

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: P641727

Luminaire Tested: GWS-SA6B-740-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641727
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-SA6B-740-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19843.7 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

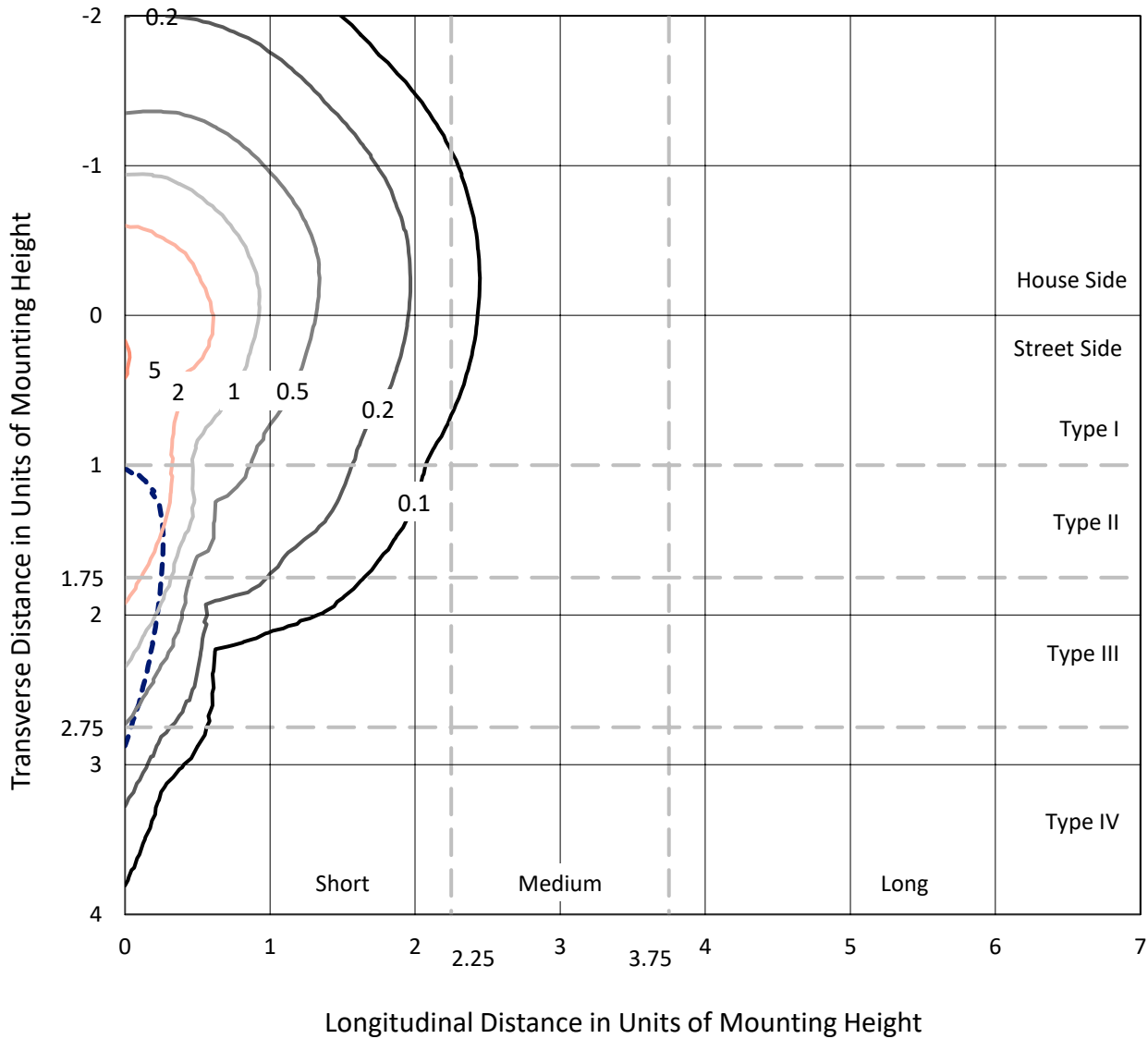
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

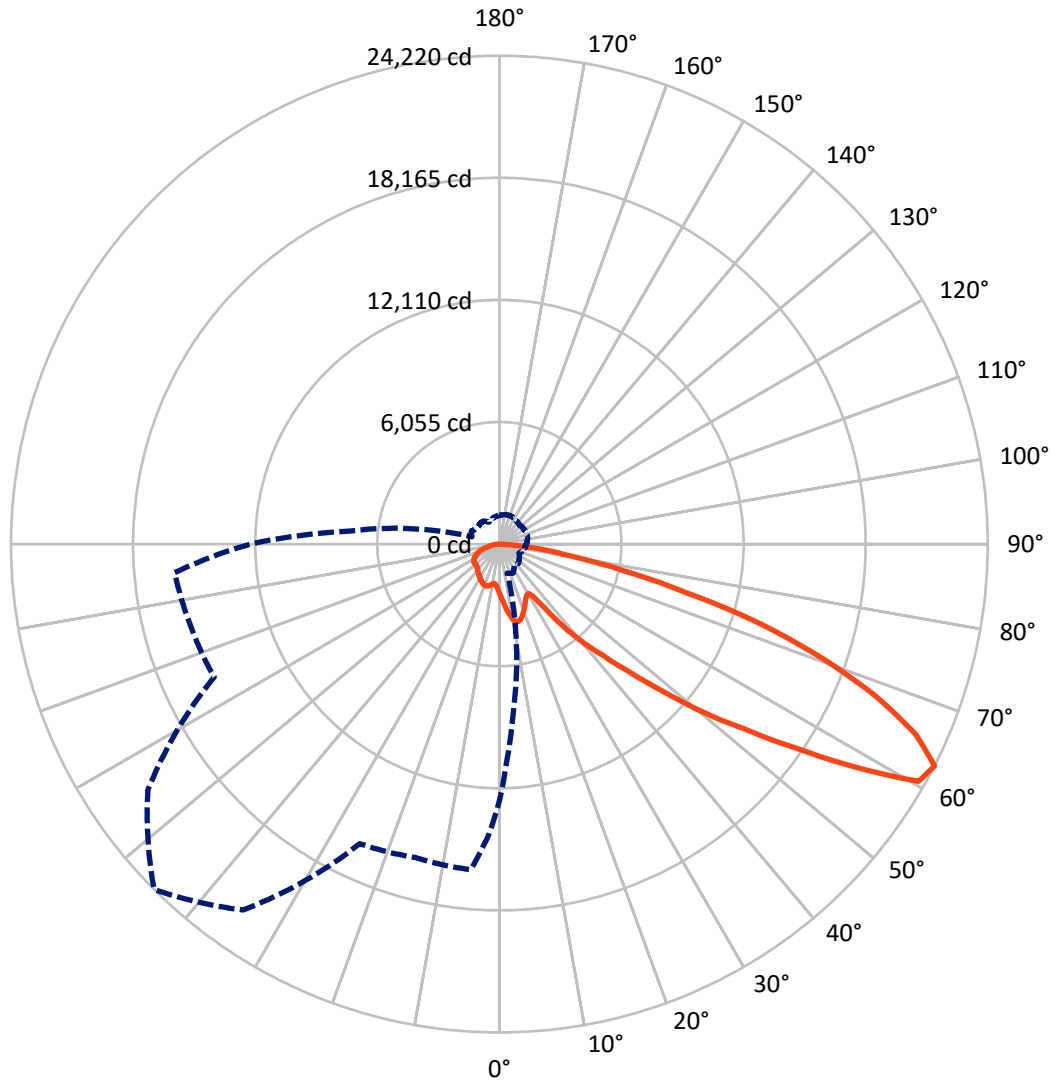
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	4744.7	0.0	4744.7
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	15099.0	0.0	15099.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	19843.7	0.0	19843.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.7	1.2
10°-20°	792.1	4.0
20°-30°	1247.0	6.3
30°-40°	1709.3	8.6
40°-50°	2667.0	13.4
50°-60°	4598.4	23.2
60°-70°	5329.0	26.9
70°-80°	2812.9	14.2
80°-90°	444.3	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°	19843.7	100.0
0°-180°	19843.7	100.0

Coefficient of Utilization



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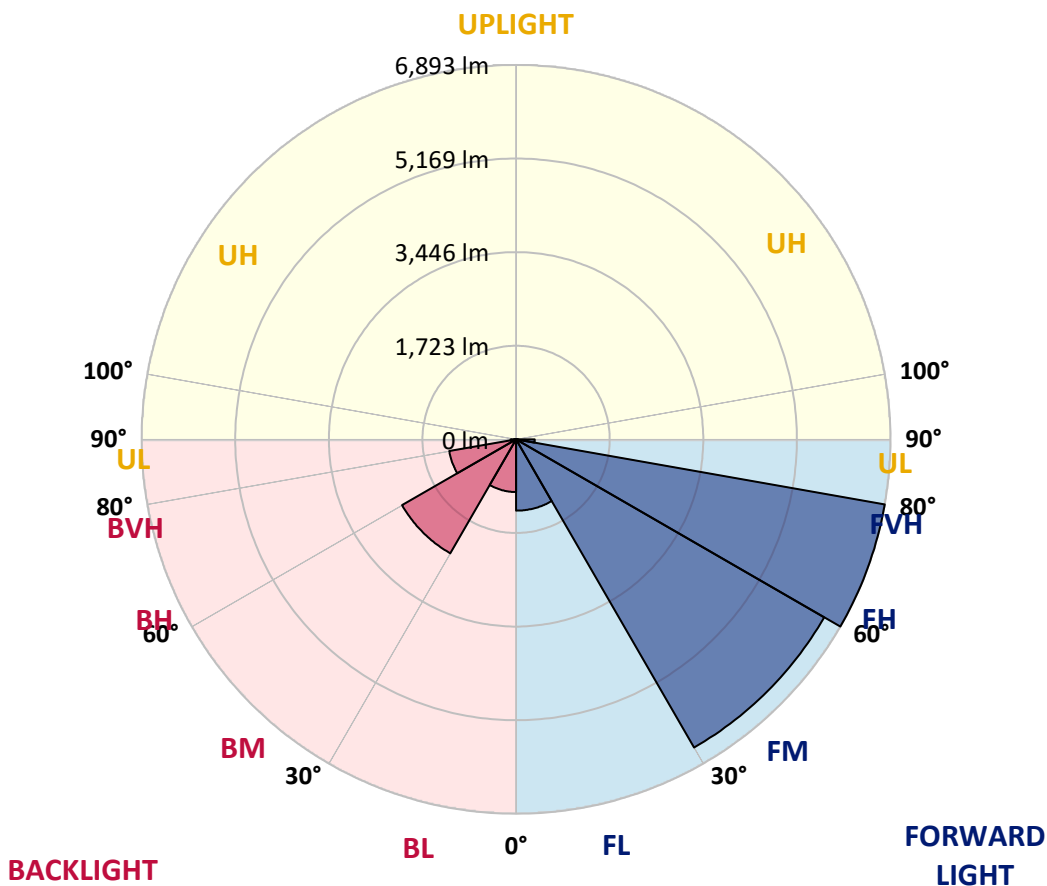
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1312.4	6.6			
FM (30°-60°)	6551.1	33.0			
FH (60°-80°)	6892.6	34.7			G3/7500
FVH (80°-90°)	343.0	1.7			G3/500
BL (0°-30°)	970.5	4.9	B2/1000		
BM (30°-60°)	2423.5	12.2	B2/2500		
BH (60°-80°)	1249.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	101.4	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1
2.5°	2688.1	2677.5	2662.3	2610.7	2578.8	2542.4	2504.5	2460.4	2410.3	2375.4	2340.5
5°	2915.8	2899.1	2862.7	2739.7	2654.7	2562.1	2484.7	2396.7	2310.2	2251.0	2191.8
