

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: P647894

Luminaire Tested: **GALN-SA4A-835-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647894  
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-SA4A-835-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 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: 11881.2 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

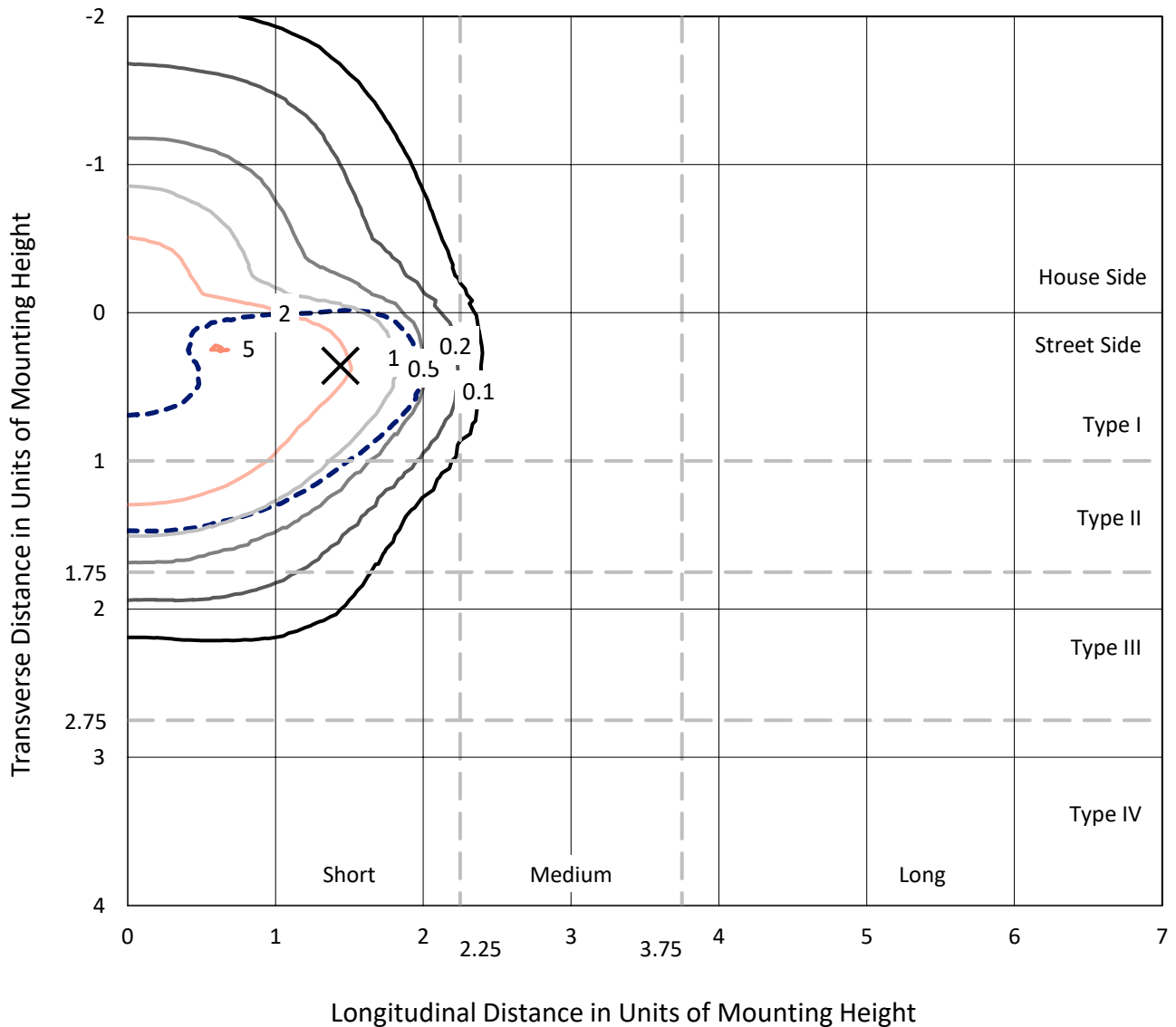
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

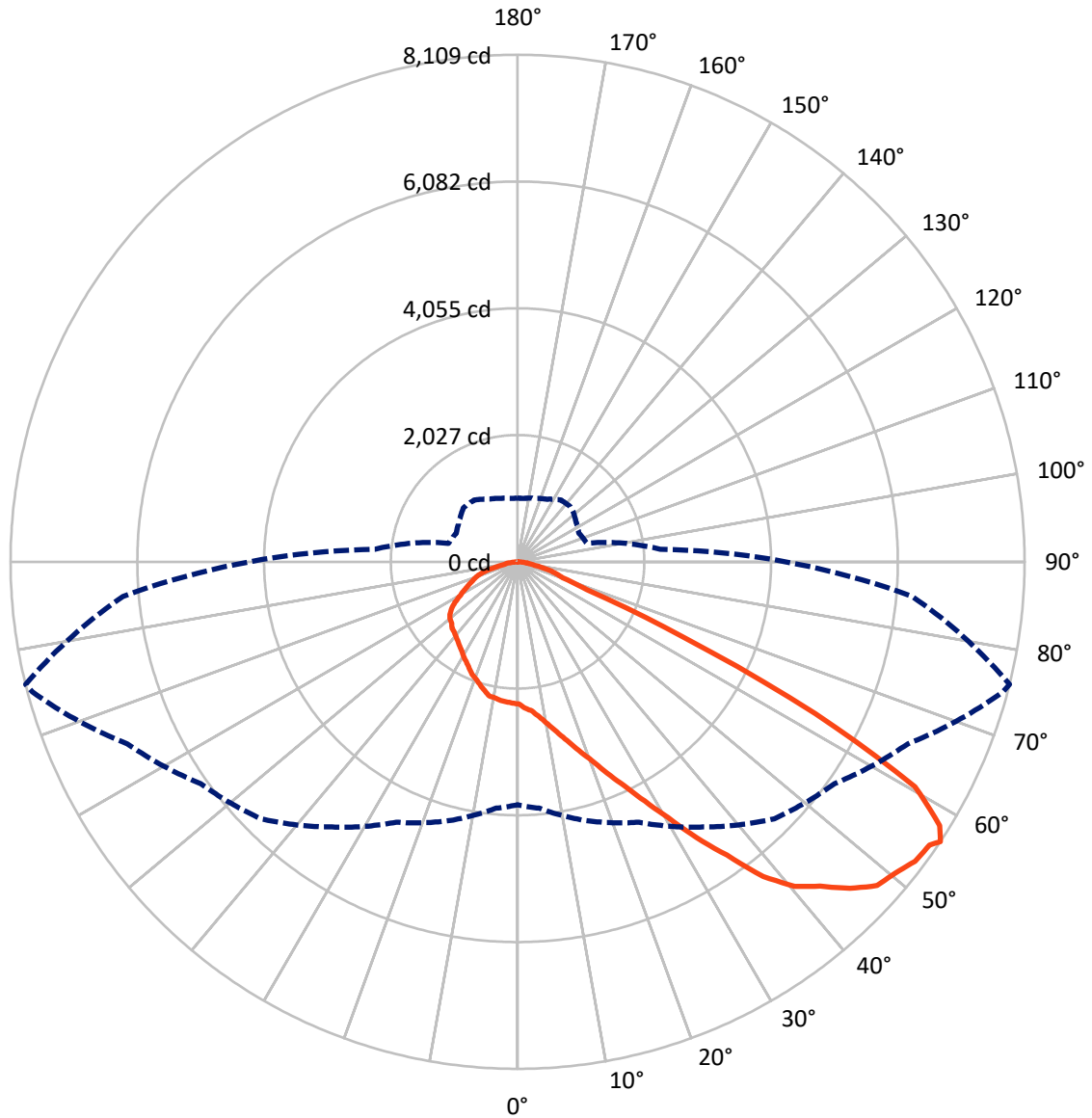
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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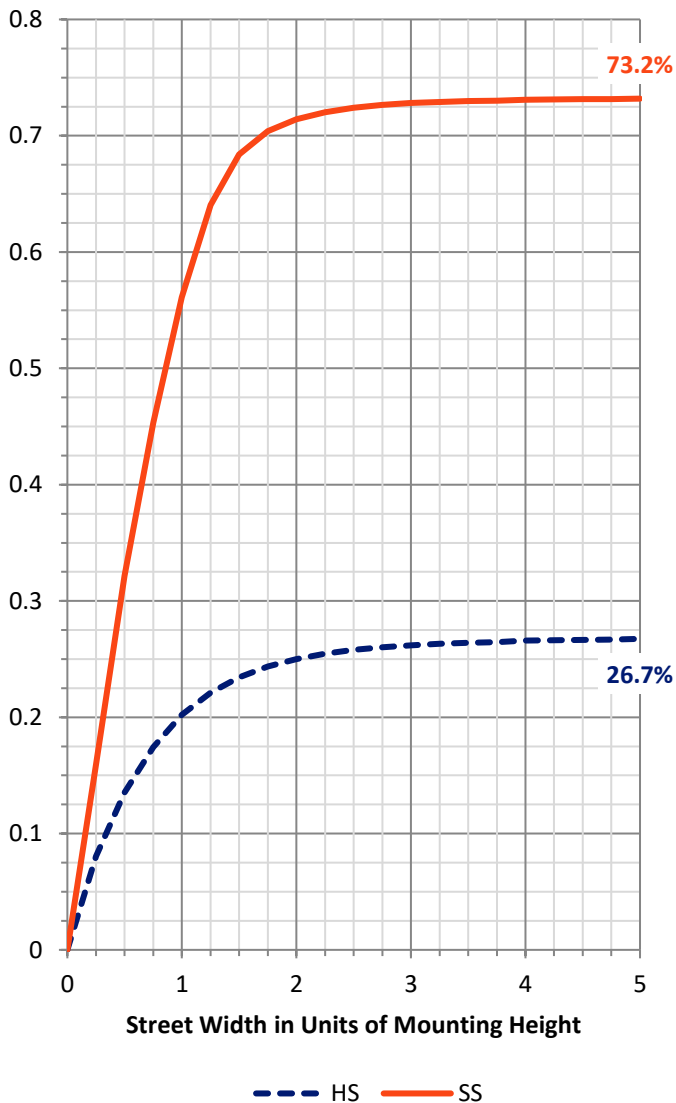
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3194.5	0.0	3194.5
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	8686.7	0.0	8686.7
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	11881.2	0.0	11881.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.4	1.9
10°-20°	708.2	6.0
20°-30°	1238.5	10.4
30°-40°	1939.2	16.3
40°-50°	2821.0	23.7
50°-60°	3100.4	26.1
60°-70°	1383.9	11.6
70°-80°	399.7	3.4
80°-90°	64.8	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°	11881.2	100.0
0°-180°	11881.2	100.0



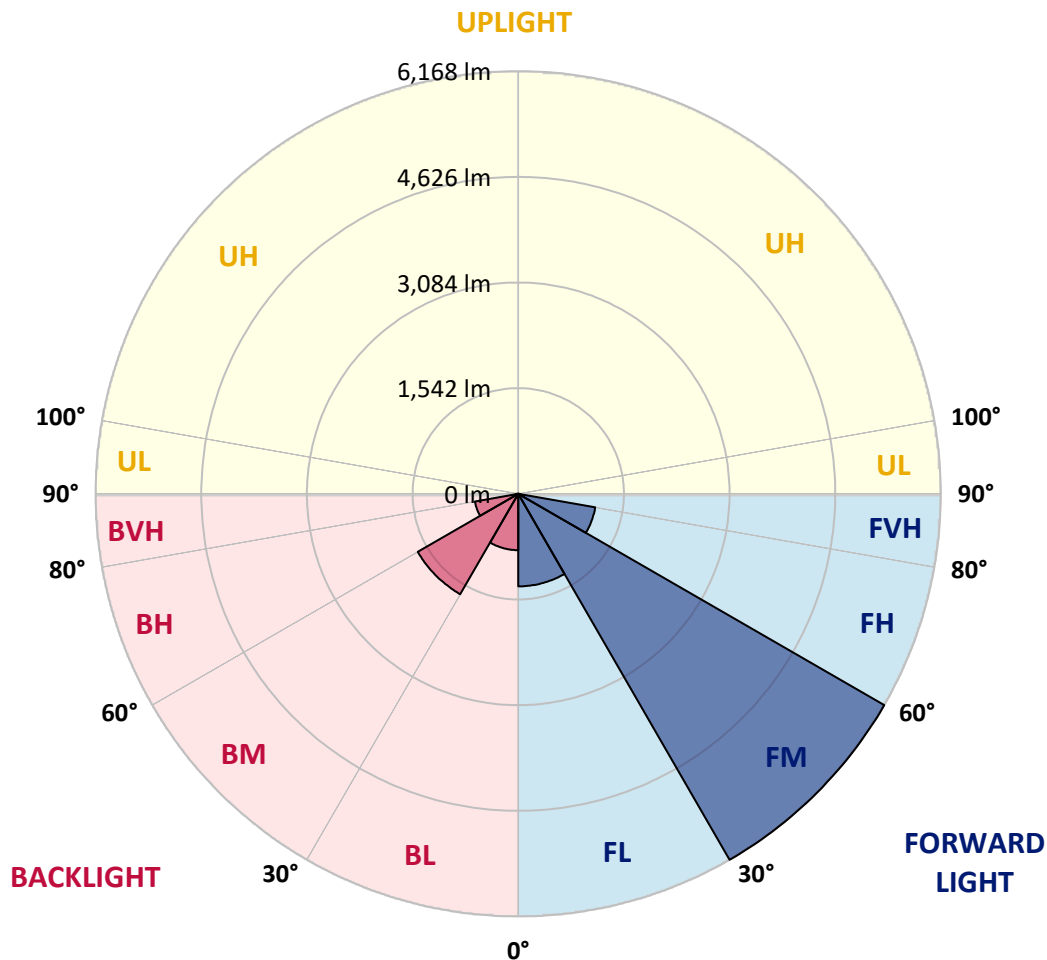
