

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: P647347

Luminaire Tested: **GALN-SA3D-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647347  
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-SA3D-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 1200mA 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: 15889.4 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

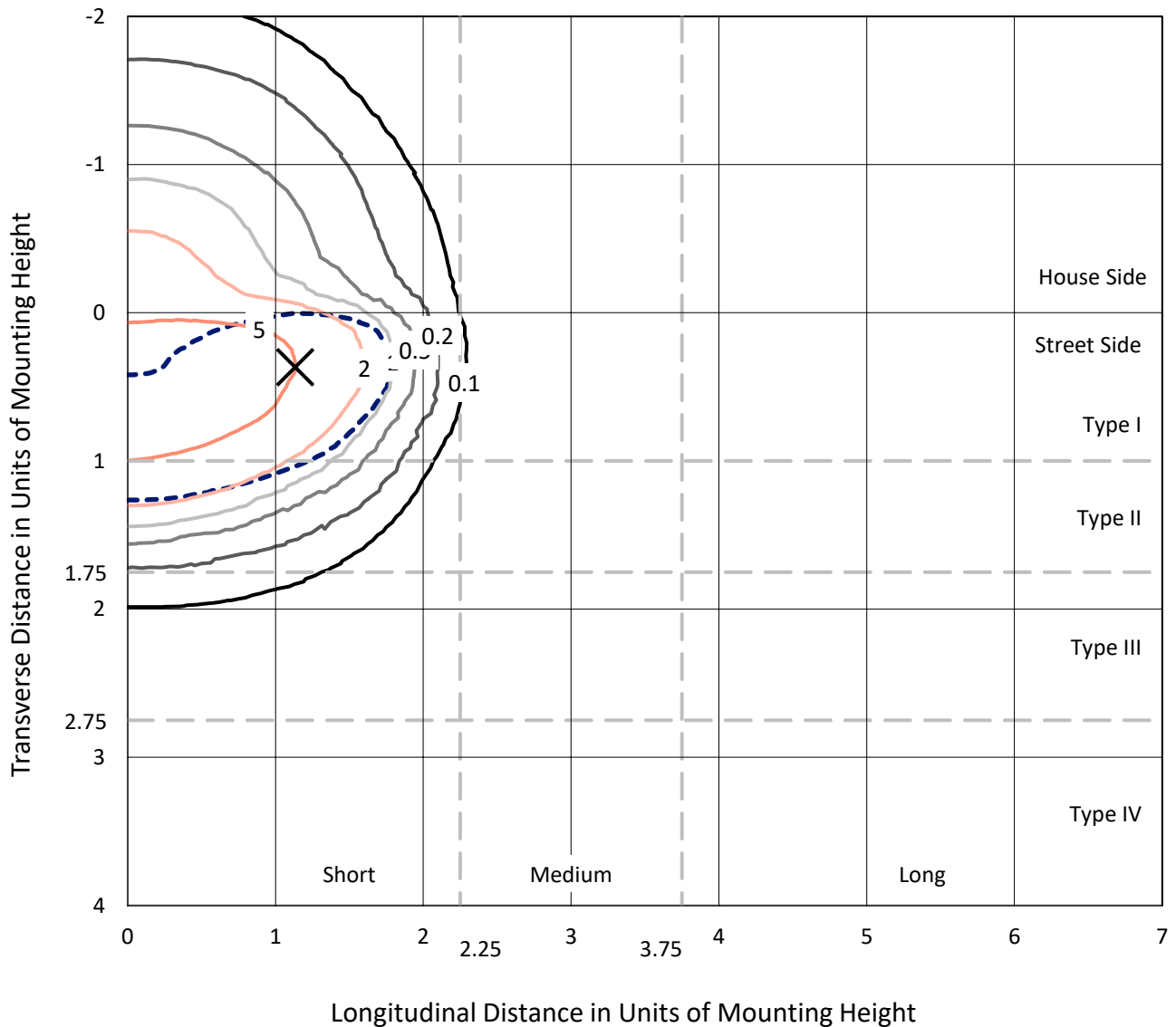
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

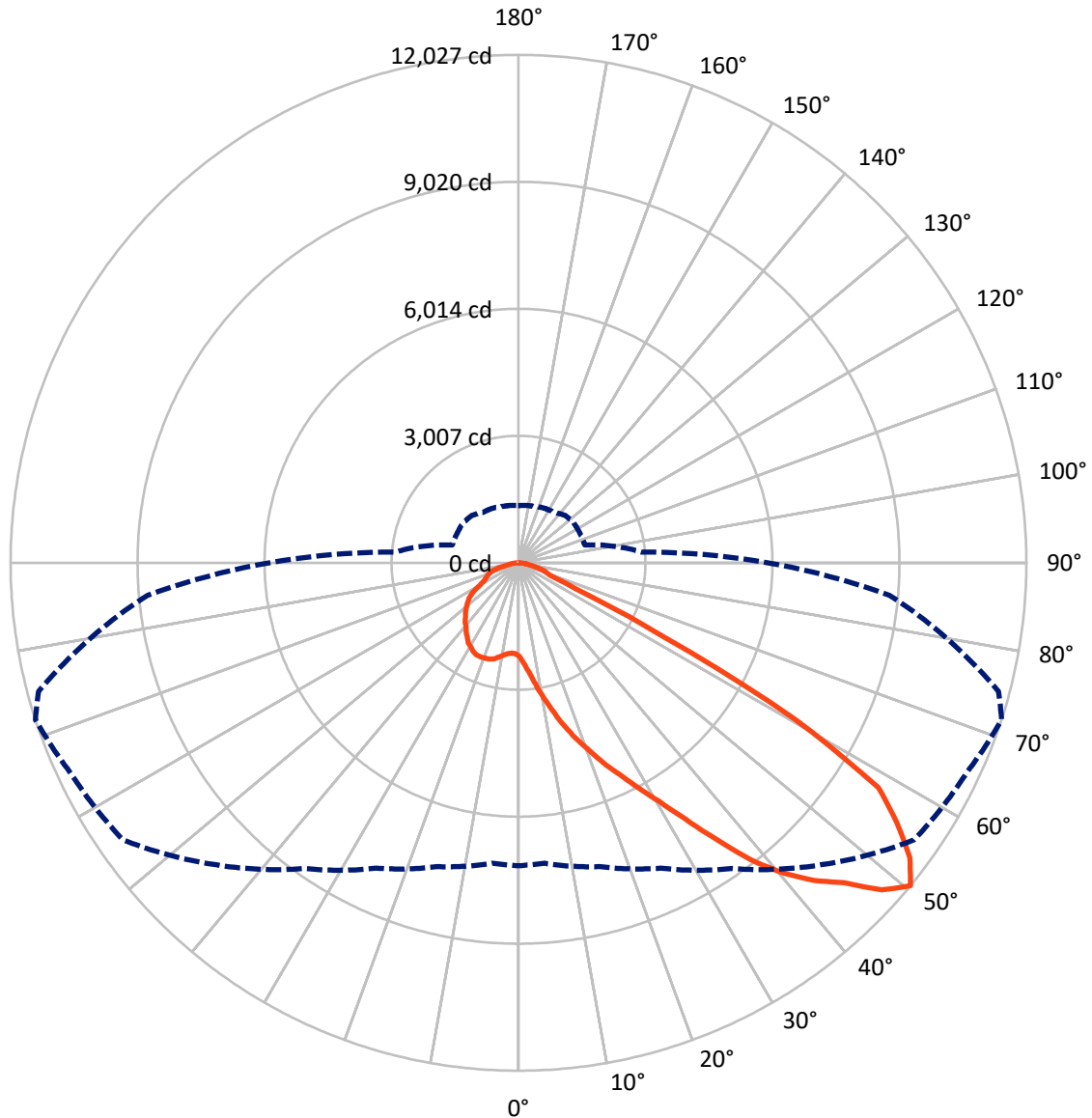
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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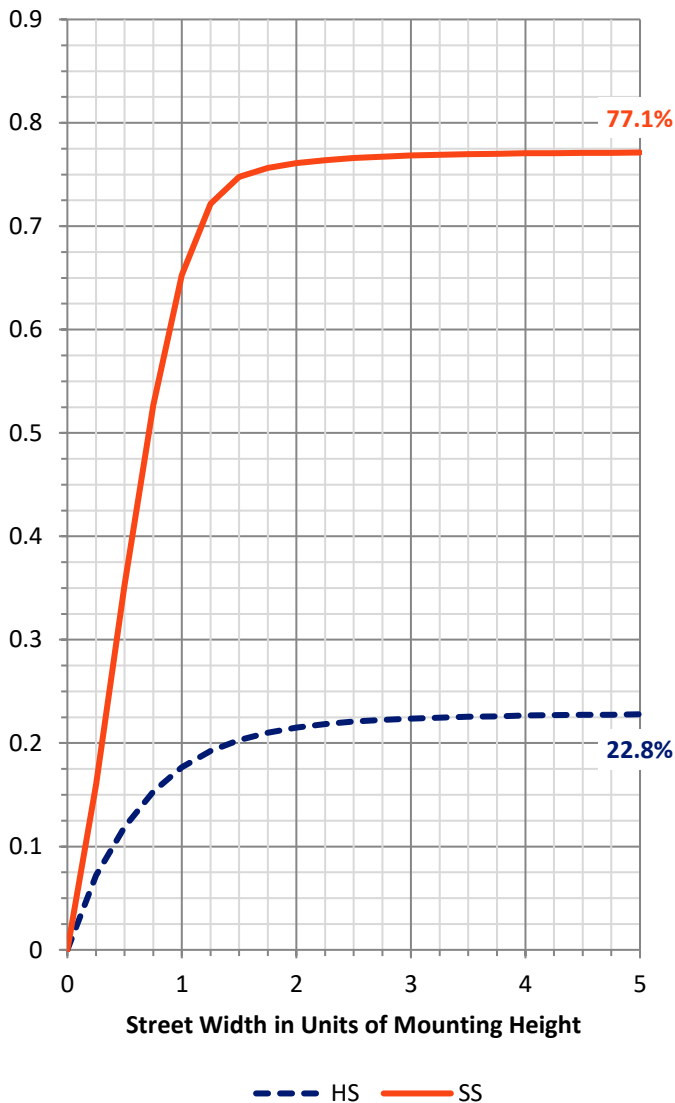
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3640.4	0.0	3640.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	12249.0	0.0	12249.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	15889.4	0.0	15889.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.2	1.6
10°-20°	972.6	6.1
20°-30°	1885.9	11.9
30°-40°	3124.3	19.7
40°-50°	4371.5	27.5
50°-60°	3687.9	23.2
60°-70°	1124.1	7.1
70°-80°	394.4	2.5
80°-90°	68.6	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°	15889.4	100.0
0°-180°	15889.4	100.0