7.5°	3134.4	3113.1	3057.0	2868.7	2730.6	2597.0	2480.2	2352.7	2223.7	2135.6	2065.8
10°	3352.9	3308.9	3237.6	2991.7	2809.5	2654.7	2521.2	2364.8	2193.3	2073.4	1999.0
12.5°	3519.9	3478.9	3401.5	3104.0	2888.5	2694.2	2543.9	2399.7	2254.0	2126.5	2050.6
15°	3676.2	3623.1	3535.1	3208.7	2953.7	2692.7	2498.4	2372.4	2351.2	2319.3	2220.6
17.5°	3788.6	3740.0	3648.9	3293.7	2990.2	2645.6	2372.4	2298.0	2393.7	2490.8	2396.7
20°	3887.2	3831.1	3738.5	3352.9	2997.8	2540.9	2219.1	2220.6	2370.9	2504.5	2481.7
22.5°	3970.7	3908.5	3826.5	3419.7	2994.7	2395.2	2085.5	2176.6	2326.9	2431.6	2434.6
25°	4073.9	4022.3	3954.0	3518.4	2994.7	2246.4	1988.4	2123.5	2252.5	2340.5	2337.5
27.5°	4199.9	4165.0	4108.8	3668.6	3022.0	2122.0	1933.7	2055.2	2156.9	2232.8	2231.2
30°	4341.1	4309.2	4266.7	3828.0	3069.1	2029.4	1903.4	1970.2	2044.5	2105.3	2105.3
32.5°	4485.3	4473.1	4427.6	3955.5	3032.7	2000.5	1877.6	1885.2	1924.6	1974.7	1970.2
35°	4685.6	4673.5	4615.8	4054.2	2874.8	1959.5	1836.6	1798.7	1803.2	1835.1	1845.7
37.5°	4978.6	4960.3	4875.3	4169.5	2636.5	1856.3	1769.8	1707.6	1693.9	1707.6	1727.3
40°	5332.2	5304.9	5189.5	4325.9	2361.8	1716.7	1665.1	1613.5	1590.7	1595.3	1618.0
42.5°	5775.4	5717.7	5552.3	4491.3	2090.1	1593.7	1548.2	1516.3	1490.5	1487.5	1531.5
45°	6494.9	6337.0	6074.4	4638.6	1860.9	1528.5	1443.5	1420.7	1399.5	1411.6	1463.2
47.5°	7751.7	7460.2	6948.7	4764.5	1721.2	1530.0	1360.0	1335.7	1334.2	1358.5	1416.2
50°	9479.0	9058.5	8269.3	4849.5	1648.4	1548.2	1309.9	1270.4	1299.3	1323.6	1378.2
52.5°	11133.4	10491.4	9551.8	4848.0	1616.5	1551.2	1323.6	1209.7	1299.3	1305.4	1357.0
