

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: P639747

Luminaire Tested: GWS-SA5C-740-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639747
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-740-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22318 lumens
Efficiency: N/A
Efficacy: 141.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

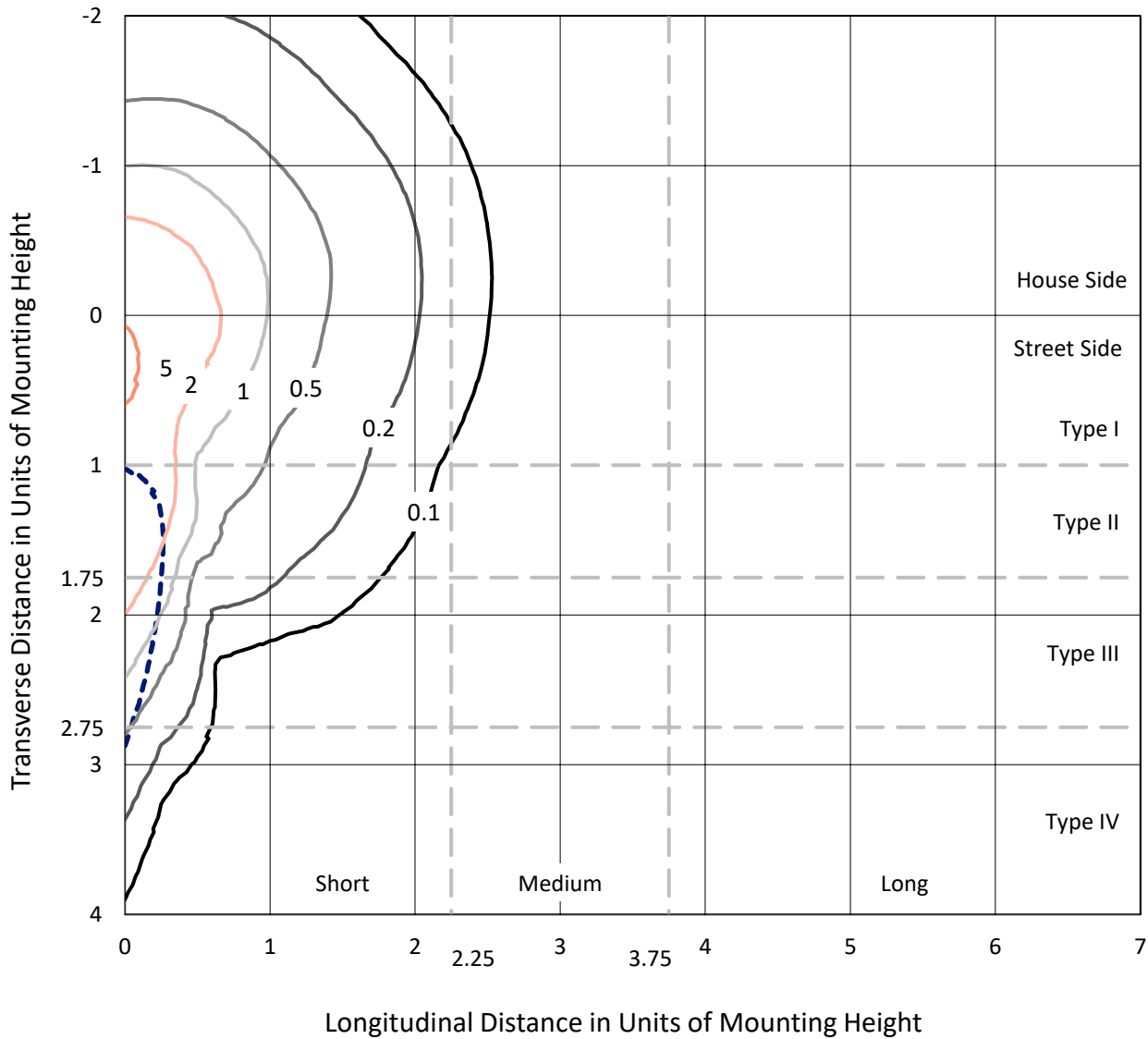
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

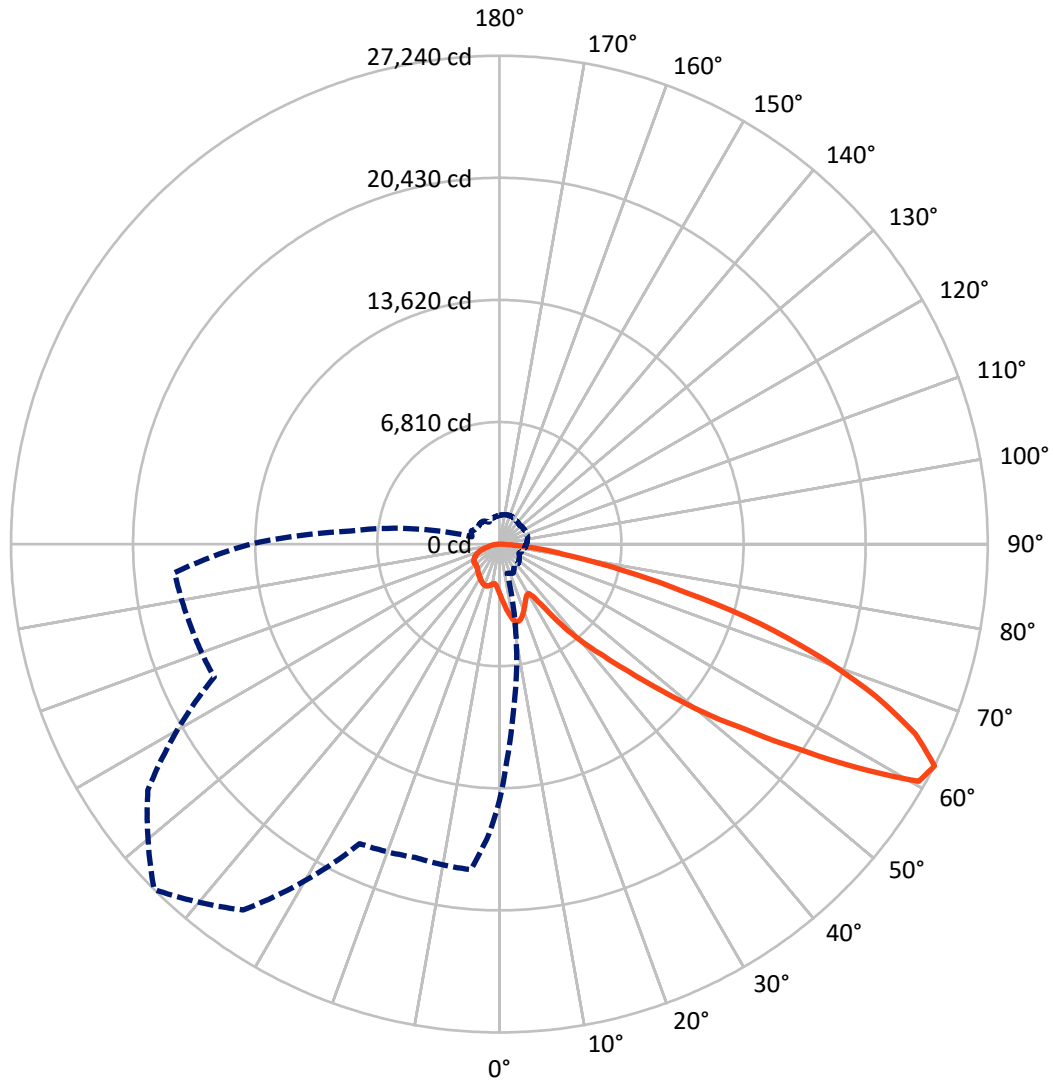
× Max cd
 - - - 1/2 Max cd



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	5336.3	0.0	5336.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	16981.7	0.0	16981.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	22318.0	0.0	22318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	1.2
10°-20°	890.9	4.0
20°-30°	1402.5	6.3
30°-40°	1922.4	8.6
40°-50°	2999.5	13.4
50°-60°	5171.8	23.2
60°-70°	5993.4	26.9
70°-80°	3163.6	14.2
80°-90°	499.7	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°	22318.0	100.0
0°-180°	22318.0	100.0

Coefficient of Utilization



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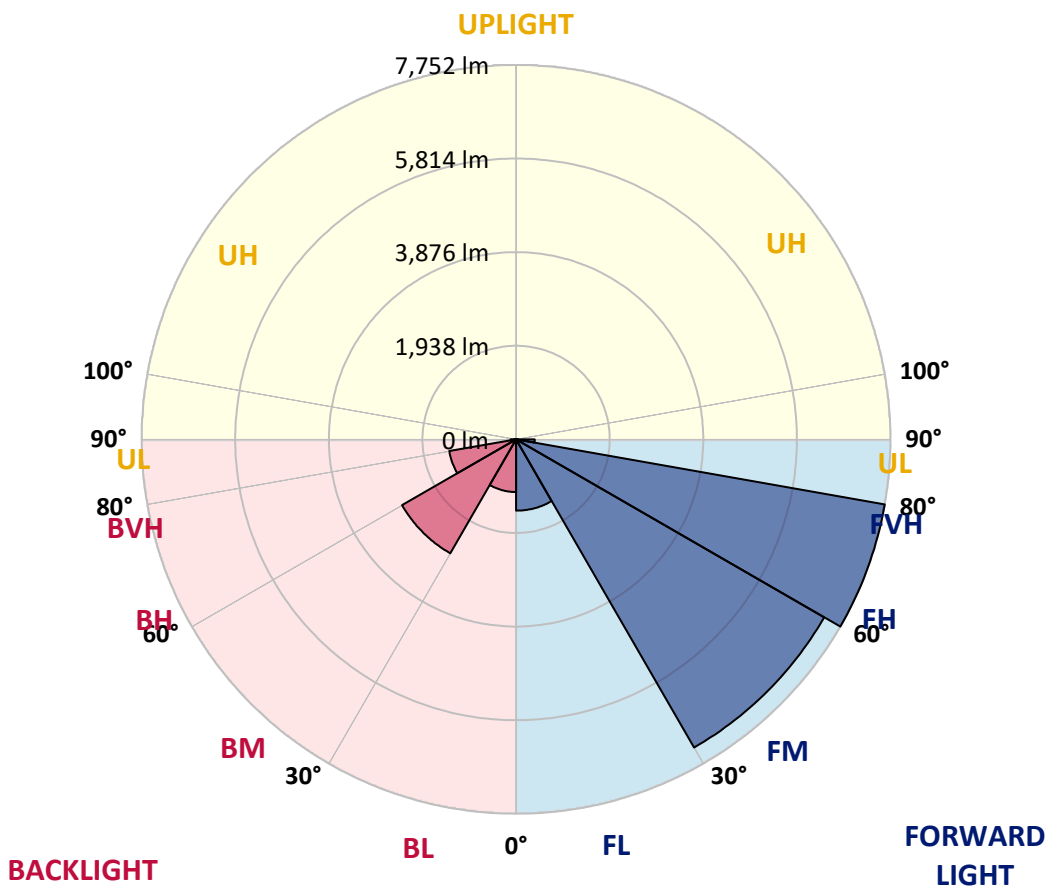
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1476.1	6.6			
FM (30°-60°)	7368.0	33.0			
FH (60°-80°)	7752.0	34.7			G4/12000
FVH (80°-90°)	385.7	1.7			G3/500
BL (0°-30°)	1091.5	4.9	B3/2500		
BM (30°-60°)	2725.7	12.2	B3/5000		
BH (60°-80°)	1405.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	114.0	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°	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6
2.5°	3023.3	3011.3	2994.3	2936.2	2900.4	2859.4	2816.7	2767.2	2710.9	2671.6	2632.4