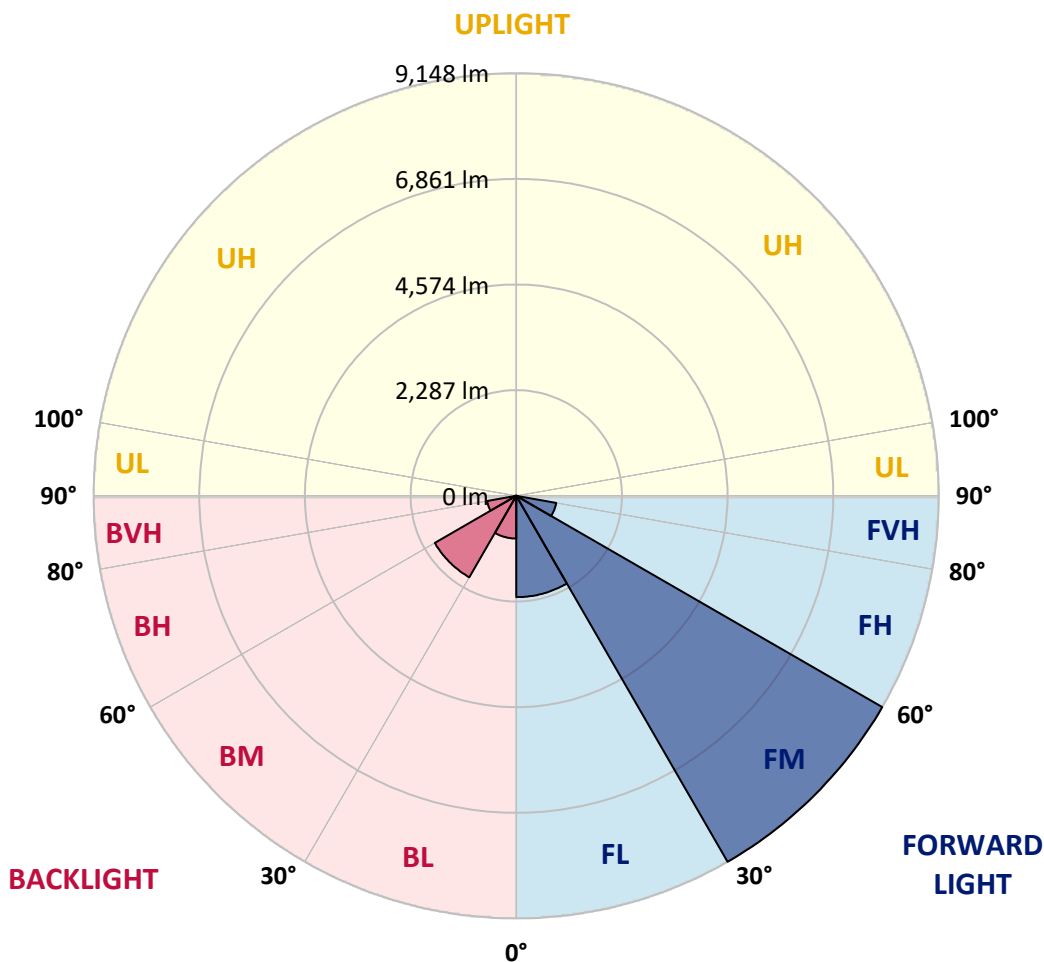


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.3	13.8			
FM (30°-60°)	9148.0	57.6			
FH (60°-80°)	877.1	5.5			G1/1800
FVH (80°-90°)	30.7	0.2			G1/100
BL (0°-30°)	925.4	5.8	B2/1000		
BM (30°-60°)	2035.8	12.8	B2/2500		
BH (60°-80°)	641.4	4.0	B2/1000		G2/1000
BVH (80°-90°)	37.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0
2.5°	2845.0	2827.3	2774.2	2756.6	2693.7	2579.6	2540.3	2424.3	2375.2	2329.9	2276.8
5°	3598.1	3515.5	3509.6	3409.3	3263.9	3179.3	2927.6	2758.5	2603.2	2524.5	2379.1
7.5°	4077.9	4079.8	4079.8	3997.2	3881.3	3666.9	3440.8	3136.1	2902.0	2786.1	2538.3
10°	4534.0	4494.7	4473.0	4465.1	4386.5	4178.1	3936.3	3558.7	3238.3	3102.6	2658.3
12.5°	4856.5	4823.0	4872.1	4846.6	4789.6	4653.9	4425.8	3995.3	3594.1	3411.3	2851.0
15°	5009.8	5033.4	5072.7	5143.5	5117.9	5066.8	4815.1	4443.5	3977.6	3771.1	3022.0
17.5°	5245.7	5180.9	5228.0	5316.5	5387.3	5363.7	5220.2	4768.0	4357.0	4103.4	3252.0
20°	5410.9	5373.6	5397.1	5499.4	5552.5	5686.1	5611.4	5192.6	4720.8	4453.4	3523.3
22.5°	5882.8	5827.7	5751.1	5766.8	5786.4	5880.8	5898.5	5658.7	5143.5	4860.4	3781.0
25°	6464.8	6413.6	6323.2	6230.8	6173.8	6156.1	6217.0	6024.3	5548.6	5255.6	4058.2
