

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: P637054

Luminaire Tested: GWS-SA4C-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11187.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

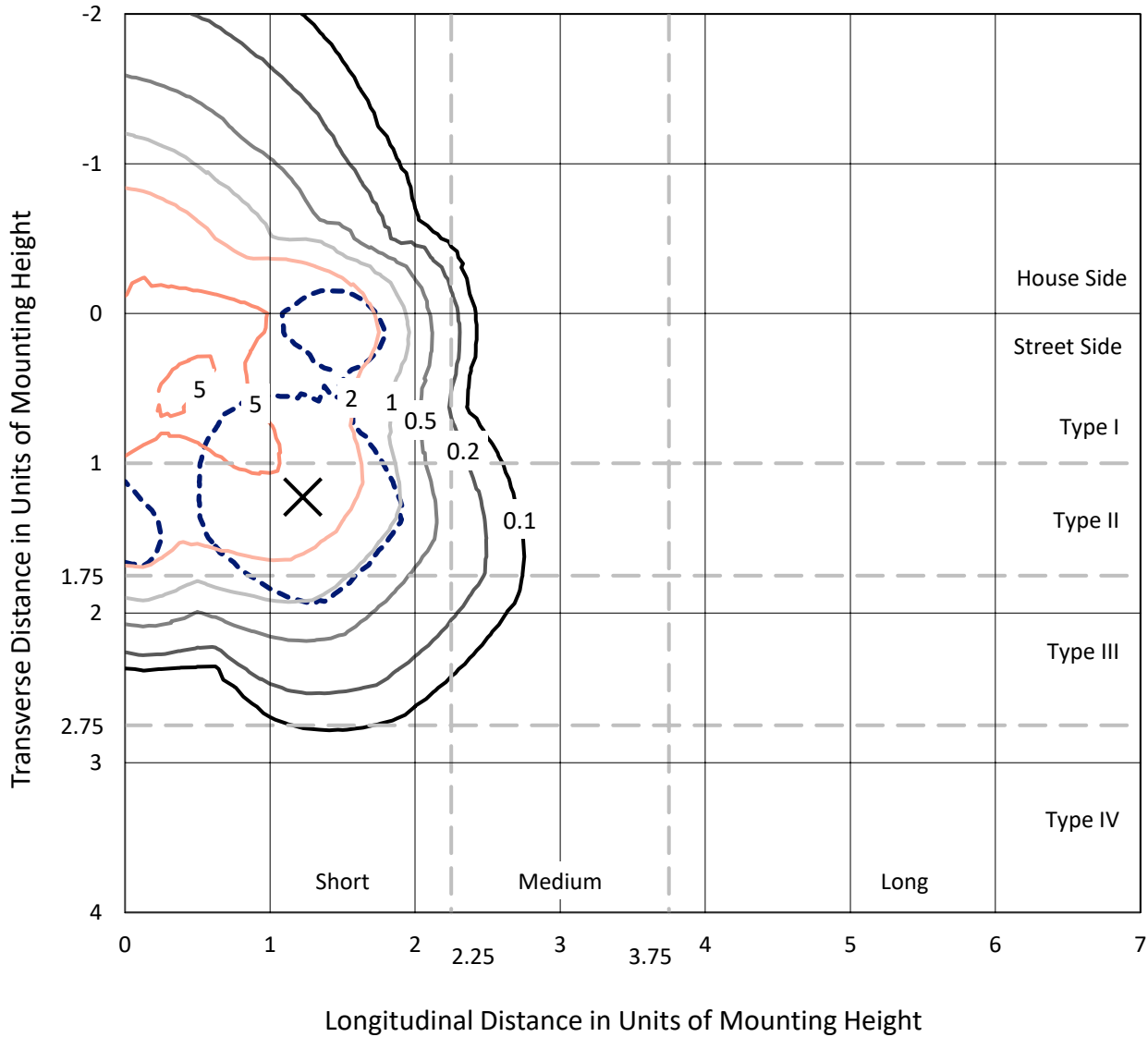
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

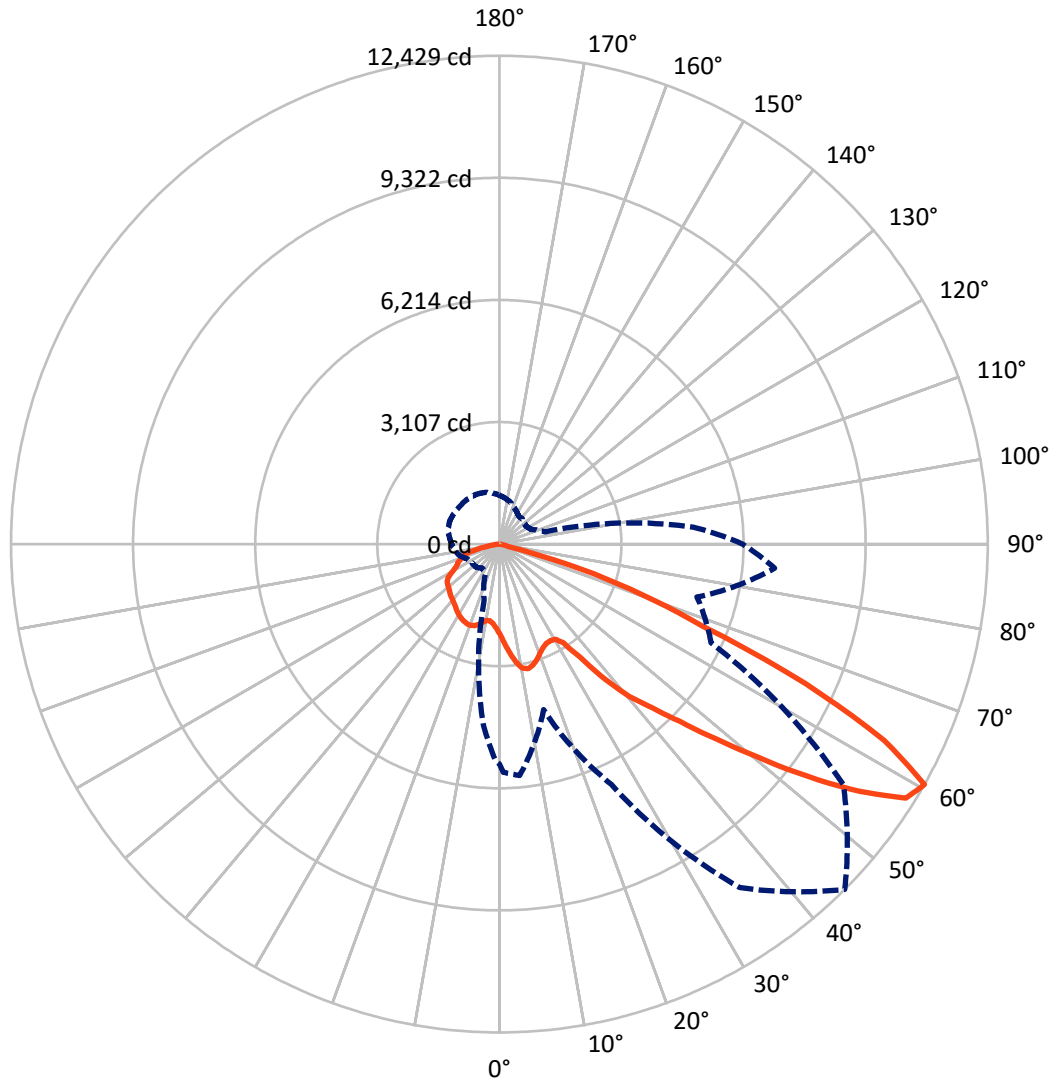
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3921.5	0.0	3921.5
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	7265.6	0.0	7265.6
	% Fixture	64.9	0.0	64.9
Total	Lumens	11187.1	0.0	11187.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	2.0
10°-20°	708.5	6.3
20°-30°	1151.0	10.3
30°-40°	1623.2	14.5
40°-50°	2243.2	20.1
50°-60°	2887.7	25.8
60°-70°	1829.7	16.4
70°-80°	469.5	4.2
80°-90°	50.2	0.4
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°	11187.1	100.0
0°-180°	11187.1	100.0

Coefficient of Utilization



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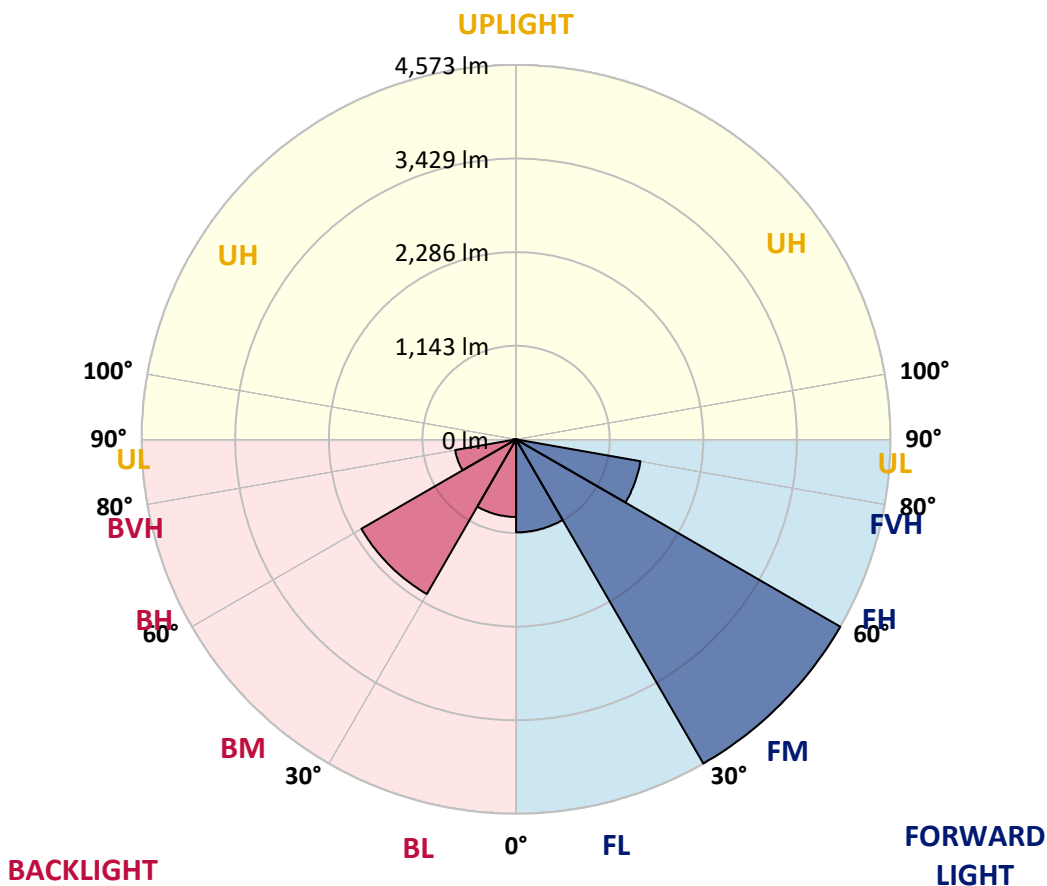
CATALOG NUMBER: GWS-SA4C-722-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.9	10.2			
FM (30°-60°)	4572.6	40.9			
FH (60°-80°)	1543.4	13.8			G1/1800
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	947.8	8.5	B2/1000		
BM (30°-60°)	2181.4	19.5	B2/2500		
BH (60°-80°)	755.7	6.8	B2/1000		G2/1000
BVH (80°-90°)	36.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2
2.5°	2403.7	2420.1	2430.4	2449.9	2484.7	2504.2	2525.7	2502.1	2508.3	2505.2	2467.3
5°	2546.2	2565.7	2592.3	2649.7	2714.3	2750.2	2784.0	2778.9	2747.1	2693.8	2655.9
