

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: P651862

Luminaire Tested: **GALN-SA4A-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651862  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12971.6 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

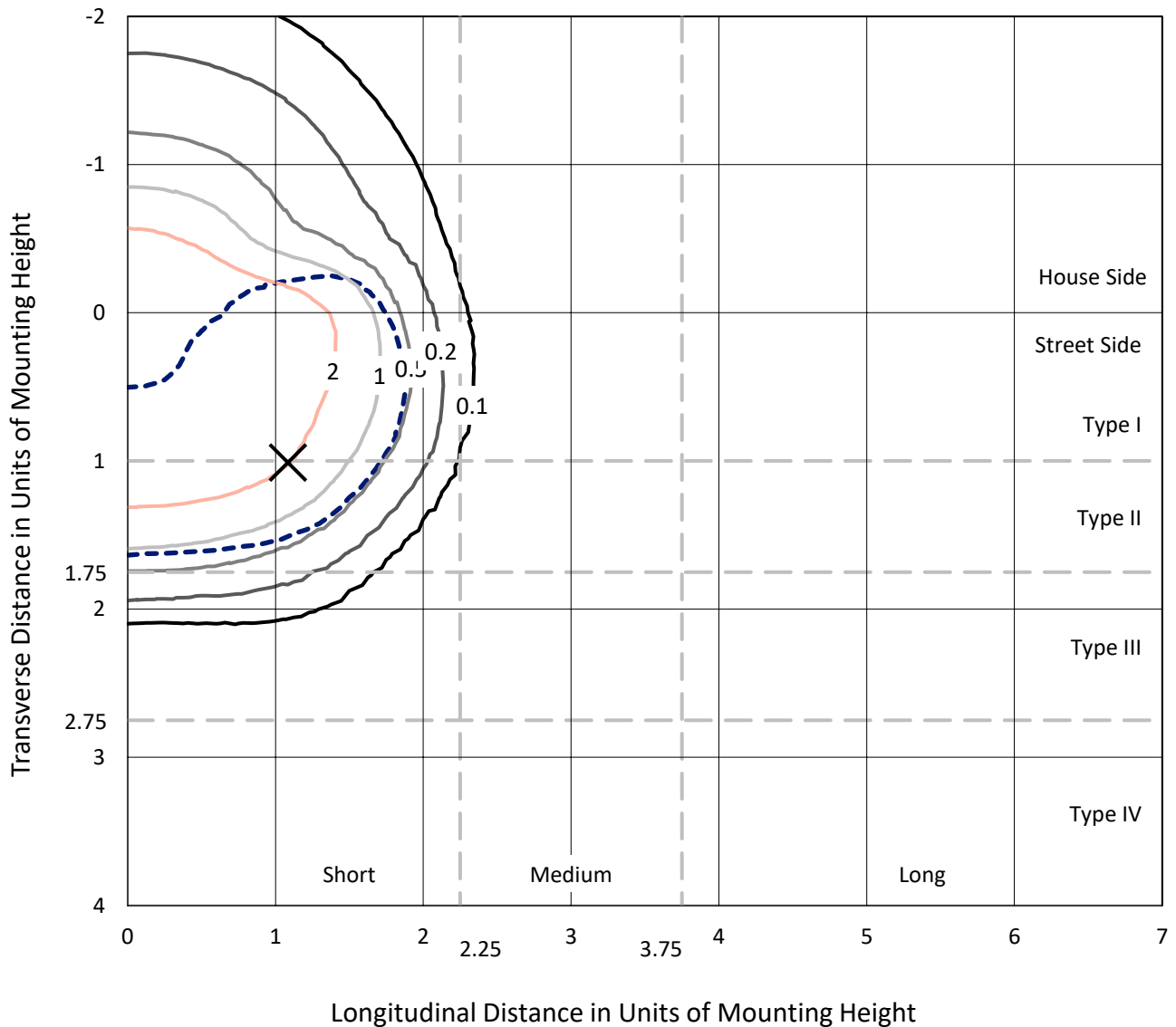
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

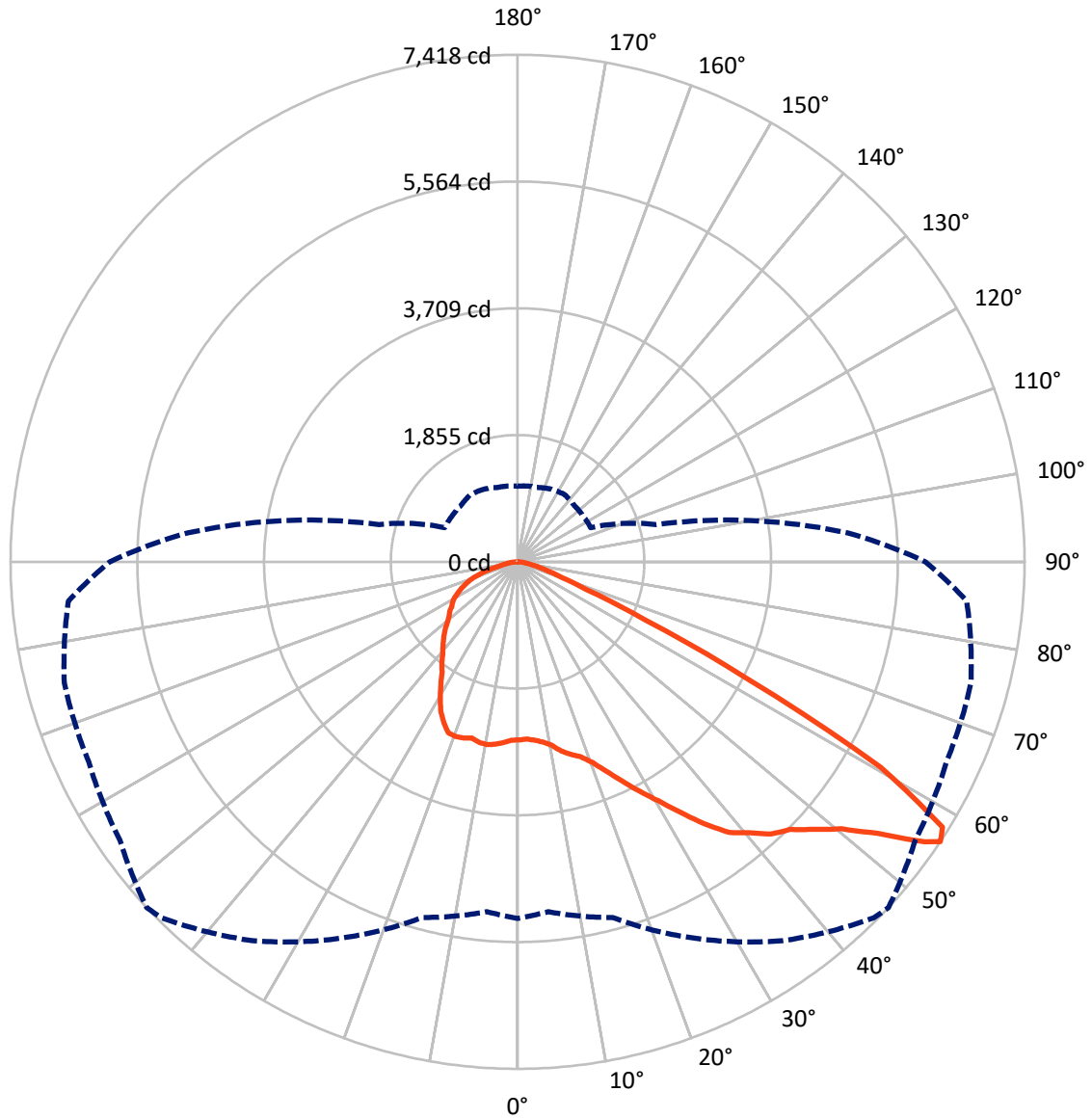
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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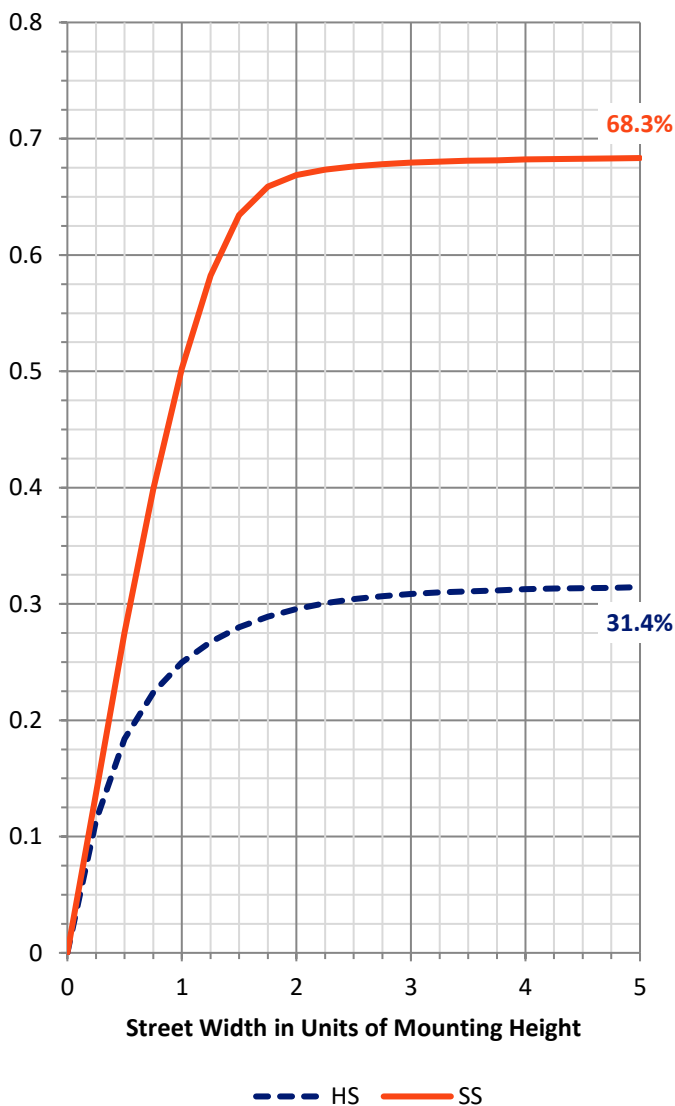
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4110.5	0.0	4110.5
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	8861.0	0.0	8861.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	12971.6	0.0	12971.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.9	2.0
10°-20°	800.9	6.2
20°-30°	1415.7	10.9
30°-40°	2126.4	16.4
40°-50°	2918.3	22.5
50°-60°	3476.7	26.8
60°-70°	1487.8	11.5
70°-80°	421.1	3.2
80°-90°	70.9	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°	12971.6	100.0
0°-180°	12971.6	100.0

**Coefficient of Utilization**



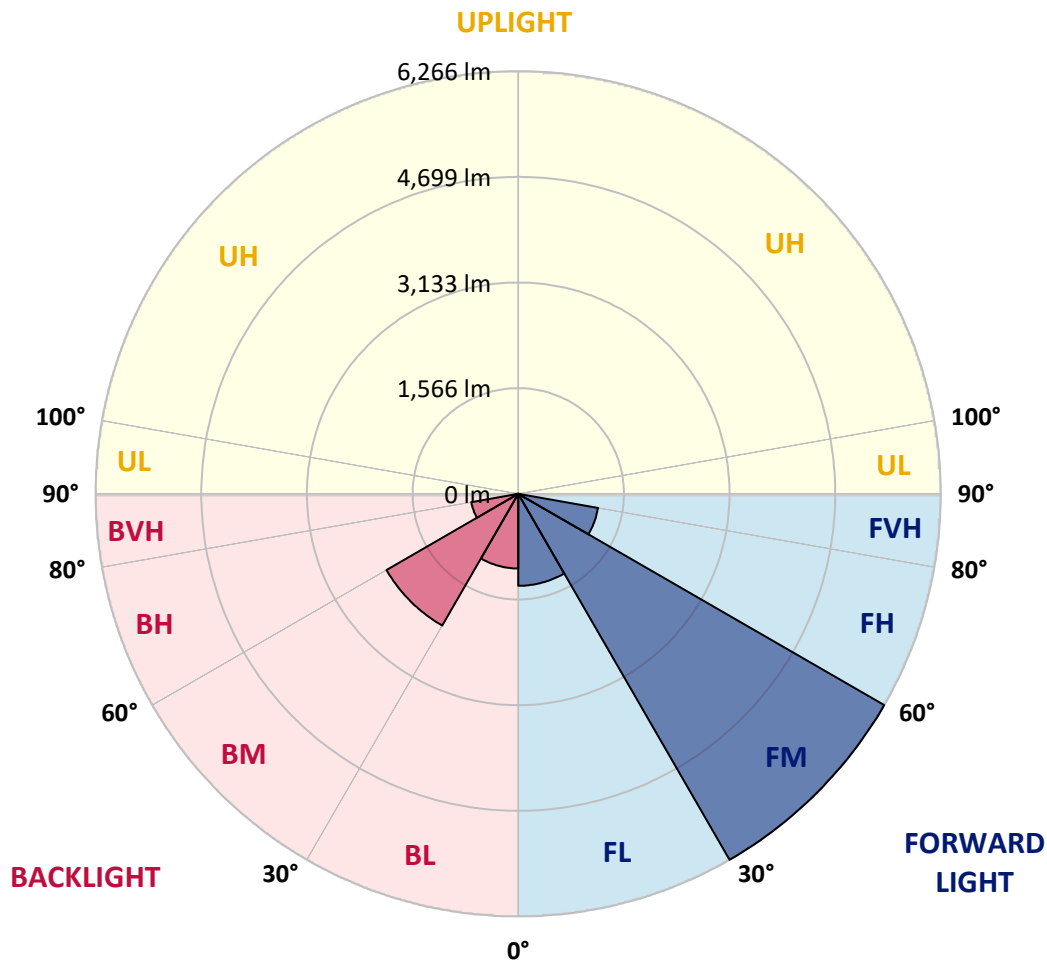
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1363.8	10.5			
