

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: P529386

Luminaire Tested: **GALN-SA4C-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529386  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-735-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22767 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

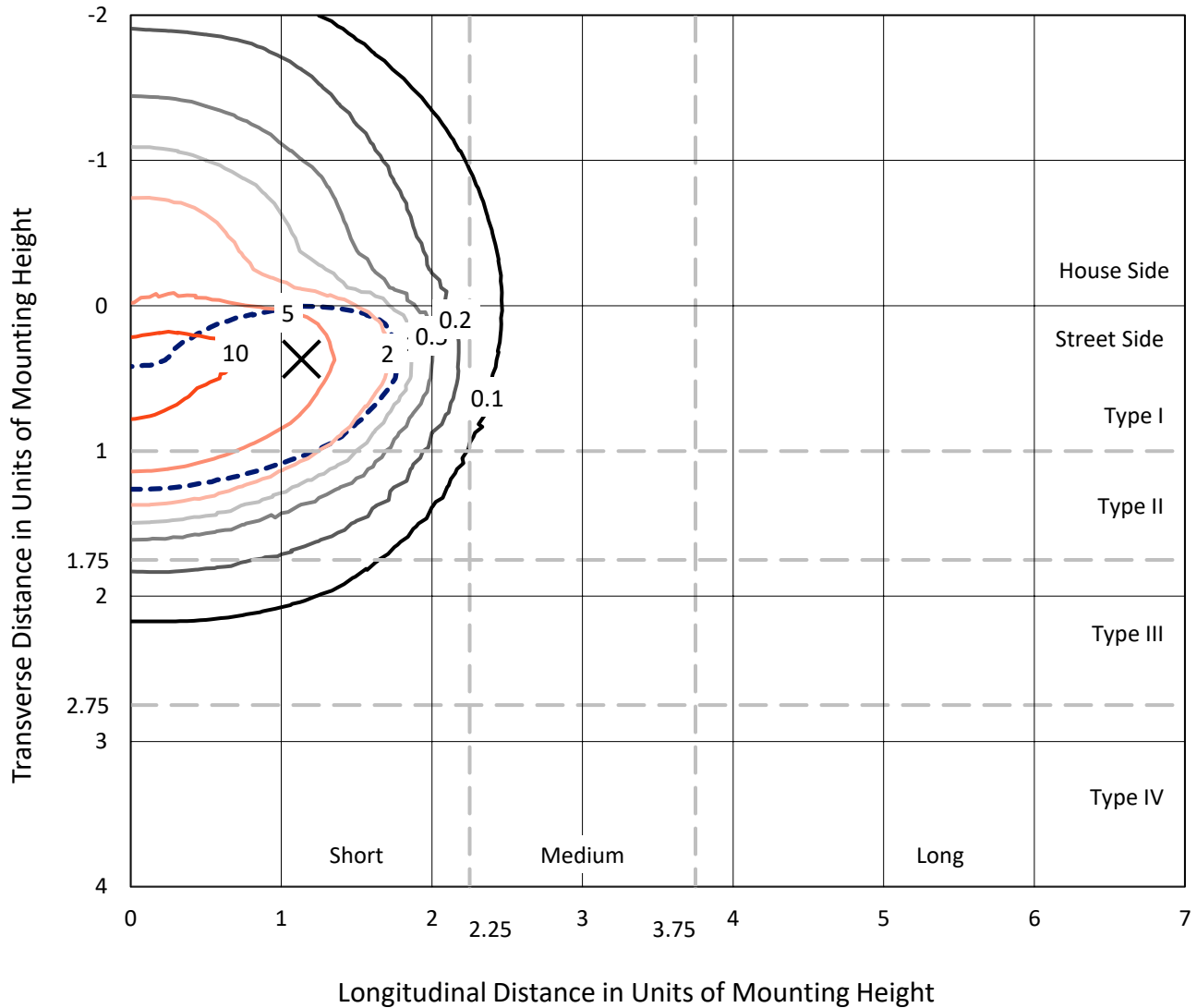
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

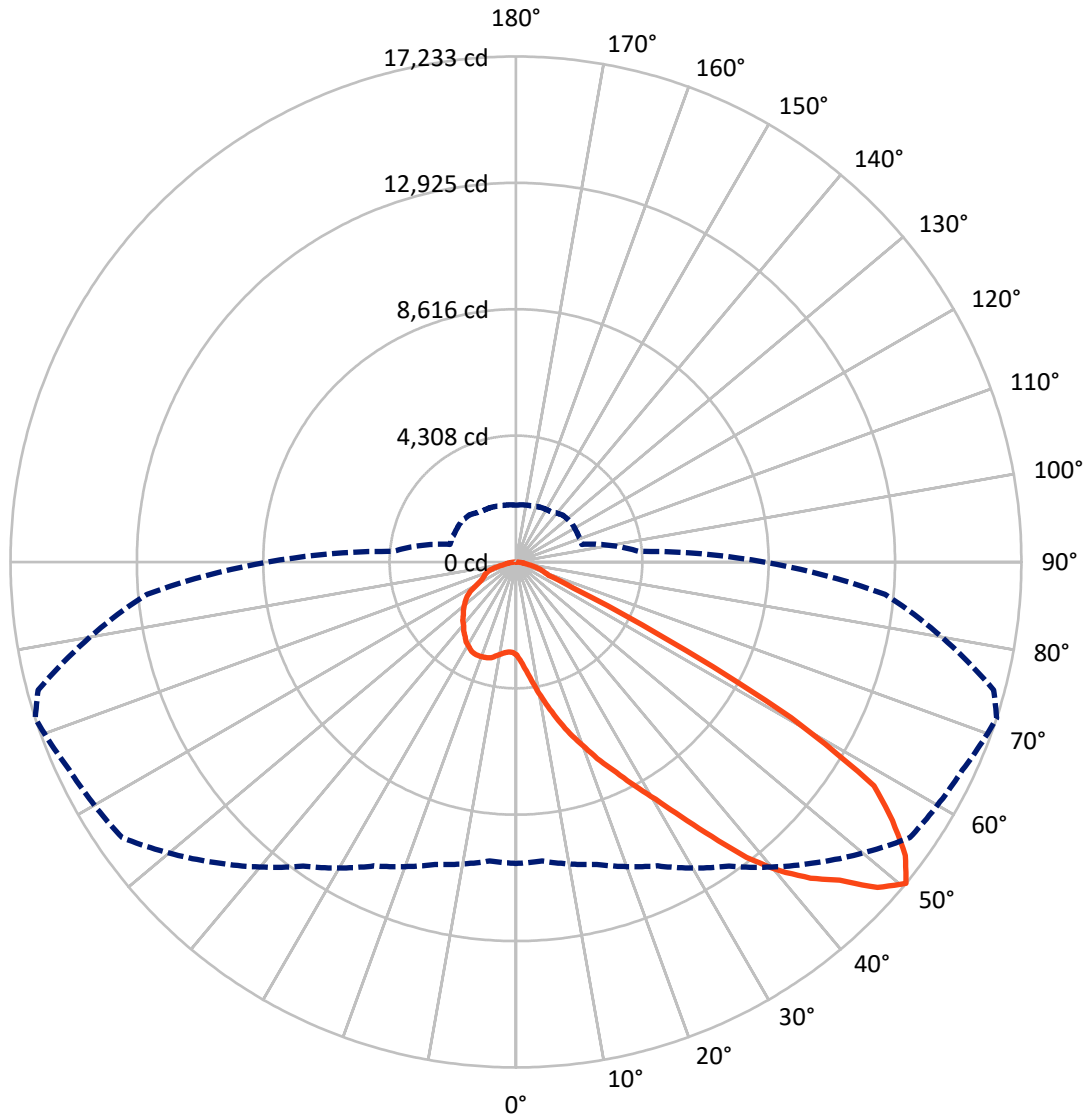
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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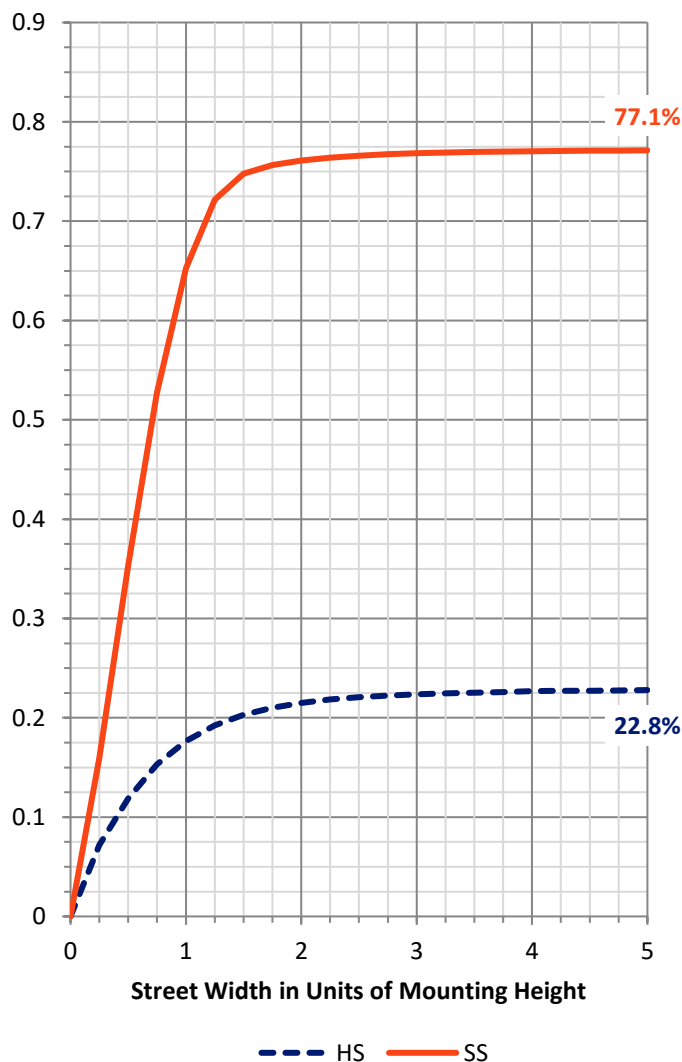
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5216.1	0.0	5216.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	17550.9	0.0	17550.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	22767.0	0.0	22767.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	372.8	1.6
10°-20°	1393.6	6.1
20°-30°	2702.2	11.9
30°-40°	4476.6	19.7
40°-50°	6263.7	27.5
50°-60°	5284.2	23.2
60°-70°	1610.6	7.1
70°-80°	565.0	2.5
80°-90°	98.2	0.4
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°	22767.0	100.0
0°-180°	22767.0	100.0



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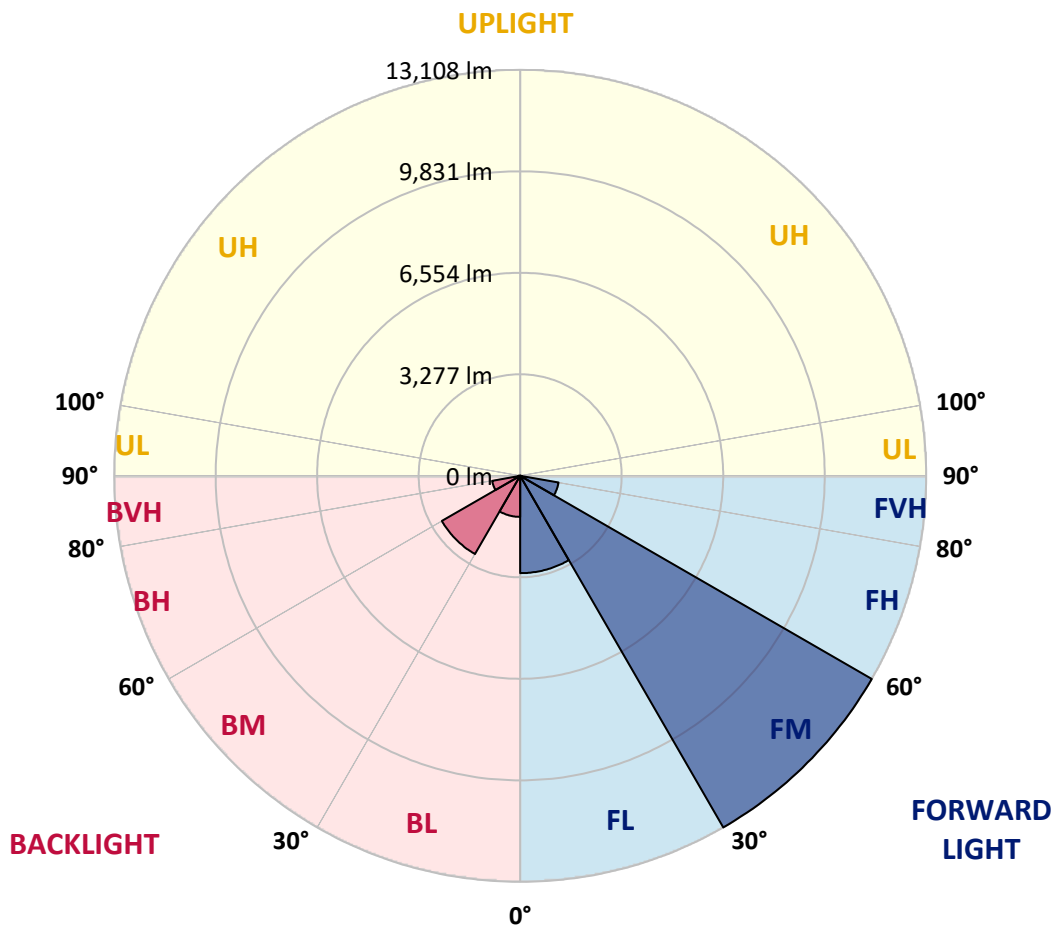
