

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637657

Luminaire Tested: GWS-SA4D-730-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637657  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

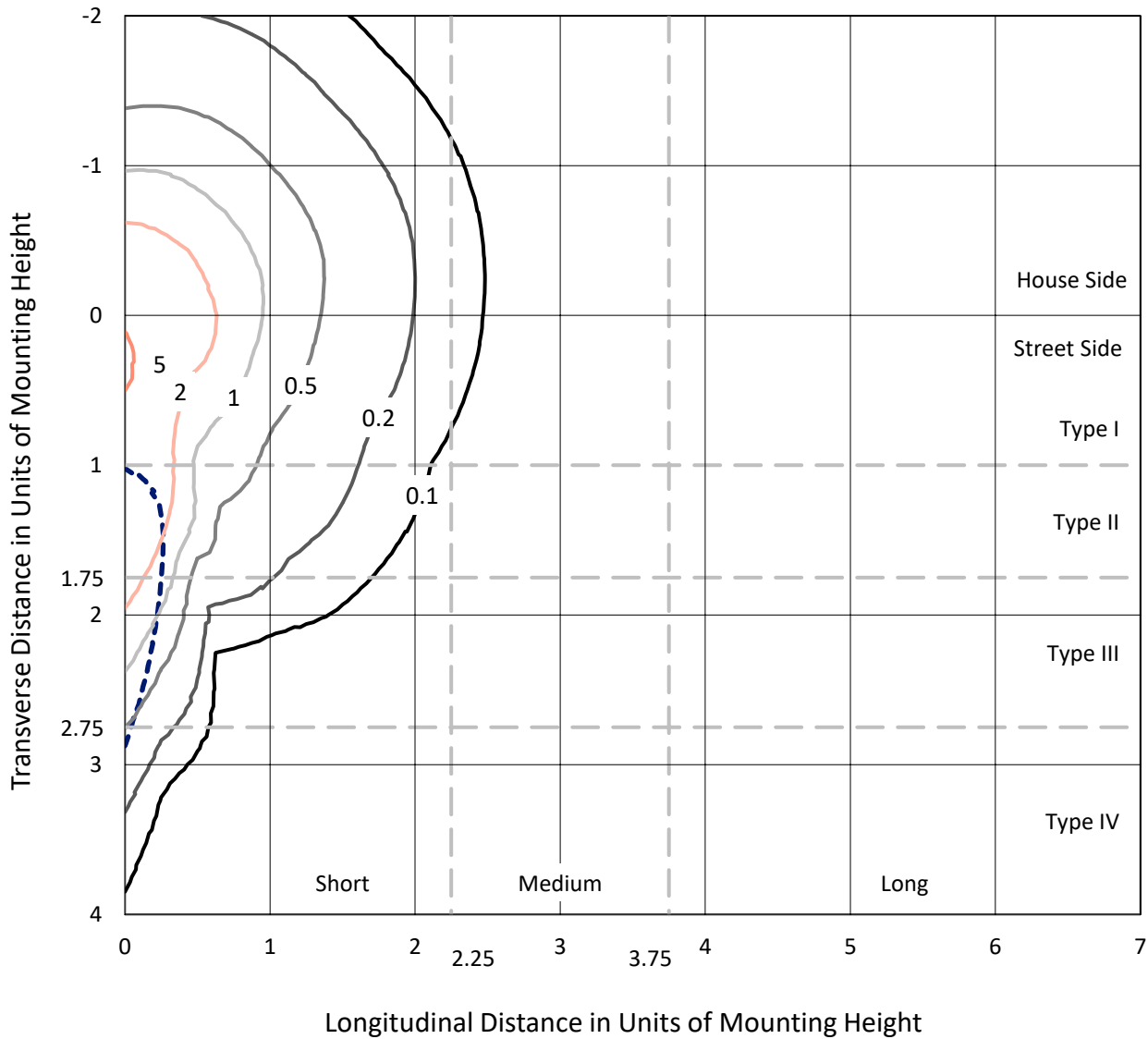
Lumens per Lamp: N/A  
Luminaire Lumens: 20900.4 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

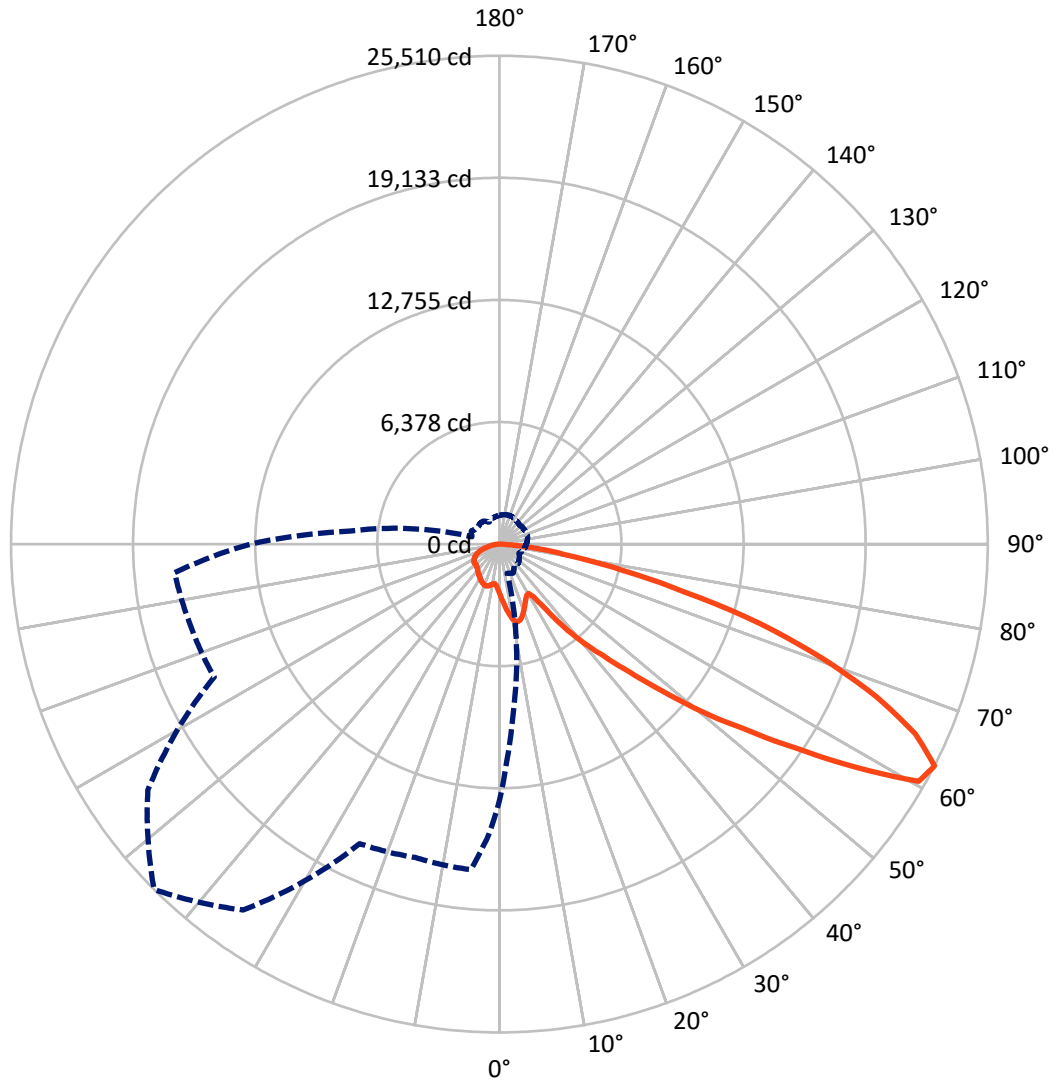
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4997.3	0.0	4997.3
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	15903.1	0.0	15903.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	20900.4	0.0	20900.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.7	1.2
10°-20°	834.3	4.0
20°-30°	1313.4	6.3
30°-40°	1800.3	8.6
40°-50°	2809.0	13.4
50°-60°	4843.3	23.2
60°-70°	5612.7	26.9
70°-80°	2962.7	14.2
80°-90°	468.0	2.2
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°	20900.4	100.0
0°-180°	20900.4	100.0

**Coefficient of Utilization**



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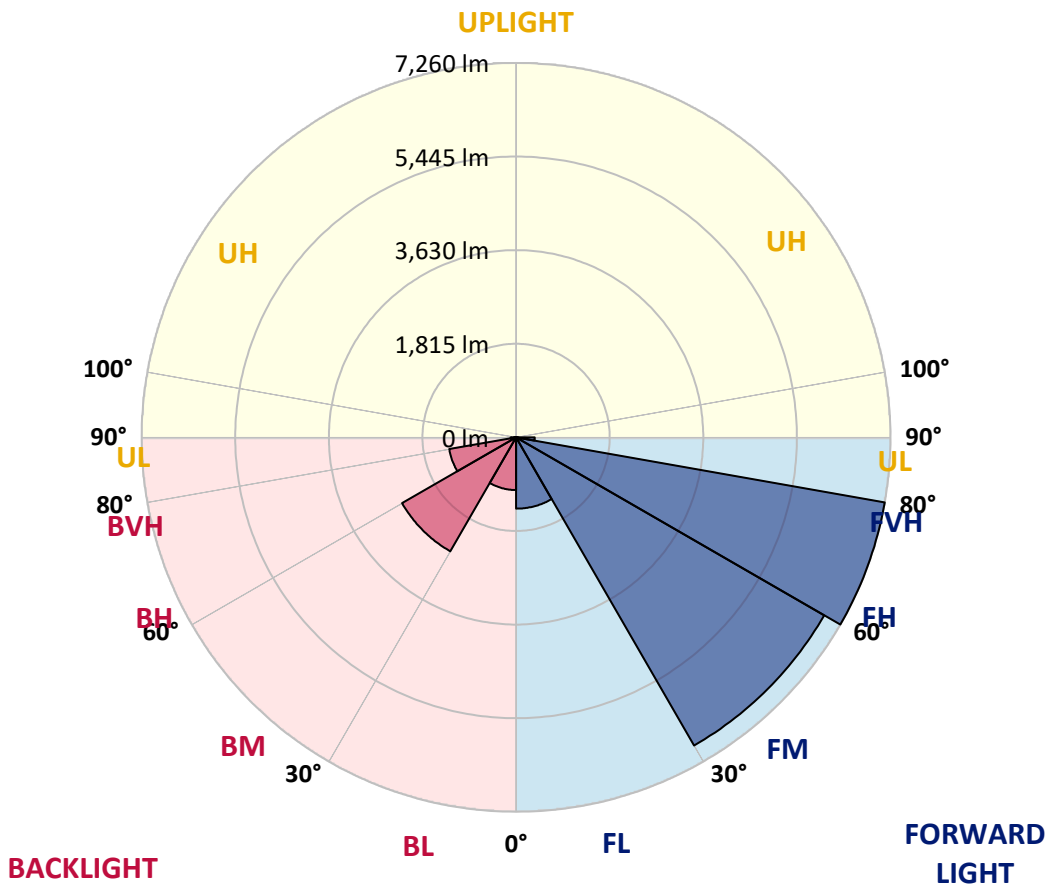
CATALOG NUMBER: GWS-SA4D-730-U-SLL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1382.3	6.6			
FM (30°-60°)	6900.0	33.0			
FH (60°-80°)	7259.6	34.7			G3/7500
FVH (80°-90°)	361.2	1.7			G3/500
BL (0°-30°)	1022.1	4.9	B3/2500		
BM (30°-60°)	2552.6	12.2	B3/5000		
BH (60°-80°)	1315.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	106.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8
2.5°	2831.3	2820.1	2804.1	2749.7	2716.2	2677.8	2637.8	2591.5	2538.7	2501.9	2465.2
5°	3071.1	3053.5	3015.1	2885.6	2796.1	2698.6	2617.0	2524.3	2433.2	2370.8	2308.5
