

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: P637050

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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: 11129.7 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

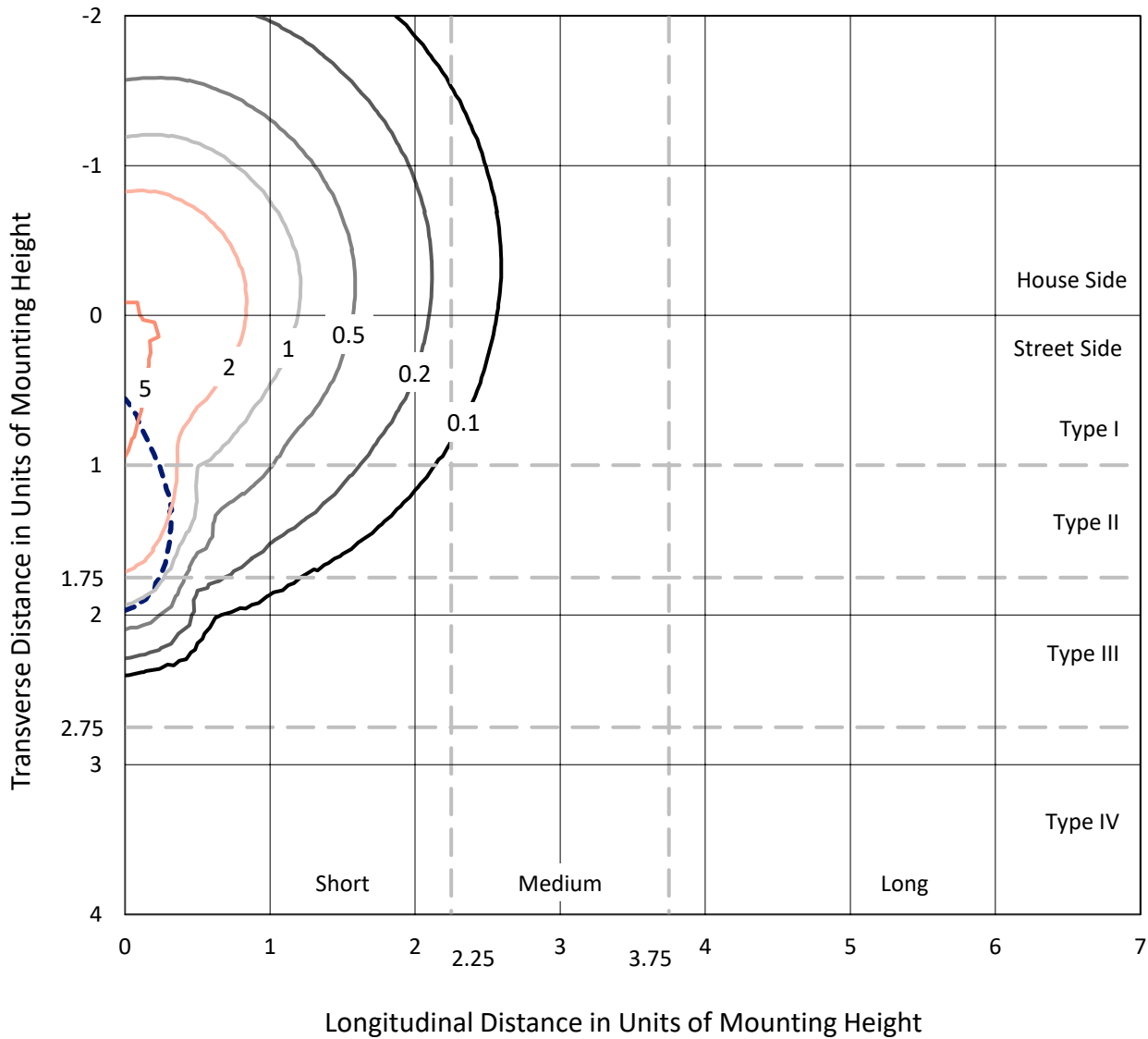
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

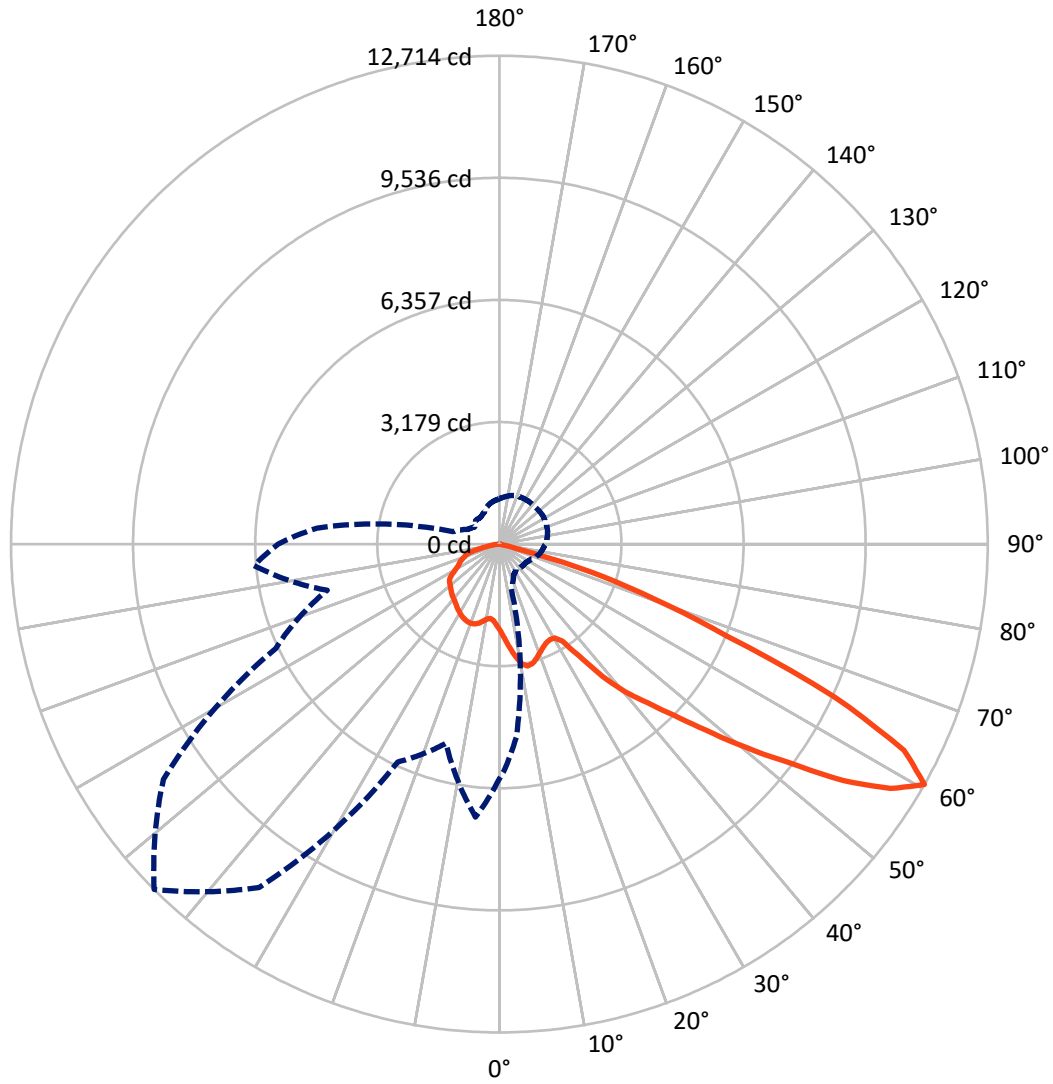
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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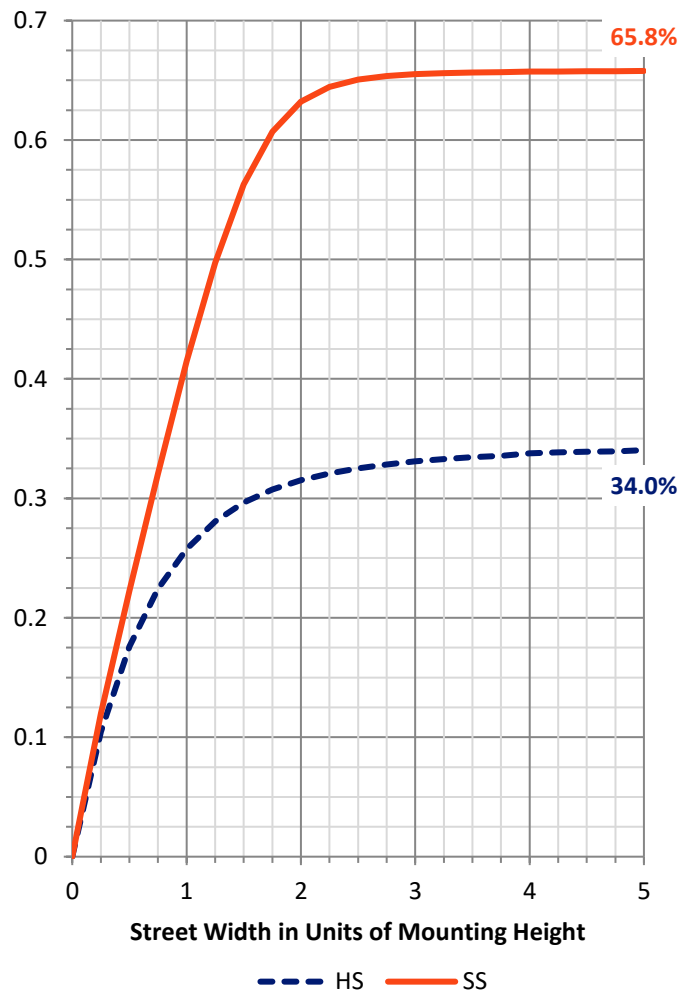
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3807.3	0.0	3807.3
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	7322.3	0.0	7322.3
	% Fixture	65.8	0.0	65.8
Total	Lumens	11129.7	0.0	11129.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	2.0
10°-20°	703.4	6.3
20°-30°	1145.6	10.3
30°-40°	1609.3	14.5
40°-50°	2202.2	19.8
50°-60°	2825.3	25.4
60°-70°	1902.5	17.1
70°-80°	475.6	4.3
80°-90°	46.4	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°	11129.7	100.0
0°-180°	11129.7	100.0

Coefficient of Utilization



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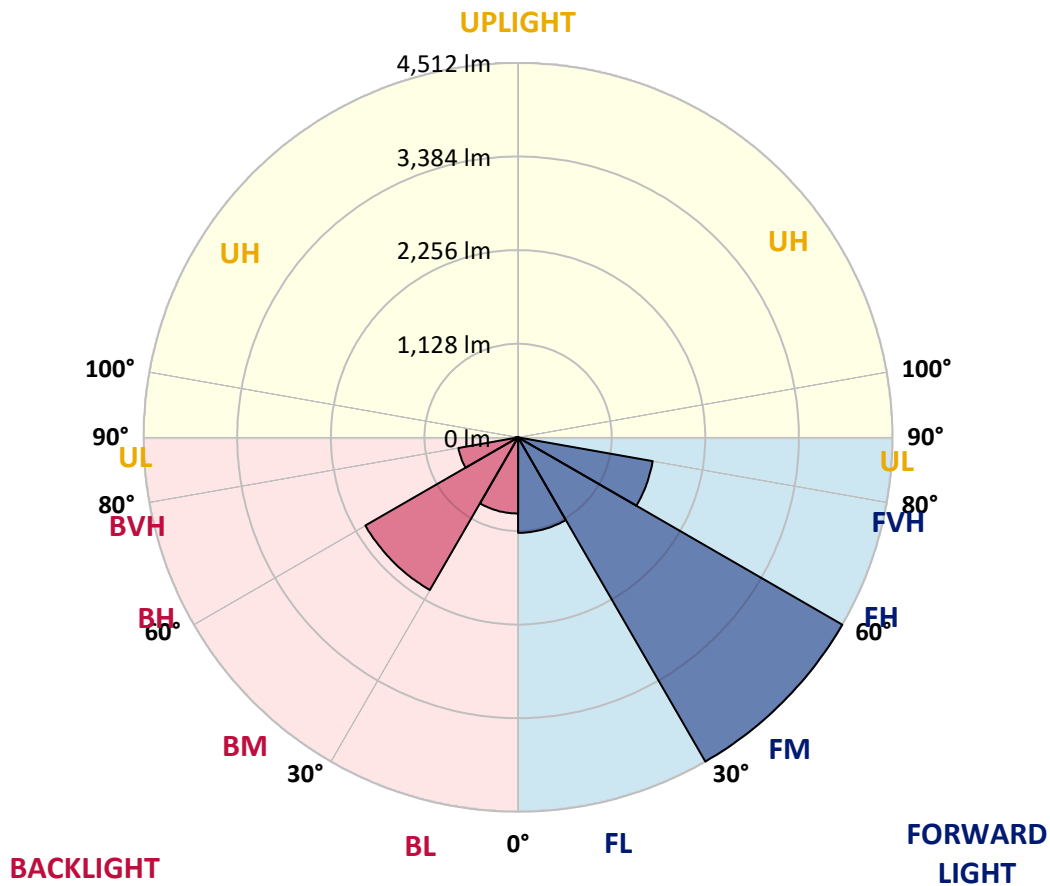
CATALOG NUMBER: GWS-SA4C-722-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.6	10.3			
FM (30°-60°)	4512.1	40.5			
FH (60°-80°)	1647.6	14.8			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	917.8	8.2	B2/1000		
BM (30°-60°)	2124.8	19.1	B2/2500		
BH (60°-80°)	730.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	34.3	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°	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7
