

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: P637822

Luminaire Tested: GWS-SA4D-750-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637822  
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-750-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

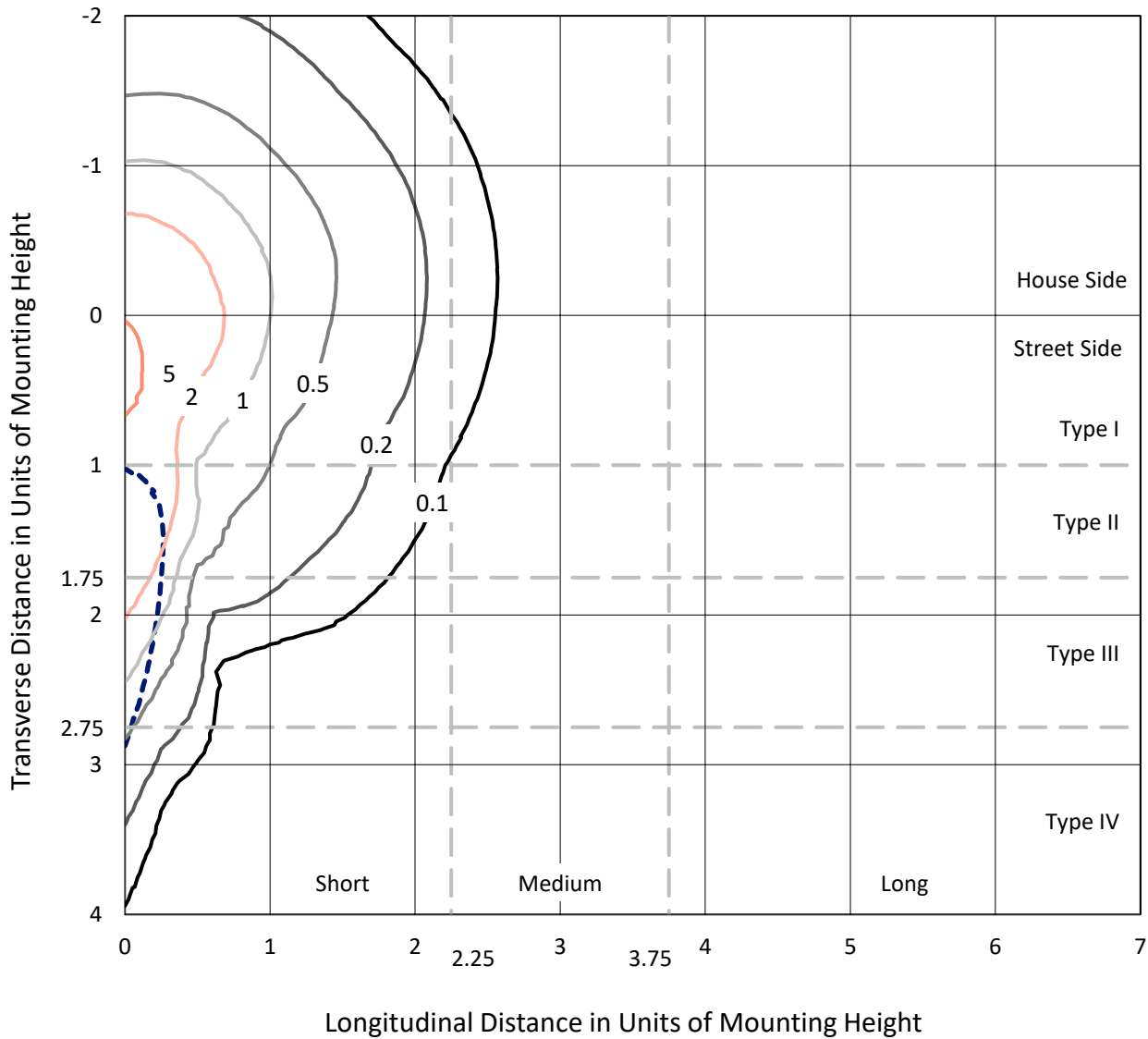
Lumens per Lamp: N/A  
Luminaire Lumens: 23477.9 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

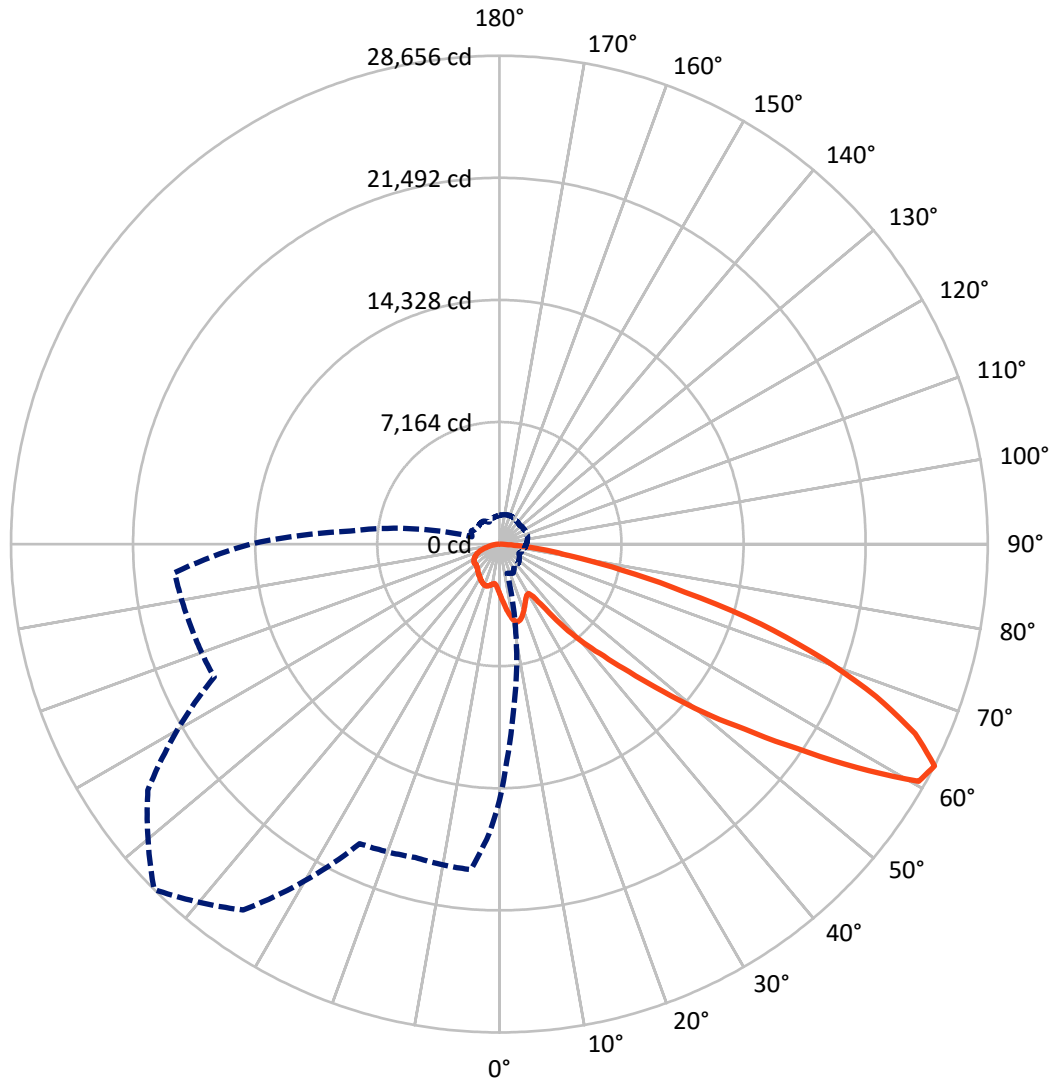
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	5613.6	0.0	5613.6
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	17864.3	0.0	17864.3
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	23477.9	0.0	23477.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.4	1.2
10°-20°	937.2	4.0
20°-30°	1475.4	6.3
30°-40°	2022.3	8.6
40°-50°	3155.4	13.4
50°-60°	5440.5	23.2
60°-70°	6304.9	26.9
70°-80°	3328.0	14.2
80°-90°	525.7	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°	23477.9	100.0
0°-180°	23477.9	100.0

**Coefficient of Utilization**



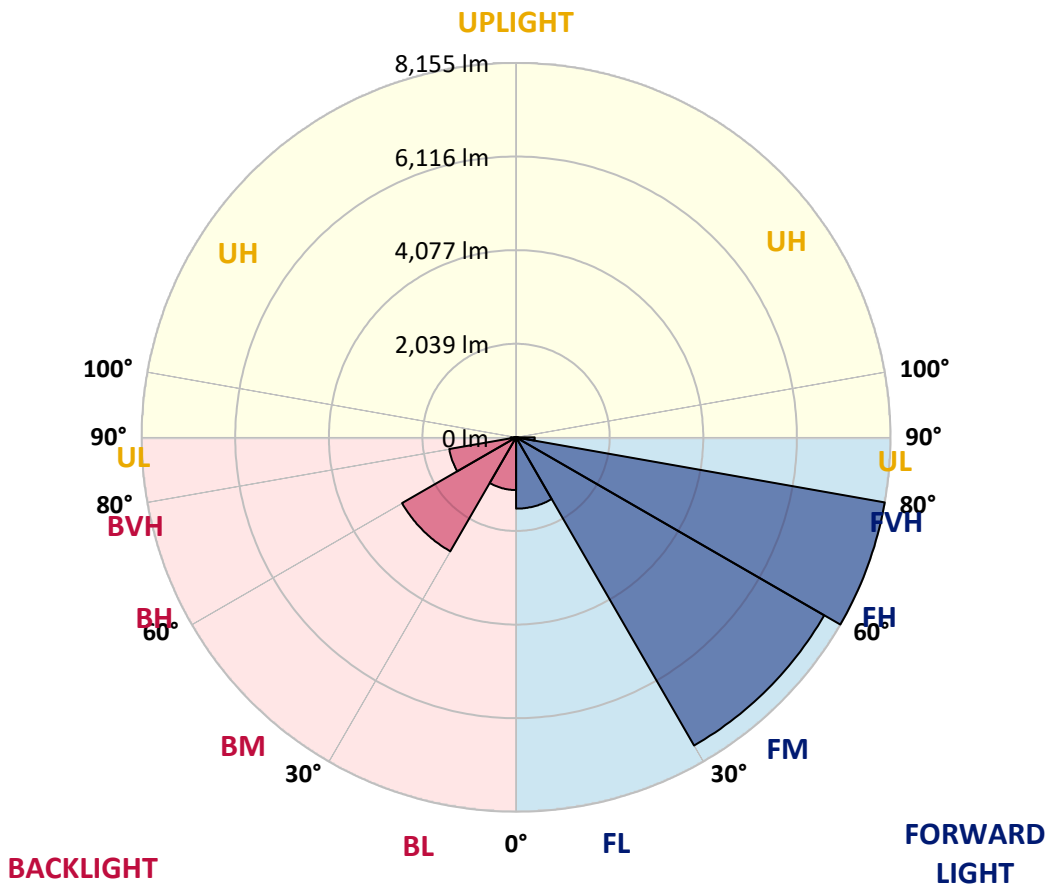
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.8	6.6			
FM (30°-60°)	7750.9	33.0			
FH (60°-80°)	8154.9	34.7			G4/12000
FVH (80°-90°)	405.8	1.7			G3/500
BL (0°-30°)	1148.2	4.9	B3/2500		
BM (30°-60°)	2867.4	12.2	B3/5000		
BH (60°-80°)	1478.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	119.9	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-G4**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2
2.5°	3180.4	3167.8	3149.9	3088.8	3051.1	3008.0	2963.1	2911.0	2851.8	2810.5	2769.2
5°	3449.8	3430.0	3386.9	3241.5	3140.9	3031.4	2939.8	2835.6	2733.3	2663.2	2593.2
