

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: P637221

Luminaire Tested: GWS-SA4C-735-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18127.9 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

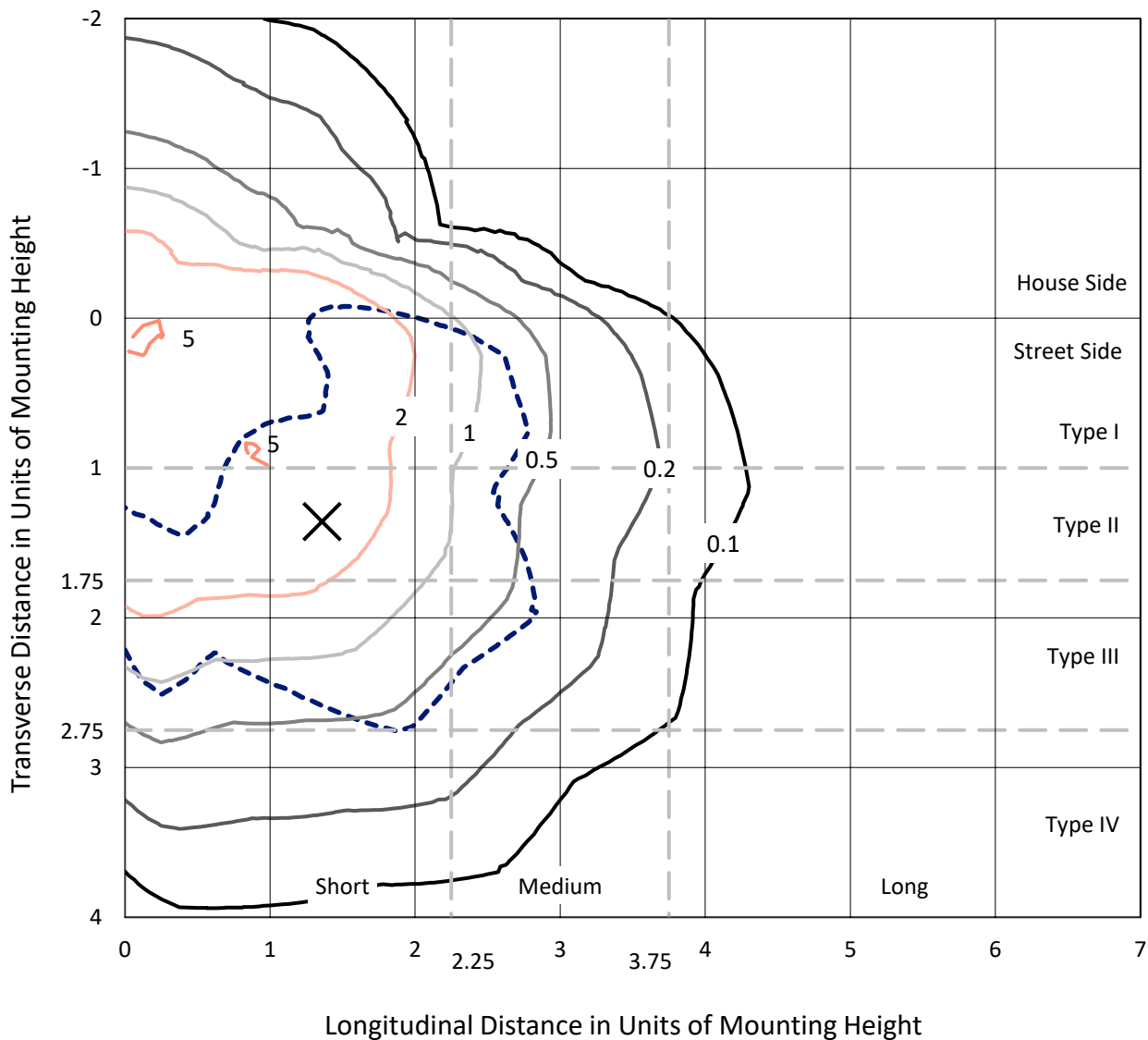
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

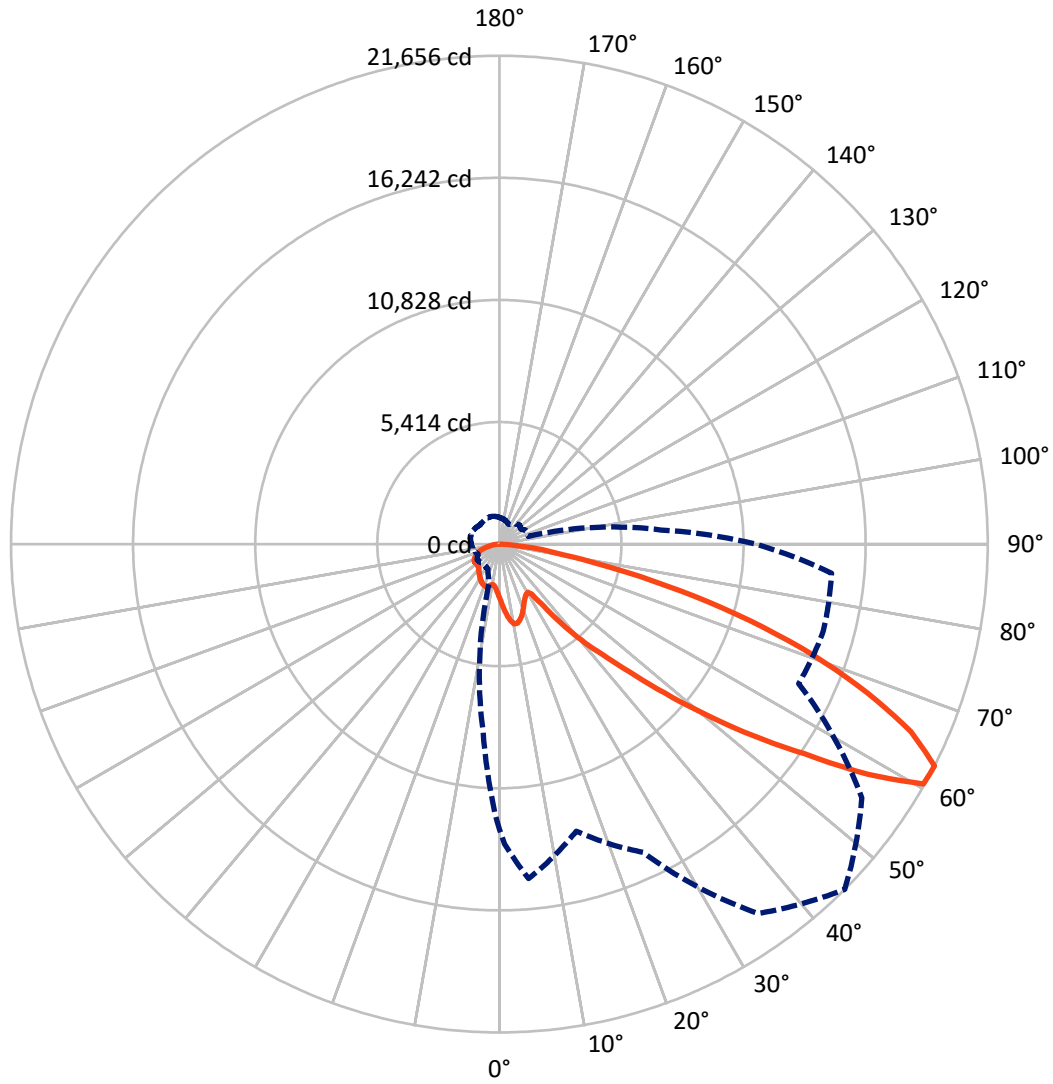
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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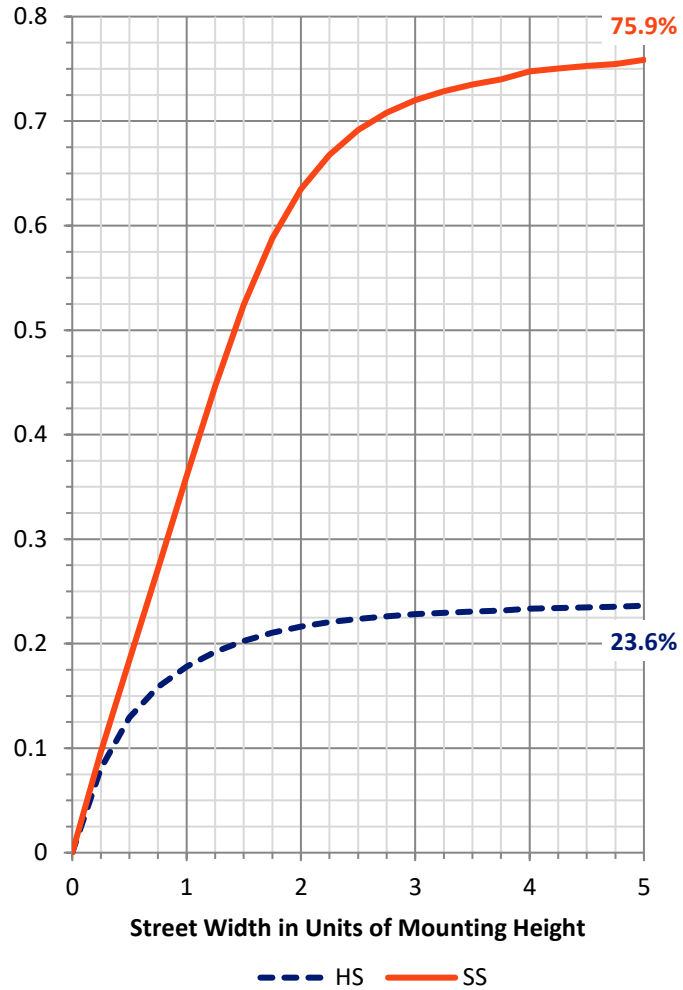
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4325.6	0.0	4325.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	13802.2	0.0	13802.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	18127.9	0.0	18127.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.0	1.3
10°-20°	736.6	4.1
20°-30°	1144.1	6.3
30°-40°	1553.4	8.6
40°-50°	2462.0	13.6
50°-60°	4342.9	24.0
60°-70°	4832.2	26.7
70°-80°	2450.7	13.5
80°-90°	371.1	2.0
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°	18127.9	100.0
0°-180°	18127.9	100.0

Coefficient of Utilization



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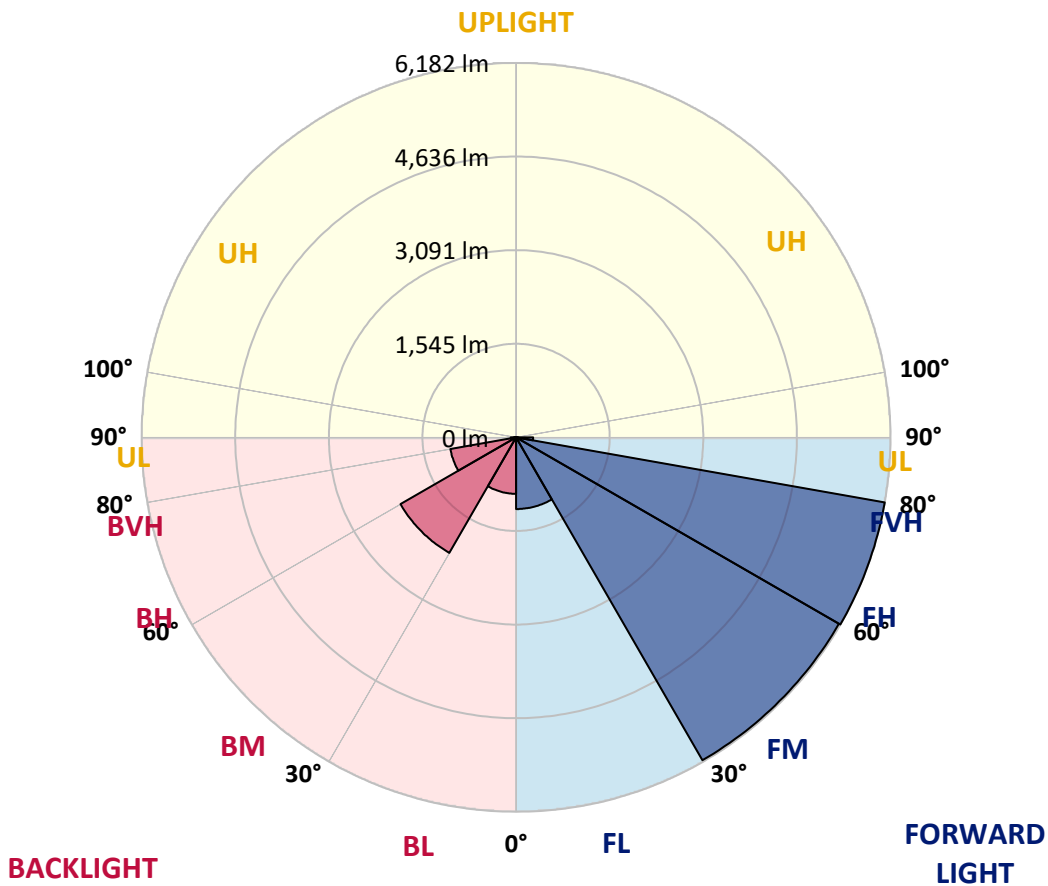
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1183.6	6.5			
FM (30°-60°)	6155.2	34.0			
FH (60°-80°)	6181.8	34.1			G3/7500
FVH (80°-90°)	281.7	1.6			G3/500
BL (0°-30°)	932.1	5.1	B2/1000		
BM (30°-60°)	2203.1	12.2	B2/2500		
BH (60°-80°)	1101.1	6.1	B3/2500		G3/2500
BVH (80°-90°)	89.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9
2.5°	2585.7	2584.4	2610.4	2650.2	2687.3	2703.8	2731.2	2728.5	2706.5	2677.7	2668.1