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3142.7	13.8			
FM (30°-60°)	13107.6	57.6			
FH (60°-80°)	1256.7	5.5			G1/1800
FVH (80°-90°)	44.0	0.2			G1/100
BL (0°-30°)	1325.9	5.8	B3/2500		
BM (30°-60°)	2916.9	12.8	B3/5000		
BH (60°-80°)	919.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	54.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4
2.5°	4076.5	4051.1	3975.1	3949.7	3859.6	3696.2	3639.8	3473.6	3403.2	3338.4	3262.3
5°	5155.5	5037.2	5028.7	4885.0	4676.6	4555.4	4194.8	3952.5	3730.0	3617.3	3408.8
7.5°	5842.9	5845.7	5845.7	5727.4	5561.2	5254.1	4930.1	4493.4	4158.2	3992.0	3637.0
10°	6496.5	6440.1	6409.2	6397.9	6285.2	5986.6	5640.1	5099.1	4639.9	4445.6	3808.9
12.5°	6958.5	6910.6	6981.0	6944.4	6862.7	6668.3	6341.5	5724.6	5149.9	4887.9	4085.0
15°	7178.2	7212.1	7268.4	7369.8	7333.2	7259.9	6899.3	6366.9	5699.2	5403.4	4330.1
17.5°	7516.3	7423.3	7491.0	7617.7	7719.2	7685.3	7479.7	6831.7	6242.9	5879.5	4659.7
20°	7753.0	7699.4	7733.2	7879.7	7955.8	8147.4	8040.3	7440.2	6764.1	6381.0	5048.4
22.5°	8429.1	8350.2	8240.3	8262.9	8291.0	8426.3	8451.6	8107.9	7369.8	6964.1	5417.5
25°	9263.0	9189.7	9060.1	8927.7	8846.0	8820.7	8908.0	8631.9	7950.2	7530.4	5814.7
27.5°	10181.4	10057.4	9975.7	9702.5	9482.7	9448.9	9406.7	9257.4	8637.6	8184.0	6262.7
