

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: P637712

Luminaire Tested: GWS-SA4D-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637712
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-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22637.4 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

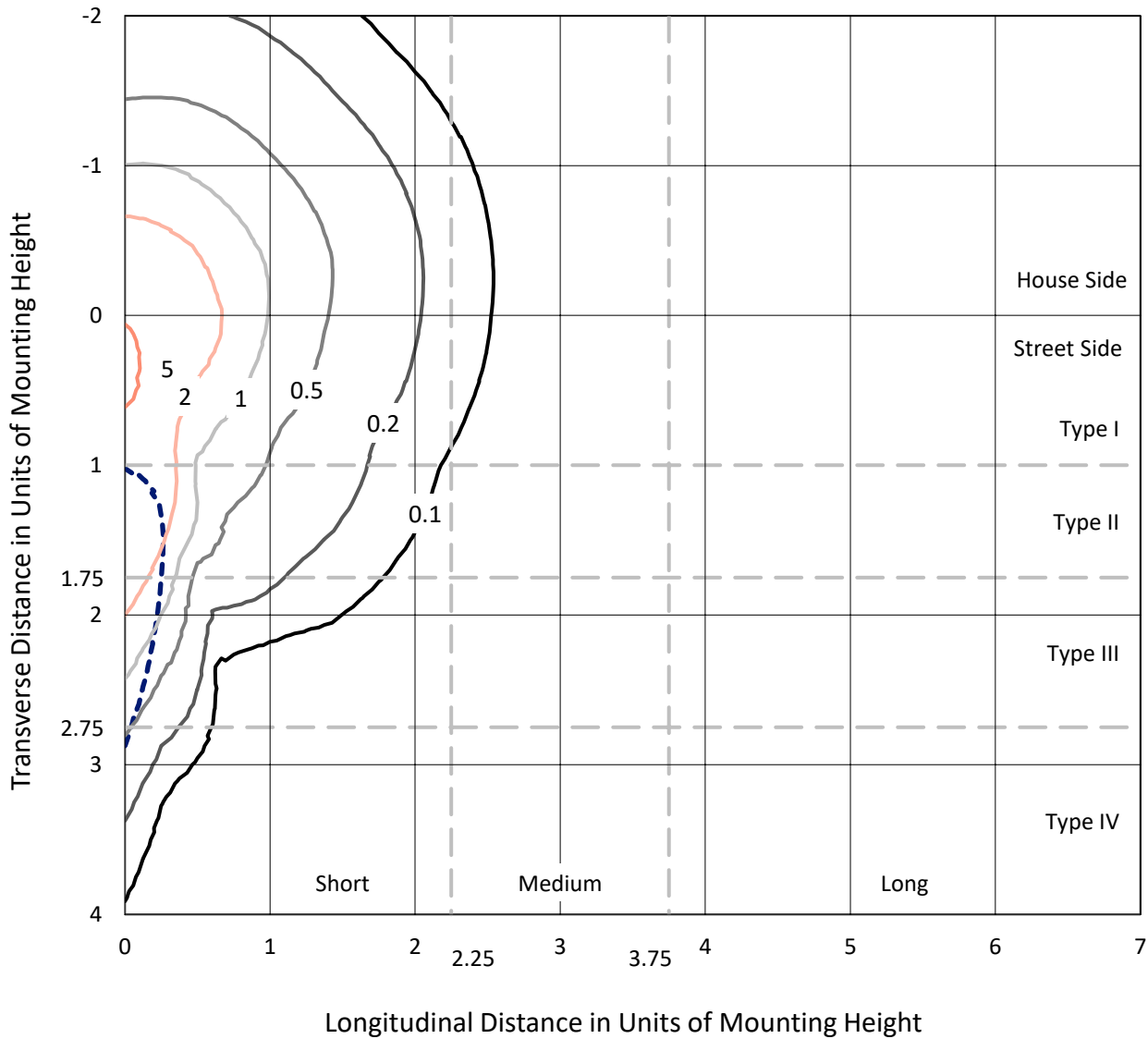
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

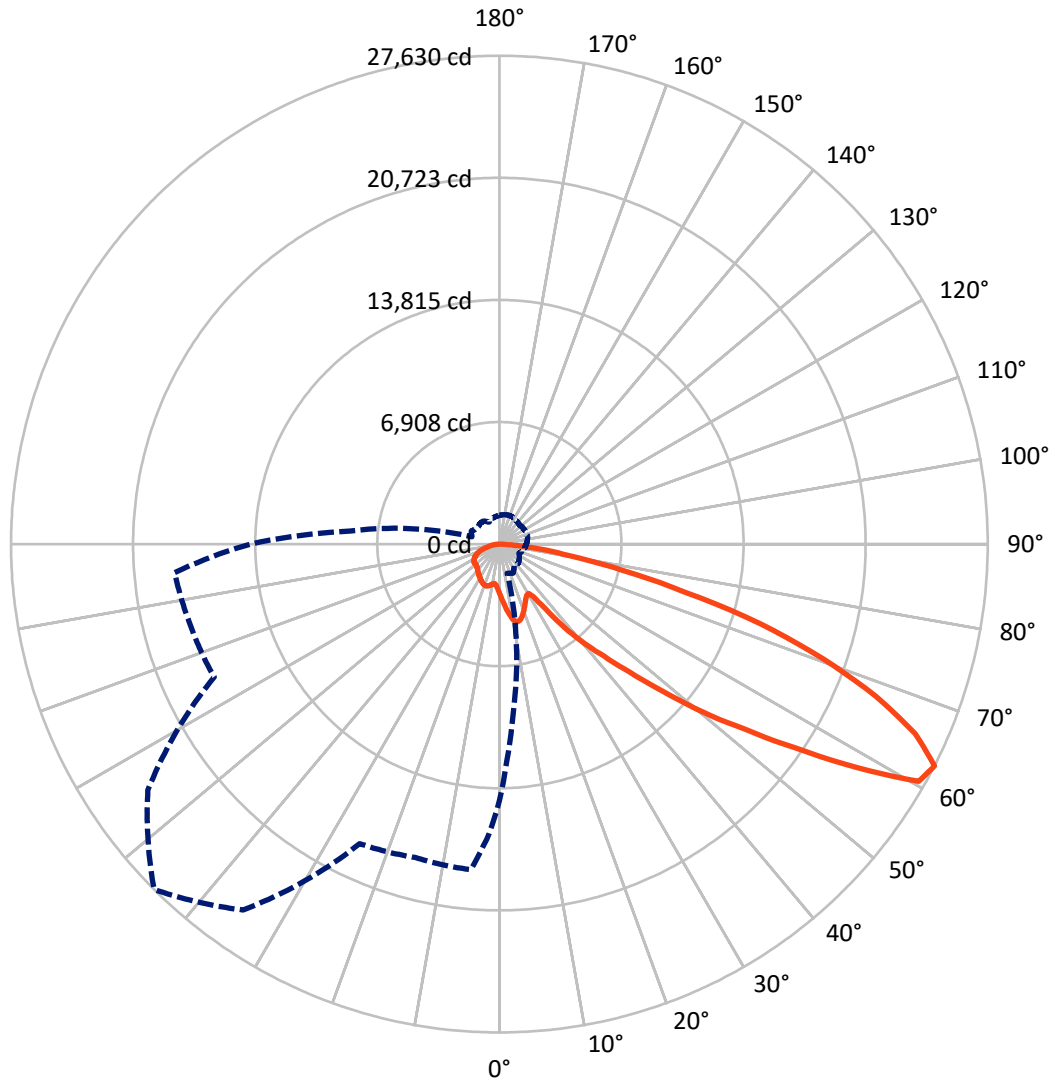
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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
House Side	Lumens	5412.6	0.0	5412.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	17224.8	0.0	17224.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	22637.4	0.0	22637.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.0	1.2
10°-20°	903.7	4.0
20°-30°	1422.6	6.3
30°-40°	1949.9	8.6
40°-50°	3042.5	13.4
50°-60°	5245.8	23.2
60°-70°	6079.2	26.9
70°-80°	3208.9	14.2
80°-90°	506.9	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°	22637.4	100.0
0°-180°	22637.4	100.0

Coefficient of Utilization



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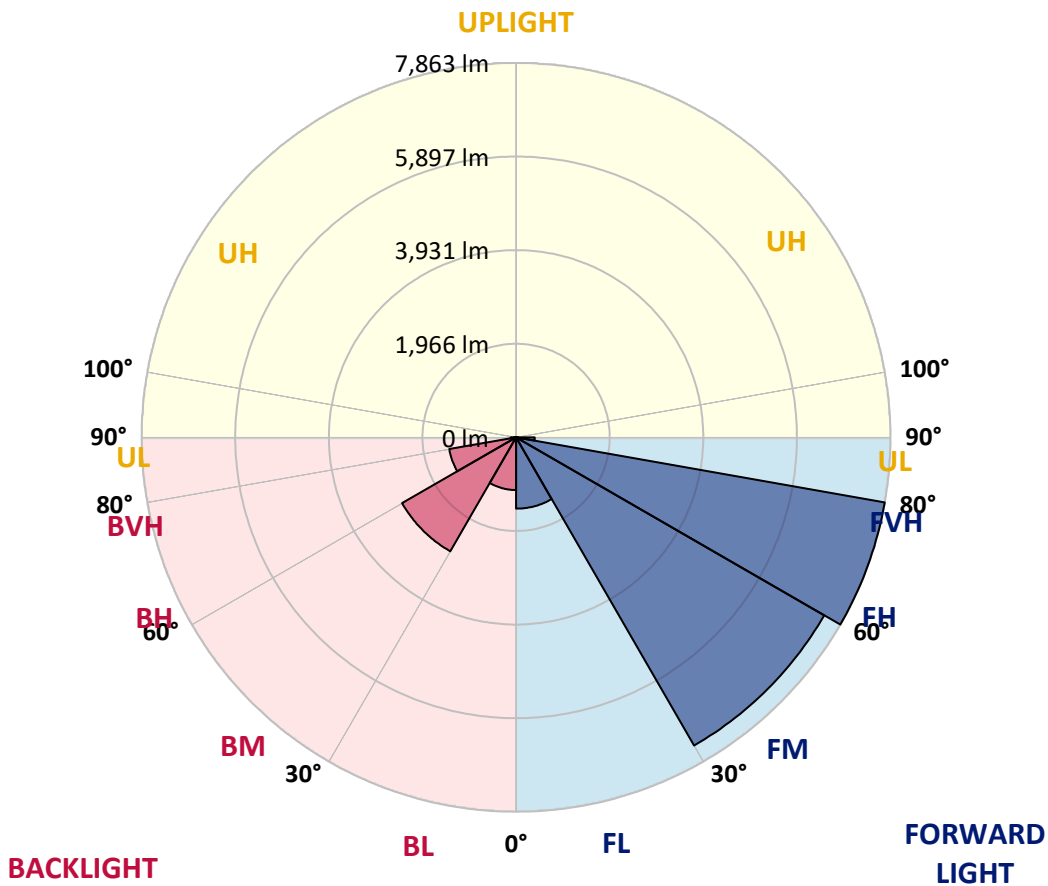
CATALOG NUMBER: GWS-SA4D-735-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1497.2	6.6			
FM (30°-60°)	7473.4	33.0			
FH (60°-80°)	7862.9	34.7			G4/12000
FVH (80°-90°)	391.3	1.7			G3/500
BL (0°-30°)	1107.1	4.9	B3/2500		
BM (30°-60°)	2764.7	12.2	B3/5000		
BH (60°-80°)	1425.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	115.6	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°	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4