5°	2788.9	2794.4	2839.6	2927.5	3024.9	3066.1	3083.9	3077.1	3037.3	2986.5	2897.3
7.5°	2972.8	2982.4	3052.4	3184.1	3304.9	3359.8	3403.7	3395.5	3337.9	3243.2	3111.4
10°	3107.3	3118.3	3202.0	3357.1	3491.6	3539.6	3595.9	3598.6	3547.8	3420.2	3285.7
12.5°	3241.8	3252.8	3331.0	3472.4	3560.2	3561.6	3594.5	3612.3	3615.1	3556.1	3421.6
15°	3381.8	3391.4	3462.7	3542.3	3538.2	3461.4	3461.4	3495.7	3571.2	3613.7	3520.4
17.5°	3501.2	3513.5	3568.4	3542.3	3420.2	3281.6	3265.1	3309.0	3440.8	3604.1	3594.5
20°	3600.0	3609.6	3639.8	3466.9	3244.5	3063.4	3031.8	3082.6	3261.0	3545.1	3650.8
22.5°	3694.7	3700.2	3683.7	3368.0	3055.1	2847.9	2809.4	2863.0	3055.1	3440.8	3698.8
25°	3807.2	3801.7	3723.5	3265.1	2882.2	2677.7	2637.9	2698.3	2898.7	3302.2	3751.0
27.5°	3937.6	3917.0	3757.8	3153.9	2749.1	2551.4	2524.0	2588.5	2775.1	3174.5	3792.1
30°	4048.8	4009.0	3763.3	3055.1	2680.4	2497.9	2481.4	2541.8	2714.7	3088.1	3844.3
32.5°	4172.3	4117.4	3794.9	3029.0	2718.9	2626.9	2648.9	2653.0	2731.2	3063.4	3922.5
35°	4349.4	4278.0	3881.3	3104.5	3114.1	3269.2	3348.8	3241.8	2979.6	3118.3	4070.8
37.5°	4617.0	4526.4	4057.0	3431.2	3930.8	4278.0	4470.1	4225.8	3734.5	3325.5	4294.5
40°	4942.3	4827.0	4282.1	4035.1	4693.9	5249.7	5591.4	5233.2	4511.3	3842.9	4608.8
42.5°	5396.6	5275.8	4718.6	4628.0	5400.7	6228.3	6674.3	6140.4	5196.2	4511.3	5112.5
45°	6188.5	6071.8	5518.7	5222.3	6228.3	7433.3	8059.2	7316.6	5892.0	5182.5	6054.0
47.5°	7651.5	7514.3	6707.3	5881.0	7172.5	8997.9	9873.6	8792.1	6615.3	5951.0	7635.1
50°	9408.3	9276.5	8199.1	6660.6	8215.6	10671.0	11888.3	10525.5	7448.4	6885.7	9525.0
52.5°	11521.9	11497.2	10327.8	7646.0	9301.2	12455.2	14124.1	12445.6	8361.1	8144.2	11666.0
