

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: P638537

Luminaire Tested: GWS-SA4F-722-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638537
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-SA4F-722-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23489.4 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

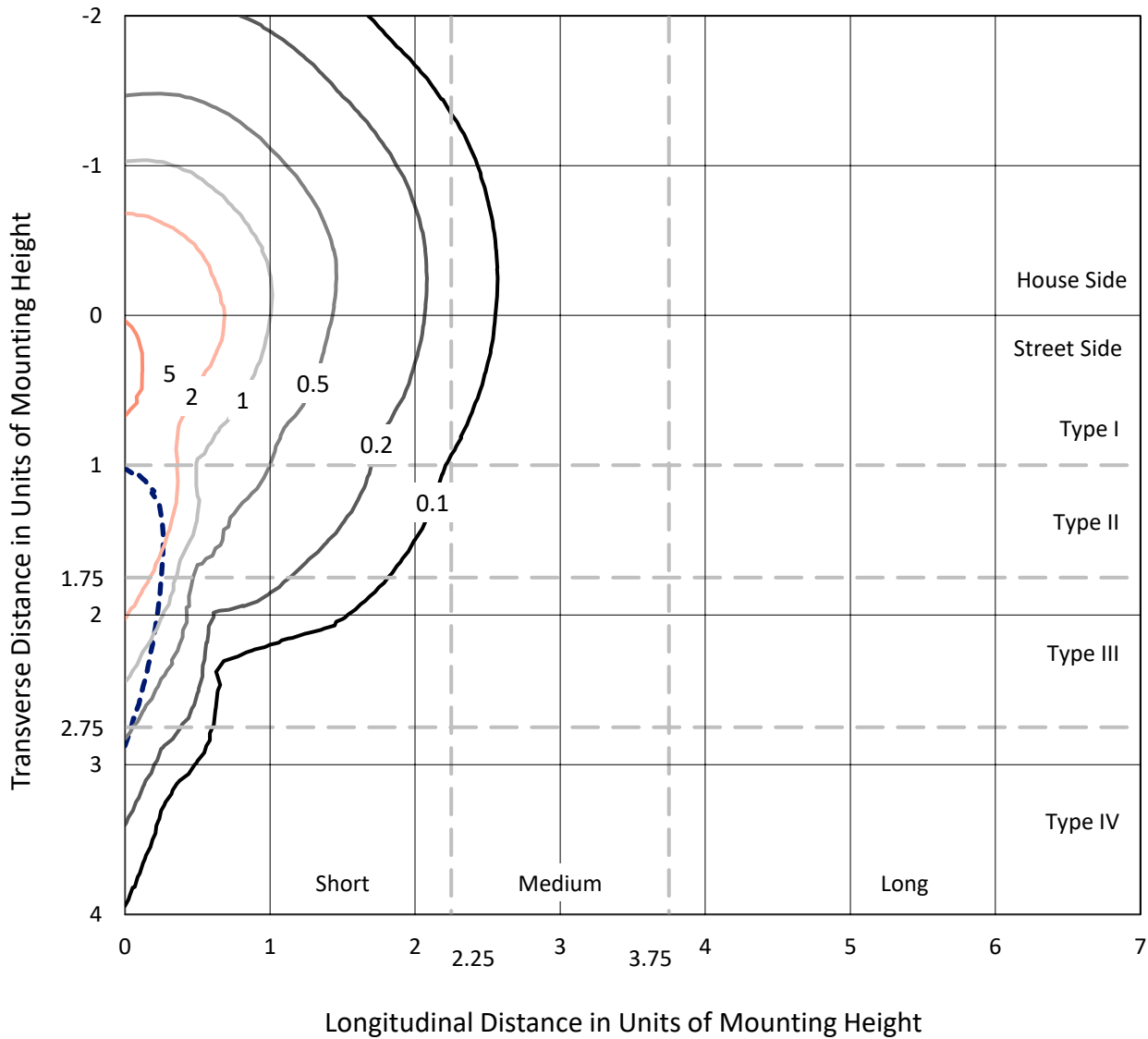
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

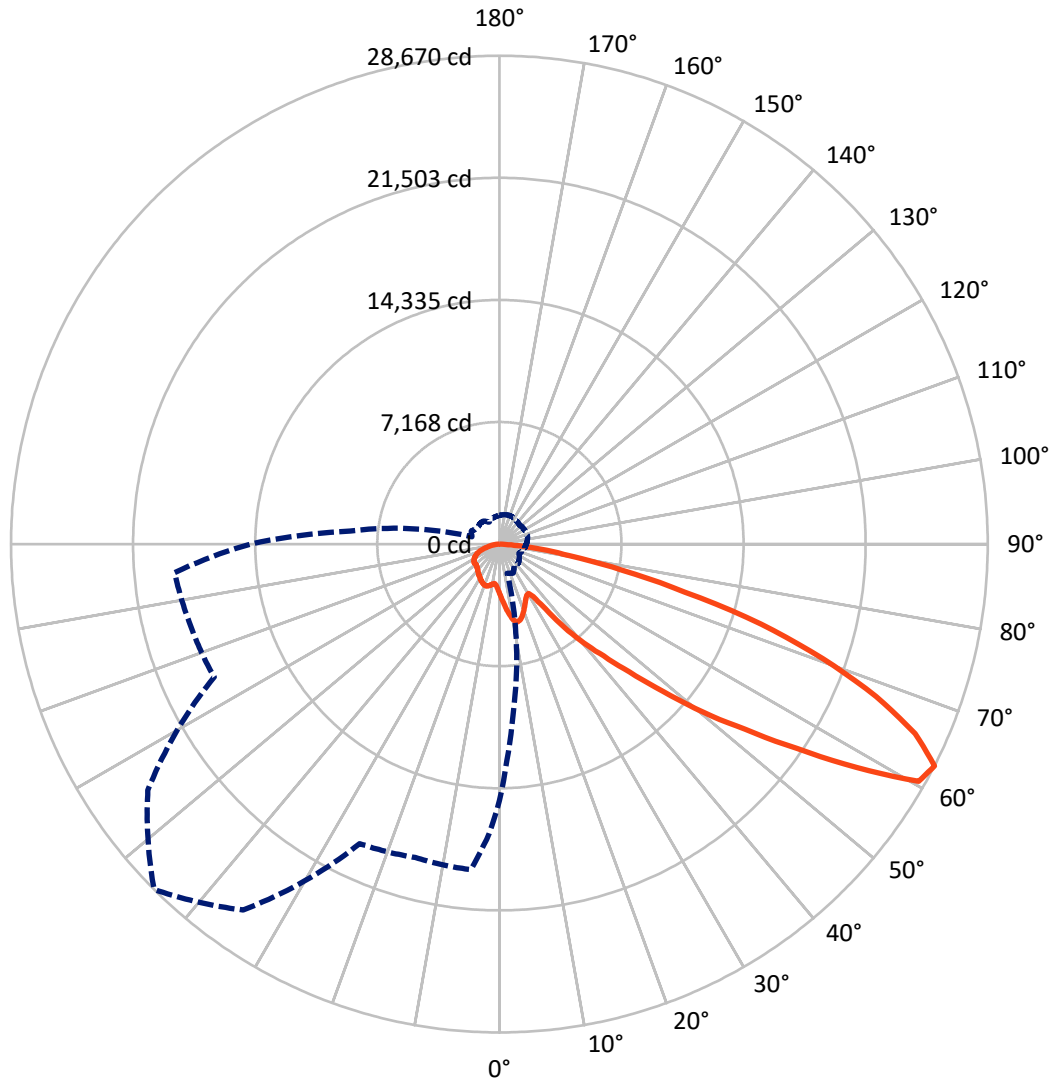
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	5616.3	0.0	5616.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	17873.1	0.0	17873.1
	% Fixture	76.1	0.0	76.1
Total	Lumens	23489.4	0.0	23489.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.5	1.2
10°-20°	937.7	4.0
20°-30°	1476.1	6.3
30°-40°	2023.3	8.6
40°-50°	3157.0	13.4
50°-60°	5443.2	23.2
60°-70°	6308.0	26.9
70°-80°	3329.7	14.2
80°-90°	526.0	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°	23489.4	100.0
0°-180°	23489.4	100.0

Coefficient of Utilization



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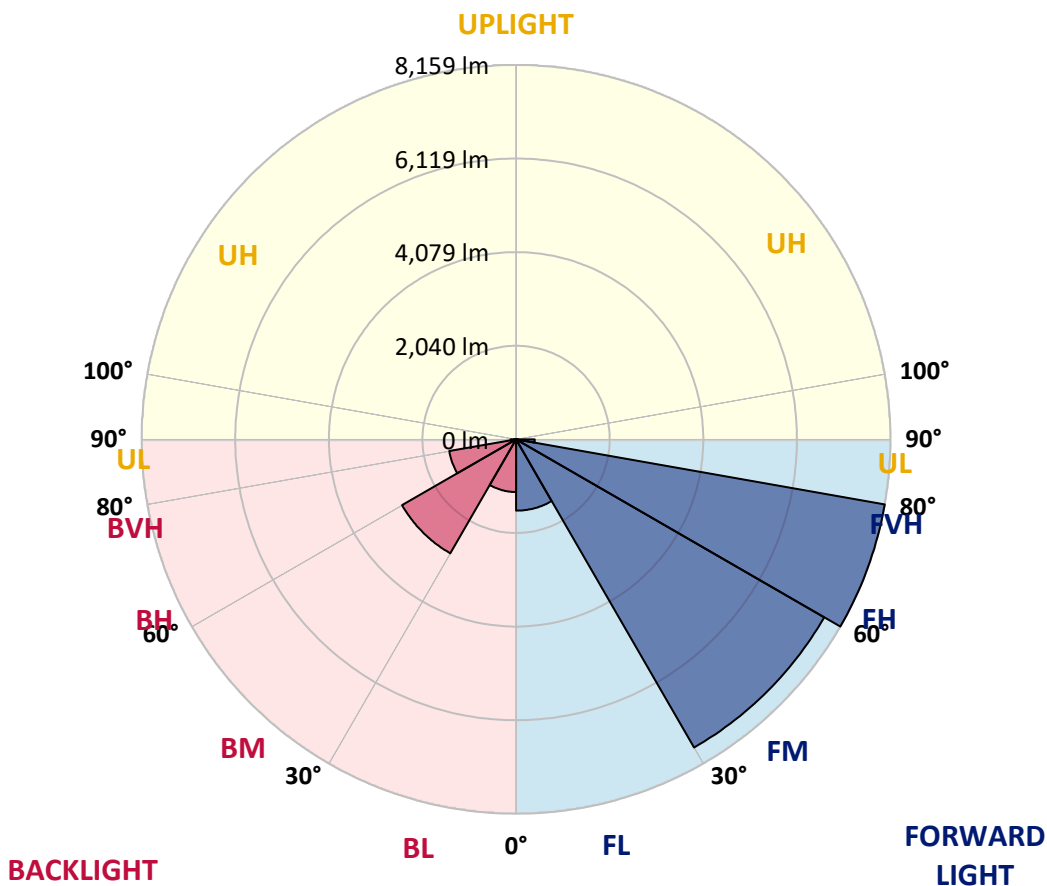
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.5	6.6			
FM (30°-60°)	7754.7	33.0			
FH (60°-80°)	8158.9	34.7			G4/12000
FVH (80°-90°)	406.0	1.7			G3/500
BL (0°-30°)	1148.7	4.9	B3/2500		
BM (30°-60°)	2868.8	12.2	B3/5000		
BH (60°-80°)	1478.8	6.3	B3/2500		G3/2500
BVH (80°-90°)	120.0	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°	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6
2.5°	3182.0	3169.4	3151.4	3090.3	3052.6	3009.5	2964.6	2912.5	2853.2	2811.9	2770.5