FM (30°-60°)	6265.6	48.3			
FH (60°-80°)	1201.6	9.3			G1/1800
FVH (80°-90°)	30.1	0.2			G1/100
BL (0°-30°)	1106.7	8.5	B3/2500		
BM (30°-60°)	2255.8	17.4	B2/2500		
BH (60°-80°)	707.2	5.5	B2/1000		G2/1000
BVH (80°-90°)	40.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6
2.5°	2595.7	2590.7	2587.4	2613.8	2603.9	2605.6	2595.7	2605.6	2612.2	2597.3	2618.8
5°	2590.7	2605.6	2592.4	2600.6	2622.2	2615.5	2622.2	2642.0	2637.0	2632.1	2625.4
7.5°	2637.0	2638.7	2648.6	2651.9	2658.6	2651.9	2661.8	2680.0	2675.1	2647.0	2650.2
10°	2703.2	2706.5	2708.2	2726.4	2738.0	2739.6	2728.0	2711.5	2709.8	2747.9	2721.4
12.5°	2779.3	2771.0	2790.9	2797.5	2810.7	2825.6	2840.5	2805.7	2827.3	2829.0	2797.5
15°	2890.2	2898.4	2875.3	2875.3	2880.3	2881.9	2923.2	2906.7	2903.4	2885.2	2898.4
17.5°	3055.6	2999.3	2997.7	2974.5	2971.2	2984.5	2999.3	3012.5	3057.2	3020.9	2949.7
20°	3176.4	3189.6	3141.6	3113.5	3118.4	3148.2	3133.3	3192.9	3224.3	3164.8	3095.3
22.5°	3389.7	3345.1	3356.7	3293.8	3298.7	3330.2	3328.5	3389.7	3408.0	3313.6	3212.7
25°	3533.7	3522.1	3532.0	3482.4	3489.1	3513.9	3553.6	3654.5	3624.7	3520.4	3287.2
27.5°	3743.8	3720.7	3712.3	3694.2	3687.5	3753.7	3800.1	3907.5	3886.1	3733.9	3419.5