7.5°	2679.5	2702.0	2748.2	2841.4	2936.8	2992.1	3033.1	3006.5	2979.8	2895.8	2800.4
10°	2784.0	2797.4	2859.9	2984.9	3095.6	3158.2	3208.4	3202.3	3165.3	3071.0	2942.9
12.5°	2882.4	2891.7	2959.3	3084.4	3183.8	3211.5	3252.5	3265.8	3253.5	3182.8	3056.7
15°	2988.0	3005.4	3068.0	3163.3	3208.4	3179.7	3194.1	3231.0	3265.8	3265.8	3150.0
17.5°	3086.4	3101.8	3165.3	3206.4	3163.3	3087.4	3091.5	3138.7	3221.7	3308.9	3235.1
20°	3173.5	3187.9	3250.4	3211.5	3075.1	2964.4	2961.4	3018.8	3153.0	3336.5	3326.3
22.5°	3268.9	3289.4	3341.7	3215.6	2993.1	2852.7	2851.7	2911.1	3092.6	3364.2	3430.8
25°	3404.2	3436.0	3462.6	3251.5	2949.1	2779.9	2793.3	2849.6	3073.1	3409.3	3585.6
27.5°	3605.1	3630.7	3628.7	3326.3	2947.0	2750.2	2777.9	2843.5	3107.9	3489.3	3748.6
30°	3822.4	3835.7	3814.2	3430.8	2994.2	2768.7	2809.7	2887.6	3196.1	3621.5	3988.5
32.5°	4063.3	4079.7	4038.7	3587.7	3103.8	2905.0	2995.2	3033.1	3320.1	3812.2	4242.7
35°	4340.1	4371.8	4286.8	3794.7	3426.7	3402.1	3533.3	3484.1	3583.6	4037.7	4514.3
37.5°	4631.2	4632.2	4510.2	4101.2	4060.2	4102.2	4364.7	4210.9	4142.2	4288.8	4791.1
40°	4878.2	4872.1	4684.5	4514.3	4611.7	4778.8	5095.5	4859.8	4679.3	4626.0	5020.7
42.5°	5125.2	5102.7	4913.1	4776.7	4992.0	5335.4	5693.1	5404.1	5023.8	4932.5	5247.2
45°	5441.0	5433.8	5205.2	4881.3	5335.4	5958.6	6433.2	5964.8	5227.7	5110.9	5624.4
47.5°	5950.4	5915.6	5490.2	4873.1	5657.2	6788.9	7388.5	6671.0	5370.2	5115.0	6233.3
50°	6448.6	6405.5	5830.5	4872.1	5989.4	7649.9	8516.1	7529.0	5515.8	5139.6	6852.4
52.5°	6951.9	6951.9	6389.1	4987.9	6337.9	8611.4	9818.9	8598.1	5763.8	5461.5	7614.1