30°	11074.5	10975.8	10866.0	10429.3	10201.1	10164.5	9956.0	9998.3	9384.1	8879.8	6769.8
32.5°	11750.6	11759.0	11508.3	11178.7	10964.6	10770.2	10694.1	10815.3	10342.0	9936.3	7336.0
35°	12297.1	12322.5	12083.0	11784.4	11553.4	11688.6	11654.8	11711.1	11485.8	10989.9	7995.2
37.5°	12829.6	12702.8	12446.4	12302.8	12181.6	12404.2	12691.5	12739.4	12781.7	12198.5	8761.5
40°	12916.9	12928.2	12778.9	12880.3	12728.2	13063.4	13731.1	13669.1	13840.9	13331.0	9592.6
42.5°	12792.9	12818.3	12877.5	13021.1	13387.4	13790.2	14781.9	14528.3	14736.8	14283.3	10401.1
45°	12590.1	12485.9	12559.1	13105.7	13739.5	14635.4	15742.6	15545.4	15477.7	15097.4	11364.6
47.5°	11621.0	11728.0	11956.2	12629.5	13581.8	14781.9	16424.3	16379.3	16582.1	16314.5	12240.8
50°	10277.2	10234.9	10674.4	11432.2	12660.5	14494.5	16387.7	16796.2	17232.9	16861.0	12632.4
52.5°	7696.6	7922.0	8299.5	9240.4	10992.8	12928.2	15587.6	16269.4	16624.4	16545.5	12316.8
55°	4865.3	4932.9	5161.1	6279.6	7857.2	10375.8	13362.0	14942.5	15576.4	15872.2	12026.7
57.5°	2363.6	2236.9	2515.8	3414.5	4538.5	6978.2	10305.4	13015.5	14393.1	14928.4	11395.6
60°	1233.9	1281.8	1391.7	1712.9	2346.7	3622.9	6423.2	8674.2	10778.6	11601.3	8637.6
