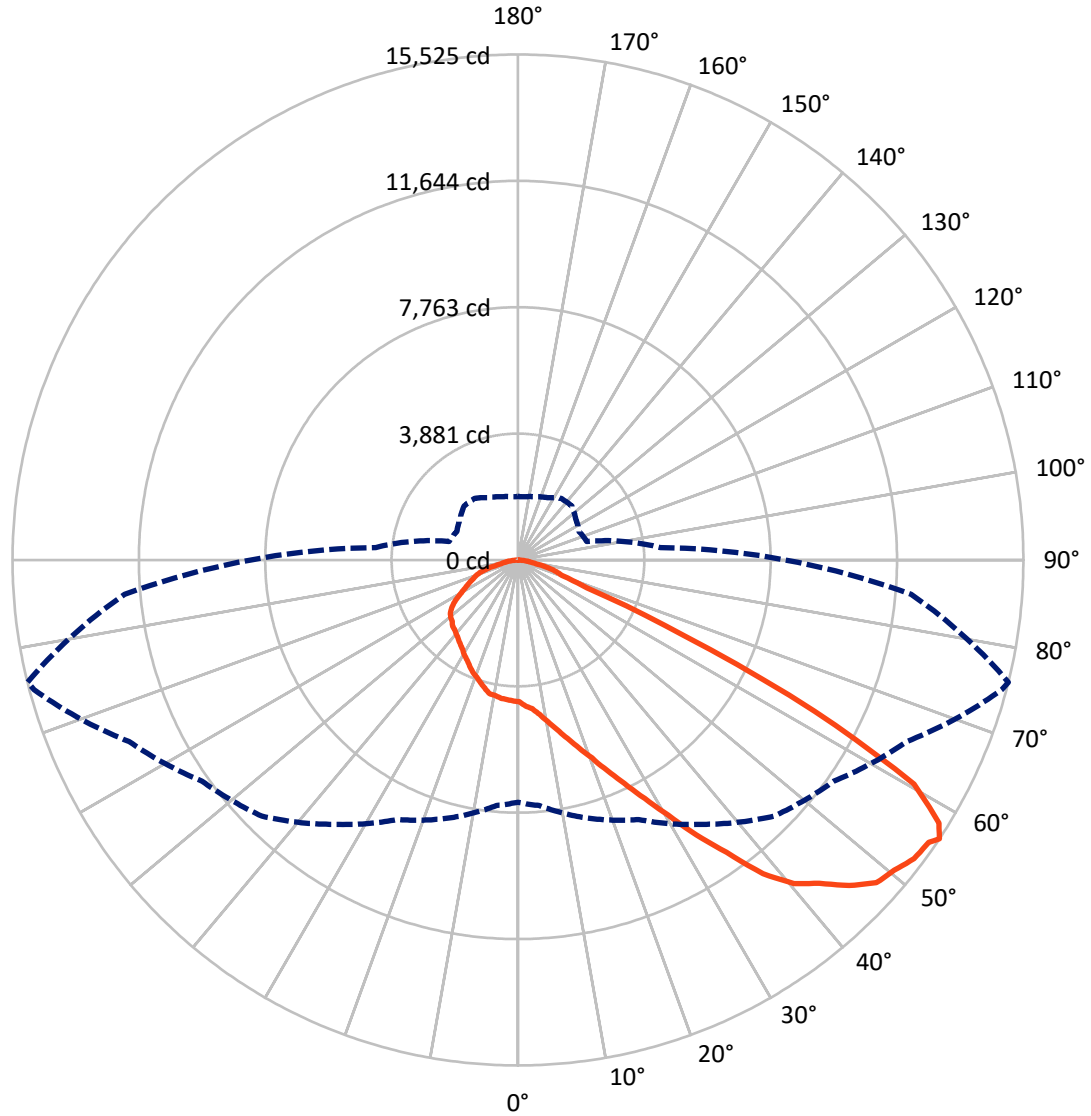
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6116.0	0.0	6116.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	16631.0	0.0	16631.0
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	22747.0	0.0	22747.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.6	1.9
10°-20°	1355.8	6.0
20°-30°	2371.2	10.4
30°-40°	3712.6	16.3
40°-50°	5400.8	23.7
50°-60°	5935.9	26.1
60°-70°	2649.5	11.6
70°-80°	765.3	3.4
80°-90°	124.1	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°	22747.0	100.0
0°-180°	22747.0	100.0

**Coefficient of Utilization**



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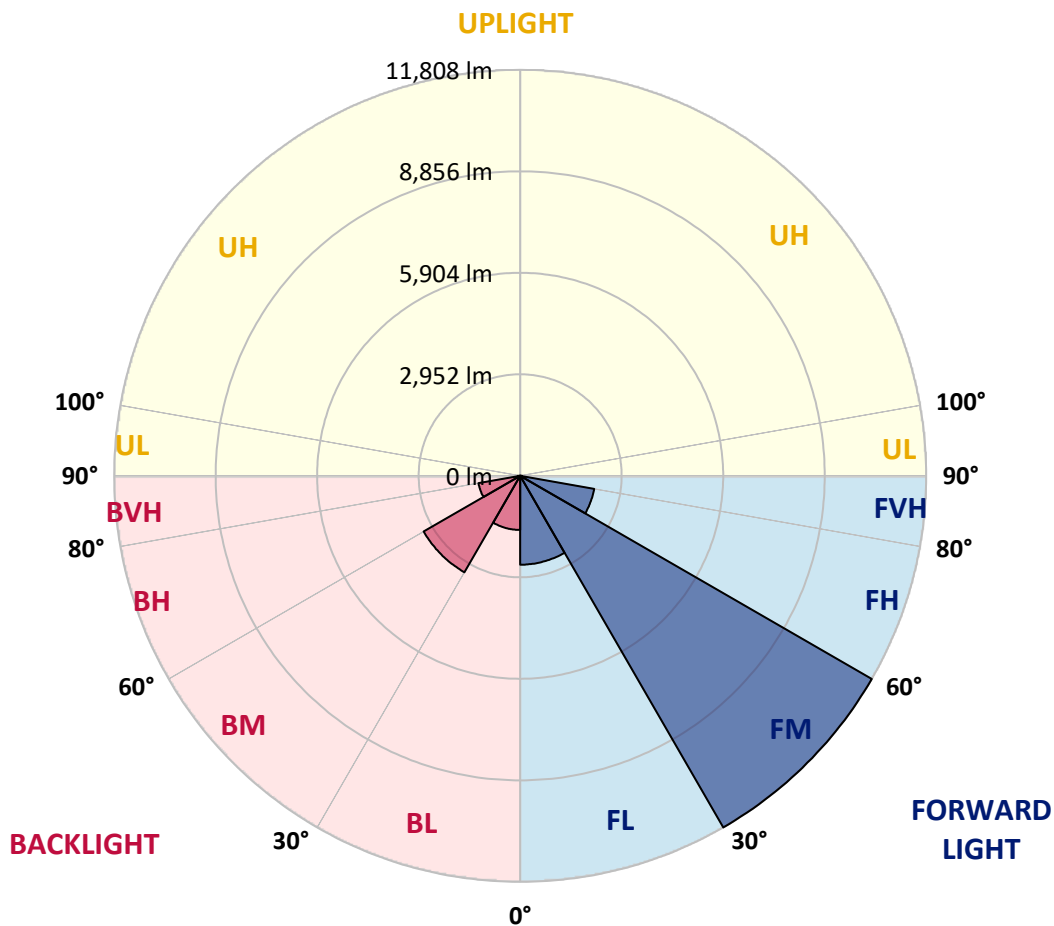
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2584.9	11.4			
FM (30°-60°)	11808.4	51.9			
FH (60°-80°)	2184.2	9.6			G2/5000
FVH (80°-90°)	53.4	0.2			G1/100
BL (0°-30°)	1573.8	6.9	B3/2500		
BM (30°-60°)	3241.0	14.2	B3/5000		
BH (60°-80°)	1230.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	70.7	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°	76°	85°
0°	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3
2.5°	4794.7	4718.0	4712.1	4691.5	4703.2	4650.2	4594.1	4520.4	4443.8	4490.9	4378.9
5°	5130.8	5027.6	5068.9	4998.1	5007.0	4936.2	4821.2	4735.7	4641.3	4585.3	4505.7
7.5°	5248.8	5257.6	5287.1	5275.3	5216.3	5216.3	5139.7	4989.3	4824.1	4791.7	4659.0
10°	5408.0	5410.9	5378.5	5387.4	5469.9	5431.6	5363.8	5298.9	5086.6	5048.2	4812.4
12.5°	5464.0	5410.9	5464.0	5511.2	5608.5	5661.6	5646.8	5599.7	5372.6	5346.1	5001.1
15°	5472.9	5440.4	5484.7	5590.8	5676.3	5900.4	6012.5	5980.1	5679.3	5682.2	5213.4
17.5°	5431.6	5475.8	5493.5	5584.9	5782.5	5991.8	6316.2	6360.4	6112.7	6074.4	5481.7
20°	5487.6	5455.2	5478.8	5561.3	5823.8	6151.1	6575.7	6867.6	6519.7	6493.1	5758.9
