

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: P639692

Luminaire Tested: GWS-SA5C-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639692
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-SA5C-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22012.1 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

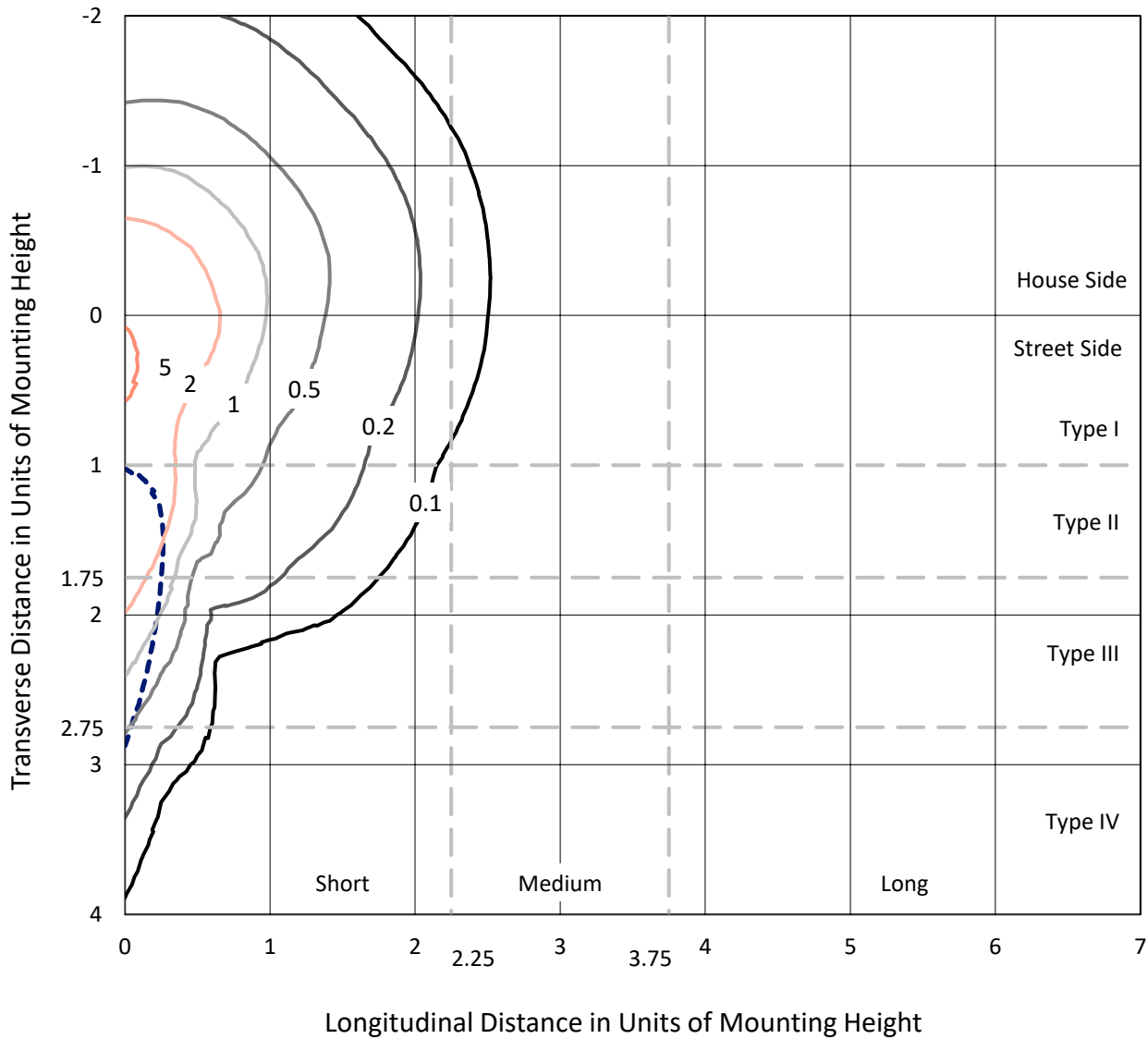
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

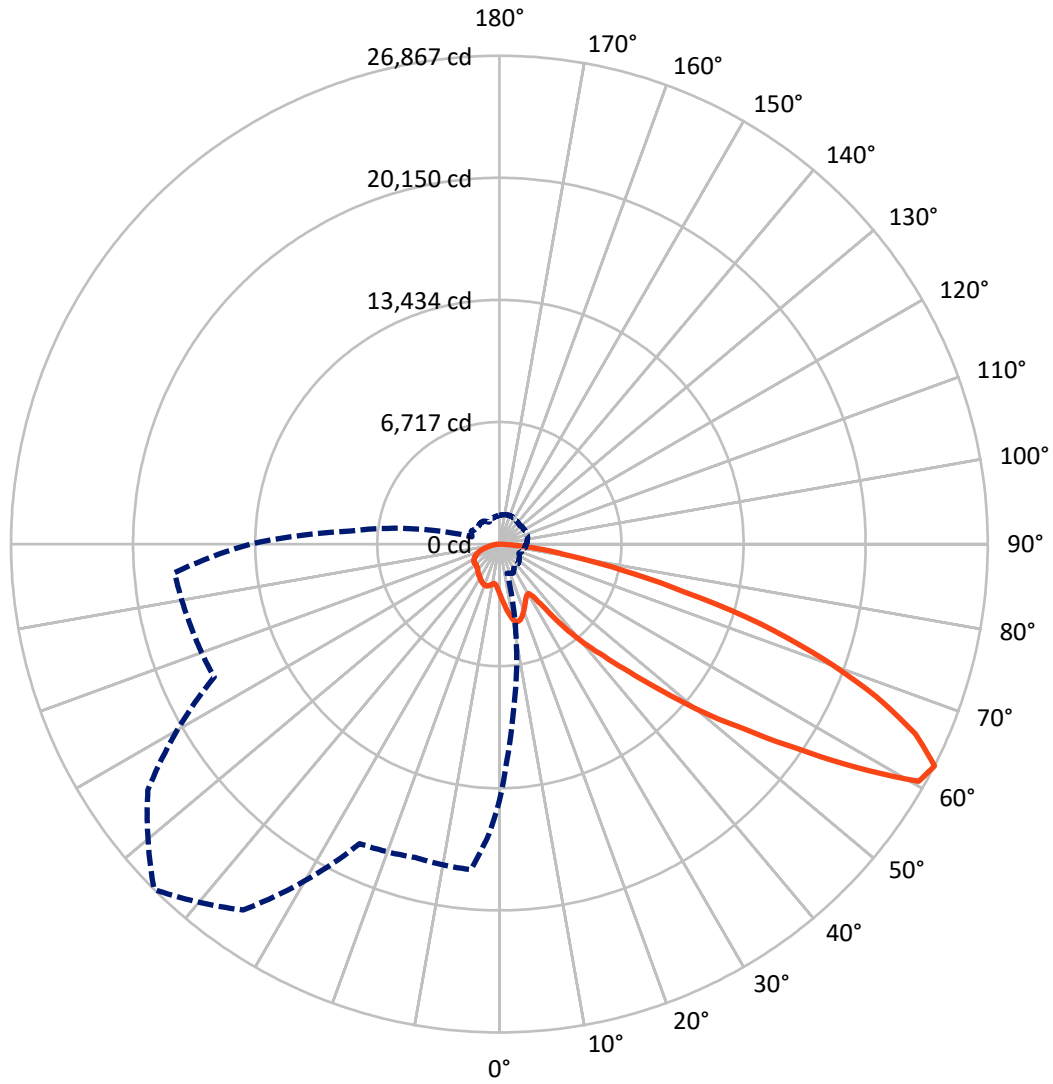
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	5263.1	0.0	5263.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	16749.0	0.0	16749.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	22012.1	0.0	22012.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.4	1.2
10°-20°	878.7	4.0
20°-30°	1383.3	6.3
30°-40°	1896.0	8.6
40°-50°	2958.4	13.4
50°-60°	5100.9	23.2
60°-70°	5911.3	26.9
70°-80°	3120.2	14.2
80°-90°	492.9	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°	22012.1	100.0
0°-180°	22012.1	100.0

Coefficient of Utilization



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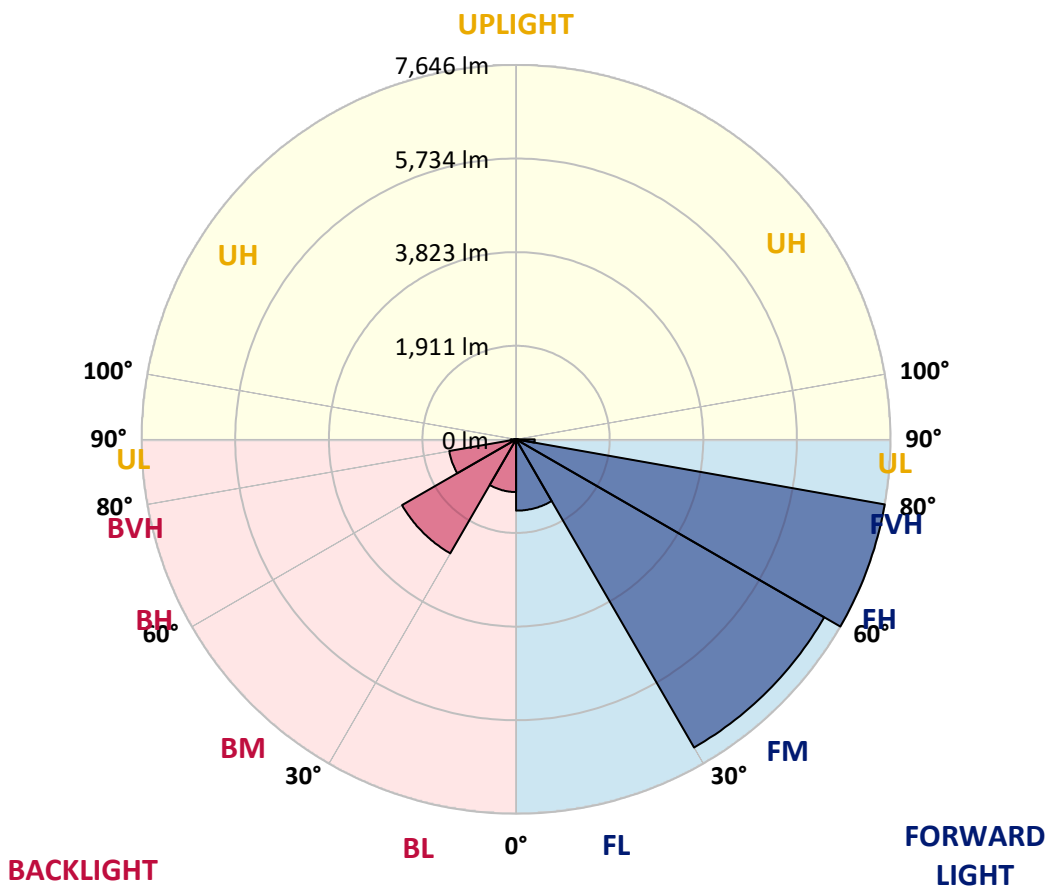
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1455.8	6.6			
FM (30°-60°)	7267.0	33.0			
FH (60°-80°)	7645.7	34.7			G4/12000
FVH (80°-90°)	380.4	1.7			G3/500
BL (0°-30°)	1076.5	4.9	B3/2500		
BM (30°-60°)	2688.4	12.2	B3/5000		
BH (60°-80°)	1385.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	112.5	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°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	2981.9	2970.1	2953.2	2896.0	2860.6	2820.2	2778.1	2729.3	2673.7	2635.0	2596.3