7.5°	3708.4	3683.3	3616.8	3394.1	3230.7	3072.7	2934.4	2783.5	2630.9	2526.7	2444.1
10°	3967.0	3914.9	3830.5	3539.6	3324.1	3140.9	2982.9	2797.9	2595.0	2453.1	2365.1
12.5°	4164.5	4116.0	4024.5	3672.5	3417.5	3187.6	3009.8	2839.2	2666.8	2516.0	2426.2
15°	4349.5	4286.7	4182.5	3796.4	3494.7	3185.8	2955.9	2806.9	2781.7	2744.0	2627.3
17.5°	4482.4	4424.9	4317.2	3897.0	3537.8	3130.1	2806.9	2718.9	2832.0	2947.0	2835.6
20°	4599.1	4532.7	4423.1	3967.0	3546.8	3006.2	2625.5	2627.3	2805.1	2963.1	2936.2
22.5°	4697.9	4624.3	4527.3	4046.0	3543.2	2833.8	2467.5	2575.2	2753.0	2876.9	2880.5
25°	4820.0	4759.0	4678.1	4162.7	3543.2	2657.8	2352.5	2512.4	2665.0	2769.2	2765.6
27.5°	4969.1	4927.8	4861.3	4340.5	3575.5	2510.6	2287.9	2431.6	2551.9	2641.7	2639.9
30°	5136.1	5098.4	5048.1	4529.1	3631.2	2401.0	2252.0	2331.0	2419.0	2490.8	2490.8
32.5°	5306.7	5292.3	5238.4	4679.9	3588.1	2366.9	2221.4	2230.4	2277.1	2336.4	2331.0
35°	5543.7	5529.4	5461.1	4796.7	3401.3	2318.4	2173.0	2128.1	2133.4	2171.2	2183.7
37.5°	5890.3	5868.8	5768.2	4933.2	3119.4	2196.3	2093.9	2020.3	2004.1	2020.3	2043.7
40°	6308.8	6276.4	6140.0	5118.1	2794.3	2031.1	1970.0	1909.0	1882.0	1887.4	1914.4
42.5°	6833.1	6764.9	6569.2	5313.9	2472.9	1885.6	1831.7	1794.0	1763.5	1759.9	1812.0
45°	7684.4	7497.6	7186.9	5488.1	2201.7	1808.4	1707.8	1680.9	1655.8	1670.1	1731.2
47.5°	9171.3	8826.5	8221.3	5637.1	2036.5	1810.2	1609.1	1580.3	1578.5	1607.3	1675.5
50°	11215.0	10717.5	9783.7	5737.7	1950.3	1831.7	1549.8	1503.1	1537.2	1566.0	1630.6
52.5°	13172.4	12412.8	11301.2	5735.9	1912.6	1835.3	1566.0	1431.3	1537.2	1544.4	1605.5
