

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: P648334

Luminaire Tested: **GALN-SA3B-835-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648334  
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-SA3B-835-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3500K, 800mA 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: 11156.2 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

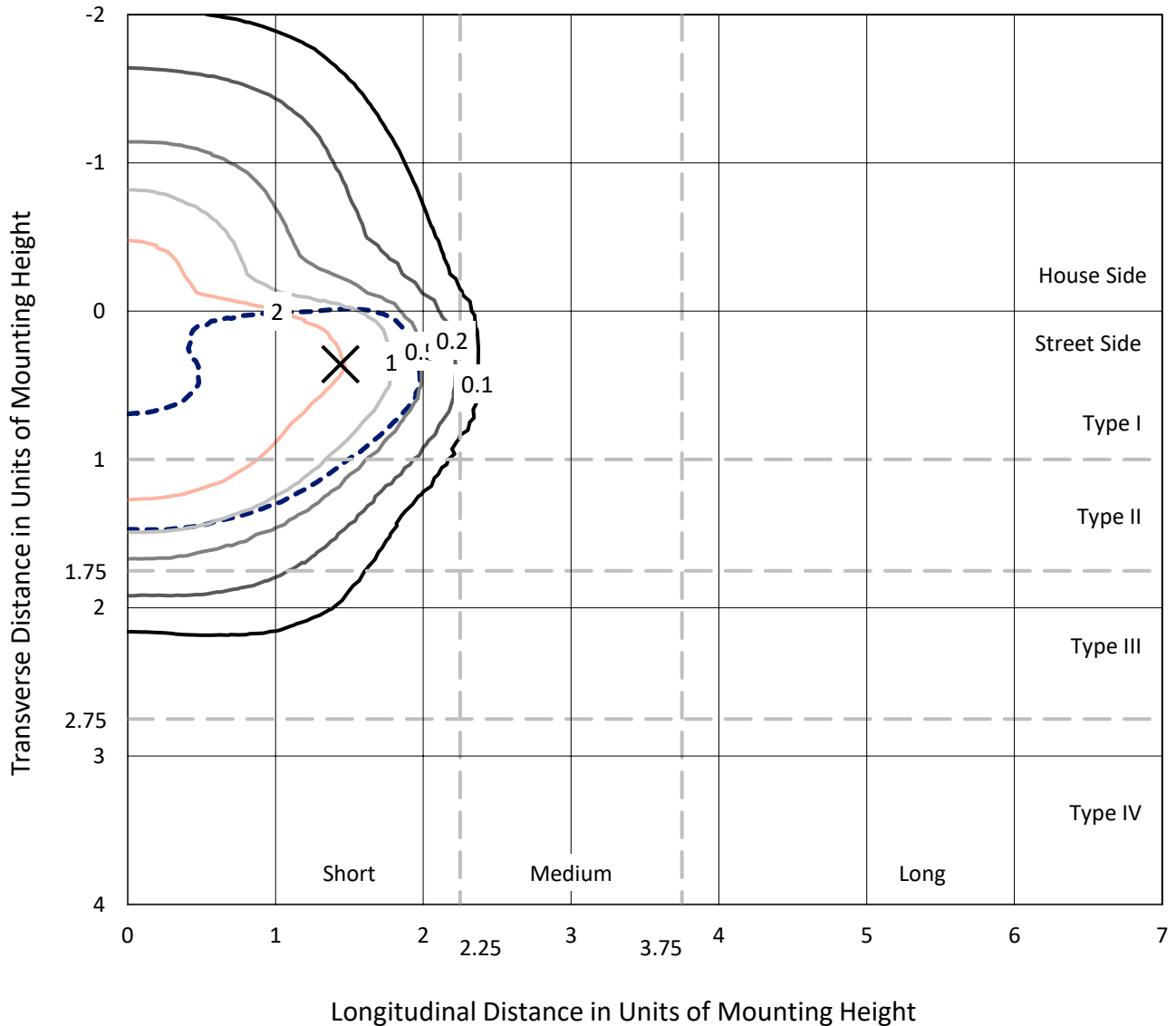
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

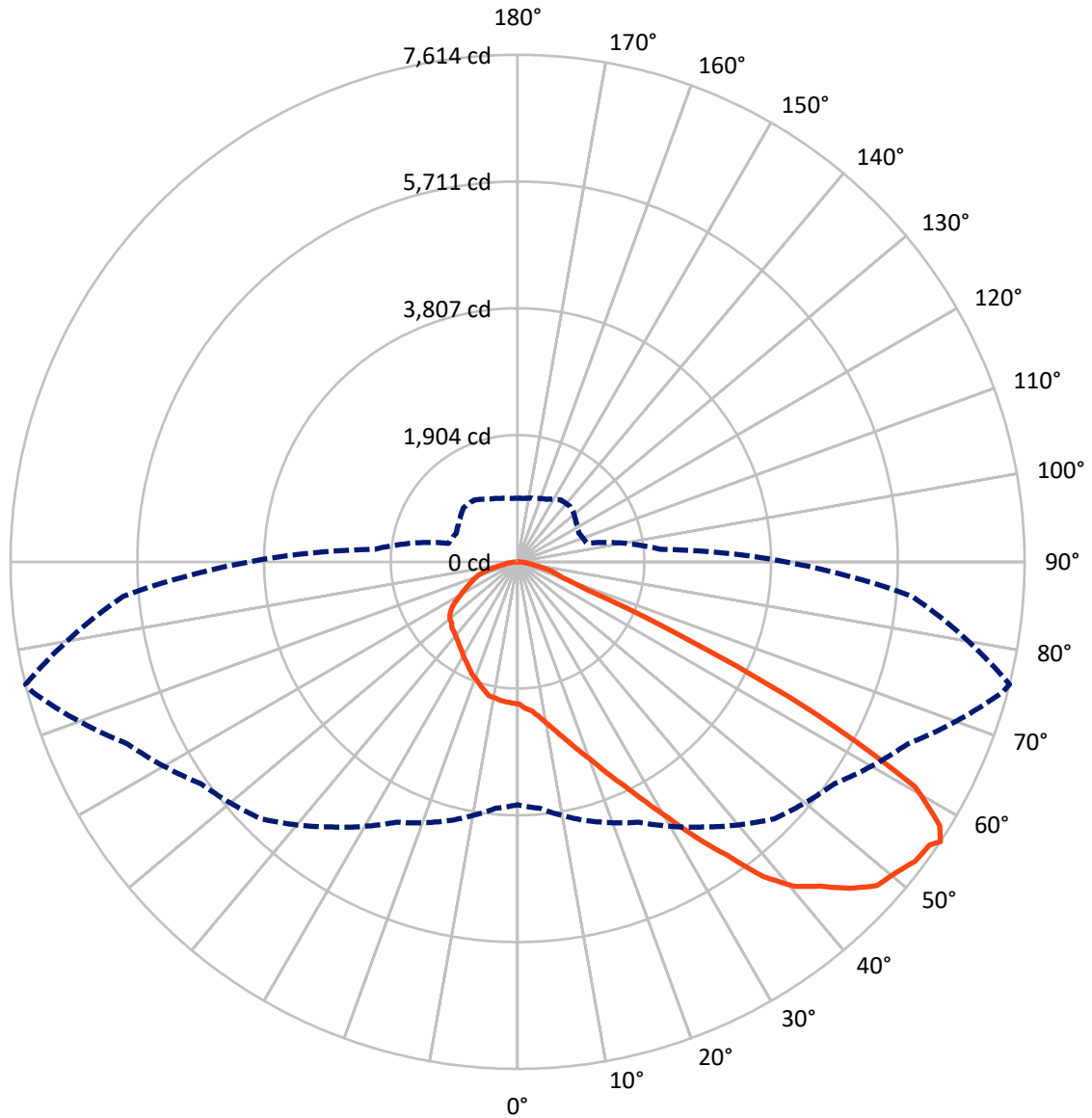
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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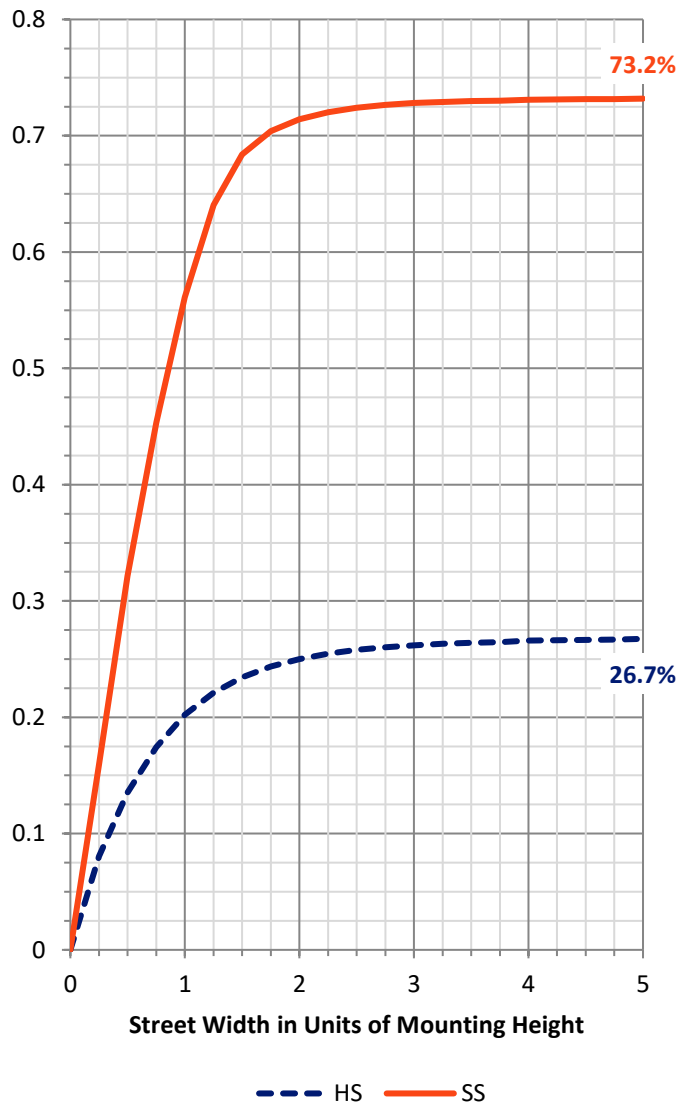
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2999.6	0.0	2999.6
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	8156.6	0.0	8156.6
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	11156.2	0.0	11156.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.7	1.9
10°-20°	665.0	6.0
20°-30°	1163.0	10.4
30°-40°	1820.8	16.3
40°-50°	2648.8	23.7
50°-60°	2911.2	26.1
60°-70°	1299.4	11.6
70°-80°	375.3	3.4
80°-90°	60.9	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°	11156.2	100.0
0°-180°	11156.2	100.0