2.5°	3066.6	3054.4	3037.1	2978.3	2941.9	2900.3	2857.0	2806.8	2749.7	2709.9	2670.0
5°	3326.3	3307.2	3265.7	3125.4	3028.5	2922.8	2834.5	2734.1	2635.4	2567.9	2500.3
7.5°	3575.6	3551.4	3487.3	3272.6	3115.0	2962.7	2829.3	2683.9	2536.7	2436.3	2356.6
10°	3825.0	3774.8	3693.4	3412.9	3205.1	3028.5	2876.1	2697.7	2502.1	2365.3	2280.4
12.5°	4015.4	3968.7	3880.4	3541.0	3295.1	3073.5	2902.1	2737.6	2571.3	2425.9	2339.3
15°	4193.8	4133.2	4032.8	3660.5	3369.6	3071.8	2850.1	2706.4	2682.2	2645.8	2533.2
17.5°	4321.9	4266.5	4162.6	3757.4	3411.1	3018.1	2706.4	2621.6	2730.6	2841.5	2734.1
20°	4434.5	4370.4	4264.8	3825.0	3419.8	2898.6	2531.5	2533.2	2704.7	2857.0	2831.1
22.5°	4529.7	4458.7	4365.2	3901.2	3416.3	2732.4	2379.1	2483.0	2654.5	2773.9	2777.4
25°	4647.5	4588.6	4510.7	4013.7	3416.3	2562.7	2268.3	2422.4	2569.6	2670.0	2666.6
27.5°	4791.2	4751.4	4687.3	4185.1	3447.5	2420.7	2206.0	2344.5	2460.5	2547.1	2545.4
30°	4952.2	4915.9	4867.4	4367.0	3501.2	2315.1	2171.4	2247.5	2332.4	2401.7	2401.7
32.5°	5116.7	5102.9	5050.9	4512.4	3459.6	2282.2	2141.9	2150.6	2195.6	2252.7	2247.5
35°	5345.3	5331.4	5265.6	4625.0	3279.5	2235.4	2095.2	2051.9	2057.1	2093.4	2105.6
37.5°	5679.5	5658.7	5561.7	4756.5	3007.7	2117.7	2019.0	1948.0	1932.4	1948.0	1970.5
40°	6082.9	6051.7	5920.1	4934.9	2694.3	1958.4	1899.5	1840.6	1814.7	1819.9	1845.8
42.5°	6588.5	6522.7	6334.0	5123.6	2384.3	1818.1	1766.2	1729.8	1700.4	1696.9	1747.1
45°	7409.3	7229.2	6929.6	5291.6	2122.9	1743.7	1646.7	1620.7	1596.5	1610.3	1669.2
47.5°	8843.0	8510.5	7927.0	5435.3	1963.6	1745.4	1551.5	1523.8	1522.0	1549.7	1615.5
50°	10813.5	10333.8	9433.4	5532.3	1880.5	1766.2	1494.3	1449.3	1482.2	1509.9	1572.2
