

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: P200185

Luminaire Tested: **GWC-AF-01-LED-E1-T2R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-T2R-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7430.7 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

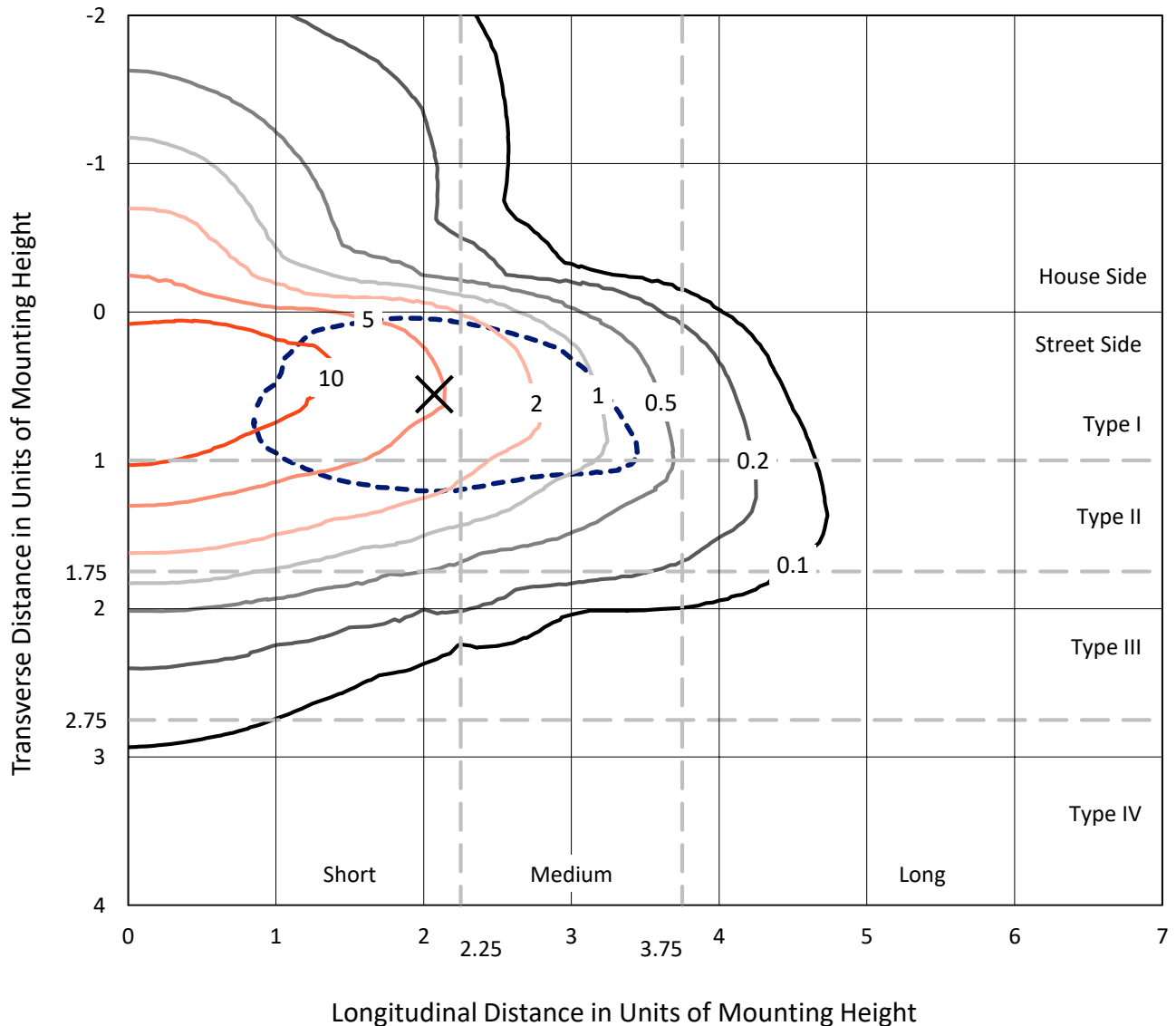
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

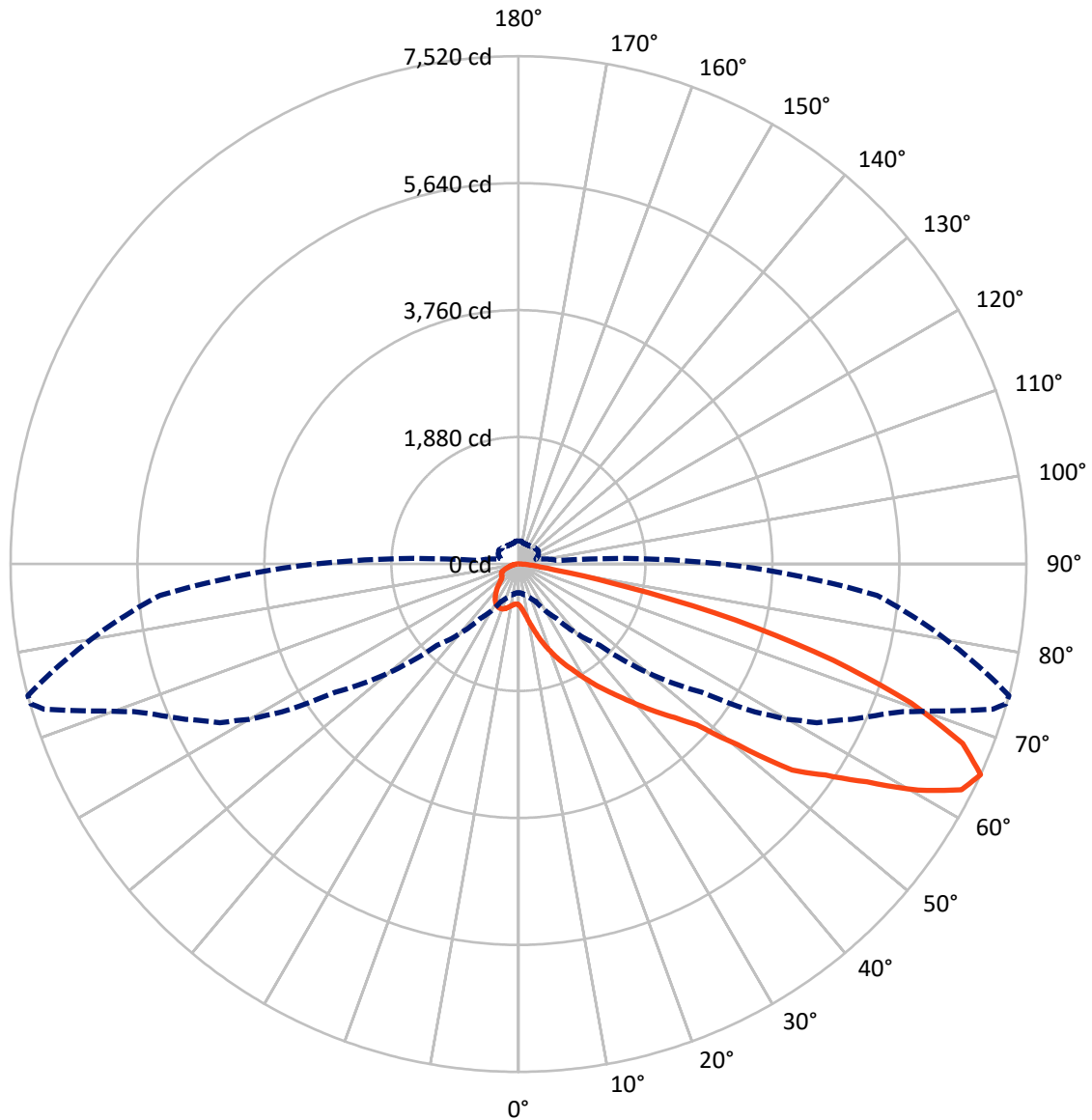
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1145.6	0.0	1145.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6285.1	0.0	6285.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	7430.7	0.0	7430.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.0
10°-20°	291.6	3.9
20°-30°	598.4	8.1
30°-40°	1006.7	13.5
40°-50°	1391.0	18.7
50°-60°	1736.4	23.4
60°-70°	1562.6	21.0
70°-80°	655.0	8.8
80°-90°	114.4	1.5
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°	7430.7	100.0
0°-180°	7430.7	100.0

Coefficient of Utilization



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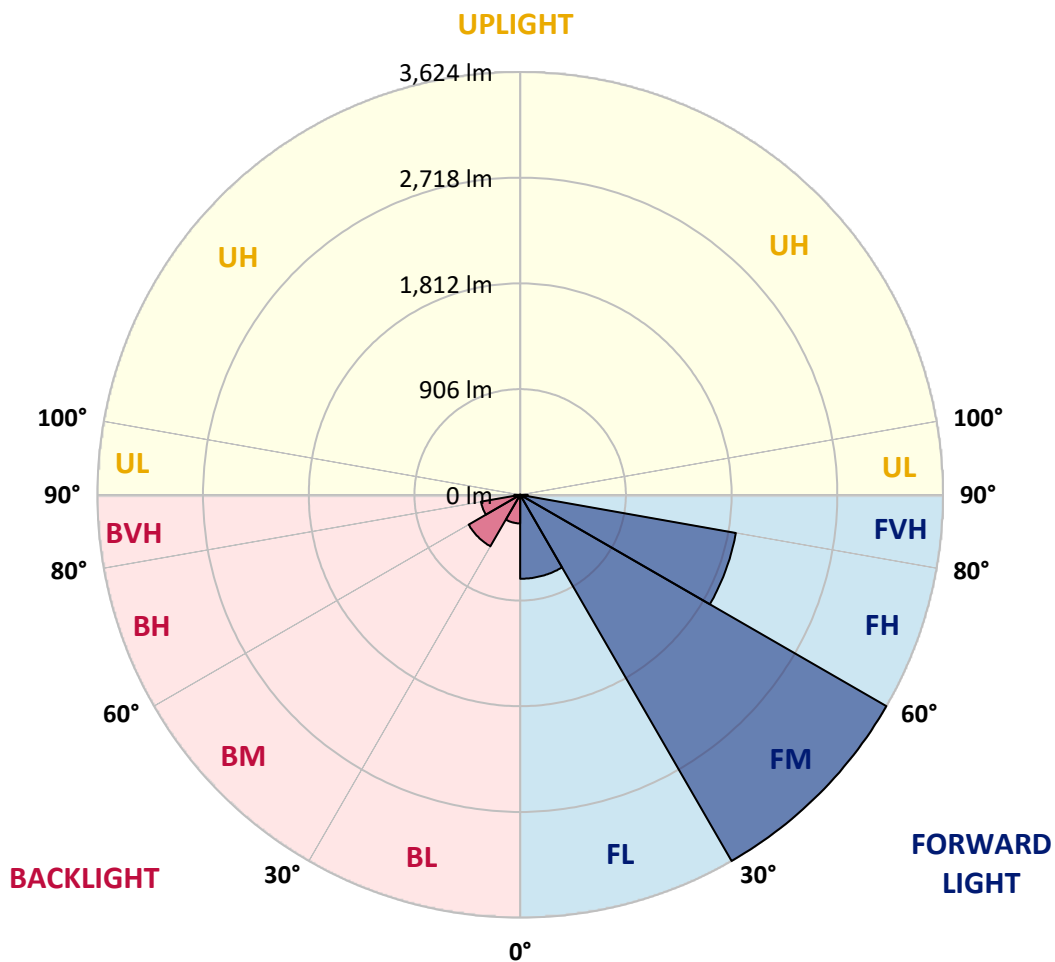
CATALOG NUMBER: GWC-AF-01-LED-E1-T2R-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	719.6	9.7			
FM (30°-60°)	3624.1	48.8			
FH (60°-80°)	1877.0	25.3			G2/5000
FVH (80°-90°)	64.3	0.9			G1/100
BL (0°-30°)	245.0	3.3	B1/500		
BM (30°-60°)	509.9	6.9	B1/1000		
BH (60°-80°)	340.6	4.6	B1/500		G1/500
BVH (80°-90°)	50.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8
2.5°	766.7	758.3	760.4	746.3	729.1	706.6	681.6	681.3	681.6	679.1	670.0
5°	1063.3	1053.0	1049.1	1017.5	971.1	904.9	833.2	825.4	822.4	814.2	795.5
7.5°	1279.5	1273.9	1267.9	1244.0	1201.8	1127.9	1031.5	1015.1	999.2	995.3	974.3