55°	12546.6	11383.9	9897.9	4350.2	1571.0	1539.1	1376.7	1162.7	1282.6	1305.4	1346.3
57.5°	13669.8	11951.6	9872.1	3513.8	1709.1	1472.3	1408.6	1152.0	1234.0	1308.4	1355.4
60°	13545.3	11692.0	9236.1	2156.9	1695.4	1353.9	1404.0	1171.8	1152.0	1267.4	1344.8
62.5°	12718.1	10761.6	8141.8	1496.6	1592.2	1285.6	1329.6	1206.7	1076.2	1208.2	1293.2
65°	11560.0	9560.9	6784.8	1147.5	1319.0	1288.7	1203.7	1182.4	1009.4	1114.1	1205.2
67.5°	10028.4	8071.9	5356.5	909.2	919.8	1115.6	1092.9	1050.4	947.1	1030.6	1112.6
70°	7539.2	5890.8	3685.3	731.6	696.7	932.0	982.1	944.1	886.4	910.7	997.2
72.5°	5312.5	3846.2	2018.7	579.8	537.3	716.4	853.0	847.0	783.2	801.4	886.4
75°	3947.9	2721.5	1261.3	458.4	437.1	513.0	714.9	733.1	680.0	701.2	766.5
77.5°	2627.4	1762.2	701.2	340.0	340.0	374.9	532.8	617.8	578.3	595.0	640.5
80°	1449.5	897.1	350.6	223.1	229.2	258.0	388.6	444.7	446.2	487.2	499.4
82.5°	458.4	285.4	156.3	130.5	122.9	147.2	250.4	318.7	297.5	379.5	349.1
85°	104.7	66.8	28.8	28.8	31.9	48.6	95.6	170.0	217.1	261.1	189.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	66.8	98.7	88.0
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°	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1
2.5°	2319.3	2288.9	2279.8	2254.0	2251.0	2226.7	2217.6	2217.6	2228.2	2228.2	2238.8
5°	2167.5	2129.5	2108.3	2077.9	2070.3	2052.1	2040.0	2041.5	2055.2	2064.3	2082.5
7.5°	2033.9	2008.1	1992.9	1979.3	1976.2	1973.2	1959.5	1958.0	1962.6	1976.2	1989.9
10°	1977.8	1959.5	1964.1	1974.7	1991.4	2000.5	1988.4	1982.3	1977.8	1986.9	1999.0
12.5°	2032.4	2014.2	2023.3	2041.5	2064.3	2073.4	2068.8	2067.3	2071.9	2106.8	2132.6