62.5°	1022.6	1039.6	1112.8	1273.4	1560.7	2084.7	3279.2	4228.6	5496.4	6237.3	4913.2
65°	867.7	876.2	955.0	1062.1	1245.2	1467.8	1687.5	1766.4	2138.3	2194.6	1746.7
67.5°	724.0	732.5	817.0	918.4	1036.7	1095.9	1152.2	1146.6	1188.9	1172.0	1169.1
70°	557.8	566.3	653.6	760.6	819.8	786.0	960.7	1000.1	1017.0	1031.1	1053.6
72.5°	402.9	419.8	487.4	563.4	532.5	611.3	791.6	850.8	873.3	881.8	910.0
75°	293.0	298.6	315.5	293.0	338.1	425.4	557.8	631.1	659.2	667.7	709.9
77.5°	129.6	132.4	135.2	169.0	216.9	264.8	332.4	391.6	431.0	442.3	453.6
80°	67.6	70.4	87.3	115.5	154.9	194.4	242.3	276.1	301.4	304.3	315.5
82.5°	42.3	45.1	62.0	81.7	109.9	143.7	177.5	205.7	225.4	228.2	231.0
85°	19.7	25.4	36.6	50.7	73.2	93.0	95.8	81.7	87.3	90.2	84.5
87.5°	5.6	8.5	11.3	8.5	11.3	11.3	14.1	16.9	16.9	16.9	19.7
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°	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4	3169.4
2.5°	3220.1	3194.7	3096.1	3059.5	2963.7	2980.6	2929.9	2927.1	2915.8	2913.0	2910.2
5°	3299.0	3220.1	3101.7	3011.6	2958.1	2952.4	2915.8	2915.8	2927.1	2935.5	2915.8
7.5°	3428.5	3338.4	3138.4	3053.9	3006.0	2997.5	2972.2	2952.4	2977.8	2969.3	2946.8
10°	3577.9	3420.1	3208.8	3135.6	3056.7	3037.0	3037.0	3045.4	3003.1	3017.2	2994.7