55°	14844.4	13468.7	11710.6	5146.9	1858.7	1821.0	1628.8	1375.6	1517.5	1544.4	1592.9
57.5°	16173.3	14140.4	11680.1	4157.4	2022.1	1742.0	1666.5	1363.0	1460.0	1548.0	1603.7
60°	16026.0	13833.3	10927.6	2551.9	2005.9	1601.9	1661.1	1386.4	1363.0	1499.5	1591.1
62.5°	15047.3	12732.5	9632.8	1770.7	1883.8	1521.1	1573.1	1427.7	1273.2	1429.5	1530.0
65°	13677.1	11312.0	8027.4	1357.6	1560.6	1524.7	1424.1	1399.0	1194.2	1318.1	1425.9
67.5°	11865.1	9550.2	6337.5	1075.7	1088.3	1319.9	1293.0	1242.7	1120.6	1219.4	1316.3
70°	8919.9	6969.6	4360.3	865.6	824.3	1102.6	1161.9	1117.0	1048.8	1077.5	1179.9
72.5°	6285.4	4550.6	2388.5	686.0	635.7	847.6	1009.3	1002.1	926.6	948.2	1048.8
75°	4671.0	3219.9	1492.3	542.3	517.2	607.0	845.8	867.4	804.5	829.7	906.9
77.5°	3108.6	2085.0	829.7	402.3	402.3	443.6	630.3	730.9	684.2	704.0	757.8
80°	1715.0	1061.3	414.8	264.0	271.2	305.3	459.7	526.2	528.0	576.5	590.8
82.5°	542.3	337.6	185.0	154.4	145.5	174.2	296.3	377.1	352.0	449.0	413.0
85°	123.9	79.0	34.1	34.1	37.7	57.5	113.1	201.1	256.8	308.9	224.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	79.0	116.7	104.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2
2.5°	2744.0	2708.1	2697.3	2666.8	2663.2	2634.5	2623.7	2623.7	2636.3	2636.3	2648.9
5°	2564.4	2519.6	2494.4	2458.5	2449.5	2428.0	2413.6	2415.4	2431.6	2442.3	2463.9
7.5°	2406.4	2375.9	2357.9	2341.8	2338.2	2334.6	2318.4	2316.6	2322.0	2338.2	2354.3
10°	2340.0	2318.4	2323.8	2336.4	2356.1	2366.9	2352.5	2345.4	2340.0	2350.7	2365.1
12.5°	2404.6	2383.1	2393.8	2415.4	2442.3	2453.1	2447.7	2445.9	2451.3	2492.6	2523.1
15°	2546.5	2505.2	2490.8	2499.8	2521.3	2532.1	2526.7	2533.9	2568.0	2675.8	2753.0