15°	2152.3	2117.4	2105.3	2112.8	2131.1	2140.2	2135.6	2141.7	2170.5	2261.6	2326.9
17.5°	2301.1	2216.1	2167.5	2153.8	2161.4	2169.0	2169.0	2184.2	2234.3	2367.8	2449.8
20°	2381.5	2270.7	2188.7	2155.3	2158.4	2166.0	2166.0	2187.2	2243.4	2386.1	2439.2
22.5°	2360.3	2258.6	2158.4	2122.0	2123.5	2129.5	2129.5	2147.8	2197.8	2323.8	2348.1
25°	2276.8	2187.2	2088.6	2056.7	2059.7	2070.3	2067.3	2077.9	2115.9	2219.1	2232.8
27.5°	2176.6	2097.7	2000.5	1976.2	1989.9	2011.2	1992.9	1994.5	2029.4	2115.9	2117.4
30°	2068.8	2003.6	1917.0	1898.8	1924.6	1935.3	1918.6	1918.6	1953.5	2012.7	2011.2
32.5°	1952.0	1911.0	1848.7	1829.0	1857.9	1874.5	1853.3	1856.3	1883.7	1923.1	1907.9
35°	1842.7	1821.4	1792.6	1778.9	1797.1	1812.3	1798.7	1804.7	1830.5	1841.2	1819.9
37.5°	1737.9	1734.9	1737.9	1737.9	1742.5	1747.0	1737.9	1753.1	1775.9	1762.2	1737.9
40°	1646.9	1659.0	1687.9	1680.3	1675.7	1680.3	1674.2	1700.0	1722.8	1698.5	1669.6
42.5°	1571.0	1593.7	1637.8	1637.8	1628.7	1631.7	1628.7	1660.5	1677.2	1643.8	1612.0
45°	1505.7	1539.1	1595.3	1602.9	1587.7	1587.7	1593.7	1633.2	1639.3	1593.7	1560.4
47.5°	1460.2	1501.2	1564.9	1578.6	1555.8	1554.3	1571.0	1613.5	1613.5	1560.4	1522.4
50°	1428.3	1473.8	1549.7	1567.9	1545.2	1539.1	1566.4	1607.4	1598.3	1534.5	1496.6
52.5°	1407.0	1454.1	1548.2	1574.0	1558.8	1552.8	1580.1	1608.9	1586.2	1517.9	1478.4
55°	1393.4	1445.0	1552.8	1574.0	1557.3	1546.7	1574.0	1599.8	1587.7	1508.7	1470.8
57.5°	1401.0	1452.6	1546.7	1557.3	1537.6	1519.4	1551.2	1587.7	1583.1	1511.8	1473.8
60°	1388.8	1435.9	1513.3	1516.3	1482.9	1454.1	1501.2	1555.8	1555.8	1501.2	1467.8
62.5°	1332.7	1379.7	1448.0	1451.1	1413.1	1381.2	1435.9	1501.2	1499.6	1455.6	1420.7