5°	3451.5	3431.7	3388.6	3243.1	3142.5	3032.9	2941.2	2837.0	2734.6	2664.5	2594.5
7.5°	3710.2	3685.1	3618.6	3395.8	3232.3	3074.2	2935.8	2784.9	2632.2	2528.0	2445.3
10°	3968.9	3916.8	3832.4	3541.3	3325.7	3142.5	2984.3	2799.3	2596.2	2454.3	2366.3
12.5°	4166.6	4118.1	4026.4	3674.3	3419.1	3189.2	3011.3	2840.6	2668.1	2517.2	2427.4
15°	4351.6	4288.8	4184.5	3798.3	3496.4	3187.4	2957.4	2808.3	2783.1	2745.4	2628.6
17.5°	4484.6	4427.1	4319.3	3898.9	3539.5	3131.7	2808.3	2720.2	2833.4	2948.4	2837.0
20°	4601.4	4534.9	4425.3	3968.9	3548.5	3007.7	2626.8	2628.6	2806.5	2964.6	2937.6
22.5°	4700.2	4626.5	4529.5	4048.0	3544.9	2835.2	2468.7	2576.5	2754.4	2878.3	2881.9
25°	4822.4	4761.3	4680.4	4164.8	3544.9	2659.1	2353.7	2513.6	2666.3	2770.5	2766.9
27.5°	4971.5	4930.2	4863.7	4342.7	3577.3	2511.8	2289.0	2432.7	2553.1	2643.0	2641.2
30°	5138.6	5100.9	5050.6	4531.3	3633.0	2402.2	2253.1	2332.1	2420.2	2492.0	2492.0
32.5°	5309.3	5294.9	5241.0	4682.2	3589.8	2368.1	2222.5	2231.5	2278.2	2337.5	2332.1
35°	5546.5	5532.1	5463.8	4799.0	3403.0	2319.6	2174.0	2129.1	2134.5	2172.2	2184.8
37.5°	5893.2	5871.7	5771.0	4935.6	3120.9	2197.4	2095.0	2021.3	2005.1	2021.3	2044.7
40°	6311.9	6279.5	6143.0	5120.6	2795.7	2032.1	1971.0	1909.9	1883.0	1888.3	1915.3
42.5°	6836.5	6768.2	6572.4	5316.5	2474.1	1886.5	1832.6	1794.9	1764.4	1760.8	1812.9
45°	7688.1	7501.3	7190.4	5490.8	2202.8	1809.3	1708.7	1681.7	1656.6	1670.9	1732.0
47.5°	9175.8	8830.8	8225.4	5639.9	2037.5	1811.1	1609.9	1581.1	1579.3	1608.1	1676.3
50°	11220.5	10722.8	9788.5	5740.5	1951.2	1832.6	1550.6	1503.8	1538.0	1566.7	1631.4
52.5°	13178.9	12418.9	11306.7	5738.7	1913.5	1836.2	1566.7	1432.0	1538.0	1545.2	1606.3