2.5°	2374.9	2369.8	2364.7	2324.7	2314.4	2285.7	2265.2	2239.6	2202.7	2182.2	2164.8
5°	2523.5	2515.3	2487.7	2405.7	2352.4	2293.9	2245.8	2192.5	2136.1	2099.2	2070.5
7.5°	2664.0	2661.9	2614.8	2479.5	2393.4	2309.3	2243.7	2165.8	2084.8	2029.5	1992.6
10°	2794.1	2778.8	2722.4	2546.1	2433.3	2337.0	2266.3	2180.2	2085.9	2011.0	1961.8
12.5°	2908.9	2889.5	2811.6	2607.6	2468.2	2349.3	2272.4	2201.7	2139.2	2076.6	2020.3
15°	3003.2	2979.7	2900.7	2665.0	2498.9	2342.1	2234.5	2179.1	2200.7	2228.3	2165.8
17.5°	3091.4	3066.8	2970.4	2707.0	2508.2	2298.0	2141.2	2117.6	2226.3	2352.4	2323.7
20°	3165.2	3137.5	3025.8	2727.5	2491.8	2214.0	2020.3	2061.3	2204.8	2355.4	2401.6
22.5°	3245.1	3222.6	3088.3	2757.2	2471.3	2098.2	1918.8	2019.2	2167.9	2300.1	2369.8
25°	3373.3	3345.6	3185.7	2809.5	2461.0	1989.5	1846.0	1978.2	2116.6	2236.5	2290.9
27.5°	3558.8	3507.5	3318.9	2900.7	2472.3	1887.0	1799.9	1928.0	2057.2	2159.7	2203.7
30°	3760.7	3699.2	3466.5	2995.0	2488.7	1824.5	1775.3	1870.6	1965.9	2068.4	2116.6
32.5°	3999.5	3945.2	3624.4	3065.8	2453.8	1795.8	1756.8	1808.1	1883.9	1965.9	2005.9
35°	4284.5	4187.1	3796.6	3123.2	2341.1	1753.8	1740.4	1739.4	1779.4	1859.3	1904.4
37.5°	4591.0	4486.4	4008.8	3184.7	2165.8	1687.1	1701.5	1658.4	1695.3	1758.9	1810.1
40°	4842.1	4732.4	4223.0	3268.7	1946.5	1582.6	1615.4	1569.3	1591.8	1657.4	1714.8
42.5°	5088.1	4971.2	4422.9	3364.0	1734.3	1480.1	1496.5	1479.1	1486.2	1554.9	1634.9
45°	5411.0	5279.8	4668.9	3431.7	1543.6	1399.1	1383.7	1354.0	1391.9	1481.1	1566.2
47.5°	5950.1	5793.3	5071.7	3475.8	1405.3	1353.0	1282.3	1264.8	1312.0	1411.4	1499.6
