

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: P200021

Luminaire Tested: **GWC-AF-01-LED-E1-T2R-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200021  
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-7030-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5087.9 lumens  
Efficiency: N/A  
Efficacy: 115.6 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 - G1

Input Watts (W): 44  
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

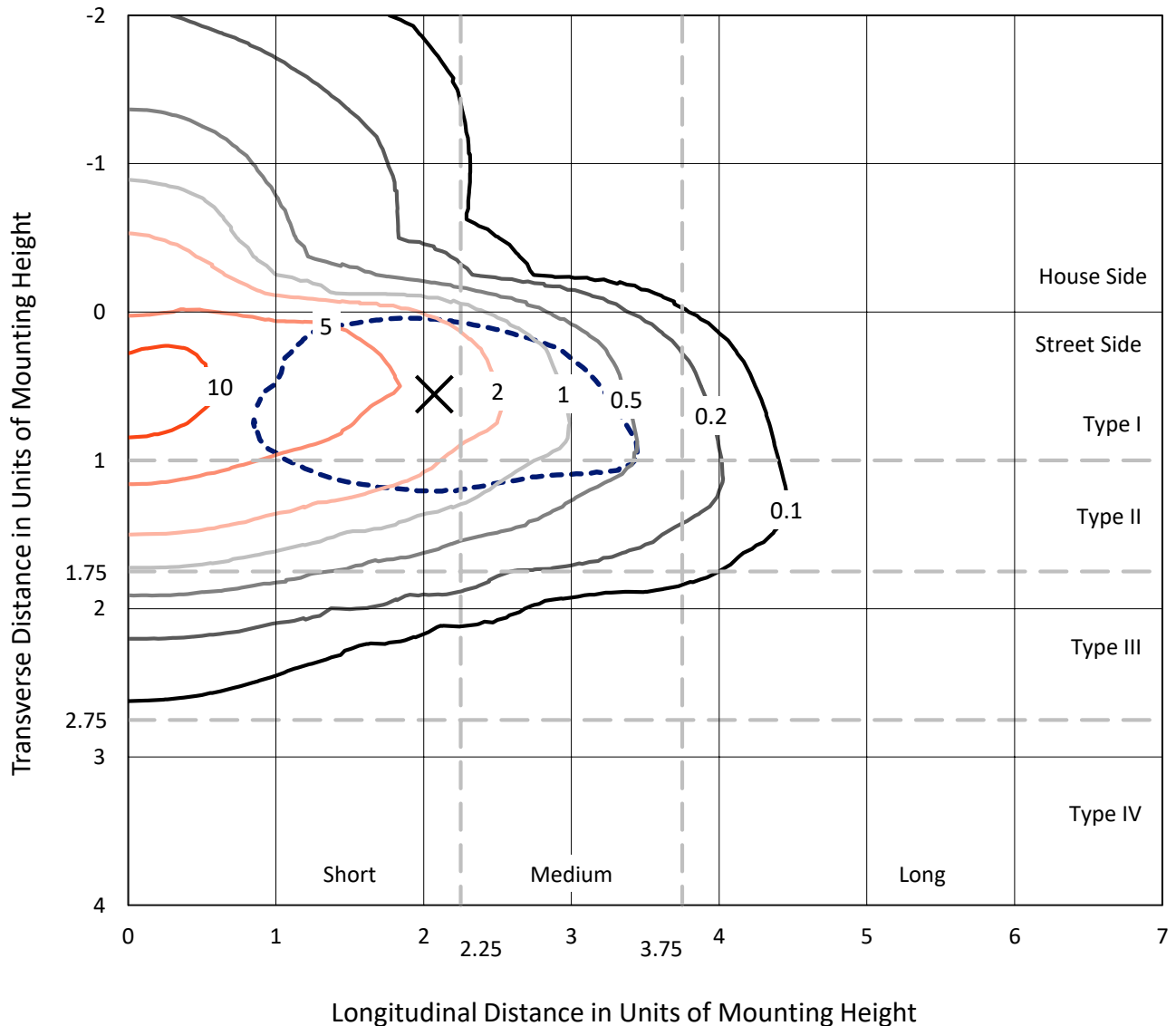


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### Iso-Footcandle Lines of Horizontal Illumination

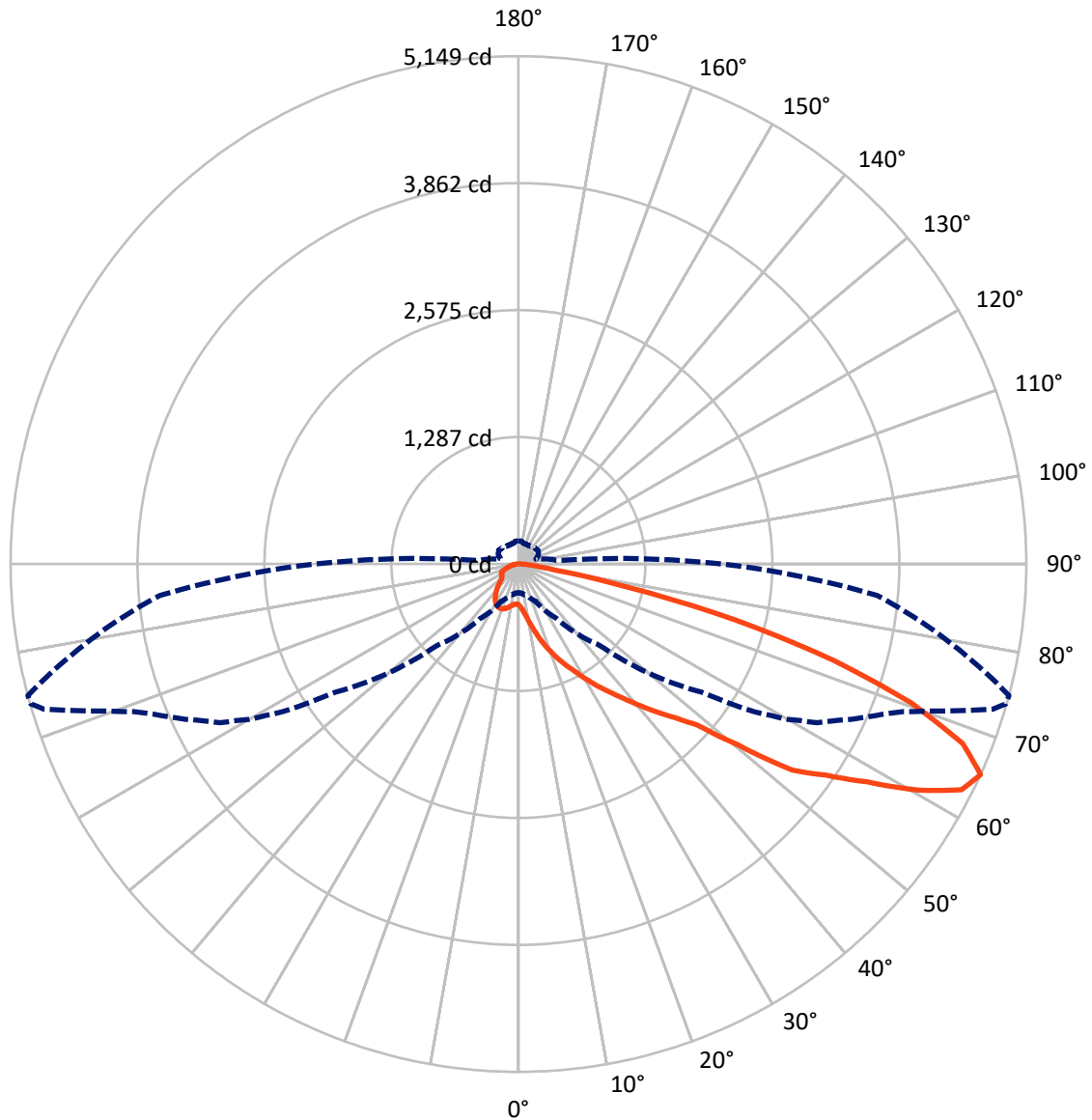
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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
<b>House Side</b>	Lumens	784.4	0.0	784.4
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	4303.5	0.0	4303.5
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	5087.9	0.0	5087.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.1	1.0
10°-20°	199.7	3.9
20°-30°	409.7	8.1
30°-40°	689.3	13.5
40°-50°	952.4	18.7
50°-60°	1188.9	23.4
60°-70°	1069.9	21.0
70°-80°	448.5	8.8
80°-90°	78.4	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°	5087.9	100.0
0°-180°	5087.9	100.0



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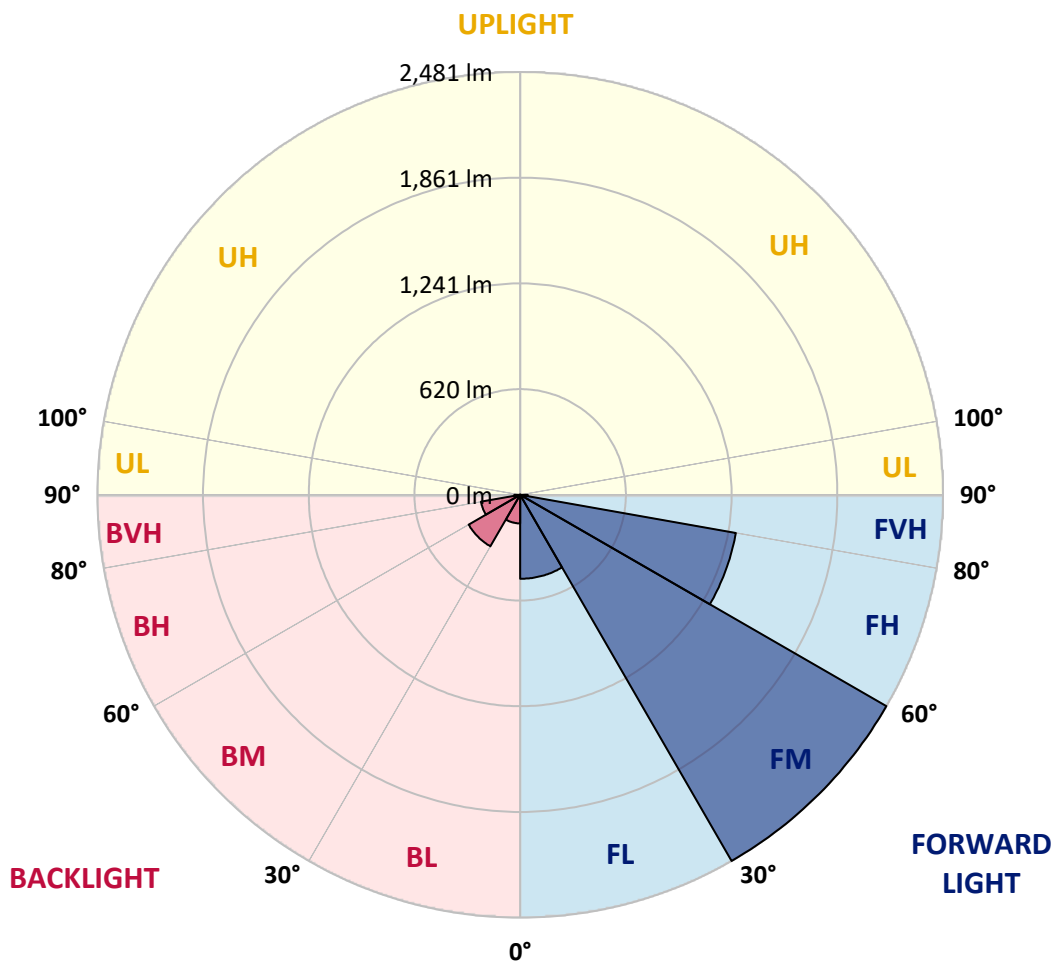
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.7	9.7			
FM (30°-60°)	2481.5	48.8			
FH (60°-80°)	1285.2	25.3			G1/1800
FVH (80°-90°)	44.0	0.9			G1/100
BL (0°-30°)	167.8	3.3	B1/500		
BM (30°-60°)	349.2	6.9	B1/1000		
BH (60°-80°)	233.2	4.6	B1/500		G1/500
BVH (80°-90°)	34.3	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5