55°	13426.9	13668.4	13031.6	9148.9	10703.9	14696.4	16423.0	14540.0	9599.1	10224.9	14173.5
57.5°	14453.5	15102.7	16081.2	12215.0	12743.4	17375.5	19259.9	17096.9	11726.4	13689.0	16498.5
60°	13775.5	14511.1	16284.4	14523.5	14766.4	19522.0	21601.3	19246.2	13815.3	16093.6	16366.7
62.5°	12647.3	13307.5	14884.5	13175.7	15079.3	19994.2	21656.2	19620.9	14645.6	14873.5	14784.3
65°	11309.2	11974.8	13645.1	11501.3	14084.3	18872.9	20058.7	18518.8	13153.8	13437.9	13470.8
67.5°	9531.8	10146.7	11847.2	10226.3	12838.1	17227.3	17606.1	16948.7	12113.4	12566.3	12092.8
70°	7121.8	7676.2	9177.7	8310.3	10821.9	15083.5	14777.4	14874.8	10945.5	11395.6	10101.4
72.5°	4866.8	5284.0	6571.4	6530.2	8287.0	12075.0	11648.2	12571.8	9142.0	9739.1	7700.9
75°	3403.7	3729.0	4750.1	5159.1	6264.0	8949.9	8295.2	9409.7	7139.6	7991.9	5618.9
77.5°	2088.9	2304.4	3000.2	3822.3	4029.6	6125.3	5152.3	7080.6	5013.6	5828.9	3748.2
80°	1044.5	1148.8	1457.6	2403.2	2672.2	3609.6	2845.1	4110.6	3392.7	3609.6	2073.8
82.5°	315.7	348.6	426.8	912.7	1384.8	2077.9	1681.3	2388.1	1852.8	1692.3	816.6
85°	83.7	94.7	118.0	270.4	485.9	745.3	568.2	1157.0	888.0	624.5	307.4
87.5°	6.9	6.9	5.5	5.5	2.7	0.0	0.0	82.3	166.1	94.7	53.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9
2.5°	2620.0	2614.6	2558.3	2517.1	2469.1	2422.4	2374.4	2331.8	2283.8	2235.8	2222.0
5°	2831.4	2793.0	2673.6	2573.4	2474.6	2388.1	2312.6	2234.4	2171.2	2109.5	2086.2
7.5°	3018.1	2950.8	2777.9	2625.5	2488.3	2381.2	2270.1	2156.2	2066.9	1979.1	1957.1
10°	3186.9	3097.7	2879.4	2687.3	2535.0	2412.8	2282.4	2130.1	2001.1	1894.0	1865.2