27.5°	7105.7	7019.2	6962.2	6771.5	6618.2	6594.5	6565.1	6460.8	6028.3	5711.8	4370.8
30°	7729.0	7660.2	7583.5	7278.8	7119.5	7094.0	6948.4	6977.9	6549.3	6197.4	4724.7
32.5°	8200.9	8206.8	8031.8	7801.7	7652.3	7516.6	7463.6	7548.1	7217.9	6934.7	5119.9
35°	8582.3	8600.0	8432.9	8224.5	8063.3	8157.6	8134.0	8173.3	8016.1	7670.0	5580.0
37.5°	8953.9	8865.4	8686.5	8586.3	8501.7	8657.1	8857.6	8891.0	8920.5	8513.6	6114.8
40°	9014.9	9022.7	8918.5	8989.3	8883.1	9117.2	9583.1	9539.8	9659.8	9303.9	6694.8
42.5°	8928.4	8946.1	8987.4	9087.7	9343.2	9624.4	10316.5	10139.5	10285.0	9968.5	7259.1
45°	8786.8	8714.1	8765.2	9146.6	9589.0	10214.2	10987.0	10849.3	10802.1	10536.7	7931.6
47.5°	8110.5	8185.2	8344.4	8814.3	9478.9	10316.5	11462.8	11431.3	11572.9	11386.1	8543.0
50°	7172.6	7143.1	7449.9	7978.7	8836.0	10116.0	11437.2	11722.3	12027.0	11767.6	8816.3
52.5°	5371.6	5528.8	5792.3	6449.0	7672.0	9022.7	10878.8	11354.7	11602.3	11547.3	8596.1
55°	3395.6	3442.8	3602.0	4382.6	5483.7	7241.4	9325.5	10428.5	10870.9	11077.4	8393.6
57.5°	1649.6	1561.1	1755.8	2383.0	3167.5	4870.2	7192.2	9083.7	10045.2	10418.8	7953.2
60°	861.2	894.6	971.3	1195.4	1637.8	2528.5	4482.8	6053.8	7522.6	8096.7	6028.3
62.5°	713.7	725.5	776.7	888.7	1089.2	1455.0	2288.6	2951.2	3836.0	4353.1	3429.0