10°	1419.1	1417.7	1405.1	1398.8	1372.4	1308.4	1214.4	1198.6	1181.4	1175.4	1153.3
12.5°	1529.6	1529.2	1523.3	1525.0	1502.2	1455.8	1374.8	1360.4	1347.7	1329.4	1313.7
15°	1605.9	1606.2	1615.0	1624.9	1621.4	1590.1	1514.1	1507.8	1496.9	1484.2	1465.6
17.5°	1668.5	1670.3	1679.4	1697.4	1716.7	1714.3	1654.1	1648.8	1639.3	1622.1	1612.3
20°	1809.9	1816.6	1799.0	1799.0	1801.1	1810.6	1781.8	1777.6	1764.2	1755.1	1747.3
22.5°	2048.8	2056.4	2016.7	1976.2	1936.5	1907.7	1878.9	1884.1	1875.0	1868.6	1864.0
25°	2358.9	2364.9	2300.5	2232.3	2151.4	2045.9	1974.5	1971.3	1966.4	1962.5	1960.5
27.5°	2650.9	2653.3	2592.5	2492.6	2398.7	2247.1	2071.6	2067.7	2061.8	2054.4	2048.0
30°	2900.6	2899.9	2837.3	2741.9	2641.4	2473.6	2219.0	2207.0	2189.4	2169.4	2153.9
32.5°	3116.8	3115.8	3047.3	2948.3	2842.9	2697.9	2420.8	2396.2	2368.7	2329.8	2306.1
35°	3287.0	3286.4	3221.7	3118.7	2997.7	2909.4	2652.2	2622.0	2587.1	2534.8	2498.6
37.5°	3351.5	3351.5	3315.2	3244.9	3138.0	3077.4	2909.4	2872.8	2835.5	2776.1	2735.3
40°	3313.8	3314.6	3322.2	3309.2	3257.2	3210.7	3149.3	3127.4	3095.4	3041.9	2999.4
42.5°	3187.5	3191.4	3242.8	3305.8	3331.8	3324.4	3362.0	3352.1	3329.6	3288.5	3254.7
45°	3027.5	3039.5	3095.8	3214.6	3352.5	3422.5	3540.3	3541.4	3537.2	3515.0	3489.0
47.5°	2807.7	2824.6	2898.8	3059.5	3303.9	3517.8	3721.5	3730.9	3739.7	3725.3	3713.4
50°	2515.7	2535.8	2647.0	2860.1	3205.1	3616.6	4063.7	4106.5	4146.6	4141.7	4149.8
52.5°	2203.1	2226.7	2362.8	2600.2	3035.3	3639.5	4282.5	4352.5	4422.4	4479.7	4540.6
55°	1921.0	1908.4	2044.5	2294.6	2756.0	3536.4	4479.0	4563.5	4641.5	4711.9	4784.3