52.5°	12700.9	11968.4	10896.6	5530.5	1844.1	1769.6	1509.9	1380.0	1482.2	1489.1	1548.0
55°	14312.9	12986.6	11291.4	4962.6	1792.1	1755.8	1570.5	1326.4	1463.2	1489.1	1535.9
57.5°	15594.3	13634.2	11262.0	4008.5	1949.7	1679.6	1606.9	1314.2	1407.7	1492.6	1546.3
60°	15452.3	13338.1	10536.4	2460.5	1934.1	1544.5	1601.7	1336.8	1314.2	1445.8	1534.1
62.5°	14508.6	12276.6	9288.0	1707.3	1816.4	1466.6	1516.8	1376.6	1227.7	1378.3	1475.3
65°	13187.4	10907.0	7740.0	1309.0	1504.7	1470.1	1373.1	1348.9	1151.5	1271.0	1374.8
67.5°	11440.3	9208.3	6110.6	1037.2	1049.3	1272.7	1246.7	1198.2	1080.5	1175.7	1269.2
70°	8600.6	6720.1	4204.2	834.6	794.8	1063.2	1120.3	1077.0	1011.2	1038.9	1137.6
72.5°	6060.4	4387.7	2303.0	661.4	613.0	817.3	973.1	966.2	893.5	914.3	1011.2
75°	4503.7	3104.7	1438.9	522.9	498.7	585.3	815.6	836.3	775.7	800.0	874.4
77.5°	2997.3	2010.3	800.0	387.9	387.9	427.7	607.8	704.7	659.7	678.8	730.7
80°	1653.6	1023.3	400.0	254.5	261.5	294.4	443.3	507.3	509.1	555.8	569.7
82.5°	522.9	325.5	178.3	148.9	140.3	168.0	285.7	363.6	339.4	432.9	398.3
85°	119.5	76.2	32.9	32.9	36.4	55.4	109.1	193.9	247.6	297.8	216.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	76.2	112.6	100.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4
2.5°	2645.8	2611.2	2600.8	2571.3	2567.9	2540.2	2529.8	2529.8	2541.9	2541.9	2554.0
5°	2472.6	2429.4	2405.1	2370.5	2361.8	2341.0	2327.2	2328.9	2344.5	2354.9	2375.7
7.5°	2320.3	2290.8	2273.5	2257.9	2254.5	2251.0	2235.4	2233.7	2238.9	2254.5	2270.1
10°	2256.2	2235.4	2240.6	2252.7	2271.8	2282.2	2268.3	2261.4	2256.2	2266.6	2280.4
12.5°	2318.5	2297.8	2308.1	2328.9	2354.9	2365.3	2360.1	2358.4	2363.6	2403.4	2432.8
