

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: P652302

Luminaire Tested: **GALN-SA3B-840-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652302  
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-SA3B-840-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA 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: 12180.2 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

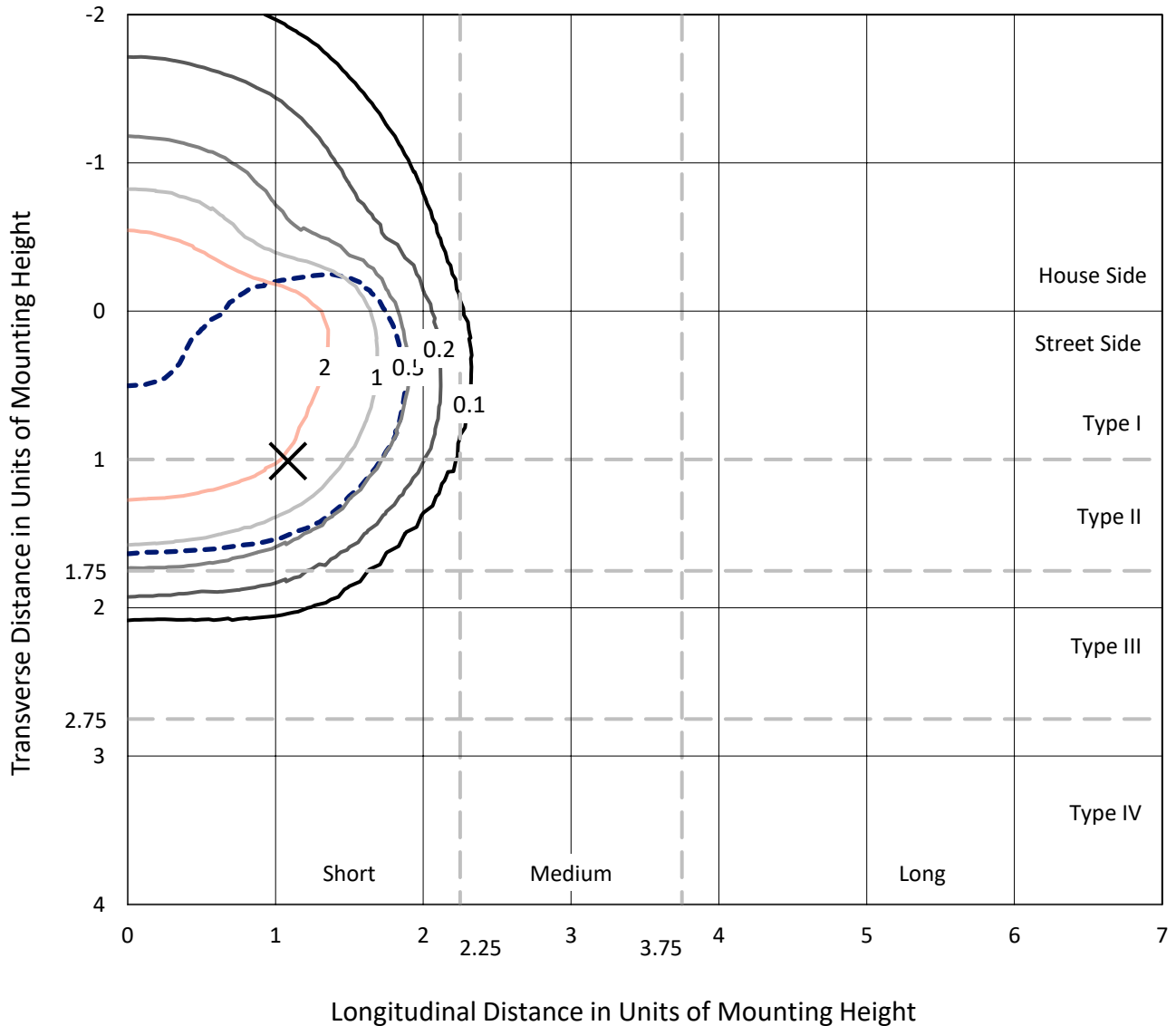
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

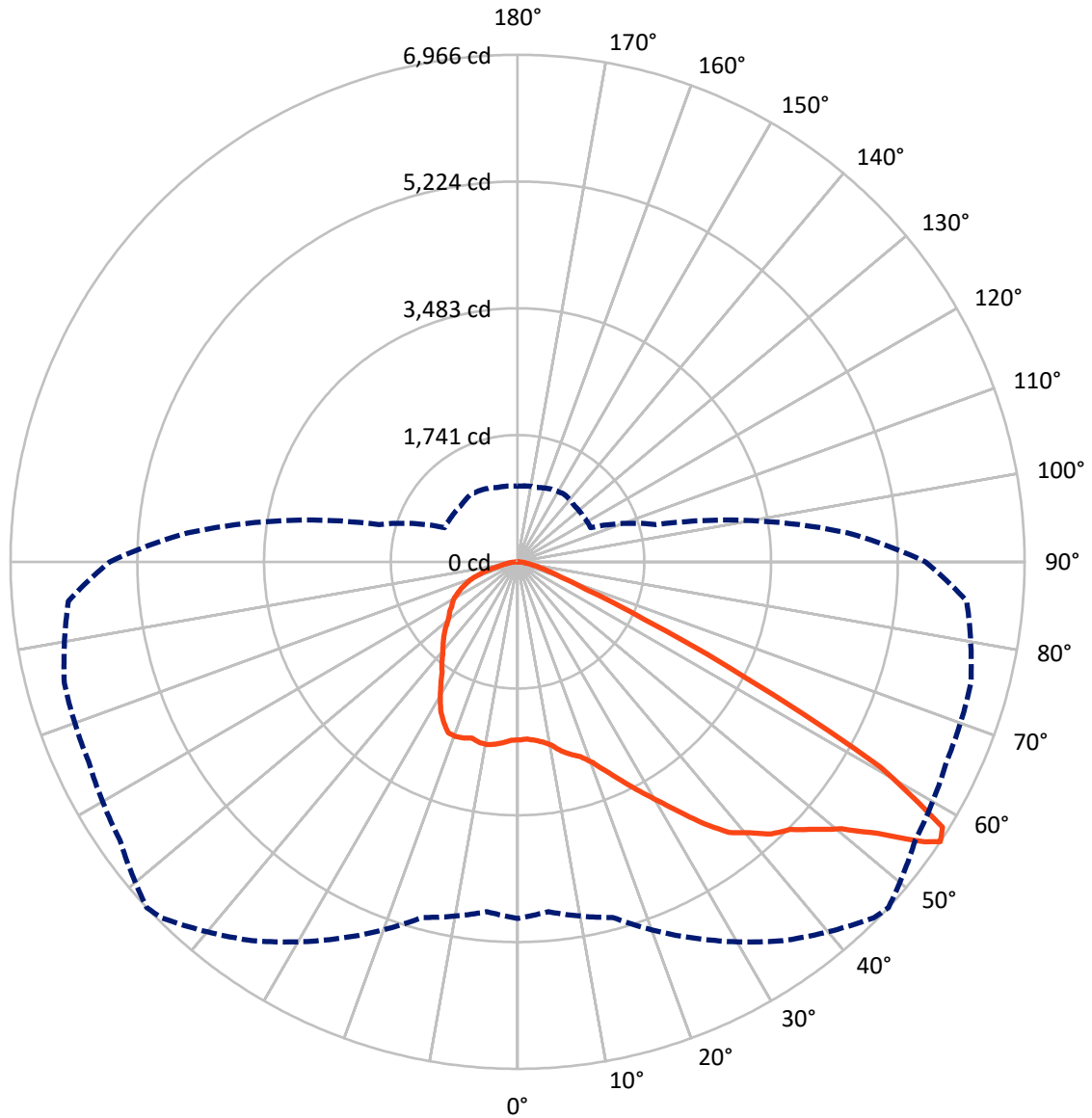
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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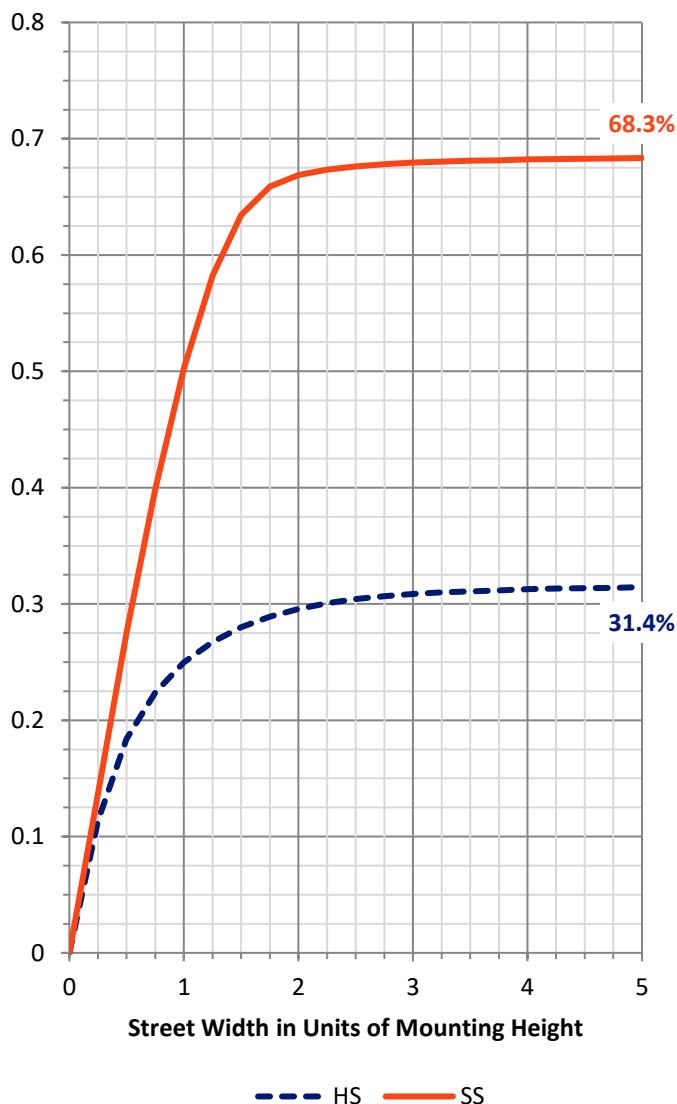
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3859.8	0.0	3859.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	8320.4	0.0	8320.4
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	12180.2	0.0	12180.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	238.4	2.0
10°-20°	752.0	6.2
20°-30°	1329.4	10.9
30°-40°	1996.7	16.4
40°-50°	2740.2	22.5
50°-60°	3264.6	26.8
60°-70°	1397.1	11.5
70°-80°	395.4	3.2
80°-90°	66.5	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°	12180.2	100.0
0°-180°	12180.2	100.0

**Coefficient of Utilization**

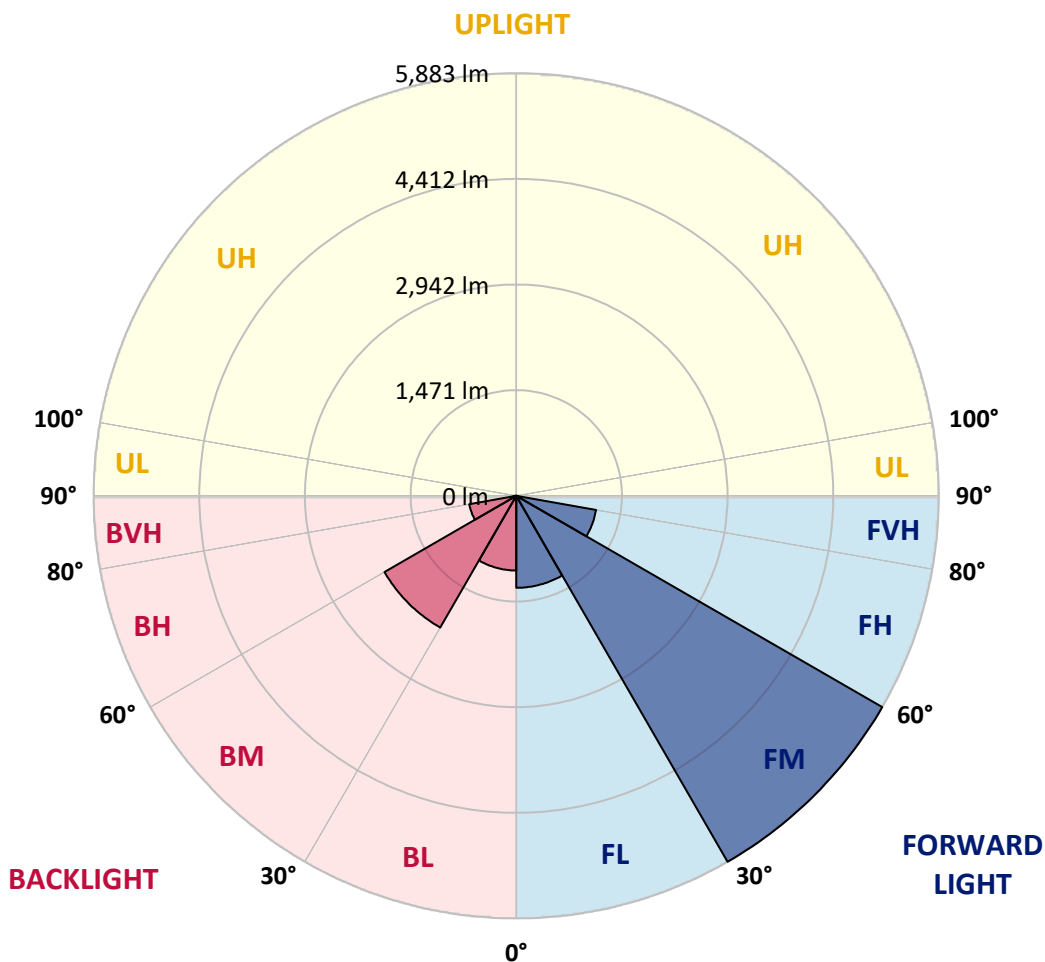