5°	3234.4	3215.9	3175.5	3039.1	2944.8	2842.1	2756.2	2658.6	2562.6	2496.9	2431.3
7.5°	3476.9	3453.3	3391.0	3182.2	3029.0	2880.8	2751.2	2609.8	2466.6	2369.0	2291.5
10°	3719.3	3670.5	3591.4	3318.6	3116.6	2944.8	2796.6	2623.2	2433.0	2300.0	2217.5
12.5°	3904.5	3859.1	3773.2	3443.2	3204.1	2988.6	2821.9	2662.0	2500.3	2358.9	2274.7
15°	4078.0	4019.0	3921.4	3559.4	3276.5	2986.9	2771.4	2631.6	2608.1	2572.7	2463.3
17.5°	4202.5	4148.7	4047.6	3653.7	3316.9	2934.7	2631.6	2549.1	2655.2	2763.0	2658.6
20°	4312.0	4249.7	4147.0	3719.3	3325.3	2818.5	2461.6	2463.3	2630.0	2778.1	2752.9
22.5°	4404.6	4335.6	4244.6	3793.4	3322.0	2656.9	2313.4	2414.4	2581.1	2697.3	2700.7
25°	4519.1	4461.8	4386.1	3902.8	3322.0	2491.9	2205.7	2355.5	2498.6	2596.3	2592.9
27.5°	4658.8	4620.1	4557.8	4069.5	3352.3	2353.8	2145.1	2279.7	2392.6	2476.7	2475.1
30°	4815.4	4780.1	4732.9	4246.3	3404.5	2251.1	2111.4	2185.5	2268.0	2335.3	2335.3
32.5°	4975.4	4961.9	4911.4	4387.8	3364.1	2219.1	2082.8	2091.2	2134.9	2190.5	2185.5
35°	5197.6	5184.2	5120.2	4497.2	3189.0	2173.7	2037.3	1995.2	2000.3	2035.6	2047.4
37.5°	5522.6	5502.4	5408.1	4625.2	2924.6	2059.2	1963.2	1894.2	1879.0	1894.2	1916.1
40°	5914.9	5884.6	5756.6	4798.6	2619.9	1904.3	1847.0	1789.8	1764.5	1769.6	1794.8
42.5°	6406.5	6342.5	6159.0	4982.1	2318.5	1767.9	1717.4	1682.0	1653.4	1650.0	1698.9
45°	7204.6	7029.5	6738.2	5145.4	2064.2	1695.5	1601.2	1576.0	1552.4	1565.9	1623.1
47.5°	8598.7	8275.5	7708.0	5285.2	1909.3	1697.2	1508.6	1481.7	1480.0	1506.9	1570.9
50°	10514.8	10048.4	9172.9	5379.5	1828.5	1717.4	1453.0	1409.3	1441.3	1468.2	1528.8
52.5°	12350.0	11637.8	10595.6	5377.8	1793.2	1720.8	1468.2	1341.9	1441.3	1448.0	1505.2