15°	2455.3	2415.5	2401.7	2410.3	2431.1	2441.5	2436.3	2443.2	2476.1	2580.0	2654.5
17.5°	2625.0	2528.1	2472.6	2457.1	2465.7	2474.4	2474.4	2491.7	2548.8	2701.2	2794.7
20°	2716.8	2590.4	2496.9	2458.8	2462.3	2470.9	2470.9	2495.2	2559.2	2722.0	2782.6
22.5°	2692.5	2576.5	2462.3	2420.7	2422.4	2429.4	2429.4	2450.1	2507.3	2651.0	2678.7
25°	2597.3	2495.2	2382.6	2346.2	2349.7	2361.8	2358.4	2370.5	2413.8	2531.5	2547.1
27.5°	2483.0	2393.0	2282.2	2254.5	2270.1	2294.3	2273.5	2275.2	2315.1	2413.8	2415.5
30°	2360.1	2285.6	2186.9	2166.2	2195.6	2207.7	2188.7	2188.7	2228.5	2296.0	2294.3
32.5°	2226.8	2180.0	2109.0	2086.5	2119.4	2138.5	2114.2	2117.7	2148.8	2193.9	2176.5
35°	2102.1	2077.9	2045.0	2029.4	2050.1	2067.5	2051.9	2058.8	2088.2	2100.4	2076.1
37.5°	1982.6	1979.2	1982.6	1982.6	1987.8	1993.0	1982.6	1999.9	2025.9	2010.3	1982.6
40°	1878.7	1892.6	1925.5	1916.8	1911.6	1916.8	1909.9	1939.3	1965.3	1937.6	1904.7
42.5°	1792.1	1818.1	1868.3	1868.3	1857.9	1861.4	1857.9	1894.3	1913.4	1875.3	1838.9
45°	1717.7	1755.8	1819.9	1828.5	1811.2	1811.2	1818.1	1863.1	1870.1	1818.1	1780.0
47.5°	1665.7	1712.5	1785.2	1800.8	1774.8	1773.1	1792.1	1840.6	1840.6	1780.0	1736.7
50°	1629.4	1681.3	1767.9	1788.7	1762.7	1755.8	1787.0	1833.7	1823.3	1750.6	1707.3
52.5°	1605.1	1658.8	1766.2	1795.6	1778.3	1771.4	1802.5	1835.4	1809.5	1731.5	1686.5
55°	1589.6	1648.4	1771.4	1795.6	1776.6	1764.4	1795.6	1825.0	1811.2	1721.2	1677.9
57.5°	1598.2	1657.1	1764.4	1776.6	1754.1	1733.3	1769.6	1811.2	1806.0	1724.6	1681.3
60°	1584.4	1638.0	1726.3	1729.8	1691.7	1658.8	1712.5	1774.8	1774.8	1712.5	1674.4