65°	1240.1	1284.1	1361.5	1369.1	1331.2	1297.8	1353.9	1414.6	1419.2	1379.7	1349.4
67.5°	1138.4	1177.9	1235.5	1265.9	1234.0	1199.1	1250.7	1308.4	1306.9	1259.8	1227.9
70°	1017.0	1053.4	1106.5	1132.3	1112.6	1079.2	1126.2	1156.6	1142.9	1120.2	1098.9
72.5°	897.1	932.0	982.1	982.1	960.8	928.9	942.6	997.2	1013.9	997.2	983.6
75°	771.1	801.4	836.3	843.9	796.9	739.2	802.9	850.0	869.7	862.1	845.4
77.5°	642.1	664.8	716.4	702.8	614.7	584.4	636.0	705.8	719.5	714.9	692.1
80°	494.8	508.5	563.1	535.8	467.5	447.8	470.5	525.2	528.2	513.0	484.2
82.5°	332.4	350.6	387.1	333.9	332.4	314.2	296.0	302.1	329.4	326.3	306.6
85°	170.0	179.1	214.0	200.4	171.5	148.7	141.2	150.3	135.1	122.9	106.2
87.5°	71.3	77.4	106.2	59.2	18.2	0.0	0.0	9.1	13.7	19.7	21.2
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°	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1
2.5°	2263.1	2279.8	2320.8	2372.4	2422.5	2474.1	2530.3	2565.2	2607.7	2662.3	2663.8
5°	2105.3	2143.2	2202.4	2281.3	2363.3	2457.4	2566.7	2657.8	2767.0	2853.6	2888.5
7.5°	2008.1	2062.8	2137.1	2237.3	2345.1	2462.0	2604.6	2757.9	2937.0	3052.4	3120.7
10°	2017.2	2100.7	2175.1	2260.1	2357.2	2483.2	2666.9	2870.3	3090.3	3242.1	3327.1
12.5°	2179.6	2267.7	2254.0	2249.5	2314.7	2468.0	2717.0	2984.1	3252.8	3404.5	3506.2
15°	2384.5	2417.9	2288.9	2191.8	2231.2	2413.4	2744.3	3085.8	3387.8	3573.0	3673.2
17.5°	2489.3	2422.5	2266.2	2120.4	2109.8	2329.9	2757.9	3189.0	3539.6	3724.8	3831.1
20°	2440.7	2343.6	2211.5	2073.4	1997.5	2216.1	2750.3	3271.0	3677.8	3884.2	3970.7
22.5°	2336.0	2251.0	2147.8	2015.7	1906.4	2091.6	2730.6	3352.9	3800.7	4008.6	4084.5