55°	13917.6	12627.9	10979.5	4825.5	1742.6	1707.3	1527.1	1289.7	1422.7	1448.0	1493.5
57.5°	15163.5	13257.6	10950.9	3897.8	1895.9	1633.2	1562.5	1277.9	1368.9	1451.4	1503.6
60°	15025.5	12969.6	10245.4	2392.6	1880.7	1501.9	1557.4	1299.8	1277.9	1405.9	1491.8
62.5°	14107.8	11937.5	9031.4	1660.1	1766.2	1426.1	1474.9	1338.6	1193.8	1340.2	1434.5
65°	12823.2	10605.7	7526.2	1272.9	1463.1	1429.5	1335.2	1311.6	1119.7	1235.8	1336.9
67.5°	11124.3	8954.0	5941.8	1008.5	1020.3	1237.5	1212.3	1165.1	1050.6	1143.2	1234.2
70°	8363.0	6534.5	4088.1	811.5	772.8	1033.8	1089.4	1047.3	983.3	1010.2	1106.2
72.5°	5893.0	4266.5	2239.3	643.2	596.0	794.7	946.2	939.5	868.8	889.0	983.3
75°	4379.3	3018.9	1399.2	508.5	484.9	569.1	793.0	813.2	754.3	777.9	850.3
77.5°	2914.5	1954.8	777.9	377.2	377.2	415.9	591.0	685.3	641.5	660.0	710.5
80°	1607.9	995.1	388.9	247.5	254.2	286.2	431.0	493.3	495.0	540.5	553.9
82.5°	508.5	316.5	173.4	144.8	136.4	163.3	277.8	353.6	330.0	420.9	387.3
85°	116.2	74.1	32.0	32.0	35.4	53.9	106.1	188.6	240.8	289.6	210.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	74.1	109.4	97.7
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°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	2572.7	2539.0	2528.9	2500.3	2496.9	2470.0	2459.9	2459.9	2471.7	2471.7	2483.5
5°	2404.3	2362.3	2338.7	2305.0	2296.6	2276.4	2262.9	2264.6	2279.7	2289.9	2310.1
7.5°	2256.2	2227.6	2210.7	2195.6	2192.2	2188.8	2173.7	2172.0	2177.0	2192.2	2207.3
10°	2193.9	2173.7	2178.7	2190.5	2209.0	2219.1	2205.7	2198.9	2193.9	2204.0	2217.5
12.5°	2254.5	2234.3	2244.4	2264.6	2289.9	2300.0	2294.9	2293.2	2298.3	2337.0	2365.6