22.5°	5702.9	5658.6	5652.7	5705.8	5894.5	6233.6	6849.9	7374.8	7015.1	7029.8	6103.9
25°	5870.9	5894.5	5873.9	5870.9	5988.9	6357.5	7212.6	7979.3	7687.4	7601.9	6510.8
27.5°	6159.9	6216.0	6174.7	6230.7	6204.2	6543.3	7472.1	8648.7	8412.8	8297.8	6879.4
30°	6561.0	6590.4	6552.1	6552.1	6472.5	6802.8	7708.0	9347.5	9250.2	9093.9	7312.9
32.5°	7088.8	7133.0	7056.3	7012.1	7000.3	7189.0	8132.6	10037.5	10202.7	10070.0	7887.9
35°	7787.6	7761.1	7669.7	7628.4	7469.2	7781.7	8763.7	10830.7	11264.2	11028.3	8583.8
37.5°	8403.9	8362.6	8356.7	8126.7	8165.1	8421.6	9300.3	11432.3	12293.3	12225.5	9318.0
40°	8978.9	9017.3	9079.2	8949.4	8890.5	9173.5	9925.5	11892.3	13092.4	13065.9	9884.2
42.5°	9595.2	9559.8	9668.9	9559.8	9471.4	9872.4	10603.7	12210.7	13794.2	13576.0	10476.9
45°	10488.7	10376.6	10415.0	10423.8	10358.9	10506.4	10883.8	12440.8	14286.7	14263.1	10910.4
47.5°	11234.7	11237.7	11172.8	11122.7	10925.1	11072.5	11196.4	12585.2	14852.8	14814.5	11078.4
50°	11511.9	11473.6	11662.3	11771.4	11783.2	11482.4	11441.1	12664.9	15150.6	14982.6	11246.5
52.5°	10515.2	10550.6	10848.4	11497.2	11871.6	11904.1	11727.2	12830.0	15271.5	15236.2	11382.2
55°	8462.9	8633.9	9123.4	9872.4	10760.0	11736.0	12036.8	13001.0	15336.4	15306.9	11983.7
56°	7439.7	7572.4	8209.3	8796.1	9910.7	11125.6	11842.2	13183.8	15386.5	15525.1	12125.2
57.5°	5988.9	6142.2	6599.3	7265.7	8580.8	9963.8	11305.5	12959.7	15191.9	15245.0	12228.4
60°	3744.9	3759.6	4308.1	4747.5	5673.4	7023.9	8628.0	11276.0	14059.6	13982.9	10984.1
62.5°	2456.3	2459.3	2957.6	3317.3	3739.0	4048.6	5077.7	7478.0	10373.7	10238.0	7820.1
65°	1725.0	1763.3	2149.6	2630.3	2801.3	2639.1	2606.7	3942.5	5794.3	5599.7	4202.0
67.5°	1262.1	1265.0	1607.1	2123.1	2370.8	2008.1	1630.7	1925.5	2294.1	2288.2	1946.2
70°	834.5	869.9	1132.3	1586.4	1869.5	1613.0	1332.8	1377.1	1459.6	1459.6	1447.8