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.2	11.4			
FM (30°-60°)	6167.8	51.9			
FH (60°-80°)	1140.9	9.6			G1/1800
FVH (80°-90°)	27.9	0.2			G1/100
BL (0°-30°)	822.0	6.9	B2/1000		
BM (30°-60°)	1692.8	14.2	B2/2500		
BH (60°-80°)	642.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	36.9	0.3			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°	75°	76°	85°
0°	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4
2.5°	2504.3	2464.3	2461.2	2450.5	2456.6	2428.9	2399.6	2361.1	2321.0	2345.7	2287.2
5°	2679.9	2626.0	2647.6	2610.6	2615.2	2578.3	2518.2	2473.6	2424.2	2395.0	2353.4
7.5°	2741.5	2746.1	2761.6	2755.4	2724.6	2724.6	2684.5	2606.0	2519.8	2502.8	2433.5
10°	2824.8	2826.2	2809.3	2813.9	2857.1	2837.0	2801.6	2767.7	2656.8	2636.8	2513.6
12.5°	2854.0	2826.2	2854.0	2878.6	2929.4	2957.2	2949.5	2924.8	2806.2	2792.3	2612.2
15°	2858.6	2841.7	2864.8	2920.2	2964.9	3081.9	3140.5	3123.5	2966.4	2968.0	2723.0
17.5°	2837.0	2860.1	2869.4	2917.1	3020.3	3129.7	3299.1	3322.2	3192.8	3172.8	2863.2
20°	2866.3	2849.3	2861.7	2904.8	3041.9	3212.8	3434.6	3587.1	3405.3	3391.5	3008.0
22.5°	2978.8	2955.6	2952.5	2980.3	3078.8	3255.9	3577.8	3852.0	3664.1	3671.8	3188.2
25°	3066.5	3078.8	3068.0	3066.5	3128.2	3320.6	3767.3	4167.8	4015.3	3970.6	3400.7