7.5°	3301.3	3278.9	3219.7	3021.5	2876.0	2735.3	2612.2	2478.0	2342.1	2249.3	2175.8
10°	3531.5	3485.1	3410.0	3151.0	2959.2	2796.1	2655.4	2490.7	2310.1	2183.8	2105.5
12.5°	3707.3	3664.2	3582.6	3269.3	3042.3	2837.7	2679.4	2527.5	2374.0	2239.7	2159.8
15°	3872.0	3816.0	3723.3	3379.6	3111.0	2836.1	2631.4	2498.7	2476.4	2442.8	2338.9
17.5°	3990.3	3939.1	3843.2	3469.1	3149.4	2786.5	2498.7	2420.4	2521.1	2623.4	2524.3
20°	4094.2	4035.1	3937.5	3531.5	3157.4	2676.2	2337.3	2338.9	2497.1	2637.8	2613.8
22.5°	4182.1	4116.6	4030.3	3601.8	3154.2	2522.7	2196.6	2292.5	2450.8	2561.1	2564.3
25°	4290.9	4236.5	4164.6	3705.7	3154.2	2366.0	2094.3	2236.6	2372.4	2465.2	2462.0
27.5°	4423.5	4386.8	4327.6	3864.0	3183.0	2235.0	2036.7	2164.6	2271.7	2351.7	2350.1
30°	4572.2	4538.7	4493.9	4031.9	3232.5	2137.4	2004.7	2075.1	2153.4	2217.4	2217.4
32.5°	4724.1	4711.3	4663.3	4166.2	3194.2	2107.1	1977.6	1985.6	2027.1	2079.9	2075.1
35°	4935.1	4922.3	4861.6	4270.1	3027.9	2063.9	1934.4	1894.4	1899.2	1932.8	1944.0
37.5°	5243.7	5224.5	5135.0	4391.6	2776.9	1955.2	1864.1	1798.5	1784.1	1798.5	1819.3
40°	5616.2	5587.4	5465.9	4556.2	2487.5	1808.1	1753.8	1699.4	1675.4	1680.2	1704.2
42.5°	6083.0	6022.2	5848.0	4730.5	2201.4	1678.6	1630.7	1597.1	1569.9	1566.7	1613.1
45°	6840.7	6674.5	6397.9	4885.6	1960.0	1609.9	1520.3	1496.4	1474.0	1486.8	1541.1
47.5°	8164.5	7857.5	7318.8	5018.3	1812.9	1611.5	1432.4	1406.8	1405.2	1430.8	1491.6
50°	9983.8	9540.9	8709.6	5107.8	1736.2	1630.7	1379.7	1338.1	1368.5	1394.0	1451.6
52.5°	11726.3	11050.1	10060.5	5106.2	1702.6	1633.9	1394.0	1274.1	1368.5	1374.9	1429.2