72.5°	486.5	519.0	693.0	1005.5	1049.8	1008.5	1055.7	1179.5	1232.6	1229.6	1214.9
75°	277.2	291.9	330.3	418.7	521.9	616.3	775.5	893.5	946.5	979.0	940.6
77.5°	162.2	171.0	194.6	238.8	271.3	333.2	421.7	504.2	575.0	566.2	572.1
80°	85.5	85.5	109.1	141.5	188.7	235.9	280.1	327.3	365.6	374.5	383.3
82.5°	50.1	53.1	70.8	103.2	135.6	168.1	215.3	247.7	283.1	286.0	291.9
85°	26.5	29.5	44.2	67.8	91.4	103.2	106.2	100.3	109.1	103.2	117.9
87.5°	8.8	8.8	14.7	11.8	11.8	14.7	17.7	17.7	23.6	23.6	23.6
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°	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3	4352.3
2.5°	4375.9	4375.9	4325.8	4231.4	4216.7	4178.4	4143.0	4140.0	4113.5	4089.9	4078.1
5°	4458.5	4367.1	4293.4	4207.9	4107.6	4060.4	4007.3	3948.4	3924.8	3948.4	3945.4
7.5°	4552.9	4476.2	4255.0	4095.8	3980.8	3933.6	3874.6	3812.7	3818.6	3818.6	3777.3
10°	4644.3	4541.1	4187.2	3983.8	3815.7	3780.3	3747.9	3771.4	3800.9	3806.8	3780.3
12.5°	4797.6	4564.7	4154.8	3871.7	3765.5	3688.9	3709.5	3774.4	3836.3	3818.6	3839.3
15°	4912.6	4585.3	4007.3	3756.7	3624.0	3659.4	3733.1	3777.3	3880.5	3868.8	3889.4
17.5°	5024.7	4597.1	3862.9	3603.4	3547.3	3644.6	3700.7	3827.5	3859.9	3930.7	3957.2
20°	5254.7	4620.7	3715.4	3509.0	3491.3	3603.4	3700.7	3759.6	3830.4	3892.3	3892.3
22.5°	5372.6	4608.9	3618.1	3385.2	3441.2	3512.0	3600.4	3700.7	3700.7	3759.6	3762.6
25°	5520.0	4561.7	3464.8	3326.2	3367.5	3435.3	3535.5	3500.2	3538.5	3538.5	3585.7
27.5°	5688.1	4461.4	3332.1	3220.0	3302.6	3376.3	3391.1	3367.5	3323.2	3317.3	3299.6
30°	5823.8	4337.6	3234.8	3184.6	3252.5	3293.7	3246.6	3196.4	3119.8	3113.9	3072.6
32.5°	6009.5	4184.3	3113.9	3096.2	3172.8	3175.8	3161.1	3084.4	2972.3	2925.2	2878.0
35°	6322.1	4095.8	3022.5	3049.0	3072.6	3063.7	3037.2	2954.6	2842.6	2821.9	2804.3