12.5°	3311.8	3214.3	2967.3	2746.3	2573.4	2436.1	2307.1	2172.6	2036.7	1898.1	1866.6
15°	3410.6	3309.0	3040.0	2791.6	2574.8	2397.7	2272.8	2226.1	2183.6	2047.7	1990.1
17.5°	3490.2	3383.1	3103.2	2819.1	2537.7	2281.0	2172.6	2241.2	2349.7	2264.6	2156.2
20°	3562.9	3454.5	3151.2	2838.3	2455.4	2120.5	2060.1	2205.6	2368.9	2366.1	2268.7
22.5°	3642.5	3536.9	3221.2	2849.3	2340.1	1957.1	1992.8	2153.4	2286.5	2326.3	2266.0
25°	3744.1	3650.8	3318.6	2874.0	2209.7	1844.6	1943.4	2086.2	2197.3	2206.9	2171.2
27.5°	3862.1	3792.1	3464.1	2931.6	2083.4	1787.0	1885.8	1991.5	2093.0	2097.1	2054.6
30°	3991.1	3944.5	3598.6	2979.6	1988.7	1769.1	1811.7	1896.8	1961.3	1972.2	1935.2
32.5°	4155.8	4114.7	3718.0	2948.1	1932.4	1765.0	1743.0	1787.0	1840.5	1840.5	1811.7
35°	4382.3	4324.7	3844.3	2827.3	1863.8	1748.5	1670.3	1682.7	1706.0	1710.1	1693.6
37.5°	4703.5	4608.8	3971.9	2588.5	1751.3	1689.5	1586.6	1571.5	1579.7	1590.7	1586.6
40°	5101.5	4946.4	4158.6	2301.6	1616.8	1575.6	1500.1	1471.3	1464.4	1486.4	1494.6
42.5°	5602.4	5365.0	4359.0	2034.0	1494.6	1445.2	1398.5	1373.8	1362.9	1399.9	1421.9
45°	6402.6	6011.4	4551.1	1769.1	1426.0	1334.0	1302.5	1284.6	1290.1	1334.0	1361.5
47.5°	7784.7	6998.2	4733.7	1601.7	1420.5	1254.4	1216.0	1220.1	1235.2	1281.9	1314.8
50°	9533.2	8319.9	4855.8	1531.7	1437.0	1206.4	1155.6	1177.6	1200.9	1246.2	1284.6
52.5°	11313.3	9551.0	4710.3	1493.2	1435.6	1207.8	1099.3	1165.2	1176.2	1221.5	1262.7
55°	12537.5	9688.3	4069.4	1434.2	1413.6	1262.7	1055.4	1159.7	1166.6	1207.8	1244.8
57.5°	13004.2	9218.9	3103.2	1450.7	1347.8	1305.2	1036.2	1121.3	1170.7	1206.4	1244.8
60°	12440.1	8333.6	1885.8	1493.2	1242.1	1302.5	1048.6	1051.3	1136.4	1196.8	1235.2