15°	2387.5	2348.8	2335.3	2343.7	2363.9	2374.0	2369.0	2375.7	2407.7	2508.7	2581.1
17.5°	2552.5	2458.2	2404.3	2389.2	2397.6	2406.0	2406.0	2422.9	2478.4	2626.6	2717.5
20°	2641.7	2518.8	2427.9	2390.9	2394.2	2402.7	2402.7	2426.2	2488.5	2646.8	2705.7
22.5°	2618.2	2505.4	2394.2	2353.8	2355.5	2362.3	2362.3	2382.5	2438.0	2577.8	2604.7
25°	2525.6	2426.2	2316.8	2281.4	2284.8	2296.6	2293.2	2305.0	2347.1	2461.6	2476.7
27.5°	2414.4	2326.9	2219.1	2192.2	2207.3	2230.9	2210.7	2212.4	2251.1	2347.1	2348.8
30°	2294.9	2222.5	2126.5	2106.3	2134.9	2146.7	2128.2	2128.2	2166.9	2232.6	2230.9
32.5°	2165.3	2119.8	2050.8	2028.9	2060.9	2079.4	2055.8	2059.2	2089.5	2133.3	2116.4
35°	2044.0	2020.5	1988.5	1973.3	1993.5	2010.4	1995.2	2001.9	2030.6	2042.3	2018.8
37.5°	1927.9	1924.5	1927.9	1927.9	1932.9	1938.0	1927.9	1944.7	1969.9	1954.8	1927.9
40°	1826.8	1840.3	1872.3	1863.9	1858.8	1863.9	1857.1	1885.8	1911.0	1884.1	1852.1
42.5°	1742.6	1767.9	1816.7	1816.7	1806.6	1810.0	1806.6	1842.0	1860.5	1823.5	1788.1
45°	1670.2	1707.3	1769.6	1778.0	1761.2	1761.2	1767.9	1811.7	1818.4	1767.9	1730.9
47.5°	1619.7	1665.2	1735.9	1751.1	1725.8	1724.1	1742.6	1789.8	1789.8	1730.9	1688.8
50°	1584.4	1634.9	1719.1	1739.3	1714.0	1707.3	1737.6	1783.1	1773.0	1702.2	1660.1
52.5°	1560.8	1613.0	1717.4	1746.0	1729.2	1722.4	1752.7	1784.7	1759.5	1683.7	1639.9
55°	1545.6	1602.9	1722.4	1746.0	1727.5	1715.7	1746.0	1774.6	1761.2	1673.6	1631.5
57.5°	1554.1	1611.3	1715.7	1727.5	1705.6	1685.4	1720.8	1761.2	1756.1	1677.0	1634.9
60°	1540.6	1592.8	1678.7	1682.0	1645.0	1613.0	1665.2	1725.8	1725.8	1665.2	1628.2