37.5°	6552.1	4030.9	2928.1	2960.5	2981.2	2993.0	2913.4	2821.9	2824.9	2783.6	2771.8
40°	6811.6	3989.7	2851.4	2866.2	2869.1	2907.5	2810.2	2765.9	2786.6	2760.0	2777.7
42.5°	7144.8	4001.4	2771.8	2760.0	2816.1	2801.3	2754.1	2695.2	2706.9	2627.3	2639.1
45°	7321.7	4081.1	2724.6	2671.6	2733.5	2730.5	2668.6	2612.6	2541.8	2388.5	2394.4
47.5°	7439.7	4101.7	2612.6	2577.2	2642.1	2680.4	2609.6	2479.9	2379.6	2270.5	2244.0
50°	7560.6	4140.0	2559.5	2485.8	2512.3	2603.7	2515.3	2391.4	2294.1	2196.8	2211.6
52.5°	7666.7	4213.8	2456.3	2347.2	2394.4	2494.6	2447.5	2297.1	2190.9	2111.3	2087.7
55°	8138.5	4378.9	2282.3	2140.8	2252.8	2379.6	2353.1	2170.3	2055.3	2014.0	2008.1
56°	8212.3	4384.8	2190.9	2070.0	2173.2	2341.3	2308.9	2114.2	2011.0	1946.2	1949.1
57.5°	8224.0	4314.0	2061.2	2005.1	2093.6	2285.3	2244.0	2070.0	1928.5	1869.5	1851.8
60°	7236.2	3367.5	1899.0	1863.6	1966.8	2114.2	2099.5	1949.1	1789.9	1722.1	1754.5
62.5°	4933.2	2468.1	1772.2	1766.3	1819.4	1963.9	1925.5	1789.9	1657.2	1613.0	1592.3
65°	2872.1	1872.5	1648.3	1624.8	1669.0	1745.7	1772.2	1630.7	1492.1	1462.6	1453.7
67.5°	1695.5	1548.1	1489.1	1450.8	1436.0	1483.2	1503.9	1421.3	1282.7	1241.4	1276.8
70°	1418.3	1377.1	1380.0	1315.1	1279.8	1247.3	1229.6	1155.9	1040.9	987.8	973.1
72.5°	1223.7	1206.0	1194.2	1135.3	1102.8	1029.1	952.4	878.7	793.2	749.0	751.9
75°	934.8	928.9	934.8	905.3	849.2	790.3	719.5	625.1	560.3	504.2	516.0
77.5°	557.3	575.0	583.9	572.1	548.5	495.4	451.2	389.2	327.3	283.1	277.2
80°	383.3	398.1	412.8	398.1	374.5	336.2	289.0	241.8	197.6	174.0	168.1
82.5°	291.9	306.7	315.5	300.8	271.3	230.0	197.6	165.1	129.7	106.2	100.3
85°	106.2	120.9	117.9	141.5	153.3	147.4	126.8	97.3	73.7	53.1	50.1
87.5°	29.5	26.5	29.5	29.5	29.5	26.5	23.6	23.6	23.6	14.7	11.8
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)