65°	605.6	611.4	666.6	741.3	869.1	1024.4	1177.7	1232.8	1492.3	1531.6	1219.1
67.5°	505.3	511.2	570.2	641.0	723.6	764.8	804.1	800.2	829.7	817.9	816.0
70°	389.3	395.2	456.2	530.9	572.1	548.6	670.5	698.0	709.8	719.7	735.3
72.5°	281.2	293.0	340.1	393.2	371.6	426.7	552.5	593.7	609.5	615.4	635.1
75°	204.5	208.4	220.2	204.5	235.9	296.9	389.3	440.4	460.1	466.0	495.5
77.5°	90.4	92.4	94.4	118.0	151.4	184.8	232.0	273.3	300.8	308.7	316.6
80°	47.2	49.2	60.9	80.6	108.1	135.7	169.1	192.7	210.4	212.3	220.2
82.5°	29.5	31.5	43.2	57.0	76.7	100.3	123.9	143.5	157.3	159.3	161.2
85°	13.8	17.7	25.5	35.4	51.1	64.9	66.9	57.0	60.9	63.0	59.0
87.5°	3.9	5.9	7.8	5.9	7.8	7.8	9.9	11.8	11.8	11.8	13.8
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°	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0	2212.0
2.5°	2247.4	2229.7	2160.8	2135.2	2068.5	2080.2	2044.8	2042.8	2035.0	2033.1	2031.0
5°	2302.4	2247.4	2164.8	2101.8	2064.5	2060.5	2035.0	2035.0	2042.8	2048.7	2035.0
7.5°	2392.8	2329.9	2190.3	2131.3	2097.9	2092.0	2074.3	2060.5	2078.2	2072.4	2056.6
10°	2497.1	2386.9	2239.5	2188.3	2133.3	2119.5	2119.5	2125.5	2095.9	2105.8	2090.1
12.5°	2613.0	2465.6	2302.4	2243.4	2178.5	2170.6	2166.7	2123.5	2139.2	2131.3	2092.0