50°	6580.5	6445.2	5715.4	3473.7	1301.7	1314.0	1183.9	1168.5	1246.4	1346.8	1440.1
52.5°	7097.1	6959.7	6265.8	3371.2	1216.7	1231.0	1126.5	1083.4	1190.0	1283.3	1376.6
55°	7514.2	7359.5	6519.0	2942.8	1109.0	1098.8	1063.9	985.0	1119.3	1219.7	1306.9
57.5°	7289.8	7105.3	6212.5	2237.6	998.3	933.8	956.3	897.9	1022.9	1149.0	1233.1
60°	6112.1	5946.0	5047.1	1191.0	878.4	780.0	827.2	836.4	917.4	1063.9	1150.0
62.5°	4198.4	4077.4	3420.4	722.6	692.9	626.3	700.1	766.7	827.2	951.2	1026.0
65°	2054.1	2018.2	1710.7	463.3	484.8	506.3	580.1	661.1	750.3	858.9	937.9
67.5°	565.8	569.9	518.6	361.8	382.3	441.8	500.2	564.8	653.9	754.4	834.3
70°	249.1	253.2	261.4	278.8	317.7	372.1	432.5	499.2	581.2	665.2	742.1
72.5°	173.2	177.3	189.6	212.2	247.0	298.3	355.7	419.2	504.3	575.0	638.6
75°	106.6	109.7	120.9	140.4	164.0	202.9	259.3	317.7	392.6	457.1	513.5
77.5°	56.4	54.3	61.5	74.8	95.3	115.8	153.7	190.6	243.9	296.2	343.4
80°	30.7	29.7	33.8	41.0	47.1	63.5	89.2	113.8	144.5	174.2	199.9
82.5°	13.3	12.3	13.3	17.4	21.5	30.7	45.1	62.5	79.9	100.4	116.8
85°	0.0	0.0	0.0	1.0	5.1	8.2	15.4	22.5	32.8	45.1	55.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	9.2
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°	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7
2.5°	2154.5	2128.9	2126.9	2106.4	2108.4	2109.4	2088.9	2080.7	2087.9	2096.1	2092.0
5°	2060.2	2033.6	2022.3	2002.8	2000.8	1991.6	1983.4	1973.1	1980.3	1987.5	1991.6
7.5°	1978.2	1960.8	1953.6	1948.5	1950.6	1946.5	1930.1	1920.8	1919.8	1922.9	1927.0
10°	1951.6	1937.2	1946.5	1960.8	1971.1	1978.2	1960.8	1945.4	1931.1	1924.9	1924.9