57.5°	1538.7	1559.5	1696.0	1943.2	2386.3	3245.6	4614.4	4737.9	4850.1	4966.5	5069.2
60°	1124.7	1145.5	1293.6	1544.8	1985.0	2804.5	4511.0	4698.1	4877.8	5056.2	5195.5
62.5°	679.1	694.6	825.1	1064.3	1530.6	2281.6	4050.3	4295.8	4560.3	4773.4	4986.9
65°	422.8	431.6	479.8	611.3	983.1	1703.3	3309.2	3576.8	3861.7	4132.2	4354.2
67.5°	346.1	349.2	358.0	386.2	539.9	1110.7	2463.1	2700.1	2957.1	3218.8	3465.8
70°	311.3	309.1	309.1	310.9	346.1	597.2	1612.6	1767.0	1981.1	2208.8	2434.5
72.5°	281.0	278.9	275.1	269.8	282.4	364.4	833.6	950.0	1104.4	1306.6	1522.9
75°	252.6	249.7	245.1	238.4	247.2	275.1	400.3	449.2	524.4	632.0	752.7
77.5°	223.0	219.4	215.2	210.3	221.6	213.8	234.6	252.2	281.0	315.5	360.9
80°	189.6	186.4	184.9	182.5	195.9	162.9	165.6	176.6	193.4	212.1	233.2
82.5°	148.4	148.4	154.1	155.1	169.9	117.1	123.8	133.3	142.1	151.9	161.8
85°	97.8	98.5	117.4	124.9	134.0	78.8	92.9	96.1	103.0	108.6	112.9
87.5°	30.6	33.0	71.7	79.5	77.0	44.7	57.0	58.4	63.3	67.2	70.7
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8
2.5°	670.0	665.8	662.0	661.5	658.8	654.9	656.3	650.3	650.7	647.5	643.9
5°	787.9	785.0	771.0	767.1	756.6	749.8	748.8	734.7	732.9	724.9	716.1
7.5°	957.4	948.2	928.5	919.0	901.1	887.7	881.4	862.8	853.7	832.5	823.0
10°	1135.0	1123.4	1099.1	1085.8	1068.5	1047.1	1035.4	1008.3	997.8	978.5	955.2
12.5°	1299.6	1288.0	1263.0	1252.8	1229.9	1207.1	1194.4	1163.8	1150.1	1119.1	1100.9
15°	1451.9	1440.2	1418.4	1407.9	1385.1	1366.4	1349.5	1319.3	1303.1	1274.3	1250.4
17.5°	1599.6	1587.3	1568.3	1558.8	1536.6	1517.6	1499.3	1470.9	1454.3	1425.5	1404.0
20°	1736.8	1727.6	1713.9	1701.3	1679.1	1661.8	1640.0	1615.4	1591.5	1570.4	1550.0