62.5°	1520.3	1574.0	1651.9	1655.4	1612.1	1575.7	1638.0	1712.5	1710.8	1660.5	1620.7
65°	1414.7	1464.9	1553.2	1561.9	1518.6	1480.5	1544.5	1613.8	1619.0	1574.0	1539.3
67.5°	1298.7	1343.7	1409.5	1444.1	1407.7	1367.9	1426.8	1492.6	1490.9	1437.2	1400.8
70°	1160.1	1201.7	1262.3	1291.7	1269.2	1231.1	1284.8	1319.4	1303.9	1277.9	1253.6
72.5°	1023.3	1063.2	1120.3	1120.3	1096.1	1059.7	1075.3	1137.6	1156.7	1137.6	1122.0
75°	879.6	914.3	954.1	962.7	909.1	843.3	916.0	969.7	992.2	983.5	964.5
77.5°	732.4	758.4	817.3	801.7	701.3	666.6	725.5	805.2	820.8	815.6	789.6
80°	564.5	580.1	642.4	611.2	533.3	510.8	536.8	599.1	602.6	585.3	552.4
82.5°	379.2	400.0	441.5	380.9	379.2	358.4	337.7	344.6	375.7	372.3	349.8
85°	193.9	204.3	244.1	228.6	195.7	169.7	161.0	171.4	154.1	140.3	121.2
87.5°	81.4	88.3	121.2	67.5	20.8	0.0	0.0	10.4	15.6	22.5	24.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4
2.5°	2581.7	2600.8	2647.5	2706.4	2763.5	2822.4	2886.5	2926.3	2974.8	3037.1	3038.9
5°	2401.7	2444.9	2512.5	2602.5	2696.0	2803.4	2928.0	3031.9	3156.6	3255.3	3295.1
7.5°	2290.8	2353.2	2438.0	2552.3	2675.2	2808.6	2971.3	3146.2	3350.5	3482.1	3560.1
10°	2301.2	2396.5	2481.3	2578.3	2689.1	2832.8	3042.3	3274.3	3525.4	3698.6	3795.5
12.5°	2486.5	2586.9	2571.3	2566.1	2640.6	2815.5	3099.5	3404.2	3710.7	3883.9	3999.9
15°	2720.3	2758.3	2611.2	2500.3	2545.4	2753.2	3130.6	3520.2	3864.8	4076.1	4190.3
17.5°	2839.7	2763.5	2585.2	2419.0	2406.8	2657.9	3146.2	3638.0	4038.0	4249.2	4370.4
20°	2784.3	2673.5	2522.9	2365.3	2278.7	2528.1	3137.6	3731.5	4195.5	4431.0	4529.7
22.5°	2664.8	2567.9	2450.1	2299.5	2174.8	2386.1	3115.0	3825.0	4335.8	4573.0	4659.6
25°	2535.0	2462.3	2365.3	2233.7	2115.9	2261.4	3099.5	3949.6	4496.8	4723.6	4779.1