12.5°	2009.0	1990.5	2009.0	2024.4	2044.9	2050.0	2030.5	2014.1	2009.0	2015.1	2027.4
15°	2136.1	2093.0	2092.0	2101.2	2117.6	2125.8	2107.4	2099.2	2099.2	2138.1	2168.9
17.5°	2263.2	2192.5	2162.7	2157.6	2167.9	2170.9	2155.6	2148.4	2166.8	2242.7	2300.1
20°	2352.4	2266.3	2201.7	2189.4	2192.5	2193.5	2181.2	2176.1	2202.7	2295.0	2343.1
22.5°	2343.1	2279.6	2200.7	2185.3	2190.4	2188.4	2177.1	2175.0	2196.6	2276.5	2299.1
25°	2279.6	2230.4	2163.8	2153.5	2161.7	2160.7	2149.4	2144.3	2153.5	2206.8	2208.9
27.5°	2206.8	2163.8	2106.4	2103.3	2116.6	2123.8	2104.3	2088.9	2085.9	2121.7	2113.5
30°	2119.7	2087.9	2041.8	2043.8	2068.4	2072.5	2049.0	2026.4	2020.3	2039.7	2028.5
32.5°	2016.2	2005.9	1981.3	1986.4	2010.0	2018.2	1993.6	1970.0	1962.9	1969.0	1945.4
35°	1928.0	1923.9	1926.0	1935.2	1955.7	1961.8	1941.3	1922.9	1912.6	1891.1	1860.4
37.5°	1836.8	1848.1	1877.8	1895.2	1906.5	1904.4	1893.2	1879.8	1863.4	1823.5	1785.5
40°	1751.7	1780.4	1833.7	1853.2	1857.3	1858.3	1850.1	1838.8	1818.3	1765.0	1722.0
42.5°	1686.1	1717.9	1788.6	1818.3	1820.4	1822.4	1814.2	1805.0	1776.3	1705.6	1663.6
45°	1617.4	1659.5	1742.5	1778.4	1776.3	1775.3	1768.1	1764.0	1730.2	1648.2	1602.1
47.5°	1559.0	1608.2	1697.4	1728.1	1727.1	1726.1	1721.0	1721.0	1687.1	1598.0	1545.7
50°	1501.6	1558.0	1651.3	1676.9	1678.9	1676.9	1674.8	1677.9	1637.9	1542.6	1491.4
52.5°	1439.1	1502.6	1600.0	1623.6	1635.9	1641.0	1641.0	1633.8	1586.7	1487.3	1430.9
55°	1370.4	1430.9	1543.6	1575.4	1585.7	1594.9	1594.9	1580.5	1536.5	1436.0	1375.5
57.5°	1285.3	1338.6	1427.8	1459.6	1484.2	1490.3	1490.3	1466.8	1430.9	1334.5	1285.3