55°	14851.6	13475.3	11716.4	5149.4	1859.6	1821.9	1629.6	1376.3	1518.2	1545.2	1593.7
57.5°	16181.2	14147.3	11685.8	4159.4	2023.1	1742.8	1667.3	1363.7	1460.7	1548.8	1604.5
60°	16033.9	13840.1	10933.0	2553.1	2006.9	1602.7	1662.0	1387.1	1363.7	1500.3	1591.9
62.5°	15054.7	12738.7	9637.6	1771.6	1884.8	1521.8	1573.9	1428.4	1273.9	1430.2	1530.8
65°	13683.8	11317.5	8031.3	1358.3	1561.3	1525.4	1424.8	1399.6	1194.8	1318.8	1426.6
67.5°	11870.9	9554.9	6340.6	1076.2	1088.8	1320.6	1293.6	1243.3	1121.1	1220.0	1317.0
70°	8924.3	6973.0	4362.4	866.0	824.7	1103.2	1162.5	1117.6	1049.3	1078.0	1180.4
72.5°	6288.5	4552.9	2389.6	686.3	636.0	848.0	1009.8	1002.6	927.1	948.7	1049.3
75°	4673.2	3221.5	1493.1	542.6	517.5	607.3	846.3	867.8	804.9	830.1	907.3
77.5°	3110.1	2086.0	830.1	402.5	402.5	443.8	630.6	731.3	684.5	704.3	758.2
80°	1715.9	1061.9	415.0	264.1	271.3	305.4	460.0	526.4	528.2	576.7	591.1
82.5°	542.6	337.8	185.1	154.5	145.5	174.3	296.5	377.3	352.2	449.2	413.2
85°	124.0	79.1	34.1	34.1	37.7	57.5	113.2	201.2	256.9	309.0	224.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	79.1	116.8	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°	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6
2.5°	2745.4	2709.4	2698.7	2668.1	2664.5	2635.8	2625.0	2625.0	2637.6	2637.6	2650.2
5°	2565.7	2520.8	2495.6	2459.7	2450.7	2429.2	2414.8	2416.6	2432.7	2443.5	2465.1
7.5°	2407.6	2377.1	2359.1	2342.9	2339.3	2335.7	2319.6	2317.8	2323.1	2339.3	2355.5
10°	2341.1	2319.6	2324.9	2337.5	2357.3	2368.1	2353.7	2346.5	2341.1	2351.9	2366.3
12.5°	2405.8	2384.2	2395.0	2416.6	2443.5	2454.3	2448.9	2447.1	2452.5	2493.8	2524.4