27.5°	2405.1	2351.4	2271.8	2169.6	2102.1	2174.8	3104.7	4112.4	4704.6	4919.3	4896.8
30°	2277.0	2230.2	2174.8	2129.8	2100.4	2154.0	3090.8	4285.6	4933.2	5132.3	4999.0
32.5°	2155.8	2112.5	2077.9	2084.8	2102.1	2162.7	3019.8	4443.1	5142.7	5312.4	5109.8
35°	2051.9	2006.9	2006.9	2031.1	2095.2	2133.3	2836.3	4566.1	5374.7	5544.4	5267.4
37.5°	1954.9	1915.1	1941.1	1980.9	2041.5	2053.6	2600.8	4685.6	5712.4	5871.7	5511.5
40°	1870.1	1830.2	1877.0	1927.2	1958.4	1953.2	2361.8	4851.8	6110.6	6275.1	5835.3
42.5°	1802.5	1766.2	1807.7	1871.8	1877.0	1882.2	2186.9	5011.1	6572.9	6782.5	6392.9
45°	1747.1	1721.2	1741.9	1806.0	1806.0	1885.7	2077.9	5144.4	7269.0	7639.6	7416.2
47.5°	1703.8	1688.3	1698.6	1719.4	1754.1	1948.0	2008.6	5246.6	8536.5	9263.8	9038.7
50°	1679.6	1664.0	1677.9	1634.6	1738.5	1979.2	1986.1	5324.5	10207.4	11346.8	11068.0
52.5°	1658.8	1653.6	1662.3	1561.9	1773.1	1958.4	1968.8	5220.6	11327.8	13396.9	13672.3
55°	1651.9	1655.4	1613.8	1508.2	1814.7	1889.1	1916.8	4477.8	11632.5	15164.9	16873.9
57.5°	1655.4	1645.0	1539.3	1513.4	1816.4	1750.6	1991.3	3194.7	11189.2	15933.7	20006.2
60°	1643.2	1591.3	1449.3	1560.1	1736.7	1587.8	1937.6	2083.0	10020.4	15343.2	20188.1
62.5°	1589.6	1513.4	1371.4	1586.1	1594.8	1490.9	1759.2	1605.1	8462.1	14079.2	18435.7
65°	1511.6	1409.5	1305.6	1532.4	1451.0	1445.8	1322.9	1286.5	6805.0	12574.5	16773.5
67.5°	1383.5	1281.3	1257.1	1409.5	1305.6	1281.3	1063.2	1066.6	5430.1	10971.1	15102.5
70°	1238.1	1135.9	1154.9	1274.4	1161.9	1064.9	860.6	888.3	4119.3	9140.8	12849.8
72.5°	1142.8	1006.0	1007.8	1122.0	1021.6	862.3	708.2	732.4	2614.6	6889.8	10216.1