60°	1193.1	1239.2	1299.7	1333.5	1352.0	1339.7	1348.9	1342.7	1314.0	1224.9	1183.9
62.5°	1070.1	1117.2	1183.9	1218.7	1226.9	1214.6	1226.9	1225.9	1186.9	1107.0	1057.8
65°	981.9	1028.1	1093.7	1138.8	1152.1	1149.0	1157.2	1144.9	1096.7	1020.9	973.7
67.5°	877.4	926.6	1002.4	1052.7	1080.3	1083.4	1094.7	1069.1	1019.9	936.8	877.4
70°	778.0	820.0	878.4	925.6	964.5	984.0	986.0	949.1	887.6	819.0	775.9
72.5°	673.4	716.5	787.2	838.4	887.6	910.2	910.2	865.1	798.5	722.6	676.5
75°	546.3	586.3	650.9	706.2	762.6	791.3	790.3	751.3	677.5	605.8	557.6
77.5°	370.0	399.7	440.7	482.8	491.0	513.5	524.8	475.6	434.6	395.6	352.6
80°	215.2	233.7	256.2	279.8	284.9	292.1	273.7	255.2	233.7	208.1	188.6
82.5°	126.1	138.4	149.6	168.1	171.2	173.2	156.8	148.6	131.2	115.8	103.5
85°	61.5	65.6	75.8	85.1	81.0	78.9	71.7	63.5	56.4	50.2	44.1
87.5°	12.3	12.3	18.4	17.4	14.3	12.3	7.2	9.2	2.0	2.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7
2.5°	2105.3	2122.8	2144.3	2173.0	2205.8	2240.6	2274.5	2300.1	2325.7	2363.6	2357.5
5°	1997.7	2027.4	2061.3	2105.3	2158.6	2219.1	2286.8	2354.4	2427.2	2488.7	2515.3
7.5°	1935.2	1968.0	2008.0	2065.4	2134.0	2207.8	2303.2	2412.8	2530.7	2611.7	2661.9
10°	1935.2	1977.2	2029.5	2084.8	2145.3	2221.2	2339.0	2476.4	2628.1	2734.7	2793.1
12.5°	2046.9	2088.9	2100.2	2098.2	2132.0	2216.0	2367.7	2543.0	2724.4	2837.2	2908.9
15°	2221.2	2235.5	2150.4	2072.5	2077.7	2179.1	2381.1	2596.3	2807.5	2942.8	3020.7
17.5°	2338.0	2300.1	2148.4	2012.1	1983.4	2116.6	2381.1	2647.6	2895.6	3048.3	3121.1
20°	2347.2	2252.9	2096.1	1953.6	1879.8	2033.6	2364.7	2686.5	2980.7	3149.8	3227.7