27.5°	3217.4	3246.7	3225.2	3254.5	3240.6	3417.7	3902.9	4517.4	4394.2	4334.1	3593.3
30°	3427.0	3442.3	3422.3	3422.3	3380.8	3553.3	4026.0	4882.4	4831.6	4749.9	3819.7
32.5°	3702.7	3725.7	3685.7	3662.6	3656.5	3755.0	4247.9	5242.8	5329.1	5259.7	4120.0
35°	4067.7	4053.7	4006.1	3984.5	3901.3	4064.6	4577.4	5657.1	5883.5	5760.3	4483.5
37.5°	4389.6	4368.0	4364.9	4244.8	4264.8	4398.8	4857.7	5971.3	6421.1	6385.6	4867.0
40°	4689.9	4709.9	4742.2	4674.5	4643.7	4791.6	5184.3	6211.6	6838.5	6824.6	5162.7
42.5°	5011.7	4993.3	5050.3	4993.3	4947.1	5156.5	5538.6	6377.9	7205.0	7091.0	5472.3
45°	5478.5	5419.9	5440.0	5444.6	5410.7	5487.7	5684.8	6498.0	7462.2	7449.9	5698.7
47.5°	5868.1	5869.7	5835.8	5809.6	5706.4	5783.4	5848.1	6573.5	7758.0	7737.9	5786.5
50°	6012.9	5992.9	6091.4	6148.4	6154.6	5997.5	5975.9	6615.1	7913.5	7825.7	5874.3
52.5°	5492.4	5510.8	5666.3	6005.2	6200.8	6217.7	6125.3	6701.4	7976.7	7958.2	5945.2
55°	4420.3	4509.7	4765.3	5156.5	5620.1	6130.0	6287.1	6790.7	8010.6	7995.1	6259.3
56°	3885.9	3955.2	4287.9	4594.4	5176.6	5811.1	6185.4	6886.2	8036.7	8109.1	6333.3
57.5°	3128.2	3208.2	3446.9	3795.0	4482.0	5204.3	5905.1	6769.1	7935.1	7962.8	6387.2
60°	1956.0	1963.8	2250.2	2479.7	2963.3	3668.7	4506.6	5889.7	7343.6	7303.6	5737.2