2.5°	525.0	519.2	520.6	511.0	499.2	483.8	466.7	466.5	466.7	465.1	458.7
5°	728.0	721.0	718.3	696.6	664.9	619.6	570.5	565.2	563.0	557.6	544.8
7.5°	876.1	872.3	868.2	851.7	822.8	772.3	706.3	695.0	684.2	681.5	667.1
10°	971.7	970.7	962.0	957.8	939.7	895.9	831.5	820.7	808.9	804.8	789.7
12.5°	1047.3	1047.1	1043.0	1044.2	1028.5	996.7	941.3	931.5	922.8	910.3	899.4
15°	1099.6	1099.9	1105.9	1112.6	1110.2	1088.8	1036.7	1032.4	1024.9	1016.3	1003.5
17.5°	1142.5	1143.7	1149.9	1162.1	1175.5	1173.7	1132.6	1129.0	1122.5	1110.7	1103.9
20°	1239.3	1243.9	1231.7	1231.7	1233.3	1239.7	1220.0	1217.1	1207.9	1201.7	1196.4
22.5°	1402.7	1408.1	1380.8	1353.1	1325.9	1306.2	1286.4	1290.1	1283.8	1279.4	1276.3
25°	1615.2	1619.3	1575.2	1528.5	1473.1	1400.8	1351.9	1349.8	1346.5	1343.8	1342.4
27.5°	1815.1	1816.8	1775.1	1706.7	1642.4	1538.6	1418.4	1415.7	1411.7	1406.6	1402.3
30°	1986.1	1985.5	1942.7	1877.5	1808.5	1693.7	1519.4	1511.1	1499.1	1485.3	1474.8
32.5°	2134.2	2133.4	2086.5	2018.8	1946.5	1847.3	1657.6	1640.8	1622.0	1595.2	1579.1
35°	2250.7	2250.2	2205.9	2135.4	2052.6	1992.1	1816.0	1795.3	1771.5	1735.6	1710.8
37.5°	2294.8	2294.8	2269.9	2221.8	2148.6	2107.2	1992.1	1967.1	1941.5	1900.8	1872.9
40°	2269.0	2269.5	2274.8	2265.9	2230.2	2198.4	2156.3	2141.4	2119.5	2082.8	2053.7
42.5°	2182.5	2185.2	2220.3	2263.5	2281.3	2276.3	2302.0	2295.3	2279.8	2251.7	2228.6
45°	2073.0	2081.1	2119.7	2201.1	2295.5	2343.4	2424.1	2424.8	2421.9	2406.8	2389.0
47.5°	1922.5	1934.0	1984.9	2094.9	2262.2	2408.7	2548.1	2554.6	2560.6	2550.8	2542.5
50°	1722.6	1736.3	1812.4	1958.4	2194.5	2476.4	2782.4	2811.8	2839.3	2835.9	2841.5