22.5°	2266.3	2173.0	2040.8	1903.4	1794.8	1933.1	2338.0	2716.2	3053.5	3245.1	3341.5
25°	2174.0	2096.1	1984.4	1852.2	1736.3	1831.7	2313.4	2766.5	3154.9	3374.3	3471.7
27.5°	2083.8	2018.2	1916.7	1809.1	1703.5	1743.5	2298.0	2840.3	3275.9	3557.8	3641.8
30°	1995.7	1936.2	1844.0	1768.1	1686.1	1686.1	2284.7	2925.3	3435.8	3763.8	3847.8
32.5°	1906.5	1850.1	1775.3	1728.1	1675.9	1663.6	2247.8	3005.3	3600.8	3989.3	4075.4
35°	1823.5	1767.1	1709.7	1690.2	1670.7	1646.1	2156.6	3067.8	3761.7	4252.7	4326.5
37.5°	1745.6	1691.2	1648.2	1643.1	1645.1	1599.0	2013.1	3120.1	3962.6	4522.3	4561.2
40°	1677.9	1617.4	1583.6	1582.6	1592.8	1523.1	1831.7	3194.9	4192.2	4750.9	4734.5
42.5°	1617.4	1553.9	1512.9	1522.1	1516.0	1447.3	1654.3	3263.6	4392.1	4965.1	4932.3
45°	1558.0	1496.5	1439.1	1452.4	1445.2	1400.1	1503.7	3313.8	4613.5	5222.4	5226.5
47.5°	1500.6	1440.1	1382.7	1366.3	1365.3	1385.8	1387.8	3330.2	4974.3	5636.5	5543.2
50°	1447.3	1386.8	1327.4	1272.0	1293.5	1357.1	1301.7	3317.9	5514.5	6093.6	5833.3
52.5°	1391.9	1334.5	1268.9	1169.5	1225.9	1288.4	1224.9	3273.8	5844.5	6497.5	6341.7
55°	1328.4	1274.1	1184.9	1063.9	1132.6	1145.9	1145.9	2847.4	5985.0	6897.2	6993.6
57.5°	1243.3	1171.6	1030.1	932.7	994.2	943.0	1061.9	1992.6	5753.3	6771.1	7145.3
60°	1147.0	1070.1	920.4	850.7	869.2	779.0	905.1	1249.5	4768.3	5761.5	6409.3
62.5°	1019.9	949.1	825.1	770.8	732.9	635.5	728.8	790.3	3268.7	4278.3	4720.1
65°	934.8	856.9	746.2	674.4	596.5	511.5	483.8	518.6	1757.9	2394.4	2692.7
67.5°	834.3	757.5	652.9	562.7	500.2	438.7	390.5	378.2	602.7	797.4	863.0
70°	739.0	665.2	578.1	494.0	431.5	371.0	323.9	290.1	278.8	276.7	272.6