62.5°	1282.9	1284.5	1544.8	1732.7	1953.0	2114.6	2652.2	3905.9	5418.4	5347.6	4084.6
65°	901.0	921.0	1122.8	1373.9	1463.2	1378.5	1361.6	2059.2	3026.5	2924.8	2194.7
67.5°	659.2	660.8	839.4	1109.0	1238.3	1048.9	851.7	1005.8	1198.3	1195.2	1016.5
70°	435.9	454.4	591.4	828.6	976.5	842.5	696.2	719.3	762.4	762.4	756.2
72.5°	254.2	271.1	362.0	525.2	548.3	526.7	551.4	616.1	643.8	642.3	634.5
75°	144.8	152.5	172.5	218.7	272.6	321.9	405.0	466.7	494.4	511.4	491.3
77.5°	84.7	89.3	101.6	124.7	141.7	174.1	220.3	263.4	300.4	295.7	298.8
80°	44.6	44.6	57.0	73.9	98.6	123.2	146.3	170.9	191.0	195.6	200.2
82.5°	26.2	27.7	37.0	53.9	70.9	87.8	112.4	129.4	147.8	149.4	152.5
85°	13.9	15.4	23.1	35.4	47.8	53.9	55.4	52.4	57.0	53.9	61.6
87.5°	4.6	4.6	7.7	6.2	6.2	7.7	9.2	9.2	12.3	12.3	12.3
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°	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4	2273.4
2.5°	2285.7	2285.7	2259.4	2210.2	2202.5	2182.5	2164.0	2162.4	2148.6	2136.3	2130.1
5°	2328.8	2281.0	2242.5	2197.9	2145.5	2120.8	2093.1	2062.3	2050.0	2062.3	2060.8
7.5°	2378.0	2338.0	2222.5	2139.3	2079.3	2054.6	2023.8	1991.5	1994.5	1994.5	1973.0
10°	2425.8	2371.9	2187.1	2080.8	1993.0	1974.5	1957.6	1969.9	1985.3	1988.4	1974.5