52.5°	1508.5	1524.6	1617.9	1780.4	2078.2	2492.0	2932.2	2980.1	3028.0	3067.3	3109.0
55°	1315.3	1306.7	1399.8	1571.2	1887.0	2421.5	3066.8	3124.6	3178.1	3226.3	3275.9
57.5°	1053.6	1067.8	1161.2	1330.6	1634.0	2222.3	3159.6	3244.1	3320.9	3400.6	3471.0
60°	770.1	784.4	885.8	1057.6	1359.2	1920.3	3088.7	3216.9	3339.9	3462.1	3557.4
62.5°	465.1	475.6	565.0	728.8	1048.1	1562.2	2773.3	2941.4	3122.4	3268.4	3414.6
65°	289.5	295.5	328.5	418.6	673.1	1166.3	2265.9	2449.1	2644.2	2829.4	2981.3
67.5°	236.9	239.1	245.1	264.4	369.7	760.6	1686.5	1848.8	2024.8	2204.0	2373.1
70°	213.1	211.7	211.7	212.9	236.9	408.9	1104.1	1209.8	1356.6	1512.4	1667.0
72.5°	192.4	191.0	188.3	184.7	193.3	249.5	570.8	650.5	756.1	894.6	1042.7
75°	172.9	171.0	167.9	163.3	169.3	188.3	274.1	307.5	359.1	432.7	515.3
77.5°	152.7	150.3	147.4	144.0	151.8	146.4	160.6	172.7	192.4	216.0	247.0
80°	129.9	127.6	126.6	125.0	134.2	111.5	113.4	120.9	132.4	145.2	159.7
82.5°	101.6	101.6	105.5	106.2	116.3	80.2	84.7	91.3	97.3	104.1	110.7
85°	66.9	67.5	80.4	85.5	91.7	53.9	63.6	65.7	70.6	74.4	77.3
87.5°	20.9	22.7	49.1	54.5	52.7	30.6	39.0	40.0	43.4	46.0	48.4
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°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5
2.5°	458.7	455.8	453.3	452.9	451.0	448.4	449.4	445.3	445.5	443.4	440.9
5°	539.4	537.5	527.9	525.2	518.0	513.4	512.7	503.1	501.9	496.3	490.3
7.5°	655.5	649.3	635.7	629.3	616.9	607.8	603.5	590.7	584.5	570.0	563.6
10°	777.1	769.1	752.6	743.4	731.7	716.9	709.0	690.4	683.2	670.0	654.1
12.5°	889.9	881.9	864.7	857.8	842.2	826.5	817.8	796.9	787.5	766.2	753.8
15°	994.1	986.1	971.2	964.0	948.3	935.6	924.0	903.3	892.2	872.5	856.1