72.5°	641.6	573.0	500.2	422.3	353.6	298.3	256.2	217.3	200.9	195.8	190.6
75°	525.8	471.5	398.7	314.7	259.3	208.1	175.3	149.6	135.3	130.2	124.0
77.5°	338.2	313.6	250.1	202.9	156.8	124.0	106.6	90.2	81.0	78.9	73.8
80°	180.4	168.1	138.4	116.8	93.3	75.8	66.6	57.4	52.3	50.2	48.2
82.5°	100.4	91.2	76.9	67.6	54.3	46.1	41.0	36.9	33.8	32.8	31.8
85°	45.1	38.9	30.7	28.7	25.6	23.6	22.5	20.5	19.5	18.4	17.4
87.5°	2.0	4.1	5.1	4.1	4.1	6.1	7.2	7.2	6.1	6.1	5.1
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°	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7	2244.7
2.5°	2395.4	2426.2	2429.2	2439.5	2426.2	2423.1	2401.6	2389.3	2378.0	2374.9
5°	2582.0	2643.5	2668.1	2685.5	2669.1	2660.9	2613.7	2564.5	2536.9	2523.5
7.5°	2773.6	2865.9	2914.1	2935.6	2937.6	2900.7	2819.8	2727.5	2681.4	2664.0
10°	2944.8	3058.6	3122.1	3163.1	3148.8	3103.7	2993.0	2867.9	2809.5	2794.1
12.5°	3071.9	3180.6	3229.8	3256.4	3255.4	3230.8	3126.2	2990.9	2924.3	2908.9
15°	3153.9	3218.5	3221.6	3227.7	3245.1	3277.9	3223.6	3098.6	3024.8	3003.2
17.5°	3218.5	3192.9	3144.7	3128.3	3167.2	3258.5	3291.3	3189.8	3109.8	3091.4
20°	3259.5	3130.3	3045.3	3013.5	3058.6	3207.2	3332.3	3271.8	3188.8	3165.2
22.5°	3291.3	3071.9	2934.6	2913.0	2960.2	3151.9	3374.3	3369.2	3277.9	3245.1
25°	3341.5	3033.0	2856.7	2841.3	2885.4	3125.2	3430.7	3501.4	3420.4	3373.3
27.5°	3420.4	3028.9	2816.7	2811.6	2872.0	3148.8	3511.6	3695.1	3593.6	3558.8
30°	3530.1	3067.8	2825.9	2836.2	2910.0	3233.9	3637.7	3916.5	3815.0	3760.7
32.5°	3687.9	3172.4	2966.3	3010.4	3064.7	3370.2	3822.2	4156.4	4079.5	3999.5