**Coefficient of Utilization**



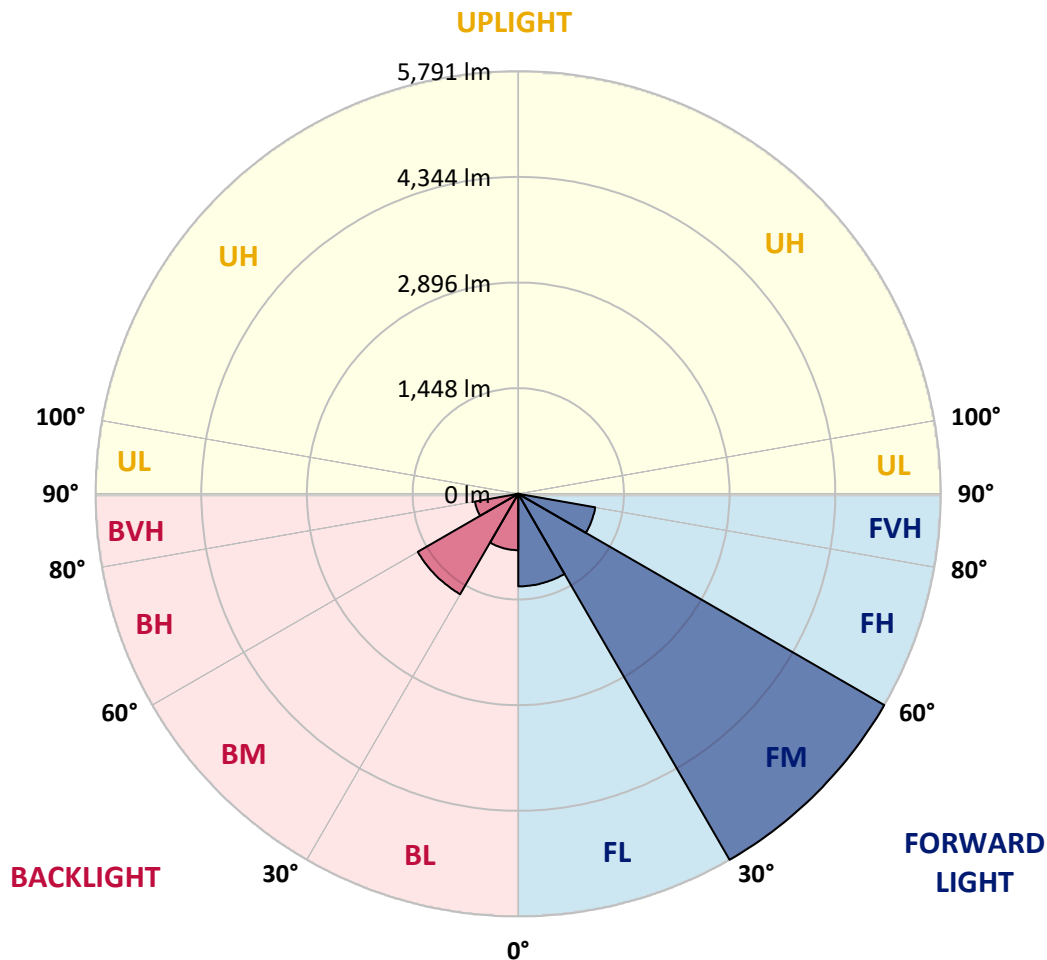
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1267.8	11.4			
FM (30°-60°)	5791.4	51.9			
FH (60°-80°)	1071.3	9.6			G1/1800
FVH (80°-90°)	26.2	0.2			G1/100
BL (0°-30°)	771.8	6.9	B2/1000		
BM (30°-60°)	1589.5	14.2	B2/2500		
BH (60°-80°)	603.5	5.4	B2/1000		G2/1000
BVH (80°-90°)	34.7	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°	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6
2.5°	2351.5	2313.9	2311.0	2300.9	2306.7	2280.6	2253.2	2217.1	2179.4	2202.6	2147.6
5°	2516.4	2465.7	2486.0	2451.3	2455.6	2421.0	2364.5	2322.6	2276.3	2248.9	2209.8
7.5°	2574.3	2578.6	2593.1	2587.3	2558.3	2558.3	2520.7	2447.0	2366.0	2350.1	2285.0
10°	2652.3	2653.7	2637.8	2642.2	2682.7	2663.9	2630.6	2598.9	2494.7	2475.9	2360.2
12.5°	2679.8	2653.7	2679.8	2702.9	2750.7	2776.7	2769.5	2746.4	2635.0	2622.0	2452.7
15°	2684.1	2668.2	2689.9	2742.0	2784.0	2893.8	2948.8	2932.9	2785.4	2786.9	2556.9
17.5°	2663.9	2685.6	2694.3	2739.1	2836.0	2938.7	3097.8	3119.5	2998.0	2979.2	2688.5
20°	2691.4	2675.4	2687.0	2727.5	2856.2	3016.7	3225.0	3368.2	3197.5	3184.5	2824.4
22.5°	2797.0	2775.3	2772.4	2798.4	2891.0	3057.3	3359.5	3616.9	3440.5	3447.7	2993.6
25°	2879.4	2891.0	2880.8	2879.4	2937.3	3118.0	3537.4	3913.4	3770.2	3728.3	3193.2