5°	3279.4	3260.6	3219.6	3081.3	2985.7	2881.6	2794.5	2695.5	2598.2	2531.6	2465.1
7.5°	3525.2	3501.3	3438.1	3226.4	3071.1	2920.9	2789.4	2646.0	2500.9	2401.9	2323.4
10°	3771.0	3721.5	3641.3	3364.7	3159.9	2985.7	2835.5	2659.7	2466.8	2331.9	2248.3
12.5°	3958.8	3912.7	3825.6	3491.0	3248.6	3030.1	2861.1	2698.9	2535.1	2391.7	2306.3
15°	4134.6	4074.9	3975.9	3608.8	3322.0	3028.4	2809.9	2668.2	2644.3	2608.5	2497.5
17.5°	4261.0	4206.3	4103.9	3704.4	3363.0	2975.5	2668.2	2584.6	2692.1	2801.4	2695.5
20°	4371.9	4308.8	4204.6	3771.0	3371.5	2857.7	2495.8	2497.5	2666.5	2816.7	2791.1
22.5°	4465.8	4395.8	4303.6	3846.1	3368.1	2693.8	2345.6	2448.0	2617.0	2734.8	2738.2
25°	4581.9	4523.8	4447.0	3957.1	3368.1	2526.5	2236.3	2388.2	2533.4	2632.4	2629.0
27.5°	4723.6	4684.3	4621.2	4126.1	3398.9	2386.5	2174.9	2311.4	2425.8	2511.2	2509.5
30°	4882.3	4846.5	4798.7	4305.3	3451.8	2282.4	2140.7	2215.8	2299.5	2367.8	2367.8
32.5°	5044.5	5030.9	4979.6	4448.7	3410.8	2250.0	2111.7	2120.2	2164.6	2221.0	2215.8
35°	5269.9	5256.2	5191.3	4559.7	3233.3	2203.9	2065.6	2022.9	2028.0	2063.9	2075.8
37.5°	5599.3	5578.8	5483.2	4689.4	2965.3	2087.8	1990.5	1920.5	1905.1	1920.5	1942.7
40°	5997.1	5966.4	5836.6	4865.3	2656.3	1930.7	1872.7	1814.7	1789.1	1794.2	1819.8
42.5°	6495.6	6430.7	6244.6	5051.3	2350.7	1792.5	1741.3	1705.4	1676.4	1673.0	1722.5
45°	7304.7	7127.2	6831.9	5216.9	2092.9	1719.1	1623.5	1597.9	1574.0	1587.6	1645.7
47.5°	8718.2	8390.5	7815.2	5358.6	1935.9	1720.8	1529.6	1502.3	1500.6	1527.9	1592.7
50°	10660.9	10188.0	9300.3	5454.2	1853.9	1741.3	1473.2	1428.9	1461.3	1488.6	1550.1