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.6	10.5			
FM (30°-60°)	5883.3	48.3			
FH (60°-80°)	1128.3	9.3			G1/1800
FVH (80°-90°)	28.2	0.2			G1/100
BL (0°-30°)	1039.2	8.5	B3/2500		
BM (30°-60°)	2118.2	17.4	B2/2500		
BH (60°-80°)	664.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	38.3	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°	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6
2.5°	2437.3	2432.7	2429.6	2454.4	2445.0	2446.6	2437.3	2446.6	2452.9	2438.9	2459.1
5°	2432.7	2446.6	2434.2	2442.0	2462.2	2456.0	2462.2	2480.8	2476.2	2471.4	2465.3
7.5°	2476.2	2477.7	2487.0	2490.1	2496.3	2490.1	2499.5	2516.5	2511.9	2485.5	2488.6
10°	2538.3	2541.4	2542.9	2560.0	2570.9	2572.5	2561.6	2546.0	2544.5	2580.2	2555.4
12.5°	2609.7	2602.0	2620.6	2626.9	2639.2	2653.3	2667.2	2634.6	2654.8	2656.4	2626.9
15°	2713.8	2721.6	2699.9	2699.9	2704.5	2706.1	2744.9	2729.4	2726.3	2709.2	2721.6
17.5°	2869.2	2816.3	2814.8	2793.0	2789.9	2802.4	2816.3	2828.8	2870.8	2836.5	2769.7
20°	2982.5	2995.0	2950.0	2923.6	2928.2	2956.1	2942.2	2998.1	3027.6	2971.7	2906.4
22.5°	3182.9	3141.1	3151.9	3092.9	3097.5	3127.0	3125.5	3182.9	3200.0	3111.5	3016.8
25°	3318.1	3307.2	3316.6	3270.0	3276.2	3299.5	3336.8	3431.5	3403.5	3305.6	3086.6