27.5°	3021.1	3048.6	3028.3	3055.8	3042.8	3209.1	3664.7	4241.7	4126.0	4069.6	3374.0
30°	3217.8	3232.2	3213.4	3213.4	3174.4	3336.4	3780.4	4584.5	4536.7	4460.0	3586.6
32.5°	3476.7	3498.4	3460.8	3439.1	3433.3	3525.8	3988.6	4922.9	5003.8	4938.8	3868.6
35°	3819.4	3806.4	3761.5	3741.3	3663.3	3816.5	4298.1	5311.9	5524.5	5408.8	4209.9
37.5°	4121.6	4101.4	4098.5	3985.7	4004.5	4130.3	4561.3	5606.9	6029.2	5996.0	4570.0
40°	4403.7	4422.5	4452.8	4389.2	4360.3	4499.1	4867.9	5832.6	6421.1	6408.2	4847.6
42.5°	4705.9	4688.6	4742.1	4688.6	4645.2	4841.9	5200.5	5988.7	6765.4	6658.3	5138.4
45°	5144.2	5089.2	5108.0	5112.3	5080.5	5152.8	5337.9	6101.5	7006.8	6995.2	5350.9
47.5°	5510.0	5511.5	5479.7	5455.1	5358.1	5430.5	5491.3	6172.4	7284.5	7265.7	5433.4
50°	5646.0	5627.2	5719.7	5773.2	5779.0	5631.5	5611.3	6211.5	7430.6	7348.1	5515.8
52.5°	5157.2	5174.5	5320.6	5638.8	5822.4	5838.3	5751.5	6292.4	7489.9	7472.5	5582.3
55°	4150.6	4234.5	4474.5	4841.9	5277.2	5755.9	5903.4	6376.3	7521.7	7507.2	5877.4
56°	3648.8	3713.8	4026.2	4314.0	4860.7	5456.5	5808.0	6465.9	7546.2	7614.3	5946.8
57.5°	2937.3	3012.4	3236.6	3563.4	4208.5	4886.7	5544.7	6356.1	7450.8	7476.9	5997.4
60°	1836.7	1843.9	2112.9	2328.4	2782.5	3444.9	4231.6	5530.3	6895.5	6857.9	5387.1