52.5°	12521.7	11799.6	10742.9	5452.5	1818.1	1744.7	1488.6	1360.6	1461.3	1468.1	1526.2
55°	14111.0	12803.3	11132.1	4892.6	1766.9	1731.0	1548.4	1307.6	1442.5	1468.1	1514.2
57.5°	15374.3	13441.8	11103.1	3952.0	1922.2	1655.9	1584.2	1295.7	1387.9	1471.5	1524.5
60°	15234.3	13149.9	10387.8	2425.8	1906.8	1522.7	1579.1	1317.9	1295.7	1425.4	1512.5
62.5°	14303.9	12103.4	9156.9	1683.2	1790.8	1445.9	1495.4	1357.2	1210.3	1358.9	1454.5
65°	13001.4	10753.1	7630.8	1290.6	1483.5	1449.3	1353.7	1329.8	1135.2	1253.0	1355.4
67.5°	11278.9	9078.4	6024.4	1022.6	1034.5	1254.7	1229.1	1181.3	1065.2	1159.1	1251.3
70°	8479.2	6625.3	4144.9	822.8	783.6	1048.2	1104.5	1061.8	997.0	1024.3	1121.6
72.5°	5974.9	4325.8	2270.5	652.1	604.3	805.8	959.4	952.6	880.9	901.4	997.0
75°	4440.2	3060.9	1418.6	515.5	491.6	577.0	804.0	824.5	764.8	788.7	862.1
77.5°	2955.0	1982.0	788.7	382.4	382.4	421.7	599.2	694.8	650.4	669.2	720.4
80°	1630.3	1008.9	394.3	250.9	257.8	290.2	437.0	500.2	501.9	548.0	561.6
82.5°	515.5	320.9	175.8	146.8	138.3	165.6	281.7	358.5	334.6	426.8	392.6
85°	117.8	75.1	32.4	32.4	35.8	54.6	107.5	191.2	244.1	293.6	213.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	75.1	111.0	99.0
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°	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6
2.5°	2608.5	2574.3	2564.1	2535.1	2531.6	2504.3	2494.1	2494.1	2506.0	2506.0	2518.0
5°	2437.8	2395.1	2371.2	2337.0	2328.5	2308.0	2294.4	2296.1	2311.4	2321.7	2342.2
7.5°	2287.5	2258.5	2241.4	2226.1	2222.7	2219.2	2203.9	2202.2	2207.3	2222.7	2238.0
10°	2224.4	2203.9	2209.0	2221.0	2239.7	2250.0	2236.3	2229.5	2224.4	2234.6	2248.3
12.5°	2285.8	2265.3	2275.6	2296.1	2321.7	2331.9	2326.8	2325.1	2330.2	2369.5	2398.5