30°	3958.8	3944.0	3952.2	3877.8	3904.3	4044.9	4058.1	4205.3	4195.4	3927.4	3566.8
32.5°	4107.8	4116.0	4130.9	4089.5	4207.0	4319.5	4364.2	4531.2	4539.5	4259.9	3851.4
35°	4347.6	4319.5	4327.8	4375.7	4430.3	4635.5	4708.3	4819.1	4888.6	4609.0	4124.3
37.5°	4498.2	4527.9	4493.2	4569.3	4711.6	4958.1	5024.2	5138.4	5211.2	4953.2	4496.5
40°	4733.1	4685.1	4709.9	4764.5	4910.1	5231.0	5212.9	5330.3	5353.5	5245.9	4843.9
42.5°	4986.2	4963.1	4928.3	5052.4	5174.8	5408.1	5444.5	5389.9	5507.3	5532.1	5340.3
45°	5289.0	5317.1	5322.0	5325.4	5432.9	5636.4	5586.8	5538.7	5674.4	5854.7	5647.9
47.5°	5570.2	5480.9	5545.4	5634.7	5786.9	5788.6	5846.5	5732.3	5876.2	6036.7	5925.9
50°	5664.5	5621.5	5707.5	5876.2	6111.1	6135.9	6142.6	5980.4	6054.9	6182.3	6021.8
52.5°	5628.1	5613.2	5833.3	6094.6	6438.7	6564.4	6597.6	6397.4	6438.7	6380.8	6233.6
55°	5454.4	5499.0	5720.7	6253.4	6781.2	7169.9	7232.8	6979.7	6716.6	6761.3	6599.2
56°	5216.1	5138.4	5386.5	6073.1	6766.3	7366.8	7418.1	7102.1	6923.4	6865.5	6595.9
57.5°	4425.3	4324.4	4650.4	5464.3	6390.8	7292.4	7330.4	7153.4	6888.7	6771.2	6114.5
60°	2590.7	2640.3	3053.9	3768.6	4929.9	5978.8	6106.2	6235.3	6058.2	5532.1	4551.1
62.5°	1250.7	1219.3	1515.4	2160.6	3004.3	3816.5	3778.5	4140.8	4339.4	3930.7	2873.6