12.5°	3744.1	3532.8	3299.0	3214.4	3121.5	3110.2	3104.6	3042.6	3065.1	3053.9	2997.5
15°	3955.4	3662.4	3414.5	3270.8	3191.9	3141.2	3067.9	3056.7	3042.6	3014.4	2989.1
17.5°	4183.6	3803.2	3468.0	3287.7	3169.4	3132.7	3076.4	3017.2	2975.0	2980.6	2960.9
20°	4377.9	3932.8	3487.7	3304.6	3152.5	3082.0	2994.7	2958.1	2913.0	2910.2	2907.4
22.5°	4609.0	4107.5	3515.9	3259.5	3101.7	3028.5	2969.3	2904.5	2873.6	2834.1	2853.8
25°	4885.0	4175.1	3521.5	3234.2	3065.1	2935.5	2904.5	2834.1	2822.8	2766.5	2777.8
27.5°	5085.1	4211.7	3476.4	3155.3	2980.6	2882.0	2825.7	2775.0	2755.2	2713.0	2701.7
30°	5352.7	4268.1	3380.7	3056.7	2896.1	2786.2	2752.4	2741.1	2684.8	2639.7	2634.1
32.5°	5657.0	4304.7	3318.7	2955.3	2808.8	2724.2	2741.1	2687.6	2617.2	2577.7	2566.5
35°	5899.2	4318.8	3163.7	2839.7	2749.6	2696.1	2676.3	2665.1	2563.7	2527.0	2498.9
37.5°	6268.3	4287.8	3034.1	2758.0	2684.8	2665.1	2648.2	2572.1	2456.6	2403.1	2363.6
40°	6699.3	4279.3	2867.9	2642.5	2622.8	2645.4	2594.6	2476.3	2315.7	2256.6	2228.4
42.5°	7113.5	4338.5	2763.7	2580.6	2555.2	2563.7	2493.2	2315.7	2236.9	2203.1	2158.0
45°	7806.5	4462.5	2591.8	2484.8	2473.5	2467.9	2383.4	2197.4	2152.3	2110.1	2101.6
47.5°	8431.9	4380.8	2482.0	2386.2	2397.4	2366.5	2186.2	2127.0	2076.3	2034.0	2019.9