15°	2420.7	2381.4	2367.8	2376.3	2396.8	2407.0	2401.9	2408.7	2441.2	2543.6	2617.0
17.5°	2588.0	2492.4	2437.8	2422.4	2430.9	2439.5	2439.5	2456.5	2512.9	2663.1	2755.3
20°	2678.5	2553.8	2461.7	2424.1	2427.5	2436.0	2436.0	2459.9	2523.1	2683.6	2743.3
22.5°	2654.6	2540.2	2427.5	2386.5	2388.2	2395.1	2395.1	2415.6	2471.9	2613.6	2640.9
25°	2560.7	2459.9	2349.0	2313.1	2316.6	2328.5	2325.1	2337.0	2379.7	2495.8	2511.2
27.5°	2448.0	2359.2	2250.0	2222.7	2238.0	2261.9	2241.4	2243.1	2282.4	2379.7	2381.4
30°	2326.8	2253.4	2156.1	2135.6	2164.6	2176.6	2157.8	2157.8	2197.1	2263.6	2261.9
32.5°	2195.3	2149.3	2079.3	2057.1	2089.5	2108.3	2084.4	2087.8	2118.5	2162.9	2145.8
35°	2072.4	2048.5	2016.1	2000.7	2021.2	2038.3	2022.9	2029.8	2058.8	2070.7	2046.8
37.5°	1954.6	1951.2	1954.6	1954.6	1959.8	1964.9	1954.6	1971.7	1997.3	1982.0	1954.6
40°	1852.2	1865.9	1898.3	1889.8	1884.7	1889.8	1882.9	1912.0	1937.6	1910.3	1877.8
42.5°	1766.9	1792.5	1842.0	1842.0	1831.7	1835.1	1831.7	1867.6	1886.4	1848.8	1813.0
45°	1693.5	1731.0	1794.2	1802.7	1785.6	1785.6	1792.5	1836.9	1843.7	1792.5	1754.9
47.5°	1642.2	1688.3	1760.0	1775.4	1749.8	1748.1	1766.9	1814.7	1814.7	1754.9	1712.2
50°	1606.4	1657.6	1743.0	1763.4	1737.8	1731.0	1761.7	1807.8	1797.6	1725.9	1683.2
52.5°	1582.5	1635.4	1741.3	1770.3	1753.2	1746.4	1777.1	1809.5	1783.9	1707.1	1662.7
55°	1567.1	1625.2	1746.4	1770.3	1751.5	1739.5	1770.3	1799.3	1785.6	1696.9	1654.2
57.5°	1575.7	1633.7	1739.5	1751.5	1729.3	1708.8	1744.7	1785.6	1780.5	1700.3	1657.6
60°	1562.0	1614.9	1702.0	1705.4	1667.8	1635.4	1688.3	1749.8	1749.8	1688.3	1650.8
62.5°	1498.8	1551.8	1628.6	1632.0	1589.3	1553.5	1614.9	1688.3	1686.6	1637.1	1597.9