55°	13214.7	11990.1	10425.0	4581.8	1654.6	1621.1	1450.0	1224.6	1350.9	1374.9	1418.0
57.5°	14397.7	12588.0	10397.8	3700.9	1800.1	1550.7	1483.6	1213.4	1299.7	1378.1	1427.6
60°	14266.6	12314.6	9728.0	2271.7	1785.7	1426.0	1478.8	1234.2	1213.4	1334.9	1416.4
62.5°	13395.3	11334.6	8575.3	1576.3	1677.0	1354.1	1400.4	1270.9	1133.5	1272.5	1362.1
65°	12175.5	10070.1	7146.1	1208.6	1389.3	1357.3	1267.8	1245.4	1063.1	1173.4	1269.4
67.5°	10562.5	8501.8	5641.7	957.6	968.8	1175.0	1151.0	1106.3	997.6	1085.5	1171.8
70°	7940.6	6204.5	3881.6	770.6	733.8	981.6	1034.3	994.4	933.6	959.2	1050.3
72.5°	5595.4	4051.1	2126.2	610.7	565.9	754.6	898.5	892.1	824.9	844.1	933.6
75°	4158.2	2866.4	1328.5	482.8	460.4	540.4	753.0	772.2	716.2	738.6	807.3
77.5°	2767.3	1856.1	738.6	358.1	358.1	394.9	561.1	650.7	609.1	626.7	674.6
80°	1526.7	944.8	369.3	235.0	241.4	271.8	409.3	468.4	470.0	513.2	526.0
82.5°	482.8	300.6	164.7	137.5	129.5	155.1	263.8	335.7	313.3	399.7	367.7
85°	110.3	70.3	30.4	30.4	33.6	51.2	100.7	179.1	228.6	275.0	199.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	70.3	103.9	92.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8
2.5°	2442.8	2410.8	2401.2	2374.0	2370.8	2345.3	2335.7	2335.7	2346.9	2346.9	2358.1
5°	2282.9	2242.9	2220.6	2188.6	2180.6	2161.4	2148.6	2150.2	2164.6	2174.2	2193.4
7.5°	2142.2	2115.1	2099.1	2084.7	2081.5	2078.3	2063.9	2062.3	2067.1	2081.5	2095.9
10°	2083.1	2063.9	2068.7	2079.9	2097.5	2107.1	2094.3	2087.9	2083.1	2092.7	2105.5
12.5°	2140.6	2121.4	2131.0	2150.2	2174.2	2183.8	2179.0	2177.4	2182.2	2219.0	2246.1
15°	2266.9	2230.2	2217.4	2225.4	2244.5	2254.1	2249.3	2255.7	2286.1	2382.0	2450.8