55°	7251.2	7331.1	7017.5	5183.7	6745.8	9743.1	11107.4	9752.3	6147.2	6042.7	8317.2
57.5°	6870.9	7020.6	6975.5	5047.3	6986.7	10574.4	12200.1	10627.7	6336.8	6111.3	8211.7
60°	5598.8	5806.9	5910.4	4358.5	6748.9	10670.8	12428.7	10685.1	5945.3	5204.2	7033.9
62.5°	3722.0	3893.1	4051.0	3114.1	5842.8	9599.6	10992.6	9602.7	4965.3	3883.9	4873.1
65°	1825.6	1952.7	2122.9	1841.0	4564.5	8021.0	8570.4	7759.6	3591.8	2174.1	2485.7
67.5°	477.7	513.5	537.1	714.5	3269.9	5762.8	5589.6	5675.7	2307.4	710.4	649.9
70°	248.1	250.1	249.1	295.2	2210.0	3662.5	3852.1	3564.1	1610.4	297.3	256.3
72.5°	177.3	178.4	175.3	198.9	1067.1	2098.3	2174.1	2150.6	843.6	176.3	175.3
75°	115.8	116.9	114.8	116.9	160.9	238.8	220.4	231.7	140.4	111.7	111.7
77.5°	68.7	69.7	68.7	70.7	68.7	68.7	63.6	63.6	60.5	60.5	61.5
80°	46.1	46.1	45.1	47.2	43.1	43.1	41.0	40.0	36.9	35.9	35.9
82.5°	27.7	28.7	27.7	27.7	25.6	25.6	23.6	22.6	19.5	19.5	18.5
85°	14.4	14.4	13.3	13.3	11.3	10.3	8.2	8.2	6.2	5.1	5.1
87.5°	2.1	2.1	1.0	1.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2
2.5°	2457.0	2436.5	2405.8	2376.1	2348.4	2319.7	2286.9	2253.1	2224.4	2194.6	2179.3
5°	2605.7	2563.6	2483.7	2413.0	2349.4	2297.1	2240.8	2192.6	2147.5	2110.6	2092.1
7.5°	2740.0	2674.4	2553.4	2441.7	2355.6	2283.8	2205.9	2134.2	2073.7	2028.6	2011.1
10°	2864.0	2786.1	2627.2	2485.7	2385.3	2305.3	2210.0	2112.6	2032.7	1973.2	1958.9
12.5°	2964.4	2875.3	2685.6	2521.6	2402.7	2316.6	2232.6	2148.5	2069.6	1992.7	1980.4
15°	3053.6	2948.0	2729.7	2544.2	2396.6	2286.9	2216.2	2205.9	2205.9	2118.8	2094.2