62.5°	11376.4	7197.2	1324.4	1372.5	1165.2	1229.7	1077.4	969.0	1076.0	1148.8	1183.1
65°	10157.7	5860.5	1010.1	1181.7	1128.2	1117.2	1087.0	896.2	993.7	1065.0	1095.2
67.5°	8888.1	4555.2	820.7	881.1	1019.7	1010.1	993.7	831.7	896.2	947.0	981.3
70°	7289.2	3186.9	693.1	661.5	874.3	905.8	868.8	750.7	771.3	823.5	850.9
72.5°	5332.1	1986.0	569.6	546.2	702.7	791.9	772.7	661.5	671.1	720.5	742.5
75°	3834.7	1136.4	457.0	450.2	536.6	678.0	639.6	569.6	580.6	617.6	632.7
77.5°	2437.5	632.7	352.7	362.3	384.3	506.4	546.2	487.2	487.2	509.2	521.5
80°	1305.2	362.3	258.0	262.1	269.0	387.0	431.0	377.4	377.4	362.3	377.4
82.5°	532.5	208.6	177.0	164.7	179.8	264.9	301.9	240.2	251.2	226.5	231.9
85°	175.7	104.3	87.8	86.5	85.1	116.7	145.5	119.4	142.7	90.6	94.7
87.5°	23.3	19.2	11.0	8.2	9.6	4.1	8.2	9.6	9.6	6.9	6.9
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°	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9
2.5°	2212.4	2201.4	2161.6	2171.2	2164.4	2153.4	2164.4	2143.8	2160.3	2165.8	2200.1
5°	2068.3	2042.2	2003.8	1984.6	1980.5	1969.5	1970.9	1961.3	1964.0	1987.3	2025.8
7.5°	1939.3	1914.6	1884.4	1870.7	1858.3	1846.0	1844.6	1843.2	1854.2	1874.8	1911.9
10°	1846.0	1832.2	1819.9	1825.4	1819.9	1814.4	1804.8	1804.8	1822.6	1859.7	1905.0
12.5°	1846.0	1843.2	1846.0	1862.4	1861.1	1862.4	1850.1	1857.0	1906.4	1969.5	2034.0
15°	1944.8	1922.8	1922.8	1931.1	1928.3	1928.3	1928.3	1957.1	2069.7	2167.1	2235.8
17.5°	2065.6	2001.1	1973.6	1969.5	1968.1	1968.1	1973.6	2035.4	2211.1	2314.0	2353.8
20°	2149.3	2027.1	1981.8	1964.0	1965.4	1968.1	1984.6	2069.7	2263.2	2315.4	2305.8