17.5°	2423.6	2334.1	2282.9	2268.5	2276.5	2284.5	2284.5	2300.5	2353.3	2493.9	2580.3
20°	2508.3	2391.6	2305.3	2270.1	2273.3	2281.3	2281.3	2303.7	2362.8	2513.1	2569.1
22.5°	2485.9	2378.8	2273.3	2235.0	2236.6	2242.9	2242.9	2262.1	2314.9	2447.6	2473.2
25°	2398.0	2303.7	2199.8	2166.2	2169.4	2180.6	2177.4	2188.6	2228.6	2337.3	2351.7
27.5°	2292.5	2209.4	2107.1	2081.5	2095.9	2118.2	2099.1	2100.7	2137.4	2228.6	2230.2
30°	2179.0	2110.3	2019.1	1999.9	2027.1	2038.3	2020.7	2020.7	2057.5	2119.8	2118.2
32.5°	2055.9	2012.7	1947.2	1926.4	1956.8	1974.4	1952.0	1955.2	1984.0	2025.5	2009.5
35°	1940.8	1918.4	1888.0	1873.7	1892.8	1908.8	1894.4	1900.8	1928.0	1939.2	1916.8
37.5°	1830.5	1827.3	1830.5	1830.5	1835.3	1840.1	1830.5	1846.5	1870.5	1856.1	1830.5
40°	1734.6	1747.4	1777.7	1769.7	1764.9	1769.7	1763.3	1790.5	1814.5	1788.9	1758.5
42.5°	1654.6	1678.6	1725.0	1725.0	1715.4	1718.6	1715.4	1749.0	1766.5	1731.4	1697.8
45°	1585.9	1621.1	1680.2	1688.2	1672.2	1672.2	1678.6	1720.2	1726.6	1678.6	1643.4
47.5°	1537.9	1581.1	1648.2	1662.6	1638.6	1637.0	1654.6	1699.4	1699.4	1643.4	1603.5
50°	1504.4	1552.3	1632.3	1651.4	1627.5	1621.1	1649.8	1693.0	1683.4	1616.3	1576.3
52.5°	1482.0	1531.5	1630.7	1657.8	1641.8	1635.4	1664.2	1694.6	1670.6	1598.7	1557.1
55°	1467.6	1521.9	1635.4	1657.8	1640.2	1629.1	1657.8	1685.0	1672.2	1589.1	1549.1
57.5°	1475.6	1529.9	1629.1	1640.2	1619.5	1600.3	1633.9	1672.2	1667.4	1592.3	1552.3
60°	1462.8	1512.4	1593.9	1597.1	1561.9	1531.5	1581.1	1638.6	1638.6	1581.1	1545.9
62.5°	1403.6	1453.2	1525.1	1528.3	1488.4	1454.8	1512.4	1581.1	1579.5	1533.1	1496.4