62.5°	1478.3	1530.5	1606.3	1609.6	1567.5	1532.2	1592.8	1665.2	1663.5	1614.7	1576.0
65°	1375.6	1424.4	1510.3	1518.7	1476.6	1439.6	1501.9	1569.2	1574.3	1530.5	1496.8
67.5°	1262.8	1306.6	1370.5	1404.2	1368.9	1330.1	1387.4	1451.4	1449.7	1397.5	1362.1
70°	1128.1	1168.5	1227.4	1256.1	1234.2	1197.1	1249.3	1283.0	1267.8	1242.6	1219.0
72.5°	995.1	1033.8	1089.4	1089.4	1065.8	1030.4	1045.6	1106.2	1124.7	1106.2	1091.0
75°	855.3	889.0	927.7	936.1	883.9	820.0	890.7	942.9	964.8	956.3	937.8
77.5°	712.2	737.5	794.7	779.6	681.9	648.2	705.5	782.9	798.1	793.0	767.8
80°	548.9	564.0	624.7	594.4	518.6	496.7	522.0	582.6	585.9	569.1	537.1
82.5°	368.7	388.9	429.3	370.4	368.7	348.5	328.3	335.1	365.4	362.0	340.1
85°	188.6	198.7	237.4	222.3	190.3	165.0	156.6	166.7	149.9	136.4	117.9
87.5°	79.1	85.9	117.9	65.7	20.2	0.0	0.0	10.1	15.2	21.9	23.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	2510.4	2528.9	2574.4	2631.6	2687.2	2744.5	2806.8	2845.5	2892.6	2953.2	2954.9
5°	2335.3	2377.4	2443.1	2530.6	2621.5	2725.9	2847.2	2948.2	3069.4	3165.4	3204.1
7.5°	2227.6	2288.2	2370.7	2481.8	2601.3	2731.0	2889.3	3059.3	3258.0	3385.9	3461.7
10°	2237.7	2330.3	2412.8	2507.0	2614.8	2754.6	2958.3	3183.9	3428.0	3596.4	3690.7
12.5°	2417.8	2515.5	2500.3	2495.3	2567.7	2737.7	3013.8	3310.2	3608.2	3776.6	3889.4
15°	2645.1	2682.2	2539.0	2431.3	2475.1	2677.1	3044.2	3423.0	3758.0	3963.5	4074.6
17.5°	2761.3	2687.2	2513.8	2352.1	2340.4	2584.5	3059.3	3537.5	3926.4	4131.8	4249.7
20°	2707.4	2599.7	2453.2	2300.0	2215.8	2458.2	3050.9	3628.4	4079.6	4308.6	4404.6
22.5°	2591.2	2496.9	2382.5	2236.0	2114.7	2320.2	3029.0	3719.3	4216.0	4446.7	4530.9