35°	3896.0	3459.4	3381.5	3569.0	3517.8	3668.5	4044.6	4447.5	4354.2	4284.5
37.5°	4173.8	4047.7	4119.5	4377.8	4253.7	4232.2	4316.3	4711.9	4660.7	4591.0
40°	4563.3	4588.9	4721.1	5060.4	4881.0	4742.7	4649.4	4910.8	4928.2	4842.1
42.5°	4821.6	4939.5	5258.2	5643.6	5396.6	5065.5	4928.2	5165.0	5166.0	5088.1
45°	4917.9	5226.5	5892.7	6336.5	5923.5	5250.0	5081.9	5510.4	5500.1	5411.0
47.5°	4883.1	5468.4	6551.8	7230.3	6600.0	5381.2	5060.4	6002.4	6085.4	5950.1
50°	4810.3	5711.3	7321.5	8325.0	7430.2	5520.6	5027.6	6547.7	6685.0	6580.5
52.5°	4884.1	5981.9	8231.7	9456.6	8471.6	5743.1	5249.0	7247.7	7223.1	7097.1
55°	5117.8	6301.7	9337.7	10878.3	9615.5	6119.2	5817.9	7915.0	7664.9	7514.2
57.5°	5106.5	6530.3	10307.4	12002.7	10610.8	6427.8	6015.7	7985.7	7480.4	7289.8
60°	4635.0	6425.7	10676.4	12714.1	10911.1	6257.6	5364.8	7133.0	6311.9	6112.1
62.5°	3459.4	5702.1	9960.9	11823.3	10061.4	5404.8	4034.4	5119.9	4535.6	4198.4
65°	2213.0	4460.8	8374.2	9578.6	8293.2	4133.8	2402.6	2744.9	2150.4	2054.1
67.5°	942.0	3148.8	6509.8	6402.1	6204.3	2678.3	927.6	772.8	576.0	565.8
70°	311.6	2142.2	4012.9	4270.1	3705.4	1845.0	306.5	259.3	258.3	249.1
72.5°	204.0	1150.0	2259.1	2515.3	2384.1	1061.9	185.5	173.2	177.3	173.2
75°	122.0	250.1	380.3	494.0	380.3	178.3	111.7	109.7	111.7	106.6
77.5°	71.7	69.7	67.6	67.6	66.6	61.5	56.4	54.3	55.3	56.4
80°	46.1	44.1	42.0	41.0	35.9	33.8	31.8	29.7	29.7	30.7
82.5°	29.7	27.7	25.6	22.5	18.4	15.4	14.3	12.3	12.3	13.3
85°	15.4	12.3	9.2	7.2	4.1	2.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.0	0.0	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)