65°	1306.1	1352.5	1434.0	1442.0	1402.0	1366.9	1426.0	1490.0	1494.8	1453.2	1421.2
67.5°	1199.0	1240.6	1301.3	1333.3	1299.7	1263.0	1317.3	1378.1	1376.5	1326.9	1293.3
70°	1071.1	1109.5	1165.4	1192.6	1171.8	1136.7	1186.2	1218.2	1203.8	1179.8	1157.4
72.5°	944.8	981.6	1034.3	1034.3	1012.0	978.4	992.8	1050.3	1067.9	1050.3	1035.9
75°	812.1	844.1	880.9	888.9	839.3	778.6	845.7	895.3	916.0	908.0	890.5
77.5°	676.2	700.2	754.6	740.2	647.5	615.5	669.8	743.4	757.8	753.0	729.0
80°	521.2	535.6	593.1	564.3	492.4	471.6	495.6	553.1	556.3	540.4	510.0
82.5°	350.1	369.3	407.7	351.7	350.1	330.9	311.7	318.1	346.9	343.7	322.9
85°	179.1	188.6	225.4	211.0	180.7	156.7	148.7	158.3	142.3	129.5	111.9
87.5°	75.1	81.5	111.9	62.3	19.2	0.0	0.0	9.6	14.4	20.8	22.4
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8
2.5°	2383.6	2401.2	2444.4	2498.7	2551.5	2605.8	2665.0	2701.8	2746.5	2804.1	2805.7
5°	2217.4	2257.3	2319.7	2402.8	2489.1	2588.3	2703.4	2799.3	2914.4	3005.5	3042.3
7.5°	2115.1	2172.6	2250.9	2356.5	2470.0	2593.1	2743.3	2904.8	3093.4	3214.9	3286.9
10°	2124.6	2212.6	2290.9	2380.4	2482.7	2615.4	2808.9	3023.1	3254.9	3414.8	3504.3
12.5°	2295.7	2388.4	2374.0	2369.2	2438.0	2599.5	2861.6	3143.0	3426.0	3585.8	3692.9
15°	2511.5	2546.7	2410.8	2308.5	2350.1	2541.9	2890.4	3250.1	3568.3	3763.3	3868.8
17.5°	2621.8	2551.5	2386.8	2233.4	2222.2	2454.0	2904.8	3358.8	3728.1	3923.2	4035.1
20°	2570.7	2468.4	2329.3	2183.8	2103.9	2334.1	2896.8	3445.2	3873.6	4091.0	4182.1
22.5°	2460.4	2370.8	2262.1	2123.0	2007.9	2203.0	2876.0	3531.5	4003.1	4222.1	4302.0
25°	2340.5	2273.3	2183.8	2062.3	1953.6	2087.9	2861.6	3646.6	4151.8	4361.2	4412.4