25°	2222.1	2158.4	2073.4	1958.0	1854.8	1982.3	2717.0	3462.2	3941.9	4140.7	4189.3
27.5°	2108.3	2061.2	1991.4	1901.9	1842.7	1906.4	2721.5	3604.9	4124.0	4312.2	4292.5
30°	1996.0	1955.0	1906.4	1867.0	1841.2	1888.2	2709.4	3756.7	4324.4	4498.9	4382.0
32.5°	1889.7	1851.8	1821.4	1827.5	1842.7	1895.8	2647.1	3894.8	4508.0	4656.8	4479.2
35°	1798.7	1759.2	1759.2	1780.4	1836.6	1870.0	2486.2	4002.6	4711.4	4860.2	4617.3
37.5°	1713.7	1678.7	1701.5	1736.4	1789.5	1800.2	2279.8	4107.3	5007.4	5147.0	4831.3
40°	1639.3	1604.4	1645.4	1689.4	1716.7	1712.1	2070.3	4253.0	5356.5	5500.7	5115.2
42.5°	1580.1	1548.2	1584.6	1640.8	1645.4	1649.9	1917.0	4392.7	5761.8	5945.4	5603.9
45°	1531.5	1508.7	1527.0	1583.1	1583.1	1652.9	1821.4	4509.5	6371.9	6696.8	6501.0
47.5°	1493.6	1479.9	1489.0	1507.2	1537.6	1707.6	1760.7	4599.1	7483.0	8120.5	7923.2
50°	1472.3	1458.7	1470.8	1432.9	1523.9	1734.9	1741.0	4667.4	8947.7	9946.5	9702.1
52.5°	1454.1	1449.5	1457.1	1369.1	1554.3	1716.7	1725.8	4576.3	9929.8	11743.6	11985.0
55°	1448.0	1451.1	1414.6	1322.0	1590.7	1656.0	1680.3	3925.2	10196.9	13293.3	14791.5
57.5°	1451.1	1442.0	1349.4	1326.6	1592.2	1534.5	1745.5	2800.4	9808.4	13967.3	17537.3
60°	1440.4	1394.9	1270.4	1367.6	1522.4	1391.9	1698.5	1826.0	8783.8	13449.7	17696.6
62.5°	1393.4	1326.6	1202.1	1390.4	1397.9	1306.9	1542.1	1407.0	7417.7	12341.7	16160.6
65°	1325.1	1235.5	1144.5	1343.3	1272.0	1267.4	1159.6	1127.8	5965.2	11022.6	14703.4
67.5°	1212.8	1123.2	1102.0	1235.5	1144.5	1123.2	932.0	935.0	4760.0	9617.1	13238.7
70°	1085.3	995.7	1012.4	1117.1	1018.5	933.5	754.4	778.7	3611.0	8012.7	11264.0
72.5°	1001.8	881.9	883.4	983.6	895.5	755.9	620.8	642.1	2292.0	6039.5	8955.3