15°	2547.7	2506.4	2492.0	2501.0	2522.6	2533.4	2528.0	2535.2	2569.3	2677.1	2754.4
17.5°	2723.8	2623.2	2565.7	2549.5	2558.5	2567.5	2567.5	2585.5	2644.8	2802.9	2899.9
20°	2819.0	2687.9	2590.9	2551.3	2554.9	2563.9	2563.9	2589.1	2655.5	2824.4	2887.3
22.5°	2793.9	2673.5	2554.9	2511.8	2513.6	2520.8	2520.8	2542.3	2601.6	2750.8	2779.5
25°	2695.1	2589.1	2472.3	2434.5	2438.1	2450.7	2447.1	2459.7	2504.6	2626.8	2643.0
27.5°	2576.5	2483.1	2368.1	2339.3	2355.5	2380.6	2359.1	2360.9	2402.2	2504.6	2506.4
30°	2448.9	2371.7	2269.2	2247.7	2278.2	2290.8	2271.0	2271.0	2312.4	2382.4	2380.6
32.5°	2310.6	2262.1	2188.4	2165.0	2199.2	2218.9	2193.8	2197.4	2229.7	2276.4	2258.5
35°	2181.2	2156.1	2121.9	2105.7	2127.3	2145.3	2129.1	2136.3	2166.8	2179.4	2154.3
37.5°	2057.2	2053.6	2057.2	2057.2	2062.6	2068.0	2057.2	2075.2	2102.2	2086.0	2057.2
40°	1949.4	1963.8	1997.9	1989.0	1983.6	1989.0	1981.8	2012.3	2039.3	2010.5	1976.4
42.5°	1859.6	1886.5	1938.7	1938.7	1927.9	1931.5	1927.9	1965.6	1985.4	1945.8	1908.1
45°	1782.3	1821.9	1888.3	1897.3	1879.4	1879.4	1886.5	1933.3	1940.4	1886.5	1847.0
47.5°	1728.4	1776.9	1852.4	1868.6	1841.6	1839.8	1859.6	1909.9	1909.9	1847.0	1802.1
50°	1690.7	1744.6	1834.4	1856.0	1829.1	1821.9	1854.2	1902.7	1891.9	1816.5	1771.6
52.5°	1665.6	1721.3	1832.6	1863.2	1845.2	1838.0	1870.4	1904.5	1877.6	1796.7	1750.0
55°	1649.4	1710.5	1838.0	1863.2	1843.4	1830.9	1863.2	1893.7	1879.4	1785.9	1741.0
57.5°	1658.4	1719.5	1830.9	1843.4	1820.1	1798.5	1836.2	1879.4	1874.0	1789.5	1744.6
60°	1644.0	1699.7	1791.3	1794.9	1755.4	1721.3	1776.9	1841.6	1841.6	1776.9	1737.4
62.5°	1577.5	1633.2	1714.1	1717.7	1672.7	1635.0	1699.7	1776.9	1775.2	1723.0	1681.7