17.5°	3130.5	3014.7	2765.6	2554.4	2357.6	2198.7	2155.7	2244.9	2345.3	2282.8	2227.4
20°	3218.7	3078.2	2795.3	2554.4	2285.9	2087.0	2082.9	2234.6	2383.2	2384.3	2325.8
22.5°	3307.8	3152.0	2830.2	2545.2	2187.5	1957.8	2033.7	2193.6	2325.8	2382.2	2342.2
25°	3452.4	3254.5	2885.5	2538.0	2072.6	1869.7	1989.6	2139.3	2251.0	2310.5	2284.8
27.5°	3635.8	3389.8	2969.6	2549.3	1958.9	1817.4	1942.5	2068.5	2170.0	2222.3	2203.9
30°	3840.9	3545.6	3059.8	2568.8	1876.9	1790.8	1886.1	1987.6	2077.8	2130.1	2121.8
32.5°	4102.2	3714.8	3137.7	2542.1	1830.7	1777.4	1826.6	1899.4	1986.5	2019.3	2026.5
35°	4414.9	3901.3	3197.1	2437.6	1788.7	1763.1	1762.1	1807.2	1868.7	1920.9	1926.1
37.5°	4702.9	4119.7	3262.7	2258.2	1712.9	1727.2	1686.2	1712.9	1773.3	1825.6	1846.1
40°	4987.9	4341.1	3354.0	2029.6	1613.4	1647.3	1599.1	1617.5	1665.7	1734.4	1767.2
42.5°	5264.6	4541.0	3450.3	1795.9	1514.0	1535.5	1499.6	1518.1	1568.3	1654.4	1691.3
45°	5566.0	4811.6	3525.1	1575.5	1427.9	1418.7	1390.0	1416.6	1492.5	1586.8	1630.9
47.5°	6135.9	5238.0	3574.3	1428.9	1381.8	1315.1	1282.3	1339.7	1425.8	1521.2	1574.5
50°	6831.9	5855.1	3560.0	1335.6	1341.8	1208.5	1197.3	1273.1	1365.4	1464.8	1523.2
52.5°	7383.4	6460.9	3397.0	1246.5	1263.9	1140.9	1108.1	1218.8	1306.9	1408.4	1468.9
55°	7804.7	6664.9	2896.8	1140.9	1136.8	1091.7	1023.0	1162.4	1248.5	1342.8	1408.4
57.5°	7461.3	6210.8	2147.5	995.3	970.7	994.3	927.7	1067.1	1176.8	1270.0	1328.5
60°	6192.3	4952.0	1196.2	881.5	811.8	869.2	859.0	966.6	1098.9	1197.3	1247.5