25°	2465.0	2394.2	2300.0	2172.0	2057.5	2198.9	3013.8	3840.6	4372.6	4593.2	4647.0
27.5°	2338.7	2286.5	2209.0	2109.7	2044.0	2114.7	3018.9	3998.8	4574.6	4783.4	4761.5
30°	2214.1	2168.6	2114.7	2071.0	2042.3	2094.5	3005.4	4167.2	4796.9	4990.5	4860.9
32.5°	2096.2	2054.1	2020.5	2027.2	2044.0	2103.0	2936.4	4320.4	5000.6	5165.6	4968.6
35°	1995.2	1951.4	1951.4	1975.0	2037.3	2074.3	2757.9	4440.0	5226.2	5391.3	5121.9
37.5°	1900.9	1862.2	1887.4	1926.2	1985.1	1996.9	2528.9	4556.1	5554.6	5709.5	5359.3
40°	1818.4	1779.7	1825.1	1874.0	1904.3	1899.2	2296.6	4717.8	5941.8	6101.8	5674.1
42.5°	1752.7	1717.4	1757.8	1820.1	1825.1	1830.2	2126.5	4872.7	6391.4	6595.1	6216.3
45°	1698.9	1673.6	1693.8	1756.1	1756.1	1833.6	2020.5	5002.3	7068.2	7428.5	7211.3
47.5°	1656.8	1641.6	1651.7	1671.9	1705.6	1894.2	1953.1	5101.7	8300.7	9007.9	8789.0
50°	1633.2	1618.0	1631.5	1589.4	1690.4	1924.5	1931.2	5177.4	9925.5	11033.4	10762.3
52.5°	1613.0	1607.9	1616.4	1518.7	1724.1	1904.3	1914.4	5076.4	11014.9	13026.9	13294.6
55°	1606.3	1609.6	1569.2	1466.5	1764.5	1836.9	1863.9	4354.1	11311.2	14746.0	16407.8
57.5°	1609.6	1599.5	1496.8	1471.6	1766.2	1702.2	1936.3	3106.5	10880.2	15493.5	19453.6
60°	1597.8	1547.3	1409.3	1517.0	1688.8	1544.0	1884.1	2025.5	9743.7	14919.4	19630.4
62.5°	1545.6	1471.6	1333.5	1542.3	1550.7	1449.7	1710.7	1560.8	8228.3	13690.3	17926.5
65°	1469.9	1370.5	1269.5	1490.1	1411.0	1405.9	1286.4	1251.0	6617.0	12227.1	16310.1
67.5°	1345.3	1245.9	1222.4	1370.5	1269.5	1245.9	1033.8	1037.2	5280.1	10668.0	14685.3
70°	1203.9	1104.5	1123.0	1239.2	1129.8	1035.5	836.8	863.7	4005.6	8888.3	12494.8
72.5°	1111.3	978.2	979.9	1091.0	993.4	838.5	688.6	712.2	2542.4	6699.5	9933.9