17.5°	2722.5	2621.9	2564.4	2548.3	2557.3	2566.2	2566.2	2584.2	2643.5	2801.5	2898.5
20°	2817.7	2686.6	2589.6	2550.1	2553.7	2562.7	2562.7	2587.8	2654.2	2823.0	2885.9
22.5°	2792.5	2672.2	2553.7	2510.6	2512.4	2519.6	2519.6	2541.1	2600.4	2749.4	2778.2
25°	2693.7	2587.8	2471.1	2433.4	2436.9	2449.5	2445.9	2458.5	2503.4	2625.5	2641.7
27.5°	2575.2	2481.8	2366.9	2338.2	2354.3	2379.5	2357.9	2359.7	2401.0	2503.4	2505.2
30°	2447.7	2370.5	2268.1	2246.6	2277.1	2289.7	2269.9	2269.9	2311.2	2381.3	2379.5
32.5°	2309.4	2261.0	2187.3	2164.0	2198.1	2217.9	2192.7	2196.3	2228.6	2275.3	2257.4
35°	2180.1	2155.0	2120.9	2104.7	2126.3	2144.2	2128.1	2135.2	2165.8	2178.3	2153.2
37.5°	2056.2	2052.6	2056.2	2056.2	2061.6	2067.0	2056.2	2074.2	2101.1	2085.0	2056.2
40°	1948.5	1962.8	1997.0	1988.0	1982.6	1988.0	1980.8	2011.3	2038.3	2009.5	1975.4
42.5°	1858.7	1885.6	1937.7	1937.7	1926.9	1930.5	1926.9	1964.6	1984.4	1944.9	1907.2
45°	1781.5	1821.0	1887.4	1896.4	1878.4	1878.4	1885.6	1932.3	1939.5	1885.6	1846.1
47.5°	1727.6	1776.1	1851.5	1867.7	1840.7	1838.9	1858.7	1909.0	1909.0	1846.1	1801.2
50°	1689.9	1743.8	1833.5	1855.1	1828.2	1821.0	1853.3	1901.8	1891.0	1815.6	1770.7
52.5°	1664.7	1720.4	1831.7	1862.3	1844.3	1837.1	1869.5	1903.6	1876.6	1795.8	1749.1
55°	1648.6	1709.6	1837.1	1862.3	1842.5	1830.0	1862.3	1892.8	1878.4	1785.1	1740.2
57.5°	1657.6	1718.6	1830.0	1842.5	1819.2	1797.6	1835.3	1878.4	1873.1	1788.6	1743.8
60°	1643.2	1698.9	1790.4	1794.0	1754.5	1720.4	1776.1	1840.7	1840.7	1776.1	1736.6
62.5°	1576.7	1632.4	1713.2	1716.8	1671.9	1634.2	1698.9	1776.1	1774.3	1722.2	1680.9
65°	1467.2	1519.3	1610.9	1619.8	1574.9	1535.4	1601.9	1673.7	1679.1	1632.4	1596.5