65°	1394.7	1444.2	1531.3	1539.8	1497.1	1459.6	1522.7	1591.0	1596.1	1551.8	1517.6
67.5°	1280.3	1324.7	1389.6	1423.7	1387.9	1348.6	1406.7	1471.5	1469.8	1416.9	1381.1
70°	1143.8	1184.7	1244.5	1273.5	1251.3	1213.8	1266.7	1300.8	1285.5	1259.8	1235.9
72.5°	1008.9	1048.2	1104.5	1104.5	1080.6	1044.8	1060.1	1121.6	1140.4	1121.6	1106.2
75°	867.2	901.4	940.6	949.2	896.2	831.4	903.1	956.0	978.2	969.6	950.9
77.5°	722.1	747.7	805.8	790.4	691.4	657.2	715.3	793.8	809.2	804.0	778.4
80°	556.5	571.9	633.3	602.6	525.8	503.6	529.2	590.7	594.1	577.0	544.6
82.5°	373.9	394.3	435.3	375.6	373.9	353.4	332.9	339.7	370.4	367.0	344.8
85°	191.2	201.4	240.7	225.3	192.9	167.3	158.8	169.0	151.9	138.3	119.5
87.5°	80.2	87.1	119.5	66.6	20.5	0.0	0.0	10.2	15.4	22.2	23.9
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°	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6
2.5°	2545.3	2564.1	2610.2	2668.2	2724.6	2782.6	2845.8	2885.0	2932.8	2994.3	2996.0
5°	2367.8	2410.4	2477.0	2565.8	2658.0	2763.8	2886.7	2989.2	3112.1	3209.4	3248.6
7.5°	2258.5	2320.0	2403.6	2516.3	2637.5	2768.9	2929.4	3101.8	3303.3	3433.0	3509.8
10°	2268.8	2362.6	2446.3	2541.9	2651.1	2792.8	2999.4	3228.1	3475.7	3646.4	3742.0
12.5°	2451.4	2550.4	2535.1	2529.9	2603.3	2775.8	3055.7	3356.2	3658.3	3829.1	3943.4
15°	2681.9	2719.4	2574.3	2465.1	2509.5	2714.3	3086.5	3470.6	3810.3	4018.5	4131.2
17.5°	2799.7	2724.6	2548.7	2384.8	2372.9	2620.4	3101.8	3586.6	3981.0	4189.3	4308.8
20°	2745.0	2635.8	2487.3	2331.9	2246.6	2492.4	3093.3	3678.8	4136.3	4368.5	4465.8
22.5°	2627.2	2531.6	2415.6	2267.0	2144.1	2352.4	3071.1	3771.0	4274.6	4508.5	4593.8