27.5°	2220.6	2171.0	2097.5	2003.1	1940.8	2007.9	2866.4	3796.9	4343.6	4541.8	4521.1
30°	2102.3	2059.1	2007.9	1966.4	1939.2	1988.8	2853.6	3956.7	4554.6	4738.5	4615.4
32.5°	1990.4	1950.4	1918.4	1924.8	1940.8	1996.8	2788.1	4102.2	4748.1	4904.7	4717.7
35°	1894.4	1852.9	1852.9	1875.3	1934.4	1969.6	2618.6	4215.7	4962.3	5119.0	4863.2
37.5°	1804.9	1768.1	1792.1	1828.9	1884.8	1896.0	2401.2	4326.0	5274.0	5421.1	5088.6
40°	1726.6	1689.8	1733.0	1779.3	1808.1	1803.3	2180.6	4479.5	5641.7	5793.6	5387.5
42.5°	1664.2	1630.7	1669.0	1728.2	1733.0	1737.8	2019.1	4626.6	6068.6	6262.0	5902.3
45°	1613.1	1589.1	1608.3	1667.4	1667.4	1741.0	1918.4	4749.7	6711.3	7053.4	6847.1
47.5°	1573.1	1558.7	1568.3	1587.5	1619.5	1798.5	1854.5	4844.0	7881.5	8552.9	8345.1
50°	1550.7	1536.3	1549.1	1509.2	1605.1	1827.3	1833.7	4915.9	9424.2	10476.1	10218.8
52.5°	1531.5	1526.7	1534.7	1442.0	1637.0	1808.1	1817.7	4820.0	10458.6	12369.0	12623.2
55°	1525.1	1528.3	1490.0	1392.4	1675.4	1744.2	1769.7	4134.2	10739.9	14001.2	15579.1
57.5°	1528.3	1518.7	1421.2	1397.2	1677.0	1616.3	1838.5	2949.6	10330.7	14711.0	18471.1
60°	1517.1	1469.2	1338.1	1440.4	1603.5	1466.0	1788.9	1923.2	9251.6	14165.9	18639.0
62.5°	1467.6	1397.2	1266.2	1464.4	1472.4	1376.5	1624.3	1482.0	7812.7	12998.9	17021.1
65°	1395.6	1301.3	1205.4	1414.8	1339.7	1334.9	1221.4	1187.8	6282.8	11609.6	15486.4
67.5°	1277.3	1183.0	1160.6	1301.3	1205.4	1183.0	981.6	984.8	5013.5	10129.2	13943.7
70°	1143.1	1048.7	1066.3	1176.6	1072.7	983.2	794.5	820.1	3803.3	8439.4	11863.8
72.5°	1055.1	928.8	930.4	1035.9	943.2	796.1	653.9	676.2	2414.0	6361.1	9432.2