12.5°	2505.9	2384.2	2170.2	2022.3	1966.8	1926.8	1937.5	1971.4	2003.8	1994.5	2005.3
15°	2566.0	2395.0	2093.1	1962.2	1892.9	1911.4	1949.9	1973.0	2026.9	2020.8	2031.5
17.5°	2624.5	2401.1	2017.6	1882.1	1852.8	1903.7	1932.9	1999.2	2016.1	2053.1	2067.0
20°	2744.6	2413.5	1940.7	1832.8	1823.6	1882.1	1932.9	1963.8	2000.7	2033.1	2033.1
22.5°	2806.2	2407.3	1889.8	1768.2	1797.4	1834.3	1880.6	1932.9	1932.9	1963.8	1965.3
25°	2883.2	2382.7	1809.7	1737.3	1758.9	1794.3	1846.7	1828.2	1848.2	1848.2	1872.9
27.5°	2971.0	2330.3	1740.5	1681.9	1725.0	1763.6	1771.2	1758.9	1735.8	1732.7	1723.5
30°	3041.9	2265.6	1689.6	1663.4	1698.8	1720.4	1695.7	1669.6	1629.5	1626.4	1604.9
32.5°	3138.9	2185.5	1626.4	1617.2	1657.2	1658.8	1651.1	1611.0	1552.5	1527.9	1503.2
35°	3302.1	2139.3	1578.7	1592.5	1604.9	1600.3	1586.4	1543.3	1484.7	1474.0	1464.8
37.5°	3422.3	2105.4	1529.4	1546.3	1557.2	1563.3	1521.7	1474.0	1475.5	1454.0	1447.8
40°	3557.9	2083.9	1489.3	1497.1	1498.6	1518.6	1467.8	1444.7	1455.5	1441.6	1450.9
42.5°	3731.9	2090.1	1447.8	1441.6	1470.9	1463.2	1438.5	1407.8	1413.9	1372.3	1378.5
45°	3824.3	2131.6	1423.1	1395.4	1427.7	1426.2	1393.9	1364.6	1327.7	1247.6	1250.6
47.5°	3885.9	2142.4	1364.6	1346.1	1380.0	1400.0	1363.0	1295.3	1242.9	1185.9	1172.1
50°	3949.1	2162.4	1336.9	1298.4	1312.2	1360.0	1313.8	1249.1	1198.3	1147.4	1155.2