27.5°	3515.4	3493.6	3485.9	3468.8	3462.6	3524.7	3568.2	3669.2	3649.0	3506.0	3210.9
30°	3717.3	3703.3	3711.1	3641.2	3666.1	3798.1	3810.6	3948.7	3939.5	3687.8	3349.2
32.5°	3857.2	3864.9	3878.9	3840.1	3950.3	4056.0	4097.9	4254.8	4262.6	4000.0	3616.4
35°	4082.4	4056.0	4063.7	4108.8	4160.1	4352.7	4421.1	4525.1	4590.3	4327.8	3872.6
37.5°	4223.8	4251.7	4219.0	4290.5	4424.2	4655.6	4717.8	4824.9	4893.3	4650.9	4222.2
40°	4444.3	4399.3	4422.6	4473.9	4610.5	4911.9	4894.8	5005.1	5026.8	4925.9	4548.4
42.5°	4682.0	4660.2	4627.6	4744.2	4859.1	5078.1	5112.3	5061.1	5171.3	5194.6	5014.5
45°	4966.3	4992.7	4997.3	5000.4	5101.4	5292.5	5245.9	5200.8	5328.2	5497.5	5303.3
47.5°	5230.3	5146.5	5207.1	5290.9	5433.9	5435.4	5489.8	5382.6	5517.7	5668.4	5564.3
50°	5318.9	5278.5	5359.3	5517.7	5738.3	5761.6	5767.8	5615.6	5685.5	5805.1	5654.5
52.5°	5284.8	5270.7	5477.3	5722.8	6045.9	6163.9	6195.1	6007.1	6045.9	5991.5	5853.3
55°	5121.6	5163.6	5371.7	5871.9	6367.5	6732.5	6791.6	6553.8	6306.9	6348.8	6196.6
56°	4897.9	4824.9	5057.9	5702.6	6353.5	6917.4	6965.5	6668.8	6501.0	6446.7	6193.5
57.5°	4155.4	4060.6	4366.6	5130.9	6000.9	6847.5	6883.2	6717.0	6468.5	6358.1	5741.4
60°	2432.7	2479.3	2867.6	3538.7	4629.2	5614.0	5733.7	5854.8	5688.6	5194.6	4273.5