75°	937.8	862.1	825.0	883.9	843.5	653.3	579.2	574.1	1506.9	4802.0	7438.6
77.5°	782.9	724.0	705.5	729.0	629.7	483.2	466.4	458.0	853.6	3076.1	4874.4
80°	567.4	552.3	550.6	562.4	484.9	355.3	355.3	356.9	459.7	1670.2	2747.8
82.5°	360.3	394.0	348.5	387.3	330.0	252.6	235.7	267.7	264.3	712.2	1158.4
85°	149.9	205.4	191.9	203.7	156.6	138.1	148.2	160.0	153.2	274.4	451.2
87.5°	28.6	33.7	37.0	35.4	35.4	43.8	48.8	58.9	58.9	79.1	136.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5	2744.5
2.5°	3018.9	3067.7	3057.6	3079.5	3050.9	3061.0	3003.7	2988.6	2978.5	2981.9
5°	3328.7	3428.0	3446.6	3483.6	3458.3	3458.3	3357.3	3281.6	3254.6	3234.4
7.5°	3643.6	3786.7	3881.0	3891.1	3877.6	3850.7	3704.2	3567.8	3519.0	3476.9
10°	3923.1	4094.8	4200.9	4251.4	4226.1	4184.0	4002.2	3815.3	3756.4	3719.3
12.5°	4136.9	4288.4	4359.1	4392.8	4389.4	4374.3	4226.1	4024.1	3961.8	3904.5
15°	4274.9	4350.7	4323.8	4322.1	4345.7	4406.3	4360.8	4202.5	4130.1	4078.0
17.5°	4364.2	4291.8	4172.2	4116.7	4167.2	4310.3	4414.7	4325.5	4259.8	4202.5
20°	4396.2	4138.6	3965.1	3862.4	3921.4	4128.5	4386.1	4414.7	4359.1	4312.0
22.5°	4359.1	3951.7	3716.0	3594.7	3652.0	3899.5	4301.9	4487.1	4450.1	4404.6
25°	4268.2	3756.4	3473.5	3364.1	3426.4	3678.9	4152.0	4554.4	4556.1	4519.1
27.5°	4155.4	3576.2	3303.4	3200.7	3261.4	3497.1	4005.6	4613.4	4672.3	4658.8
30°	4040.9	3468.4	3222.6	3150.2	3195.7	3404.5	3855.7	4674.0	4791.8	4815.4
32.5°	3988.7	3520.6	3412.9	3444.9	3385.9	3458.3	3801.8	4759.9	4936.6	4975.4
35°	4057.7	3983.7	4256.4	4382.7	4173.9	3899.5	3870.9	4889.5	5140.4	5197.6
37.5°	4392.8	4975.4	5382.8	5827.3	5465.3	4860.9	4212.7	5110.1	5431.7	5522.6