75°	964.5	886.6	848.5	909.1	867.5	671.8	595.7	590.5	1549.7	4938.4	7650.0
77.5°	805.2	744.6	725.5	749.8	647.6	497.0	479.6	471.0	877.9	3163.5	5012.8
80°	583.5	567.9	566.2	578.3	498.7	365.4	365.4	367.1	472.7	1717.7	2825.9
82.5°	370.6	405.2	358.4	398.3	339.4	259.7	242.4	275.3	271.9	732.4	1191.3
85°	154.1	211.2	197.4	209.5	161.0	142.0	152.4	164.5	157.6	282.2	464.1
87.5°	29.4	34.6	38.1	36.4	36.4	45.0	50.2	60.6	60.6	81.4	140.3
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°	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4	2822.4
2.5°	3104.7	3154.9	3144.5	3167.0	3137.6	3147.9	3089.1	3073.5	3063.1	3066.6
5°	3423.3	3525.4	3544.5	3582.6	3556.6	3556.6	3452.7	3374.8	3347.1	3326.3
7.5°	3747.1	3894.2	3991.2	4001.6	3987.7	3960.0	3809.4	3669.1	3618.9	3575.6
10°	4034.5	4211.1	4320.2	4372.1	4346.2	4302.9	4115.9	3923.7	3863.1	3825.0
12.5°	4254.4	4410.2	4483.0	4517.6	4514.1	4498.5	4346.2	4138.4	4074.3	4015.4
15°	4396.4	4474.3	4446.6	4444.9	4469.1	4531.4	4484.7	4321.9	4247.5	4193.8
17.5°	4488.2	4413.7	4290.8	4233.6	4285.6	4432.8	4540.1	4448.3	4380.8	4321.9
20°	4521.1	4256.1	4077.8	3972.2	4032.8	4245.7	4510.7	4540.1	4483.0	4434.5
22.5°	4483.0	4063.9	3821.5	3696.8	3755.7	4010.3	4424.1	4614.6	4576.5	4529.7
25°	4389.5	3863.1	3572.2	3459.6	3523.7	3783.4	4270.0	4683.8	4685.6	4647.5
27.5°	4273.4	3677.8	3397.3	3291.7	3354.0	3596.4	4119.3	4744.4	4805.0	4791.2
30°	4155.7	3567.0	3314.2	3239.7	3286.5	3501.2	3965.2	4806.8	4928.0	4952.2
32.5°	4102.0	3620.7	3509.8	3542.7	3482.1	3556.6	3909.8	4895.1	5076.9	5116.7
35°	4173.0	4096.8	4377.3	4507.2	4292.5	4010.3	3980.8	5028.4	5286.4	5345.3
37.5°	4517.6	5116.7	5535.7	5992.9	5620.6	4999.0	4332.3	5255.2	5586.0	5679.5