62.5°	1174.4	1144.9	1423.0	2028.7	2821.0	3583.8	3548.0	3888.2	4074.6	3690.9	2698.3
65°	615.2	612.1	776.7	1107.6	1550.3	1882.7	1915.4	2098.6	2355.0	1901.4	1370.1
67.5°	452.0	464.5	546.8	778.3	997.3	1017.5	1012.8	1104.5	1129.3	955.4	841.9
70°	354.1	360.4	421.0	591.8	742.5	664.9	650.8	661.8	734.8	765.8	728.6
72.5°	256.3	262.6	313.8	399.2	464.5	453.6	462.9	523.5	613.6	646.2	607.4
75°	170.9	175.5	203.5	243.9	274.9	296.7	313.8	383.7	467.6	486.2	467.6
77.5°	118.1	122.7	141.4	172.4	175.5	189.5	195.7	228.3	279.6	302.9	290.5
80°	66.8	66.8	76.1	88.6	108.7	127.4	130.5	156.9	180.2	195.7	198.8
82.5°	31.0	32.6	40.4	54.3	71.5	88.6	91.7	108.7	125.8	141.4	146.0
85°	15.6	17.1	23.3	32.6	43.5	52.8	51.3	52.8	55.9	52.8	54.3
87.5°	4.6	4.6	6.2	7.7	6.2	7.7	7.7	9.3	10.8	12.4	14.0
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°	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6	2446.6
2.5°	2460.6	2465.3	2434.2	2463.7	2452.9	2451.3	2473.0	2469.9	2477.7	2474.6	2456.0
5°	2462.2	2451.3	2483.9	2454.4	2468.4	2497.9	2477.7	2524.3	2501.0	2516.5	2482.4
7.5°	2510.3	2513.4	2507.2	2519.6	2513.4	2527.4	2516.5	2527.4	2508.8	2510.3	2541.4
10°	2552.3	2542.9	2553.8	2538.3	2549.2	2544.5	2519.6	2511.9	2518.1	2510.3	2530.5