50°	8468.5	4186.4	2327.0	2310.1	2312.9	2259.4	2087.6	2048.1	1983.3	1955.1	1935.4
52.5°	8277.0	3868.0	2183.3	2189.0	2197.4	2110.1	1966.4	1938.2	1884.7	1845.3	1834.0
55°	7738.9	3372.2	2042.5	2065.0	2087.6	1921.3	1876.3	1805.8	1763.6	1707.2	1710.0
57.5°	6817.6	2715.8	1845.3	1881.9	1929.8	1746.7	1712.9	1625.5	1563.6	1518.5	1512.8
60°	4569.5	1932.6	1549.5	1563.6	1670.6	1597.4	1594.5	1507.2	1422.7	1383.2	1360.7
62.5°	2696.1	1476.2	1338.2	1324.1	1321.3	1363.5	1434.0	1403.0	1293.1	1217.0	1239.6
65°	1411.4	1276.2	1245.2	1197.3	1169.1	1157.9	1211.4	1225.5	1152.2	1070.5	1064.9
67.5°	1186.0	1186.0	1160.7	1143.8	1104.3	1056.5	1022.6	977.6	966.3	943.8	915.6
70°	1079.0	1107.2	1098.7	1059.3	1025.5	971.9	884.6	811.4	740.9	715.6	732.5
72.5°	940.9	969.1	969.1	949.4	904.3	822.6	738.1	653.6	594.4	549.4	543.7
75°	724.0	738.1	771.9	749.4	690.2	639.5	552.2	464.8	408.5	366.2	357.8
77.5°	462.0	484.6	484.6	481.7	439.5	391.6	335.2	273.3	231.0	200.0	191.6
80°	307.1	321.2	332.4	321.2	293.0	256.4	214.1	171.8	140.9	115.5	109.9
82.5°	225.4	242.3	250.7	239.5	211.3	183.1	152.1	121.1	90.2	70.4	64.8
85°	87.3	90.2	101.4	121.1	118.3	115.5	93.0	67.6	50.7	36.6	33.8
87.5°	22.5	19.7	22.5	22.5	19.7	16.9	16.9	16.9	16.9	8.5	11.3
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)