25°	2499.2	2427.5	2331.9	2202.2	2086.1	2229.5	3055.7	3893.9	4433.4	4657.0	4711.6
27.5°	2371.2	2318.3	2239.7	2139.0	2072.4	2144.1	3060.9	4054.4	4638.2	4849.9	4827.7
30°	2244.9	2198.8	2144.1	2099.7	2070.7	2123.6	3047.2	4225.1	4863.6	5059.9	4928.4
32.5°	2125.4	2082.7	2048.5	2055.4	2072.4	2132.2	2977.2	4380.4	5070.1	5237.4	5037.7
35°	2022.9	1978.5	1978.5	2002.4	2065.6	2103.2	2796.2	4501.7	5298.9	5466.2	5193.0
37.5°	1927.3	1888.1	1913.7	1952.9	2012.7	2024.6	2564.1	4619.4	5631.8	5788.8	5433.7
40°	1843.7	1804.4	1850.5	1900.0	1930.7	1925.6	2328.5	4783.3	6024.4	6186.6	5753.0
42.5°	1777.1	1741.3	1782.2	1845.4	1850.5	1855.6	2156.1	4940.4	6480.2	6686.8	6302.7
45°	1722.5	1696.9	1717.4	1780.5	1780.5	1859.0	2048.5	5071.8	7166.5	7531.8	7311.6
47.5°	1679.8	1664.4	1674.7	1695.2	1729.3	1920.5	1980.2	5172.5	8416.1	9133.0	8911.1
50°	1655.9	1640.5	1654.2	1611.5	1713.9	1951.2	1958.1	5249.4	10063.4	11186.7	10911.9
52.5°	1635.4	1630.3	1638.8	1539.8	1748.1	1930.7	1941.0	5146.9	11167.9	13207.9	13479.4
55°	1628.6	1632.0	1591.0	1486.9	1789.1	1862.5	1889.8	4414.6	11468.4	14950.9	16635.8
57.5°	1632.0	1621.8	1517.6	1492.0	1790.8	1725.9	1963.2	3149.6	11031.4	15708.8	19724.0
60°	1620.0	1568.8	1428.9	1538.1	1712.2	1565.4	1910.3	2053.7	9879.1	15126.7	19903.2
62.5°	1567.1	1492.0	1352.0	1563.7	1572.3	1469.8	1734.4	1582.5	8342.7	13880.5	18175.6
65°	1490.3	1389.6	1287.2	1510.8	1430.6	1425.4	1304.2	1268.4	6708.9	12397.0	16536.8
67.5°	1364.0	1263.3	1239.4	1389.6	1287.2	1263.3	1048.2	1051.6	5353.5	10816.3	14889.4
70°	1220.6	1119.9	1138.6	1256.4	1145.5	1049.9	848.4	875.7	4061.2	9011.8	12668.5
72.5°	1126.7	991.8	993.5	1106.2	1007.2	850.1	698.2	722.1	2577.7	6792.6	10072.0