65°	655.1	651.8	827.2	1179.6	1651.1	2005.0	2039.8	2235.0	2508.0	2025.0	1459.1
67.5°	481.4	494.7	582.3	828.8	1062.1	1083.6	1078.7	1176.2	1202.7	1017.4	896.7
70°	377.2	383.8	448.3	630.3	790.8	708.0	693.2	704.8	782.5	815.6	775.9
72.5°	273.0	279.5	334.2	425.1	494.7	483.1	493.0	557.5	653.5	688.2	646.8
75°	182.0	187.0	216.7	259.7	292.8	316.0	334.2	408.6	498.0	517.8	498.0
77.5°	125.7	130.7	150.5	183.7	187.0	201.8	208.5	243.2	297.8	322.6	309.4
80°	71.1	71.1	81.1	94.3	115.8	135.7	138.9	167.1	191.9	208.5	211.8
82.5°	33.1	34.7	43.0	57.9	76.1	94.3	97.6	115.8	134.0	150.5	155.5
85°	16.6	18.2	24.8	34.7	46.3	56.3	54.6	56.3	59.5	56.3	57.9
87.5°	5.0	5.0	6.6	8.2	6.6	8.2	8.2	9.9	11.6	13.2	14.9
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°	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6	2605.6
2.5°	2620.5	2625.4	2592.4	2623.8	2612.2	2610.5	2633.8	2630.4	2638.7	2635.4	2615.5
5°	2622.2	2610.5	2645.3	2613.8	2628.8	2660.2	2638.7	2688.3	2663.5	2680.0	2643.7
7.5°	2673.5	2676.7	2670.1	2683.4	2676.7	2691.6	2680.0	2691.6	2671.8	2673.5	2706.5
10°	2718.1	2708.2	2719.7	2703.2	2714.7	2709.8	2683.4	2675.1	2681.7	2673.5	2694.9
12.5°	2800.8	2782.6	2774.4	2754.5	2741.2	2691.6	2650.2	2627.1	2658.6	2663.5	2653.6