62.5°	4203.7	3297.6	709.3	697.0	658.1	740.1	794.4	865.1	995.3	1075.3	1122.4
65°	2095.2	1602.2	471.5	521.7	526.9	608.9	711.4	789.3	897.9	979.9	1027.1
67.5°	607.9	498.2	358.8	398.7	454.1	519.7	601.7	694.0	799.5	896.9	952.3
70°	262.4	265.5	285.0	332.1	386.4	454.1	536.1	626.3	715.5	790.3	832.3
72.5°	185.5	192.7	214.2	262.4	313.7	378.2	460.2	547.4	612.0	687.8	731.9
75°	118.9	124.0	141.5	178.4	216.3	278.8	356.7	436.7	503.3	557.6	599.7
77.5°	65.6	66.6	81.0	102.5	128.1	168.1	225.5	288.0	337.2	368.0	405.9
80°	37.9	37.9	45.1	58.4	73.8	98.4	130.2	160.9	190.7	210.1	228.6
82.5°	20.5	20.5	23.6	31.8	40.0	54.3	72.8	88.2	106.6	116.9	129.2
85°	6.2	6.2	8.2	11.3	14.4	20.5	28.7	36.9	45.1	52.3	59.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2
2.5°	2176.2	2161.8	2153.6	2143.4	2146.5	2137.2	2132.1	2135.2	2116.7	2135.2	2153.6
5°	2084.9	2064.4	2048.0	2034.7	2028.6	2016.3	2009.1	2009.1	1997.8	2016.3	2038.8
7.5°	2005.0	1988.6	1980.4	1972.2	1963.0	1951.7	1939.4	1935.3	1928.1	1947.6	1967.1
10°	1951.7	1953.7	1958.9	1970.1	1968.1	1960.9	1942.5	1932.2	1932.2	1954.8	1984.5
12.5°	1976.3	1997.8	2010.1	2030.6	2034.7	2028.6	2010.1	2001.9	2022.4	2056.2	2105.4
15°	2071.6	2086.0	2096.2	2112.6	2111.6	2106.5	2092.1	2098.3	2165.9	2231.5	2275.6
17.5°	2175.2	2158.8	2156.7	2167.0	2170.0	2163.9	2155.7	2183.4	2295.1	2356.6	2379.1
20°	2250.0	2193.6	2181.3	2185.4	2193.6	2190.5	2190.5	2235.6	2351.5	2380.2	2351.5
22.5°	2272.5	2192.6	2174.1	2175.2	2186.4	2187.5	2192.6	2239.7	2307.4	2308.4	2264.3
25°	2236.7	2159.8	2146.5	2148.5	2161.8	2160.8	2162.9	2189.5	2219.2	2206.9	2174.1