15°	2760.5	2556.0	2383.0	2282.8	2227.6	2192.2	2141.2	2133.3	2123.5	2103.8	2086.1
17.5°	2919.7	2654.4	2420.3	2294.5	2212.0	2186.4	2147.1	2105.8	2076.3	2080.2	2066.4
20°	3055.4	2744.8	2434.1	2306.3	2200.2	2151.0	2090.1	2064.5	2033.1	2031.0	2029.1
22.5°	3216.6	2866.6	2453.8	2274.8	2164.8	2113.6	2072.4	2027.1	2005.5	1977.9	1991.7
25°	3409.3	2913.9	2457.7	2257.2	2139.2	2048.7	2027.1	1977.9	1970.1	1930.8	1938.6
27.5°	3548.9	2939.5	2426.3	2202.1	2080.2	2011.4	1972.1	1936.7	1922.9	1893.5	1885.5
30°	3735.7	2978.8	2359.4	2133.3	2021.2	1944.6	1920.9	1913.1	1873.8	1842.3	1838.4
32.5°	3948.0	3004.3	2316.1	2062.5	1960.2	1901.3	1913.1	1875.8	1826.6	1799.0	1791.2
35°	4117.2	3014.2	2208.0	1981.9	1919.0	1881.6	1867.8	1860.0	1789.2	1763.6	1744.0
37.5°	4374.7	2992.5	2117.5	1924.8	1873.8	1860.0	1848.2	1795.1	1714.5	1677.1	1649.6
40°	4675.5	2986.6	2001.6	1844.3	1830.5	1846.2	1810.8	1728.2	1616.2	1574.9	1555.3
42.5°	4964.6	3027.9	1928.8	1801.0	1783.3	1789.2	1740.1	1616.2	1561.1	1537.6	1506.1
45°	5448.3	3114.4	1808.9	1734.2	1726.3	1722.4	1663.4	1533.6	1502.2	1472.7	1466.8
47.5°	5884.7	3057.4	1732.2	1665.4	1673.2	1651.6	1525.8	1484.5	1449.1	1419.6	1409.7