75°	890.5	818.5	783.4	839.3	800.9	620.3	549.9	545.1	1430.8	4559.4	7063.0
77.5°	743.4	687.4	669.8	692.2	597.9	458.8	442.8	434.8	810.5	2920.8	4628.2
80°	538.8	524.4	522.8	534.0	460.4	337.3	337.3	338.9	436.4	1585.9	2609.0
82.5°	342.1	374.1	330.9	367.7	313.3	239.8	223.8	254.2	251.0	676.2	1099.9
85°	142.3	195.0	182.2	193.4	148.7	131.1	140.7	151.9	145.5	260.6	428.4
87.5°	27.2	32.0	35.2	33.6	33.6	41.6	46.4	56.0	56.0	75.1	129.5
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8	2605.8
2.5°	2866.4	2912.8	2903.2	2924.0	2896.8	2906.4	2852.0	2837.7	2828.1	2831.3
5°	3160.6	3254.9	3272.5	3307.7	3283.7	3283.7	3187.8	3115.8	3090.2	3071.1
7.5°	3459.5	3595.4	3685.0	3694.5	3681.8	3656.2	3517.1	3387.6	3341.2	3301.3
10°	3724.9	3888.0	3988.7	4036.7	4012.7	3972.7	3800.1	3622.6	3566.7	3531.5
12.5°	3928.0	4071.8	4139.0	4171.0	4167.8	4153.4	4012.7	3820.8	3761.7	3707.3
15°	4059.0	4131.0	4105.4	4103.8	4126.2	4183.7	4140.6	3990.3	3921.6	3872.0
17.5°	4143.8	4075.0	3961.5	3908.8	3956.7	4092.6	4191.7	4107.0	4044.7	3990.3
20°	4174.2	3929.6	3764.9	3667.4	3723.3	3920.0	4164.6	4191.7	4139.0	4094.2
22.5°	4139.0	3752.1	3528.3	3413.2	3467.5	3702.5	4084.6	4260.5	4225.3	4182.1
25°	4052.7	3566.7	3298.1	3194.2	3253.3	3493.1	3942.3	4324.4	4326.0	4290.9
27.5°	3945.5	3395.6	3136.6	3039.1	3096.6	3320.5	3803.3	4380.4	4436.3	4423.5
30°	3836.8	3293.3	3059.9	2991.1	3034.3	3232.5	3661.0	4437.9	4549.8	4572.2
32.5°	3787.3	3342.8	3240.5	3270.9	3214.9	3283.7	3609.8	4519.5	4687.3	4724.1
35°	3852.8	3782.5	4041.5	4161.4	3963.1	3702.5	3675.4	4642.6	4880.8	4935.1
37.5°	4171.0	4724.1	5111.0	5533.0	5189.3	4615.4	3999.9	4852.0	5157.3	5243.7