17.5°	1095.2	1086.9	1073.9	1067.3	1052.2	1039.2	1026.6	1007.2	995.8	976.0	961.4
20°	1189.2	1182.9	1173.5	1164.8	1149.7	1137.9	1122.9	1106.1	1089.8	1075.3	1061.3
22.5°	1271.1	1268.6	1258.5	1254.6	1241.6	1231.5	1218.5	1201.9	1190.2	1171.8	1158.8
25°	1341.6	1340.9	1336.0	1334.9	1325.7	1316.1	1313.2	1299.4	1288.7	1272.5	1259.0
27.5°	1402.3	1403.1	1401.8	1405.2	1402.7	1398.4	1398.7	1394.1	1387.8	1374.4	1362.6
30°	1469.8	1465.9	1468.0	1472.9	1474.3	1474.8	1482.8	1485.3	1484.9	1476.0	1470.2
32.5°	1565.1	1555.9	1547.5	1546.8	1551.6	1553.5	1567.0	1573.9	1580.1	1582.2	1583.2
35°	1686.7	1668.4	1650.9	1641.4	1633.2	1635.4	1645.1	1656.3	1669.6	1678.8	1689.6
37.5°	1839.9	1817.4	1786.4	1764.3	1758.7	1746.7	1752.9	1761.8	1774.8	1789.1	1807.9
40°	2025.5	1991.5	1956.6	1927.3	1911.4	1889.2	1889.0	1887.3	1895.2	1908.5	1934.9
42.5°	2204.2	2174.1	2137.1	2106.3	2085.5	2055.9	2049.9	2034.2	2037.8	2049.3	2075.1
45°	2371.6	2346.7	2324.2	2288.5	2270.9	2238.9	2228.8	2210.2	2199.9	2205.2	2231.0
47.5°	2533.6	2517.7	2494.2	2471.0	2457.6	2428.9	2415.9	2402.7	2389.4	2389.0	2415.9
50°	2849.6	2841.2	2813.2	2789.2	2795.7	2760.5	2762.7	2727.1	2743.2	2745.1	2801.7
52.5°	3146.6	3175.9	3196.7	3221.9	3238.3	3241.4	3252.3	3268.4	3288.0	3326.4	3378.9
55°	3316.5	3353.5	3374.8	3394.1	3425.9	3432.6	3450.7	3472.2	3489.2	3532.6	3577.1
57.5°	3518.7	3587.0	3620.3	3650.9	3693.7	3710.1	3740.1	3763.6	3785.7	3837.0	3890.9
60°	3643.2	3726.5	3794.2	3842.5	3896.2	3934.8	3980.3	4016.9	4068.9	4130.4	4210.7
62.5°	3544.1	3666.5	3756.4	3839.4	3912.3	3986.1	4051.3	4119.7	4198.7	4291.7	4416.4
65°	3149.9	3274.4	3428.3	3514.5	3611.1	3724.8	3824.0	3934.8	4042.4	4177.7	4362.2