40°	5267.4	6006.7	6763.4	7353.9	6791.1	5954.8	5000.7	5592.9	5998.1	6082.9
42.5°	5973.8	6841.3	7883.7	8647.3	7916.6	6735.7	5721.0	6160.8	6541.8	6588.5
45°	6666.4	7660.3	9239.5	10300.9	9308.8	7478.5	6456.9	7120.1	7407.5	7409.3
47.5°	7478.5	8583.3	10939.9	12451.5	11156.3	8301.0	7147.8	8638.7	9038.7	8843.0
50°	8449.9	9501.0	12690.5	14953.6	13409.1	9312.2	8025.7	10489.7	11035.1	10813.5
52.5°	9750.3	10512.2	14619.4	17393.3	15864.4	10463.7	9298.4	12934.6	13114.7	12700.9
55°	11580.6	11971.9	17095.5	20406.2	18605.4	11881.8	11159.8	16002.9	15499.0	14312.9
57.5°	15748.4	14281.8	20274.6	23843.3	21706.6	14458.4	15239.3	19386.4	17594.2	15594.3
60°	19235.7	17086.9	23216.5	27254.5	24364.5	17298.1	19069.5	19975.1	17516.3	15452.3
62.5°	18060.0	17802.0	24278.0	27630.2	25271.9	18695.5	18357.8	18491.1	16373.5	14508.6
65°	15845.3	16422.0	23330.8	25848.5	24265.8	17443.6	16605.5	17119.8	15066.2	13187.4
67.5°	14538.0	14962.3	21646.0	22996.6	22437.3	16089.5	15242.8	14870.5	13036.8	11440.3
70°	13201.3	13552.8	19280.7	19417.5	19585.5	13838.5	12463.6	11355.5	9717.4	8600.6
72.5°	11407.4	11426.5	16290.4	15497.3	15815.9	10829.1	10032.6	8489.8	7073.4	6060.4
75°	9570.2	9047.3	12894.8	10832.5	11471.5	8424.0	8330.5	6398.1	5334.9	4503.7
77.5°	7296.7	6685.5	9419.6	7123.6	8056.9	5610.2	6263.0	4339.2	3754.0	2997.3
80°	4898.5	4517.6	5205.0	4020.6	5270.8	3866.5	4084.7	2458.8	2131.5	1653.6
82.5°	2583.5	2206.0	3217.2	2384.3	3179.1	2124.6	1532.4	760.1	647.6	522.9
85°	1000.8	1158.4	1577.4	848.5	1232.9	758.4	443.3	188.7	157.6	119.5
87.5°	193.9	299.6	164.5	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)