22.5°	2164.4	2006.6	1951.7	1925.6	1929.7	1932.4	1957.1	2047.7	2191.8	2200.1	2180.9
25°	2094.4	1948.9	1889.9	1869.3	1874.8	1873.4	1895.4	1961.3	2064.2	2061.5	2050.5
27.5°	1990.1	1857.0	1813.0	1799.3	1808.9	1797.9	1804.8	1855.6	1935.2	1932.4	1928.3
30°	1883.0	1767.7	1727.9	1721.1	1733.4	1717.0	1718.3	1760.9	1815.8	1813.0	1811.7
32.5°	1776.0	1678.5	1642.8	1642.8	1655.2	1637.4	1640.1	1677.2	1714.2	1703.2	1703.2
35°	1674.4	1605.8	1577.0	1571.5	1581.1	1568.7	1574.2	1608.5	1622.3	1607.2	1597.6
37.5°	1585.2	1555.0	1526.2	1507.0	1508.3	1509.7	1526.2	1552.3	1544.0	1522.1	1509.7
40°	1502.9	1502.9	1475.4	1439.7	1435.6	1445.2	1472.7	1501.5	1478.2	1453.4	1438.4
42.5°	1443.8	1456.2	1430.1	1394.4	1386.2	1402.7	1432.9	1453.4	1426.0	1398.5	1378.0
45°	1388.9	1419.1	1401.3	1361.5	1350.5	1369.7	1408.2	1416.4	1379.3	1353.3	1338.2
47.5°	1350.5	1391.7	1379.3	1340.9	1324.4	1351.9	1391.7	1390.3	1343.6	1316.2	1303.8
50°	1323.1	1375.2	1373.8	1340.9	1323.1	1357.4	1393.1	1375.2	1324.4	1295.6	1283.3
52.5°	1301.1	1373.8	1383.5	1364.2	1351.9	1382.1	1404.0	1369.7	1310.7	1280.5	1270.9
55°	1291.5	1379.3	1386.2	1368.4	1357.4	1384.8	1404.0	1380.7	1310.7	1283.3	1275.0
57.5°	1294.2	1372.5	1373.8	1349.1	1329.9	1364.2	1394.4	1387.6	1325.8	1294.2	1284.6
60°	1277.8	1335.4	1338.2	1299.7	1277.8	1318.9	1372.5	1368.4	1318.9	1286.0	1268.2
62.5°	1222.9	1273.7	1275.0	1239.3	1207.8	1266.8	1325.8	1324.4	1279.1	1246.2	1225.6
65°	1130.9	1184.4	1198.2	1163.9	1139.2	1202.3	1264.0	1261.3	1216.0	1185.8	1165.2
67.5°	1017.0	1074.6	1100.7	1077.4	1067.8	1125.4	1183.1	1181.7	1144.6	1115.8	1098.0
70°	878.4	926.4	970.3	970.3	963.5	1029.4	1091.1	1085.6	1051.3	1029.4	1015.6