22.5°	1856.3	1852.8	1838.0	1832.4	1813.4	1798.7	1779.6	1755.4	1738.2	1711.4	1692.5
25°	1959.4	1958.3	1951.3	1949.5	1936.1	1922.1	1917.9	1897.9	1882.0	1858.4	1838.8
27.5°	2048.0	2049.1	2047.3	2052.2	2048.8	2042.4	2042.7	2036.1	2026.9	2007.2	1989.9
30°	2146.5	2140.8	2144.0	2151.1	2153.2	2153.9	2165.5	2169.4	2168.7	2155.7	2147.2
32.5°	2285.8	2272.4	2260.1	2259.1	2266.0	2268.9	2288.5	2298.8	2307.6	2310.7	2312.2
35°	2463.4	2436.7	2411.0	2397.3	2385.3	2388.5	2402.5	2419.1	2438.4	2451.8	2467.6
37.5°	2687.1	2654.4	2609.0	2576.6	2568.5	2550.9	2560.1	2573.1	2592.2	2612.8	2640.3
40°	2958.3	2908.7	2857.6	2814.8	2791.5	2759.2	2758.8	2756.3	2768.0	2787.3	2826.0
42.5°	3219.2	3175.2	3121.1	3076.0	3045.8	3002.6	2993.8	2970.9	2976.2	2993.1	3030.7
45°	3463.6	3427.4	3394.4	3342.3	3316.6	3269.9	3255.1	3228.0	3212.9	3220.7	3258.2
47.5°	3700.3	3677.1	3642.6	3608.9	3589.2	3547.4	3528.4	3509.0	3489.7	3489.0	3528.4
50°	4161.8	4149.5	4108.7	4073.5	4083.0	4031.7	4034.8	3982.8	4006.4	4009.1	4091.8
52.5°	4595.5	4638.4	4668.6	4705.6	4729.4	4734.0	4749.9	4773.4	4801.9	4858.2	4934.8
55°	4843.8	4897.6	4928.9	4957.0	5003.5	5013.3	5039.7	5071.0	5095.9	5159.3	5224.3
57.5°	5138.9	5238.7	5287.2	5331.9	5394.5	5418.5	5462.5	5496.5	5528.9	5603.8	5682.6
60°	5320.7	5442.4	5541.2	5611.9	5690.4	5746.6	5813.1	5866.5	5942.5	6032.2	6149.7
62.5°	5176.1	5354.8	5486.0	5607.3	5713.9	5821.5	5916.8	6016.7	6132.1	6267.8	6450.0
65°	4600.4	4782.2	5006.9	5132.9	5273.9	5440.0	5584.8	5746.6	5903.9	6101.5	6370.9
67.5°	3703.5	3914.9	4167.4	4294.3	4456.5	4641.8	4804.4	5002.0	5185.6	5425.1	5758.2
70°	2669.5	2942.7	3155.2	3287.8	3477.0	3668.0	3824.8	4054.9	4206.8	4452.3	4796.6