67.5°	2535.9	2680.6	2853.5	2940.4	3051.4	3178.3	3289.6	3424.9	3550.7	3714.7	3942.7
70°	1827.9	2015.0	2160.4	2251.2	2380.8	2511.5	2618.9	2776.4	2880.5	3048.5	3284.3
72.5°	1157.4	1305.0	1483.2	1597.6	1712.7	1845.2	1955.0	2090.8	2187.9	2341.1	2554.6
75°	622.3	731.1	887.6	996.3	1119.6	1232.7	1361.4	1452.4	1524.1	1645.3	1818.6
77.5°	291.6	357.9	437.0	520.6	604.2	691.4	776.1	849.8	880.6	950.0	1052.4
80°	177.0	198.5	221.6	247.4	282.3	310.4	347.8	374.7	376.7	398.6	429.8
82.5°	118.3	126.2	133.2	139.6	148.5	155.5	163.5	172.9	176.8	181.8	191.9
85°	80.7	84.5	85.9	90.1	89.1	91.5	94.6	97.7	99.5	99.2	103.8
87.5°	49.6	51.6	52.5	53.5	52.7	51.8	53.3	54.9	55.4	53.9	54.5
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°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5
2.5°	441.4	439.3	437.0	435.6	435.2	422.4	416.8	413.2	405.6	399.2	394.2
5°	487.0	482.4	478.7	474.4	472.1	439.7	427.9	419.7	406.2	398.3	391.1
7.5°	560.1	547.3	539.9	531.5	524.3	466.0	446.5	433.7	414.9	404.4	396.1
10°	643.3	629.9	618.2	605.1	593.9	500.9	472.5	452.7	427.9	414.2	403.4
12.5°	736.0	723.0	708.0	691.4	677.0	545.2	505.7	477.5	443.6	425.3	410.1
15°	845.5	822.6	804.6	785.4	768.5	598.2	544.4	505.5	460.2	435.4	415.1
17.5°	947.3	923.3	898.8	881.9	862.4	657.7	583.5	533.9	473.9	441.9	416.1
20°	1046.8	1020.6	999.4	976.8	956.2	719.3	625.2	558.9	482.8	442.2	410.1
22.5°	1134.5	1118.1	1094.5	1070.0	1049.3	781.0	664.2	580.1	486.2	436.6	399.6
25°	1234.2	1216.8	1187.9	1167.3	1144.1	843.8	702.4	596.5	484.3	426.3	383.1
27.5°	1340.7	1321.4	1291.8	1270.1	1242.2	909.1	737.7	608.4	477.1	409.4	361.2
30°	1451.6	1434.1	1405.0	1383.0	1354.8	978.2	776.9	616.3	462.6	386.0	335.8