72.5°	763.1	800.2	813.9	827.6	848.2	916.8	969.0	973.1	948.4	937.4	948.4
75°	649.2	672.5	684.9	673.9	709.6	780.9	849.6	856.4	830.3	812.5	816.6
77.5°	533.9	560.0	572.3	547.6	544.9	635.5	719.2	734.3	712.3	684.9	693.1
80°	385.7	420.0	440.6	424.1	418.6	458.4	573.7	590.2	569.6	547.6	560.0
82.5°	236.1	255.3	260.8	277.2	311.6	328.0	369.2	424.1	409.0	389.8	424.1
85°	93.3	111.2	123.5	140.0	163.3	193.5	227.8	271.7	247.0	238.8	281.4
87.5°	5.5	1.4	0.0	2.7	23.3	45.3	97.4	134.5	112.5	120.8	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°	359°	360°
0°	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9	2405.9
2.5°	2227.5	2263.2	2311.2	2351.0	2401.8	2449.9	2499.3	2548.7	2574.8	2585.7
5°	2069.7	2135.6	2212.4	2297.5	2396.3	2500.6	2606.3	2714.7	2783.4	2788.9
7.5°	1975.0	2069.7	2175.4	2282.4	2404.6	2548.7	2716.1	2883.6	2953.6	2972.8
10°	2005.2	2110.9	2194.6	2294.8	2429.3	2609.1	2806.7	3003.0	3083.9	3107.3
12.5°	2126.0	2146.5	2172.6	2264.6	2429.3	2661.2	2900.0	3133.4	3219.8	3241.8
15°	2226.1	2127.3	2080.7	2178.1	2396.3	2706.5	2998.9	3256.9	3361.2	3381.8
17.5°	2234.4	2064.2	1962.6	2050.5	2338.7	2738.1	3093.6	3394.1	3482.0	3501.2
20°	2150.7	1996.9	1865.2	1918.7	2260.5	2751.8	3162.2	3494.3	3580.8	3600.0
22.5°	2056.0	1942.0	1799.3	1796.6	2165.8	2766.9	3244.5	3589.0	3682.3	3694.7
25°	1966.8	1866.6	1745.8	1707.4	2056.0	2795.7	3355.7	3731.7	3803.1	3807.2
27.5°	1862.4	1785.6	1703.2	1666.2	1959.9	2850.6	3520.4	3901.9	3944.5	3937.6
30°	1767.7	1710.1	1673.0	1662.1	1899.5	2891.8	3676.9	4069.4	4072.1	4048.8
32.5°	1667.6	1645.6	1645.6	1681.3	1850.1	2882.2	3804.5	4232.7	4206.6	4172.3