72.5°	1690.3	1906.0	2166.2	2333.2	2501.3	2694.8	2855.2	3053.5	3195.3	3419.0	3730.9
75°	908.8	1067.8	1296.4	1455.0	1635.1	1800.4	1988.2	2121.2	2225.9	2402.9	2656.1
77.5°	426.0	522.6	638.3	760.4	882.4	1009.8	1133.5	1241.1	1286.2	1387.5	1537.0
80°	258.5	289.8	323.6	361.2	412.2	453.4	507.9	547.3	550.0	582.1	627.8
82.5°	172.7	184.3	194.5	204.0	217.0	227.2	238.9	252.6	258.2	265.6	280.3
85°	117.8	123.5	125.5	131.6	130.1	133.7	138.2	142.8	145.3	145.0	151.6
87.5°	72.4	75.3	76.7	78.1	77.0	75.6	77.7	80.2	80.9	78.8	79.5
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8	603.8
2.5°	644.7	641.5	638.3	636.3	635.6	616.9	608.9	603.5	592.3	583.2	575.7
5°	711.2	704.5	699.2	692.8	689.4	642.2	625.0	613.1	593.3	581.8	571.2
7.5°	818.1	799.4	788.5	776.2	765.7	680.6	652.0	633.4	606.0	590.5	578.6
10°	939.4	920.0	902.9	883.8	867.4	731.5	690.1	661.2	625.0	605.0	589.1
12.5°	1074.8	1055.8	1034.0	1009.8	988.7	796.3	738.6	697.4	647.8	621.1	598.9
15°	1234.9	1201.5	1175.1	1146.9	1122.3	873.6	795.2	738.3	672.1	635.9	606.3
17.5°	1383.6	1348.5	1312.5	1288.0	1259.5	960.6	852.2	779.7	692.1	645.4	607.7
20°	1528.9	1490.5	1459.6	1426.5	1396.6	1050.6	913.1	816.3	705.2	645.8	598.9
22.5°	1656.9	1633.0	1598.6	1562.7	1532.4	1140.6	970.1	847.3	710.1	637.6	583.5
25°	1802.5	1777.2	1735.0	1704.7	1671.0	1232.3	1025.9	871.1	707.3	622.6	559.6
27.5°	1957.9	1929.8	1886.6	1854.9	1814.1	1327.7	1077.3	888.4	696.7	597.9	527.5
30°	2120.1	2094.4	2051.8	2019.9	1978.7	1428.7	1134.7	900.0	675.7	563.7	490.3
32.5°	2294.2	2272.8	2230.5	2197.1	2153.2	1538.0	1188.1	903.6	643.6	523.3	450.9
35°	2459.5	2444.8	2409.3	2378.0	2332.2	1641.4	1244.7	901.8	605.7	479.0	415.0