65°	1467.9	1520.0	1611.7	1620.6	1575.7	1536.2	1602.7	1674.5	1679.9	1633.2	1597.3
67.5°	1347.5	1394.2	1462.5	1498.5	1460.7	1419.4	1480.5	1548.8	1547.0	1491.3	1453.5
70°	1203.8	1246.9	1309.8	1340.3	1317.0	1277.5	1333.2	1369.1	1352.9	1326.0	1300.8
72.5°	1061.9	1103.2	1162.5	1162.5	1137.3	1099.6	1115.8	1180.4	1200.2	1180.4	1164.3
75°	912.7	948.7	990.0	999.0	943.3	875.0	950.5	1006.2	1029.5	1020.5	1000.8
77.5°	760.0	787.0	848.0	831.9	727.7	691.7	752.8	835.5	851.6	846.3	819.3
80°	585.7	601.9	666.6	634.2	553.4	530.0	557.0	621.7	625.3	607.3	573.2
82.5°	393.5	415.0	458.2	395.3	393.5	371.9	350.4	357.5	389.9	386.3	362.9
85°	201.2	212.0	253.3	237.2	203.0	176.1	167.1	177.9	159.9	145.5	125.8
87.5°	84.4	91.6	125.8	70.1	21.6	0.0	0.0	10.8	16.2	23.4	25.2
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°	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6
2.5°	2678.9	2698.7	2747.2	2808.3	2867.6	2928.6	2995.1	3036.4	3086.8	3151.4	3153.2
5°	2492.0	2537.0	2607.0	2700.5	2797.5	2908.9	3038.2	3146.0	3275.4	3377.8	3419.1
7.5°	2377.1	2441.7	2529.8	2648.4	2775.9	2914.3	3083.2	3264.6	3476.6	3613.2	3694.0
10°	2387.8	2486.7	2574.7	2675.3	2790.3	2939.4	3156.8	3397.6	3658.1	3837.8	3938.4
12.5°	2580.1	2684.3	2668.1	2662.7	2740.0	2921.5	3216.1	3532.3	3850.4	4030.0	4150.4
15°	2822.6	2862.2	2709.4	2594.5	2641.2	2856.8	3248.5	3652.7	4010.3	4229.5	4348.0
17.5°	2946.6	2867.6	2682.5	2510.0	2497.4	2758.0	3264.6	3774.9	4189.9	4409.1	4534.9
20°	2889.1	2774.1	2617.8	2454.3	2364.5	2623.2	3255.6	3871.9	4353.4	4597.8	4700.2
22.5°	2765.1	2664.5	2542.3	2386.0	2256.7	2475.9	3232.3	3968.9	4499.0	4745.1	4835.0