75°	845.4	777.1	743.7	796.9	760.4	588.9	522.1	517.6	1358.5	4328.9	6705.9
77.5°	705.8	652.7	636.0	657.2	567.7	435.6	420.4	412.9	769.6	2773.1	4394.2
80°	511.5	497.9	496.3	507.0	437.1	320.3	320.3	321.8	414.4	1505.7	2477.1
82.5°	324.8	355.2	314.2	349.1	297.5	227.7	212.5	241.3	238.3	642.1	1044.3
85°	135.1	185.2	173.0	183.7	141.2	124.5	133.6	144.2	138.1	247.4	406.8
87.5°	25.8	30.4	33.4	31.9	31.9	39.5	44.0	53.1	53.1	71.3	122.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1	2474.1
2.5°	2721.5	2765.5	2756.4	2776.2	2750.3	2759.5	2707.8	2694.2	2685.1	2688.1
5°	3000.8	3090.3	3107.0	3140.4	3117.7	3117.7	3026.6	2958.3	2934.0	2915.8
7.5°	3284.6	3413.6	3498.6	3507.8	3495.6	3471.3	3339.3	3216.3	3172.3	3134.4
10°	3536.6	3691.4	3787.0	3832.6	3809.8	3771.9	3607.9	3439.5	3386.3	3352.9
12.5°	3729.4	3866.0	3929.7	3960.1	3957.0	3943.4	3809.8	3627.7	3571.5	3519.9
15°	3853.8	3922.1	3897.8	3896.3	3917.6	3972.2	3931.2	3788.6	3723.3	3676.2
17.5°	3934.3	3869.0	3761.2	3711.1	3756.7	3885.7	3979.8	3899.4	3840.2	3788.6
20°	3963.1	3730.9	3574.5	3482.0	3535.1	3721.8	3954.0	3979.8	3929.7	3887.2
22.5°	3929.7	3562.4	3349.9	3240.6	3292.2	3515.3	3878.1	4045.1	4011.7	3970.7
25°	3847.8	3386.3	3131.3	3032.7	3088.8	3316.5	3743.0	4105.8	4107.3	4073.9
27.5°	3746.1	3223.9	2978.0	2885.4	2940.1	3152.6	3611.0	4158.9	4212.0	4199.9
30°	3642.8	3126.8	2905.2	2839.9	2880.9	3069.1	3475.9	4213.6	4319.8	4341.1
32.5°	3595.8	3173.8	3076.7	3105.5	3052.4	3117.7	3427.3	4291.0	4450.3	4485.3
35°	3658.0	3591.2	3837.1	3951.0	3762.8	3515.3	3489.5	4407.8	4634.0	4685.6
37.5°	3960.1	4485.3	4852.6	5253.3	4926.9	4382.0	3797.7	4606.7	4896.6	4978.6