75°	950.9	874.0	836.5	896.2	855.3	662.4	587.2	582.1	1527.9	4868.7	7542.0
77.5°	793.8	734.1	715.3	739.2	638.5	489.9	472.9	464.3	865.5	3118.9	4942.1
80°	575.3	559.9	558.2	570.2	491.6	360.2	360.2	361.9	466.0	1693.5	2786.0
82.5°	365.3	399.5	353.4	392.6	334.6	256.1	239.0	271.4	268.0	722.1	1174.5
85°	151.9	208.3	194.6	206.6	158.8	140.0	150.2	162.2	155.3	278.3	457.5
87.5°	29.0	34.1	37.6	35.8	35.8	44.4	49.5	59.7	59.7	80.2	138.3
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°	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6	2782.6
2.5°	3060.9	3110.4	3100.1	3122.3	3093.3	3103.5	3045.5	3030.1	3019.9	3023.3
5°	3375.0	3475.7	3494.5	3532.0	3506.4	3506.4	3404.0	3327.2	3299.8	3279.4
7.5°	3694.2	3839.3	3934.9	3945.1	3931.5	3904.2	3755.6	3617.4	3567.9	3525.2
10°	3977.6	4151.7	4259.2	4310.5	4284.9	4242.2	4057.8	3868.3	3808.6	3771.0
12.5°	4194.4	4348.0	4419.7	4453.9	4450.4	4435.1	4284.9	4080.0	4016.8	3958.8
15°	4334.4	4411.2	4383.9	4382.2	4406.1	4467.5	4421.4	4261.0	4187.5	4134.6
17.5°	4424.8	4351.4	4230.2	4173.9	4225.1	4370.2	4476.0	4385.6	4319.0	4261.0
20°	4457.3	4196.1	4020.2	3916.1	3975.9	4185.8	4447.0	4476.0	4419.7	4371.9
22.5°	4419.7	4006.6	3767.6	3644.7	3702.7	3953.7	4361.7	4549.5	4511.9	4465.8
25°	4327.5	3808.6	3521.8	3410.8	3474.0	3730.0	4209.7	4617.7	4619.4	4581.9
27.5°	4213.2	3625.9	3349.4	3245.2	3306.7	3545.7	4061.2	4677.5	4737.2	4723.6
30°	4097.1	3516.7	3267.4	3194.0	3240.1	3451.8	3909.3	4738.9	4858.4	4882.3
32.5°	4044.1	3569.6	3460.3	3492.8	3433.0	3506.4	3854.7	4826.0	5005.3	5044.5
35°	4114.1	4039.0	4315.6	4443.6	4231.9	3953.7	3924.7	4957.5	5211.8	5269.9