62.5°	1204.7	1206.1	1450.5	1627.0	1833.8	1985.6	2490.3	3667.6	5087.7	5021.2	3835.3
65°	846.0	864.8	1054.3	1290.0	1373.9	1294.4	1278.4	1933.5	2841.8	2746.4	2060.9
67.5°	619.0	620.4	788.2	1041.2	1162.8	984.9	799.8	944.4	1125.2	1122.3	954.5
70°	409.3	426.7	555.3	778.1	916.9	791.1	653.6	675.3	715.9	715.9	710.1
72.5°	238.7	254.6	339.8	493.1	514.8	494.6	517.7	578.5	604.5	603.1	595.9
75°	135.9	143.2	162.0	205.4	256.0	302.2	380.4	438.2	464.2	480.1	461.3
77.5°	79.6	83.9	95.4	117.1	133.0	163.4	206.8	247.3	282.0	277.7	280.5
80°	42.0	42.0	53.5	69.5	92.6	115.7	137.4	160.5	179.3	183.7	188.0
82.5°	24.6	26.0	34.7	50.6	66.6	82.4	105.5	121.4	138.8	140.3	143.2
85°	13.0	14.5	21.7	33.3	44.9	50.6	52.1	49.2	53.5	50.6	57.9
87.5°	4.3	4.3	7.2	5.8	5.8	7.2	8.7	8.7	11.6	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6	2134.6
2.5°	2146.1	2146.1	2121.5	2075.3	2068.1	2049.3	2031.9	2030.5	2017.5	2005.9	2000.1
5°	2186.7	2141.8	2105.6	2063.8	2014.6	1991.4	1965.4	1936.4	1924.9	1936.4	1935.0
7.5°	2233.0	2195.3	2086.9	2008.8	1952.3	1929.2	1900.3	1870.0	1872.9	1872.9	1852.6
10°	2277.7	2227.2	2053.6	1953.8	1871.4	1854.1	1838.1	1849.7	1864.2	1867.1	1854.1
12.5°	2353.0	2238.8	2037.7	1898.9	1846.8	1809.2	1819.3	1851.2	1881.5	1872.9	1883.0