50°	5910.3	2921.8	1624.0	1612.3	1614.2	1576.9	1456.9	1429.4	1384.2	1364.5	1350.8
52.5°	5776.6	2699.5	1523.8	1527.7	1533.6	1472.7	1372.4	1352.7	1315.4	1287.9	1280.0
55°	5401.1	2353.5	1425.5	1441.2	1456.9	1341.0	1309.5	1260.3	1230.8	1191.5	1193.4
57.5°	4758.1	1895.4	1287.9	1313.4	1346.8	1219.1	1195.4	1134.5	1091.2	1059.8	1055.8
60°	3189.2	1348.8	1081.4	1091.2	1166.0	1114.8	1112.9	1051.9	992.9	965.4	949.6
62.5°	1881.6	1030.3	934.0	924.1	922.1	951.7	1000.8	979.1	902.5	849.4	865.1
65°	985.0	890.7	869.1	835.6	816.0	808.1	845.5	855.3	804.1	747.1	743.2
67.5°	827.8	827.8	810.1	798.3	770.7	737.4	713.7	682.2	674.4	658.7	639.0
70°	753.0	772.7	766.8	739.3	715.7	678.3	617.4	566.3	517.1	499.4	511.2
72.5°	656.7	676.4	676.4	662.6	631.2	574.1	515.1	456.2	414.8	383.4	379.4
75°	505.3	515.1	538.7	523.0	481.7	446.3	385.4	324.4	285.1	255.6	249.7
77.5°	322.4	338.2	338.2	336.2	306.7	273.3	234.0	190.7	161.2	139.6	133.7
80°	214.3	224.2	232.0	224.2	204.5	178.9	149.4	120.0	98.3	80.6	76.7
82.5°	157.3	169.1	175.0	167.1	147.4	127.8	106.2	84.6	63.0	49.2	45.3
85°	60.9	63.0	70.8	84.6	82.6	80.6	64.9	47.2	35.4	25.5	23.6
87.5°	15.7	13.8	15.7	15.7	13.8	11.8	11.8	11.8	11.8	5.9	7.8
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)