37.5°	4453.9	5044.5	5457.6	5908.3	5541.3	4928.4	4271.2	5181.1	5507.1	5599.3
40°	5193.0	5922.0	6668.0	7250.1	6695.3	5870.8	4930.1	5514.0	5913.4	5997.1
42.5°	5889.5	6744.8	7772.5	8525.3	7804.9	6640.7	5640.3	6073.9	6449.5	6495.6
45°	6572.4	7552.3	9109.1	10155.6	9177.4	7373.0	6365.8	7019.6	7303.0	7304.7
47.5°	7373.0	8462.2	10785.5	12275.8	10998.9	8183.9	7047.0	8516.8	8911.1	8718.2
50°	8330.7	9366.9	12511.4	14742.6	13219.9	9180.8	7912.5	10341.7	10879.4	10660.9
52.5°	9612.7	10363.9	14413.1	17147.9	15640.6	10316.1	9167.2	12752.1	12929.7	12521.7
55°	11417.2	11803.0	16854.3	20118.3	18342.9	11714.2	11002.3	15777.1	15280.4	14111.0
57.5°	15526.2	14080.3	19988.6	23506.9	21400.4	14254.4	15024.3	19112.8	17346.0	15374.3
60°	18964.3	16845.8	22889.0	26869.9	24020.8	17054.0	18800.4	19693.2	17269.1	15234.3
62.5°	17805.2	17550.8	23935.4	27240.4	24915.3	18431.7	18098.8	18230.2	16142.5	14303.9
65°	15621.8	16190.2	23001.6	25483.8	23923.5	17197.4	16371.2	16878.2	14853.6	13001.4
67.5°	14332.9	14751.2	21340.6	22672.2	22120.8	15862.5	15027.7	14660.7	12852.8	11278.9
70°	13015.0	13361.6	19008.7	19143.6	19309.1	13643.2	12287.8	11195.2	9580.3	8479.2
72.5°	11246.5	11265.2	16060.5	15278.7	15592.8	10676.3	9891.0	8370.0	6973.6	5974.9
75°	9435.2	8919.7	12712.9	10679.7	11309.6	8305.1	8212.9	6307.8	5259.6	4440.2
77.5°	7193.8	6591.2	9286.7	7023.1	7943.2	5531.0	6174.6	4278.0	3701.0	2955.0
80°	4829.4	4453.9	5131.6	3963.9	5196.4	3812.0	4027.1	2424.1	2101.5	1630.3
82.5°	2547.0	2174.9	3171.8	2350.7	3134.3	2094.6	1510.8	749.4	638.5	515.5
85°	986.7	1142.1	1555.2	836.5	1215.5	747.7	437.0	186.1	155.3	117.8
87.5°	191.2	295.3	162.2	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)