25°	2630.4	2554.9	2454.3	2317.8	2195.6	2346.5	3216.1	4098.3	4666.1	4901.4	4958.9
27.5°	2495.6	2439.9	2357.3	2251.3	2181.2	2256.7	3221.5	4267.2	4881.7	5104.5	5081.1
30°	2362.7	2314.2	2256.7	2210.0	2179.4	2235.1	3207.1	4446.9	5118.8	5325.5	5187.1
32.5°	2236.9	2192.0	2156.1	2163.2	2181.2	2244.1	3133.5	4610.4	5336.2	5512.3	5302.1
35°	2129.1	2082.4	2082.4	2107.5	2174.0	2213.6	2943.0	4737.9	5577.0	5753.1	5465.6
37.5°	2028.5	1987.2	2014.1	2055.4	2118.3	2130.9	2698.7	4861.9	5927.4	6092.7	5718.9
40°	1940.4	1899.1	1947.6	1999.7	2032.1	2026.7	2450.7	5034.4	6340.6	6511.3	6054.9
42.5°	1870.4	1832.6	1875.8	1942.2	1947.6	1953.0	2269.2	5199.7	6820.3	7037.7	6633.5
45°	1812.9	1785.9	1807.5	1874.0	1874.0	1956.6	2156.1	5338.0	7542.6	7927.1	7695.3
47.5°	1768.0	1751.8	1762.6	1784.1	1820.1	2021.3	2084.2	5444.0	8857.8	9612.4	9378.8
50°	1742.8	1726.6	1741.0	1696.1	1803.9	2053.6	2060.8	5524.9	10591.6	11773.9	11484.6
52.5°	1721.3	1715.9	1724.8	1620.6	1839.8	2032.1	2042.9	5417.1	11754.1	13901.2	14186.8
55°	1714.1	1717.7	1674.5	1564.9	1883.0	1960.2	1989.0	4646.3	12070.3	15735.6	17509.0
57.5°	1717.7	1706.9	1597.3	1570.3	1884.8	1816.5	2066.2	3314.9	11610.4	16533.4	20759.2
60°	1705.1	1651.2	1503.8	1618.8	1802.1	1647.6	2010.5	2161.4	10397.6	15920.7	20947.9
62.5°	1649.4	1570.3	1423.0	1645.8	1654.8	1547.0	1825.5	1665.6	8780.5	14609.1	19129.6
65°	1568.5	1462.5	1354.7	1590.1	1505.6	1500.3	1372.7	1335.0	7061.1	13047.7	17404.8
67.5°	1435.6	1329.6	1304.4	1462.5	1354.7	1329.6	1103.2	1106.8	5634.5	11384.0	15670.9
70°	1284.6	1178.6	1198.4	1322.4	1205.6	1105.0	893.0	921.7	4274.4	9484.8	13333.4
72.5°	1185.8	1043.9	1045.7	1164.3	1060.1	894.8	734.9	760.0	2713.0	7149.1	10600.6