35°	1578.3	1582.5	1611.3	1695.0	1767.7	2786.1	3926.6	4437.2	4398.8	4349.4
37.5°	1493.2	1524.8	1566.0	1647.0	1659.3	2643.4	4069.4	4726.8	4678.8	4617.0
40°	1420.5	1468.5	1516.6	1556.4	1544.0	2440.3	4268.4	5067.2	5013.6	4942.3
42.5°	1362.9	1409.5	1463.1	1467.2	1471.3	2228.9	4479.7	5484.4	5474.8	5396.6
45°	1325.8	1356.0	1406.8	1399.9	1467.2	1995.6	4674.6	6121.2	6247.5	6188.5
47.5°	1301.1	1324.4	1329.9	1358.7	1502.9	1787.0	4925.8	7367.4	7718.8	7651.5
50°	1287.4	1310.7	1248.9	1361.5	1508.3	1652.5	5273.0	8932.0	9497.5	9408.3
52.5°	1286.0	1280.5	1187.2	1390.3	1478.2	1570.1	5454.2	10073.9	11328.4	11521.9
55°	1288.8	1220.1	1155.6	1398.5	1417.8	1539.9	4847.6	10622.9	13017.9	13426.9
57.5°	1264.0	1154.2	1173.5	1365.6	1303.8	1620.9	3583.5	10426.7	13693.1	14453.5
60°	1217.4	1091.1	1206.4	1276.4	1187.2	1482.3	2467.7	9551.0	12993.2	13775.5
62.5°	1150.1	1047.2	1202.3	1161.1	1144.6	1213.3	1696.4	8325.4	11882.9	12647.3
65°	1074.6	1011.5	1137.8	1049.9	1059.5	933.3	1199.5	6942.0	10557.1	11309.2
67.5°	993.7	989.6	1043.1	934.7	894.9	739.8	874.3	5564.0	8853.8	9531.8
70°	901.7	931.9	948.4	830.3	726.0	580.6	649.2	3891.0	6531.6	7121.8
72.5°	809.8	812.5	835.8	721.9	543.5	465.3	487.2	2356.5	4437.2	4866.8
75°	716.4	690.4	712.3	587.4	404.9	381.5	376.1	1456.2	3064.7	3403.7
77.5°	616.2	587.4	558.6	441.9	325.3	295.1	288.2	816.6	1880.3	2088.9
80°	501.0	462.5	417.2	323.9	237.4	211.4	210.0	398.0	937.4	1044.5
82.5°	389.8	317.0	304.7	201.8	146.9	129.0	137.2	152.3	282.7	315.7
85°	273.1	230.6	162.0	81.0	65.9	53.5	52.2	45.3	75.5	83.7
87.5°	152.3	100.2	52.2	9.6	11.0	12.4	9.6	6.9	6.9	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)