15°	2885.2	2886.8	2848.8	2804.1	2721.4	2647.0	2656.9	2665.1	2665.1	2678.4	2653.6
17.5°	2938.1	2938.1	2903.4	2814.1	2729.6	2686.7	2676.7	2650.2	2627.1	2623.8	2622.2
20°	3030.8	3002.6	2923.2	2812.4	2726.4	2706.5	2632.1	2569.2	2521.2	2504.7	2503.1
22.5°	3136.7	3065.5	2954.7	2815.7	2721.4	2693.3	2554.3	2460.0	2374.0	2337.6	2342.5
25°	3234.2	3120.1	2972.9	2800.8	2703.2	2567.6	2412.1	2281.4	2192.0	2162.2	2147.3
27.5°	3302.1	3178.0	2972.9	2814.1	2635.4	2427.0	2268.1	2101.0	2023.3	2003.4	2006.7
30°	3393.1	3250.8	3024.2	2785.9	2499.7	2245.0	2054.7	1945.5	1899.2	1882.7	1894.3
32.5°	3606.5	3441.0	3095.3	2718.1	2339.2	2063.0	1909.2	1847.9	1780.1	1747.0	1735.4
35°	3838.1	3621.3	3164.8	2603.9	2158.9	1897.5	1801.6	1745.3	1664.3	1627.8	1634.5
37.5°	4165.6	3853.0	3169.7	2415.4	1963.7	1804.9	1717.2	1629.5	1563.3	1507.1	1490.6
40°	4607.3	4168.9	3158.1	2216.8	1806.6	1695.7	1631.2	1522.0	1447.5	1407.8	1416.2
42.5°	4996.1	4539.5	3110.2	1991.8	1664.3	1621.3	1548.4	1441.0	1368.1	1326.8	1323.5
45°	5323.7	4812.5	3019.2	1799.9	1545.2	1538.5	1454.2	1371.4	1313.6	1275.5	1292.0
47.5°	5626.5	5032.5	2881.9	1608.0	1436.0	1449.2	1368.1	1316.8	1280.5	1245.7	1244.1
50°	5735.6	5029.2	2761.1	1449.2	1348.3	1341.6	1338.4	1283.8	1245.7	1215.9	1229.2