75°	1000.8	919.9	880.4	943.3	900.2	697.1	618.1	612.7	1608.1	5124.2	7937.9
77.5°	835.5	772.6	752.8	778.0	672.0	515.7	497.7	488.7	910.9	3282.6	5201.5
80°	605.5	589.3	587.5	600.1	517.5	379.1	379.1	380.9	490.5	1782.3	2932.2
82.5°	384.5	420.4	371.9	413.2	352.2	269.5	251.5	285.7	282.1	760.0	1236.1
85°	159.9	219.2	204.8	217.4	167.1	147.3	158.1	170.7	163.5	292.9	481.5
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°	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6	2928.6
2.5°	3221.5	3273.6	3262.8	3286.2	3255.6	3266.4	3205.3	3189.2	3178.4	3182.0
5°	3552.1	3658.1	3677.9	3717.4	3690.4	3690.4	3582.6	3501.8	3473.0	3451.5
7.5°	3888.1	4040.8	4141.4	4152.2	4137.8	4109.1	3952.8	3807.2	3755.1	3710.2
10°	4186.3	4369.6	4482.8	4536.7	4509.7	4464.8	4270.8	4071.4	4008.5	3968.9
12.5°	4414.5	4576.2	4651.7	4687.6	4684.0	4667.9	4509.7	4294.1	4227.7	4166.6
15°	4561.9	4642.7	4614.0	4612.2	4637.3	4702.0	4653.5	4484.6	4407.3	4351.6
17.5°	4657.1	4579.8	4452.3	4393.0	4446.9	4599.6	4711.0	4615.8	4545.7	4484.6
20°	4691.2	4416.3	4231.3	4121.7	4184.5	4405.5	4680.4	4711.0	4651.7	4601.4
22.5°	4651.7	4216.9	3965.3	3836.0	3897.1	4161.2	4590.6	4788.2	4748.7	4700.2
25°	4554.7	4008.5	3706.6	3589.8	3656.3	3925.8	4430.7	4860.1	4861.9	4822.4
27.5°	4434.3	3816.2	3525.2	3415.6	3480.2	3731.8	4274.4	4923.0	4985.9	4971.5
30°	4312.1	3701.2	3438.9	3361.6	3410.2	3633.0	4114.5	4987.7	5113.4	5138.6
32.5°	4256.4	3756.9	3641.9	3676.1	3613.2	3690.4	4057.0	5079.3	5268.0	5309.3
35°	4330.1	4251.0	4542.1	4676.8	4454.1	4161.2	4130.6	5217.7	5485.4	5546.5
37.5°	4687.6	5309.3	5744.1	6218.4	5832.1	5187.1	4495.4	5453.0	5796.2	5893.2