15°	2409.4	2248.9	1965.4	1842.5	1777.4	1794.7	1830.9	1852.6	1903.2	1897.4	1907.5
17.5°	2464.3	2254.6	1894.5	1767.2	1739.7	1787.5	1815.0	1877.2	1893.1	1927.8	1940.8
20°	2577.2	2266.2	1822.2	1721.0	1712.3	1767.2	1815.0	1843.9	1878.7	1909.0	1909.0
22.5°	2635.0	2260.4	1774.5	1660.3	1687.7	1722.4	1765.8	1815.0	1815.0	1843.9	1845.4
25°	2707.3	2237.3	1699.3	1631.3	1651.6	1684.9	1734.0	1716.6	1735.4	1735.4	1758.6
27.5°	2789.8	2188.1	1634.2	1579.2	1619.7	1655.9	1663.1	1651.6	1629.9	1627.0	1618.3
30°	2856.2	2127.3	1586.5	1561.9	1595.1	1615.4	1592.2	1567.6	1530.1	1527.2	1507.0
32.5°	2947.4	2052.2	1527.2	1518.5	1556.1	1557.5	1550.3	1512.8	1457.8	1434.6	1411.5
35°	3100.7	2008.8	1482.4	1495.4	1507.0	1502.6	1489.6	1449.1	1394.1	1384.0	1375.3
37.5°	3213.4	1976.9	1436.1	1452.0	1462.1	1467.9	1428.8	1384.0	1385.4	1365.2	1359.4
40°	3340.7	1956.7	1398.4	1405.7	1407.1	1425.9	1378.2	1356.5	1366.6	1353.7	1362.3
42.5°	3504.2	1962.5	1359.4	1353.7	1381.1	1373.9	1350.8	1321.9	1327.6	1288.6	1294.4
45°	3590.9	2001.5	1336.3	1310.3	1340.7	1339.2	1308.8	1281.3	1246.6	1171.4	1174.3
47.5°	3648.8	2011.7	1281.3	1264.0	1295.8	1314.6	1279.9	1216.2	1167.1	1113.6	1100.6
50°	3708.1	2030.5	1255.3	1219.1	1232.1	1277.0	1233.6	1172.9	1125.2	1077.4	1084.6