67.5°	1346.9	1393.6	1461.8	1497.7	1460.0	1418.7	1479.8	1548.0	1546.2	1490.5	1452.8
70°	1203.2	1246.3	1309.2	1339.7	1316.3	1276.8	1332.5	1368.4	1352.3	1325.3	1300.2
72.5°	1061.3	1102.6	1161.9	1161.9	1136.8	1099.0	1115.2	1179.9	1199.6	1179.9	1163.7
75°	912.3	948.2	989.5	998.5	942.8	874.6	950.0	1005.7	1029.0	1020.0	1000.3
77.5°	759.6	786.6	847.6	831.5	727.3	691.4	752.5	835.1	851.2	845.8	818.9
80°	585.4	601.6	666.3	633.9	553.1	529.8	556.7	621.4	624.9	607.0	572.9
82.5°	393.3	414.8	457.9	395.1	393.3	371.7	350.2	357.4	389.7	386.1	362.8
85°	201.1	211.9	253.2	237.0	202.9	176.0	167.0	177.8	159.8	145.5	125.7
87.5°	84.4	91.6	125.7	70.0	21.5	0.0	0.0	10.8	16.2	23.3	25.1
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°	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2
2.5°	2677.6	2697.3	2745.8	2806.9	2866.1	2927.2	2993.7	3035.0	3085.2	3149.9	3151.7
5°	2490.8	2535.7	2605.8	2699.1	2796.1	2907.5	3036.8	3144.5	3273.8	3376.2	3417.5
7.5°	2375.9	2440.5	2528.5	2647.1	2774.6	2912.8	3081.6	3263.0	3474.9	3611.4	3692.2
10°	2386.7	2485.4	2573.4	2674.0	2788.9	2938.0	3155.3	3395.9	3656.3	3835.9	3936.5
12.5°	2578.8	2683.0	2666.8	2661.4	2738.6	2920.0	3214.5	3530.6	3848.5	4028.1	4148.4
15°	2821.3	2860.8	2708.1	2593.2	2639.9	2855.4	3246.9	3650.9	4008.3	4227.4	4345.9
17.5°	2945.2	2866.1	2681.2	2508.8	2496.2	2756.6	3263.0	3773.0	4187.9	4407.0	4532.7
20°	2887.7	2772.8	2616.5	2453.1	2363.3	2621.9	3254.0	3870.0	4351.3	4595.5	4697.9
22.5°	2763.8	2663.2	2541.1	2384.9	2255.6	2474.7	3230.7	3967.0	4496.8	4742.8	4832.6
25°	2629.1	2553.7	2453.1	2316.6	2194.5	2345.4	3214.5	4096.3	4663.8	4899.0	4956.5