27.5°	2169.0	2102.4	2098.3	2109.5	2127.0	2117.7	2111.6	2118.8	2133.1	2117.7	2089.0
30°	2092.1	2035.7	2037.8	2059.3	2077.8	2062.4	2047.0	2051.1	2052.1	2035.7	2002.9
32.5°	2011.1	1969.1	1976.3	1998.8	2020.4	2004.0	1987.6	1985.5	1966.0	1946.6	1914.8
35°	1930.2	1913.8	1923.0	1941.4	1959.9	1946.6	1936.3	1930.2	1888.1	1859.4	1832.8
37.5°	1856.4	1868.7	1885.1	1896.3	1902.5	1901.5	1895.3	1881.0	1825.6	1791.8	1756.9
40°	1790.8	1828.7	1846.1	1851.2	1860.5	1858.4	1857.4	1836.9	1764.1	1728.2	1688.3
42.5°	1731.3	1784.6	1814.3	1819.5	1824.6	1825.6	1822.5	1792.8	1709.8	1667.8	1629.8
45°	1673.9	1743.6	1781.5	1776.4	1783.6	1783.6	1786.7	1747.7	1656.5	1613.4	1573.4
47.5°	1623.7	1705.7	1740.5	1734.4	1738.5	1741.6	1744.6	1699.5	1598.1	1557.0	1516.0
50°	1577.5	1664.7	1694.4	1696.5	1696.5	1703.6	1702.6	1658.5	1548.8	1504.8	1463.8
52.5°	1528.3	1622.7	1654.4	1667.8	1671.9	1674.9	1660.6	1609.3	1498.6	1445.3	1407.4
55°	1470.9	1579.6	1608.3	1625.7	1633.9	1631.9	1612.4	1560.1	1447.4	1394.1	1351.0
57.5°	1383.8	1487.3	1528.3	1536.5	1549.9	1541.7	1519.1	1475.0	1365.4	1312.1	1268.0
60°	1288.5	1363.3	1396.1	1403.3	1393.0	1396.1	1393.0	1351.0	1255.7	1213.7	1168.6
62.5°	1163.4	1230.1	1264.9	1274.1	1256.7	1268.0	1263.9	1211.6	1116.3	1072.2	1032.2
65°	1069.1	1141.9	1182.9	1188.0	1182.9	1188.0	1173.7	1110.1	1019.9	974.8	933.8
67.5°	995.3	1070.2	1113.2	1127.6	1122.4	1121.4	1098.9	1025.0	931.8	882.6	830.3
70°	868.2	933.8	989.2	1024.0	1024.0	1004.5	961.5	892.8	818.0	776.0	735.0
72.5°	768.8	851.8	906.1	942.0	949.2	937.9	877.4	804.7	718.6	676.5	633.5