37.5°	2645.6	2636.8	2619.2	2579.5	2523.5	1781.8	1312.5	894.4	559.2	435.1	387.6
40°	2843.9	2844.6	2825.6	2798.6	2746.5	1952.0	1393.5	879.9	508.6	396.4	362.6
42.5°	3053.9	3064.8	3055.7	3036.3	2986.4	2123.6	1490.2	862.3	459.3	358.7	338.0
45°	3294.5	3307.8	3321.9	3293.4	3244.9	2350.1	1617.5	839.5	406.2	327.4	321.1
47.5°	3571.9	3593.1	3605.7	3606.1	3557.5	2630.8	1824.3	825.8	359.1	306.4	313.0
50°	4157.6	4164.2	4194.2	4246.2	4208.9	3280.4	2185.5	817.3	327.1	293.3	307.1
52.5°	5001.3	5074.9	5126.5	5123.0	5072.4	3693.0	2384.6	773.8	308.1	288.4	304.2
55°	5344.9	5436.8	5532.4	5557.7	5518.3	4045.1	2572.7	730.2	298.9	292.0	305.2
57.5°	5802.9	5957.7	6088.8	6144.0	6087.1	4495.6	2820.4	707.3	296.1	301.5	312.0
60°	6337.8	6529.2	6701.5	6800.7	6800.7	5013.3	3077.1	697.8	292.3	315.5	323.3
62.5°	6681.4	6962.5	7222.7	7368.0	7363.8	5373.8	3191.1	665.4	283.5	325.3	338.7
65°	6682.8	7017.0	7348.7	7511.8	7520.3	5329.5	3002.9	587.7	267.3	326.7	354.1
67.5°	6125.7	6482.0	6868.6	7051.1	7093.3	4906.0	2599.5	483.2	240.9	312.7	359.8
70°	5173.7	5521.5	5916.1	6095.5	6170.4	4182.2	2093.8	372.5	207.1	281.7	348.2
72.5°	4075.9	4417.1	4691.9	4823.0	4881.4	3196.7	1524.7	281.4	169.9	237.4	316.9
75°	2885.7	3141.8	3287.8	3317.0	3326.1	1927.0	926.4	209.3	139.9	184.6	267.6
77.5°	1628.7	1738.5	1726.5	1739.5	1631.2	743.9	403.5	149.9	115.4	140.3	207.6
80°	635.9	655.6	615.8	603.5	553.6	276.8	178.0	104.4	92.2	106.2	145.3
82.5°	280.3	289.5	281.0	283.2	270.8	142.8	106.6	75.6	70.4	77.7	96.4
85°	154.4	157.2	156.5	161.1	154.4	57.0	50.6	46.4	49.2	52.8	61.9
87.5°	75.3	76.0	73.6	77.3	74.9	28.8	25.0	26.4	28.8	29.6	29.6