27.5°	2494.4	2438.7	2356.1	2250.2	2180.1	2255.6	3219.9	4265.1	4879.3	5102.0	5078.6
30°	2361.5	2313.0	2255.6	2208.9	2178.3	2234.0	3205.6	4444.7	5116.3	5322.8	5184.6
32.5°	2235.8	2190.9	2155.0	2162.2	2180.1	2243.0	3131.9	4608.1	5333.6	5509.6	5299.5
35°	2128.1	2081.4	2081.4	2106.5	2173.0	2212.5	2941.6	4735.6	5574.3	5750.3	5462.9
37.5°	2027.5	1986.2	2013.1	2054.4	2117.3	2129.9	2697.3	4859.5	5924.5	6089.7	5716.1
40°	1939.5	1898.2	1946.7	1998.8	2031.1	2025.7	2449.5	5031.9	6337.5	6508.1	6052.0
42.5°	1869.5	1831.7	1874.8	1941.3	1946.7	1952.1	2268.1	5197.1	6817.0	7034.3	6630.2
45°	1812.0	1785.1	1806.6	1873.1	1873.1	1955.7	2155.0	5335.4	7538.9	7923.2	7691.6
47.5°	1767.1	1750.9	1761.7	1783.3	1819.2	2020.3	2083.2	5441.4	8853.5	9607.7	9374.2
50°	1742.0	1725.8	1740.2	1695.3	1803.0	2052.6	2059.8	5522.2	10586.4	11768.1	11479.0
52.5°	1720.4	1715.0	1724.0	1619.8	1838.9	2031.1	2041.9	5414.4	11748.3	13894.4	14179.9
55°	1713.2	1716.8	1673.7	1564.2	1882.0	1959.3	1988.0	4644.0	12064.4	15727.9	17500.4
57.5°	1716.8	1706.0	1596.5	1569.6	1883.8	1815.6	2065.2	3313.3	11604.7	16525.3	20749.1
60°	1704.2	1650.4	1503.1	1618.0	1801.2	1646.8	2009.5	2160.4	10392.5	15912.9	20937.6
62.5°	1648.6	1569.6	1422.3	1645.0	1654.0	1546.2	1824.6	1664.7	8776.2	14601.9	19120.2
65°	1567.8	1461.8	1354.1	1589.3	1504.9	1499.5	1372.0	1334.3	7057.6	13041.3	17396.2
67.5°	1434.9	1328.9	1303.8	1461.8	1354.1	1328.9	1102.6	1106.2	5631.7	11378.4	15663.3
70°	1284.0	1178.1	1197.8	1321.7	1205.0	1104.4	892.5	921.3	4272.3	9480.2	13326.9
72.5°	1185.2	1043.4	1045.2	1163.7	1059.5	894.3	734.5	759.6	2711.7	7145.6	10595.4