75°	633.5	714.5	772.9	820.0	829.3	817.0	747.3	675.5	595.6	554.6	511.5
77.5°	423.3	471.5	518.7	561.7	552.5	560.7	513.5	459.2	410.0	379.3	359.8
80°	238.8	270.6	285.0	308.5	308.5	308.5	277.8	252.2	224.5	207.1	187.6
82.5°	135.3	155.8	162.0	181.4	186.6	187.6	167.1	150.7	133.3	124.0	110.7
85°	62.5	73.8	74.8	86.1	90.2	98.4	89.2	77.9	67.7	63.6	55.4
87.5°	2.1	6.2	8.2	15.4	20.5	23.6	25.6	25.6	21.5	19.5	16.4
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°	359°	360°
0°	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2
2.5°	2176.2	2200.8	2229.5	2250.0	2286.9	2317.6	2349.4	2384.3	2409.9	2403.7
5°	2066.5	2107.5	2159.8	2208.0	2276.6	2346.3	2423.2	2502.1	2548.3	2546.2
7.5°	2005.0	2063.4	2127.0	2191.6	2272.5	2373.0	2490.9	2613.9	2676.4	2679.5
10°	2037.8	2100.3	2143.4	2197.7	2282.8	2408.9	2550.3	2697.9	2769.7	2784.0
12.5°	2141.3	2136.2	2133.1	2172.1	2274.6	2434.5	2607.7	2784.0	2865.0	2882.4
15°	2239.7	2134.2	2070.6	2097.2	2237.7	2450.9	2664.1	2878.3	2969.6	2988.0
17.5°	2258.2	2098.3	1980.4	1998.8	2179.3	2456.0	2718.4	2970.6	3069.0	3086.4
20°	2206.9	2052.1	1914.8	1889.2	2105.4	2442.7	2752.3	3047.5	3155.1	3173.5
22.5°	2142.4	2011.1	1865.6	1799.0	2015.2	2429.4	2790.2	3128.4	3252.5	3268.9
25°	2074.7	1958.9	1819.5	1718.0	1912.7	2421.2	2853.7	3235.1	3384.7	3404.2
27.5°	2002.9	1895.3	1779.5	1679.0	1818.4	2431.4	2943.9	3407.3	3577.4	3605.1
30°	1926.1	1831.8	1753.9	1665.7	1753.9	2440.6	3043.4	3583.6	3783.5	3822.4
32.5°	1846.1	1773.3	1727.2	1671.9	1713.9	2419.1	3130.5	3781.4	4029.5	4063.3