40°	5465.6	6232.8	7018.0	7630.6	7046.7	6178.9	5188.9	5803.4	6223.8	6311.9
42.5°	6198.7	7098.8	8180.4	8972.8	8214.6	6989.2	5936.3	6392.7	6788.0	6836.5
45°	6917.3	7948.7	9587.3	10688.6	9659.1	7760.0	6699.9	7388.1	7686.3	7688.1
47.5°	7760.0	8906.3	11351.6	12920.2	11576.2	8613.4	7416.8	8963.8	9378.8	9175.8
50°	8768.0	9858.6	13168.1	15516.4	13913.7	9662.7	8327.8	10884.5	11450.5	11220.5
52.5°	10117.3	10907.8	15169.6	18048.0	16461.5	10857.5	9648.3	13421.4	13608.3	13178.9
55°	12016.4	12422.5	17738.9	21174.3	19305.7	12329.0	11579.8	16605.2	16082.4	14851.6
57.5°	16341.1	14819.3	21037.7	24740.7	22523.6	15002.6	15812.9	20116.0	18256.4	16181.2
60°	19959.7	17730.0	24090.3	28280.3	25281.5	17949.2	19787.2	20726.9	18175.5	16033.9
62.5°	18739.7	18472.0	25191.7	28670.1	26223.0	19399.1	19048.7	19187.1	16989.7	15054.7
65°	16441.7	17040.0	24208.9	26821.3	25179.1	18100.1	17230.5	17764.1	15633.2	13683.8
67.5°	15085.2	15525.4	22460.7	23862.1	23281.8	16695.1	15816.5	15430.2	13527.5	11870.9
70°	13698.1	14062.9	20006.4	20148.3	20322.6	14359.3	12932.7	11782.8	10083.2	8924.3
72.5°	11836.7	11856.5	16903.5	16080.6	16411.2	11236.6	10410.2	8809.3	7339.6	6288.5
75°	9930.4	9387.8	13380.1	11240.2	11903.2	8741.0	8644.0	6638.9	5535.7	4673.2
77.5°	7571.3	6937.1	9774.1	7391.7	8360.1	5821.3	6498.7	4502.6	3895.3	3110.1
80°	5082.9	4687.6	5400.9	4172.0	5469.2	4012.1	4238.4	2551.3	2211.8	1715.9
82.5°	2680.7	2289.0	3338.3	2474.1	3298.8	2204.6	1590.1	788.8	672.0	542.6
85°	1038.5	1202.0	1636.8	880.4	1279.3	787.0	460.0	195.8	163.5	124.0
87.5°	201.2	310.8	170.7	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)