52.5°	4004.5	2200.9	1282.9	1226.0	1250.6	1303.0	1278.3	1199.8	1144.4	1102.8	1090.5
55°	4250.9	2287.2	1192.1	1118.2	1176.7	1242.9	1229.1	1133.5	1073.5	1052.0	1048.9
56°	4289.4	2290.3	1144.4	1081.2	1135.1	1222.9	1206.0	1104.3	1050.4	1016.5	1018.1
57.5°	4295.6	2253.3	1076.6	1047.3	1093.5	1193.7	1172.1	1081.2	1007.3	976.5	967.2
60°	3779.6	1758.9	991.9	973.4	1027.3	1104.3	1096.6	1018.1	934.9	899.5	916.4
62.5°	2576.8	1289.1	925.7	922.6	950.3	1025.7	1005.8	934.9	865.6	842.5	831.7
65°	1500.1	978.0	861.0	848.6	871.7	911.8	925.7	851.7	779.3	764.0	759.4
67.5°	885.6	808.6	777.8	757.8	750.0	774.7	785.5	742.4	670.0	648.4	666.9
70°	740.8	719.3	720.8	686.9	668.4	651.5	642.3	603.8	543.7	516.0	508.2
72.5°	639.2	629.9	623.8	593.0	576.1	537.5	497.5	459.0	414.3	391.2	392.8
75°	488.3	485.1	488.3	472.9	443.6	412.8	375.8	326.5	292.6	263.4	269.5
77.5°	291.1	300.4	305.0	298.8	286.5	258.8	235.7	203.3	170.9	147.8	144.8
80°	200.2	208.0	215.6	208.0	195.6	175.5	151.0	126.3	103.2	90.9	87.8
82.5°	152.5	160.2	164.8	157.1	141.7	120.1	103.2	86.3	67.7	55.4	52.4
85°	55.4	63.1	61.6	73.9	80.1	77.0	66.2	50.8	38.5	27.7	26.2
87.5°	15.4	13.9	15.4	15.4	15.4	13.9	12.3	12.3	12.3	7.7	6.2
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)