75°	1000.3	919.5	880.0	942.8	899.7	696.8	617.8	612.4	1607.3	5121.7	7934.0
77.5°	835.1	772.2	752.5	777.6	671.6	515.4	497.4	488.5	910.5	3281.0	5198.9
80°	605.2	589.0	587.2	599.8	517.2	378.9	378.9	380.7	490.3	1781.5	2930.8
82.5°	384.3	420.2	371.7	413.0	352.0	269.4	251.4	285.5	281.9	759.6	1235.5
85°	159.8	219.1	204.7	217.3	167.0	147.3	158.0	170.6	163.4	292.7	481.3
87.5°	30.5	35.9	39.5	37.7	37.7	46.7	52.1	62.9	62.9	84.4	145.5
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°	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2	2927.2
2.5°	3219.9	3272.0	3261.2	3284.6	3254.0	3264.8	3203.8	3187.6	3176.8	3180.4
5°	3550.4	3656.3	3676.1	3715.6	3688.6	3688.6	3580.9	3500.1	3471.3	3449.8
7.5°	3886.2	4038.8	4139.4	4150.2	4135.8	4107.1	3950.8	3805.4	3753.3	3708.4
10°	4184.3	4367.5	4480.6	4534.5	4507.5	4462.6	4268.7	4069.4	4006.5	3967.0
12.5°	4412.4	4574.0	4649.4	4685.3	4681.7	4665.6	4507.5	4292.0	4225.6	4164.5
15°	4559.6	4640.4	4611.7	4609.9	4635.0	4699.7	4651.2	4482.4	4405.2	4349.5
17.5°	4654.8	4577.6	4450.1	4390.8	4444.7	4597.3	4708.7	4613.5	4543.5	4482.4
20°	4688.9	4414.2	4229.2	4119.6	4182.5	4403.4	4678.1	4708.7	4649.4	4599.1
22.5°	4649.4	4214.8	3963.4	3834.1	3895.2	4159.1	4588.4	4785.9	4746.4	4697.9
25°	4552.4	4006.5	3704.8	3588.1	3654.5	3923.9	4428.5	4857.7	4859.5	4820.0
27.5°	4432.1	3814.3	3523.4	3413.9	3478.5	3729.9	4272.3	4920.6	4983.4	4969.1
30°	4310.0	3699.4	3437.2	3360.0	3408.5	3631.2	4112.5	4985.2	5110.9	5136.1
32.5°	4254.3	3755.1	3640.2	3674.3	3611.4	3688.6	4055.0	5076.8	5265.4	5306.7
35°	4328.0	4248.9	4539.9	4674.6	4451.9	4159.1	4128.6	5215.1	5482.7	5543.7
37.5°	4685.3	5306.7	5741.3	6215.4	5829.3	5184.6	4493.2	5450.4	5793.4	5890.3