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):

	135°	145°	155°	165°	175°	180°
0°	603.8	603.8	603.8	603.8	603.8	603.8
2.5°	570.5	567.6	568.0	567.3	565.9	565.9
5°	565.6	562.7	562.7	562.0	560.3	560.6
7.5°	570.5	565.9	564.2	561.7	559.2	559.2
10°	576.1	568.0	563.1	558.8	555.7	555.7
12.5°	580.3	567.6	559.6	553.9	550.8	550.8
15°	581.8	565.2	553.9	547.3	544.4	544.1
17.5°	577.1	555.7	542.0	534.3	530.7	529.7
20°	563.1	538.5	521.9	513.1	508.2	506.5
22.5°	542.0	513.8	494.5	485.4	479.0	478.0
25°	512.4	482.2	463.2	454.4	450.9	449.8
27.5°	478.0	449.8	433.6	428.0	424.8	424.5
30°	445.3	421.4	409.4	405.2	401.3	400.6
32.5°	414.7	399.6	395.0	389.0	379.8	378.8
35°	392.8	391.5	388.3	374.9	363.7	360.5
37.5°	379.5	392.5	376.3	350.0	341.9	341.2
40°	371.7	381.6	353.8	344.6	345.3	344.6
42.5°	354.1	364.4	354.6	350.3	353.1	353.8
45°	336.6	347.8	359.8	357.0	363.7	363.7
47.5°	326.7	343.6	359.5	359.5	369.3	372.8
50°	315.5	340.1	353.8	358.7	366.5	363.7
52.5°	314.8	334.1	345.8	354.6	358.0	354.9
55°	315.9	329.2	337.7	347.5	351.7	352.1
57.5°	317.2	326.4	332.0	336.6	349.2	349.2
60°	320.8	324.0	327.1	329.6	346.1	346.5
62.5°	326.4	321.5	320.8	323.3	344.3	342.9
65°	335.2	317.9	312.7	315.2	342.6	338.4
67.5°	347.2	312.7	302.5	304.2	341.2	332.0
70°	358.0	304.2	289.8	288.1	327.8	311.6
72.5°	359.1	294.4	272.2	267.0	284.9	269.4
75°	341.5	287.7	252.9	237.4	235.3	233.2
77.5°	307.7	283.9	230.4	206.1	201.9	203.3
80°	257.5	269.4	203.3	174.4	197.3	194.9
82.5°	192.4	237.7	172.7	154.4	154.1	136.2
85°	106.9	185.4	140.7	115.7	80.5	78.1
87.5°	29.9	103.0	98.5	65.5	44.7	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)