32.5°	1570.8	1556.2	1527.3	1504.5	1474.3	1053.1	813.5	618.7	440.7	358.3	308.7
35°	1684.0	1673.9	1649.7	1628.2	1596.8	1123.9	852.3	617.5	414.7	328.0	284.2
37.5°	1811.4	1805.4	1793.4	1766.2	1727.9	1220.0	898.8	612.4	382.9	297.9	265.4
40°	1947.3	1947.7	1934.7	1916.3	1880.6	1336.6	954.1	602.6	348.2	271.4	248.3
42.5°	2091.0	2098.5	2092.3	2079.0	2044.8	1454.1	1020.4	590.5	314.5	245.6	231.5
45°	2255.8	2264.9	2274.6	2255.0	2221.8	1609.2	1107.6	574.8	278.2	224.2	219.9
47.5°	2445.8	2460.2	2468.9	2469.1	2435.9	1801.3	1249.1	565.4	245.9	209.8	214.3
50°	2846.7	2851.3	2871.8	2907.4	2881.8	2246.1	1496.5	559.7	223.9	200.9	210.2
52.5°	3424.5	3474.8	3510.2	3507.8	3473.1	2528.6	1632.8	529.8	210.9	197.5	208.3
55°	3659.7	3722.6	3788.2	3805.4	3778.5	2769.7	1761.6	500.0	204.7	199.9	209.0
57.5°	3973.3	4079.2	4169.1	4206.9	4167.8	3078.2	1931.2	484.3	202.8	206.3	213.6
60°	4339.6	4470.6	4588.6	4656.5	4656.5	3432.6	2106.9	477.7	200.1	216.0	221.4
62.5°	4574.9	4767.3	4945.5	5044.9	5042.0	3679.5	2185.0	455.6	194.1	222.8	231.9
65°	4575.9	4804.7	5031.7	5143.4	5149.2	3649.2	2056.1	402.5	183.0	223.7	242.5
67.5°	4194.4	4438.3	4702.9	4828.0	4856.9	3359.2	1780.0	330.9	165.0	214.1	246.4
70°	3542.5	3780.6	4050.9	4173.6	4225.0	2863.6	1433.6	255.0	141.9	192.9	238.4
72.5°	2790.9	3024.5	3212.6	3302.3	3342.3	2188.9	1044.0	192.7	116.3	162.5	217.0
75°	1976.0	2151.3	2251.2	2271.1	2277.5	1319.5	634.3	143.3	95.8	126.4	183.2
77.5°	1115.2	1190.4	1182.2	1191.1	1116.9	509.3	276.3	102.6	78.9	96.1	142.1
80°	435.4	448.9	421.7	413.2	379.0	189.6	121.9	71.5	63.0	72.7	99.5
82.5°	191.9	198.2	192.4	193.9	185.4	97.7	72.9	51.8	48.1	53.3	65.9
85°	105.7	107.6	107.2	110.3	105.7	39.0	34.7	31.8	33.7	36.1	42.4