12.5°	2630.0	2612.8	2605.1	2586.4	2574.0	2527.4	2488.6	2466.8	2496.3	2501.0	2491.7
15°	2709.2	2710.7	2675.0	2633.0	2555.4	2485.5	2494.8	2502.6	2502.6	2515.0	2491.7
17.5°	2758.9	2758.9	2726.3	2642.3	2563.1	2522.7	2513.4	2488.6	2466.8	2463.7	2462.2
20°	2845.9	2819.5	2744.9	2640.8	2560.0	2541.4	2471.4	2412.5	2367.4	2351.9	2350.3
22.5°	2945.3	2878.5	2774.4	2643.9	2555.4	2529.0	2398.4	2309.9	2229.2	2195.0	2199.6
25°	3036.9	2929.7	2791.5	2630.0	2538.3	2410.9	2264.9	2142.2	2058.3	2030.3	2016.3
27.5°	3100.6	2984.1	2791.5	2642.3	2474.6	2278.9	2129.7	1972.8	1899.8	1881.1	1884.3
30°	3186.0	3052.5	2839.6	2615.9	2347.2	2108.0	1929.3	1826.8	1783.3	1767.8	1778.6
32.5°	3386.5	3231.1	2906.4	2552.3	2196.5	1937.1	1792.7	1735.2	1671.5	1640.4	1629.5
35°	3603.9	3400.4	2971.7	2445.0	2027.2	1781.7	1691.7	1638.9	1562.7	1528.6	1534.7
37.5°	3911.5	3617.9	2976.4	2268.0	1843.9	1694.8	1612.4	1530.1	1468.0	1415.2	1399.6
40°	4326.3	3914.6	2965.5	2081.6	1696.3	1592.3	1531.6	1429.1	1359.2	1322.0	1329.7
42.5°	4691.4	4262.6	2920.5	1870.3	1562.7	1522.4	1454.0	1353.0	1284.7	1245.9	1242.7
45°	4998.9	4518.9	2835.0	1690.2	1450.9	1444.7	1365.4	1287.8	1233.4	1197.7	1213.2
47.5°	5283.2	4725.5	2706.1	1509.9	1348.4	1360.8	1284.7	1236.5	1202.4	1169.7	1168.1
50°	5385.7	4722.4	2592.6	1360.8	1266.0	1259.8	1256.7	1205.5	1169.7	1141.7	1154.2