52.5°	5917.6	5085.4	2630.4	1340.0	1268.9	1270.5	1282.1	1242.4	1199.4	1181.2	1197.8
55°	6179.0	5093.8	2342.5	1212.6	1202.7	1214.3	1214.3	1187.8	1151.4	1136.5	1128.3
56°	5965.5	4847.3	2101.0	1179.6	1169.7	1169.7	1201.0	1171.3	1126.6	1115.0	1105.1
57.5°	5502.3	4246.7	1758.5	1139.8	1124.9	1148.1	1164.7	1133.2	1091.9	1075.3	1085.2
60°	3795.1	2873.6	1321.8	1053.9	1053.9	1091.9	1105.1	1058.8	1040.6	1039.0	1025.7
62.5°	2215.2	1674.2	1033.9	976.1	979.3	1010.8	1020.7	994.2	971.1	999.2	1012.5
65°	1174.6	999.2	886.8	893.3	895.0	919.8	962.9	961.2	959.5	967.8	969.4
67.5°	850.3	830.5	805.7	799.0	802.4	820.6	863.5	896.7	895.0	875.1	860.3
70°	757.7	729.6	714.7	716.4	703.1	724.6	759.3	780.9	742.8	719.6	709.7
72.5°	630.3	622.0	612.1	613.8	587.3	582.3	542.6	542.6	532.7	526.0	537.7
75°	481.4	478.1	483.1	474.8	446.7	416.9	393.8	372.2	339.2	325.9	319.3
77.5°	304.4	314.4	325.9	307.7	296.1	274.6	251.5	229.9	203.5	188.6	188.6
80°	206.8	215.0	223.4	220.0	206.8	187.0	168.7	145.6	127.4	115.8	114.1
82.5°	157.2	163.7	175.3	162.1	148.9	132.4	117.5	100.9	84.4	71.1	71.1
85°	56.3	64.5	71.1	77.8	82.8	84.4	72.8	59.5	47.9	38.0	36.4
87.5°	14.9	16.6	18.2	16.6	16.6	16.6	18.2	16.6	14.9	11.6	11.6
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)