52.5°	3760.1	2066.7	1204.7	1151.2	1174.3	1223.5	1200.3	1126.6	1074.5	1035.5	1023.9
55°	3991.5	2147.6	1119.4	1049.9	1104.9	1167.1	1154.1	1064.4	1008.0	987.8	984.9
56°	4027.7	2150.5	1074.5	1015.2	1065.8	1148.3	1132.4	1036.9	986.3	954.5	956.0
57.5°	4033.5	2115.8	1010.9	983.4	1026.8	1120.8	1100.6	1015.2	945.8	916.9	908.2
60°	3548.9	1651.6	931.4	914.0	964.6	1036.9	1029.7	956.0	877.8	844.5	860.5
62.5°	2419.5	1210.4	869.1	866.3	892.3	963.2	944.4	877.8	812.8	791.1	781.0
65°	1408.6	918.3	808.4	796.9	818.5	856.1	869.1	799.8	731.8	717.3	713.0
67.5°	831.5	759.3	730.3	711.5	704.3	727.4	737.6	697.1	629.1	608.9	626.2
70°	695.6	675.3	676.8	645.0	627.7	611.8	603.1	566.9	510.5	484.4	477.2
72.5°	600.2	591.5	585.7	556.8	540.9	504.7	467.1	431.0	389.0	367.3	368.8
75°	458.4	455.5	458.4	444.0	416.5	387.6	352.9	306.6	274.8	247.3	253.1
77.5°	273.3	282.0	286.3	280.5	269.0	243.0	221.3	190.9	160.5	138.8	135.9
80°	188.0	195.2	202.5	195.2	183.7	164.9	141.7	118.6	96.9	85.3	82.4
82.5°	143.2	150.4	154.7	147.5	133.0	112.8	96.9	81.0	63.7	52.1	49.2
85°	52.1	59.3	57.9	69.5	75.2	72.3	62.2	47.8	36.2	26.0	24.6
87.5°	14.5	13.0	14.5	14.5	14.5	13.0	11.6	11.6	11.6	7.2	5.8
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)