52.5°	5556.6	4775.2	2469.9	1258.3	1191.4	1193.0	1203.9	1166.6	1126.3	1109.1	1124.7
55°	5802.0	4782.9	2199.6	1138.6	1129.3	1140.2	1140.2	1115.3	1081.2	1067.2	1059.4
56°	5601.6	4551.5	1972.8	1107.6	1098.3	1098.3	1127.8	1099.9	1057.9	1047.0	1037.7
57.5°	5166.7	3987.6	1651.3	1070.3	1056.3	1078.1	1093.6	1064.1	1025.3	1009.7	1019.0
60°	3563.6	2698.3	1241.1	989.5	989.5	1025.3	1037.7	994.1	977.1	975.6	963.1
62.5°	2080.0	1572.1	970.9	916.5	919.6	949.2	958.5	933.6	911.9	938.3	950.7
65°	1102.9	938.3	832.6	838.8	840.4	863.7	904.1	902.6	901.0	908.8	910.3
67.5°	798.4	779.8	756.5	750.3	753.4	770.5	810.9	841.9	840.4	821.7	807.8
70°	711.5	685.1	671.1	672.6	660.2	680.4	713.0	733.2	697.5	675.7	666.4
72.5°	591.8	584.1	574.7	576.3	551.4	546.8	509.6	509.6	500.2	494.0	504.9
75°	452.0	448.9	453.6	445.8	419.4	391.5	369.7	349.5	318.5	306.0	299.8
77.5°	285.9	295.2	306.0	289.0	278.0	257.9	236.2	215.9	191.1	177.1	177.1
80°	194.2	201.9	209.7	206.6	194.2	175.5	158.4	136.7	119.6	108.7	107.2
82.5°	147.6	153.8	164.7	152.2	139.8	124.3	110.3	94.8	79.2	66.8	66.8
85°	52.8	60.6	66.8	73.0	77.7	79.2	68.4	55.9	45.1	35.7	34.1
87.5°	14.0	15.6	17.1	15.6	15.6	15.6	17.1	15.6	14.0	10.8	10.8
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)