35°	1766.2	1713.9	1693.4	1683.1	1660.6	2340.2	3201.2	3981.3	4310.3	4340.1
37.5°	1691.3	1652.4	1646.2	1657.5	1578.6	2211.0	3283.2	4235.5	4586.1	4631.2
40°	1621.6	1585.7	1584.7	1582.7	1488.4	2034.7	3393.9	4493.8	4857.7	4878.2
42.5°	1557.0	1511.9	1520.1	1495.5	1414.6	1844.1	3498.5	4714.2	5110.9	5125.2
45°	1499.6	1440.2	1449.4	1418.7	1379.7	1644.2	3590.7	4974.6	5431.7	5441.0
47.5°	1444.3	1380.7	1355.1	1353.1	1373.6	1459.7	3680.9	5475.8	5934.0	5950.4
50°	1393.0	1324.4	1251.6	1296.7	1335.6	1321.3	3793.7	6012.9	6452.7	6448.6
52.5°	1343.8	1253.6	1150.1	1237.2	1237.2	1218.8	3761.9	6338.9	6881.1	6951.9
55°	1287.5	1139.9	1044.5	1137.8	1092.7	1126.5	3199.2	6445.5	7150.7	7251.2
57.5°	1175.7	999.4	916.4	966.6	899.0	1044.5	2298.2	5916.6	6692.5	6870.9
60°	1068.1	895.9	841.6	832.3	744.2	851.8	1489.4	4632.2	5508.6	5598.8
62.5°	942.0	806.7	760.6	689.9	598.6	620.2	902.0	3048.5	3701.4	3722.0
65°	846.7	730.9	642.7	558.7	490.0	450.0	533.0	1469.9	1850.2	1825.6
67.5°	726.8	626.3	542.3	481.8	425.4	375.2	354.7	436.7	494.1	477.7
70°	646.8	550.5	469.5	412.1	359.8	309.6	273.7	257.3	252.2	248.1
72.5°	557.6	473.6	389.5	334.2	285.0	238.8	206.0	186.6	181.4	177.3
75°	444.9	365.9	289.1	236.8	193.7	160.9	139.4	123.0	119.9	115.8
77.5°	294.2	234.7	172.2	140.4	114.8	97.4	83.0	72.8	70.7	68.7
80°	162.0	135.3	105.6	85.1	68.7	59.5	54.3	48.2	47.2	46.1
82.5°	96.4	81.0	60.5	48.2	40.0	35.9	32.8	29.7	28.7	27.7
85°	48.2	37.9	26.7	22.6	20.5	18.5	18.5	15.4	14.4	14.4
87.5°	12.3	10.3	6.2	5.1	5.1	5.1	4.1	3.1	3.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)