40°	4617.3	5265.4	5928.7	6446.3	5953.0	5219.9	4383.6	4902.7	5257.8	5332.2
42.5°	5236.6	5997.0	6910.8	7580.2	6939.6	5904.4	5015.0	5400.5	5734.4	5775.4
45°	5843.7	6715.0	8099.3	9029.7	8160.0	6555.6	5660.1	6241.4	6493.4	6494.9
47.5°	6555.6	7524.0	9589.8	10914.9	9779.5	7276.6	6265.7	7572.6	7923.2	7751.7
50°	7407.1	8328.5	11124.3	13108.2	11754.2	8163.0	7035.2	9195.1	9673.3	9479.0
52.5°	8547.0	9214.9	12815.2	15246.8	13906.6	9172.4	8150.9	11338.4	11496.2	11133.4
55°	10151.4	10494.4	14985.8	17887.9	16309.3	10415.5	9782.6	14028.0	13586.3	12546.6
57.5°	13804.9	12519.2	17772.5	20900.8	19027.8	12674.1	13358.6	16993.9	15422.9	13669.8
60°	16861.8	14978.2	20351.4	23891.0	21357.7	15163.3	16716.1	17509.9	15354.6	13545.3
62.5°	15831.2	15605.0	21281.8	24220.4	22153.0	16388.2	16092.3	16209.1	14352.8	12718.1
65°	13889.9	14395.3	20451.5	22658.5	21271.2	15290.8	14556.2	15007.0	13206.8	11560.0
67.5°	12743.9	13115.8	18974.7	20158.6	19668.3	14103.9	13361.6	13035.3	11427.9	10028.4
70°	11572.1	11880.2	16901.3	17021.2	17168.4	12130.7	10925.5	9954.1	8518.2	7539.2
72.5°	9999.6	10016.3	14280.0	13584.8	13864.1	9492.6	8794.4	7442.0	6200.4	5312.5
75°	8389.2	7930.8	11303.4	9495.7	10055.8	7384.3	7302.4	5608.5	4676.5	3947.9
77.5°	6396.2	5860.4	8257.1	6244.4	7062.6	4917.8	5490.1	3803.7	3290.7	2627.4
80°	4294.0	3960.1	4562.7	3524.5	4620.3	3389.4	3580.6	2155.3	1868.5	1449.5
82.5°	2264.6	1933.7	2820.2	2090.1	2786.8	1862.4	1343.3	666.3	567.7	458.4
85°	877.3	1015.4	1382.8	743.7	1080.7	664.8	388.6	165.4	138.1	104.7
87.5°	170.0	262.6	144.2	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)