40°	5121.9	5840.8	6576.6	7150.7	6603.5	5790.3	4862.6	5438.4	5832.4	5914.9
42.5°	5808.8	6652.4	7665.9	8408.5	7697.9	6549.6	5563.0	5990.7	6361.1	6406.5
45°	6482.3	7448.7	8984.3	10016.4	9051.6	7272.0	6278.6	6923.4	7202.9	7204.6
47.5°	7272.0	8346.2	10637.7	12107.6	10848.2	8071.7	6950.4	8400.0	8789.0	8598.7
50°	8216.5	9238.5	12339.9	14540.6	13038.7	9055.0	7804.0	10199.9	10730.3	10514.8
52.5°	9481.0	10221.8	14215.6	16912.9	15426.2	10174.7	9041.5	12577.3	12752.4	12350.0
55°	11260.7	11641.2	16623.3	19842.6	18091.5	11553.6	10851.5	15560.9	15070.9	13917.6
57.5°	15313.4	13887.3	19714.6	23184.7	21107.0	14059.0	14818.4	18850.9	17108.2	15163.5
60°	18704.4	16614.9	22575.2	26501.7	23691.5	16820.3	18542.7	19423.3	17032.4	15025.5
62.5°	17561.1	17310.3	23607.3	26867.0	24573.8	18179.1	17850.7	17980.4	15921.2	14107.8
65°	15407.7	15968.3	22686.4	25134.5	23595.6	16961.7	16146.8	16646.9	14650.0	12823.2
67.5°	14136.5	14549.0	21048.1	22361.4	21817.6	15645.1	14821.7	14459.7	12676.7	11124.3
70°	12836.6	13178.4	18748.2	18881.2	19044.5	13456.2	12119.4	11041.8	9449.0	8363.0
72.5°	11092.3	11110.8	15840.4	15069.2	15379.0	10529.9	9755.4	8255.2	6878.0	5893.0
75°	9305.9	8797.4	12538.6	10533.3	11154.6	8191.3	8100.3	6221.3	5187.5	4379.3
77.5°	7095.2	6500.8	9159.4	6926.8	7834.3	5455.2	6090.0	4219.4	3650.3	2914.5
80°	4763.2	4392.8	5061.2	3909.6	5125.2	3759.7	3971.9	2390.9	2072.7	1607.9
82.5°	2512.1	2145.1	3128.3	2318.5	3091.3	2065.9	1490.1	739.2	629.7	508.5
85°	973.2	1126.4	1533.9	825.0	1198.8	737.5	431.0	183.5	153.2	116.2
87.5°	188.6	291.3	160.0	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)