40°	5462.9	6229.7	7014.5	7626.9	7043.3	6175.9	5186.4	5800.5	6220.8	6308.8
42.5°	6195.6	7095.3	8176.4	8968.4	8210.5	6985.8	5933.4	6389.6	6784.7	6833.1
45°	6914.0	7944.8	9582.6	10683.4	9654.4	7756.2	6696.7	7384.5	7682.6	7684.4
47.5°	7756.2	8901.9	11346.1	12913.8	11570.6	8609.2	7413.2	8959.4	9374.2	9171.3
50°	8763.7	9853.7	13161.7	15508.8	13906.9	9658.0	8323.7	10879.2	11444.8	11215.0
52.5°	10112.3	10902.5	15162.2	18039.1	16453.4	10852.2	9643.6	13414.9	13601.6	13172.4
55°	12010.5	12416.4	17730.3	21163.9	19296.2	12323.0	11574.1	16597.1	16074.5	14844.4
57.5°	16333.1	14812.0	21027.4	24728.6	22512.6	14995.2	15805.1	20106.1	18247.5	16173.3
60°	19949.9	17721.3	24078.5	28266.4	25269.2	17940.4	19777.5	20716.7	18166.6	16026.0
62.5°	18730.5	18463.0	25179.4	28656.1	26210.2	19389.6	19039.4	19177.7	16981.4	15047.3
65°	16433.7	17031.7	24197.1	26808.2	25166.8	18091.2	17222.0	17755.4	15625.5	13677.1
67.5°	15077.8	15517.8	22449.7	23850.5	23270.4	16686.9	15808.7	15422.6	13520.8	11865.1
70°	13691.4	14056.0	19996.6	20138.5	20312.7	14352.3	12926.4	11777.1	10078.2	8919.9
72.5°	11830.9	11850.7	16895.2	16072.7	16403.1	11231.1	10405.1	8805.0	7336.0	6285.4
75°	9925.6	9383.2	13373.6	11234.7	11897.4	8736.7	8639.8	6635.6	5533.0	4671.0
77.5°	7567.6	6933.7	9769.3	7388.1	8356.0	5818.5	6495.5	4500.4	3893.4	3108.6
80°	5080.4	4685.3	5398.3	4169.9	5466.5	4010.1	4236.4	2550.1	2210.7	1715.0
82.5°	2679.4	2287.9	3336.7	2472.9	3297.1	2203.5	1589.3	788.4	671.6	542.3
85°	1038.0	1201.4	1636.0	880.0	1278.6	786.6	459.7	195.7	163.4	123.9
87.5°	201.1	310.7	170.6	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)