40°	4863.2	5545.8	6244.4	6789.6	6270.0	5497.9	4617.0	5163.7	5537.8	5616.2
42.5°	5515.4	6316.4	7278.8	7983.8	7309.2	6218.9	5282.0	5688.1	6039.8	6083.0
45°	6154.9	7072.6	8530.6	9510.5	8594.5	6904.7	5961.5	6573.8	6839.1	6840.7
47.5°	6904.7	7924.7	10100.5	11496.1	10300.3	7664.1	6599.3	7975.8	8345.1	8164.5
50°	7801.6	8772.0	11716.7	13806.2	12380.2	8597.7	7409.9	9684.8	10188.4	9983.8
52.5°	9002.2	9705.6	13497.6	16058.7	14647.1	9660.8	8584.9	11942.1	12108.4	11726.3
55°	10692.0	11053.3	15783.8	18840.4	17177.8	10970.1	10303.5	14775.0	14309.8	13214.7
57.5°	14540.0	13185.9	18718.9	22013.8	20041.0	13349.0	14070.0	17898.8	16244.2	14397.7
60°	17759.7	15775.8	21435.1	25163.2	22495.0	15970.8	17606.3	18442.4	16172.2	14266.6
62.5°	16674.2	16436.0	22415.1	25510.1	23332.7	17260.9	16949.2	17072.3	15117.1	13395.3
65°	14629.5	15161.9	21540.6	23865.1	22403.9	16105.1	15331.3	15806.1	13910.1	12175.5
67.5°	13422.5	13814.2	19985.1	21232.1	20715.7	14854.9	14073.2	13729.5	12036.5	10562.5
70°	12188.3	12512.9	17801.3	17927.6	18082.7	12776.6	11507.3	10484.1	8971.8	7940.6
72.5°	10532.1	10549.7	15040.4	14308.2	14602.3	9998.1	9262.7	7838.3	6530.6	5595.4
75°	8835.9	8353.1	11905.4	10001.3	10591.2	7777.6	7691.2	5907.1	4925.5	4158.2
77.5°	6736.8	6172.5	8696.8	6577.0	7438.7	5179.7	5782.4	4006.3	3465.9	2767.3
80°	4522.7	4171.0	4805.6	3712.1	4866.4	3569.9	3771.3	2270.1	1968.0	1526.7
82.5°	2385.2	2036.7	2970.3	2201.4	2935.2	1961.6	1414.8	701.8	597.9	482.8
85°	924.0	1069.5	1456.4	783.4	1138.3	700.2	409.3	174.3	145.5	110.3
87.5°	179.1	276.6	151.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)