87.5°	51.6	52.0	50.4	53.0	51.3	19.8	17.1	18.0	19.8	20.2	20.2
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°	413.5	413.5	413.5	413.5	413.5	413.5
2.5°	390.6	388.7	388.9	388.5	387.5	387.5
5°	387.2	385.3	385.3	384.8	383.7	383.9
7.5°	390.6	387.5	386.2	384.6	382.9	382.9
10°	394.5	388.9	385.6	382.7	380.5	380.5
12.5°	397.3	388.7	383.1	379.3	377.1	377.1
15°	398.3	387.0	379.3	374.7	372.8	372.6
17.5°	395.2	380.5	371.1	365.8	363.4	362.7
20°	385.6	368.7	357.3	351.3	348.0	346.8
22.5°	371.1	351.9	338.5	332.3	328.0	327.3
25°	350.9	330.2	317.2	311.2	308.7	308.0
27.5°	327.3	308.0	297.0	293.1	290.9	290.6
30°	304.9	288.5	280.3	277.4	274.7	274.3
32.5°	283.9	273.6	270.5	266.4	260.0	259.4
35°	268.9	268.0	265.8	256.7	249.0	246.8
37.5°	259.8	268.7	257.7	239.6	234.0	233.6
40°	254.6	261.3	242.3	236.0	236.5	236.0
42.5°	242.5	249.5	242.7	239.8	241.8	242.3
45°	230.5	238.1	246.4	244.5	249.0	249.0
47.5°	223.7	235.3	246.1	246.1	252.8	255.3
50°	216.0	232.9	242.3	245.6	250.9	249.0
52.5°	215.6	228.8	236.7	242.7	245.1	243.0
55°	216.2	225.4	231.1	237.9	240.8	241.0
57.5°	217.2	223.5	227.4	230.5	239.1	239.1
60°	219.6	221.8	223.9	225.7	236.9	237.2
62.5°	223.5	220.1	219.6	221.4	235.8	234.8
65°	229.5	217.7	214.1	215.8	234.6	231.7
67.5°	237.7	214.1	207.1	208.3	233.6	227.4
70°	245.1	208.3	198.5	197.2	224.5	213.4
72.5°	245.9	201.6	186.4	182.8	195.1	184.4
75°	233.8	197.0	173.1	162.5	161.1	159.7
77.5°	210.7	194.3	157.8	141.1	138.2	139.2
80°	176.3	184.4	139.2	119.4	135.1	133.4
82.5°	131.7	162.8	118.3	105.7	105.5	93.2
85°	73.3	127.0	96.3	79.3	55.1	53.5
87.5°	20.5	70.6	67.5	44.8	30.6	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)