

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: P639366

Luminaire Tested: GWS-SA5B-760-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639366
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-SA5B-760-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16961.5 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

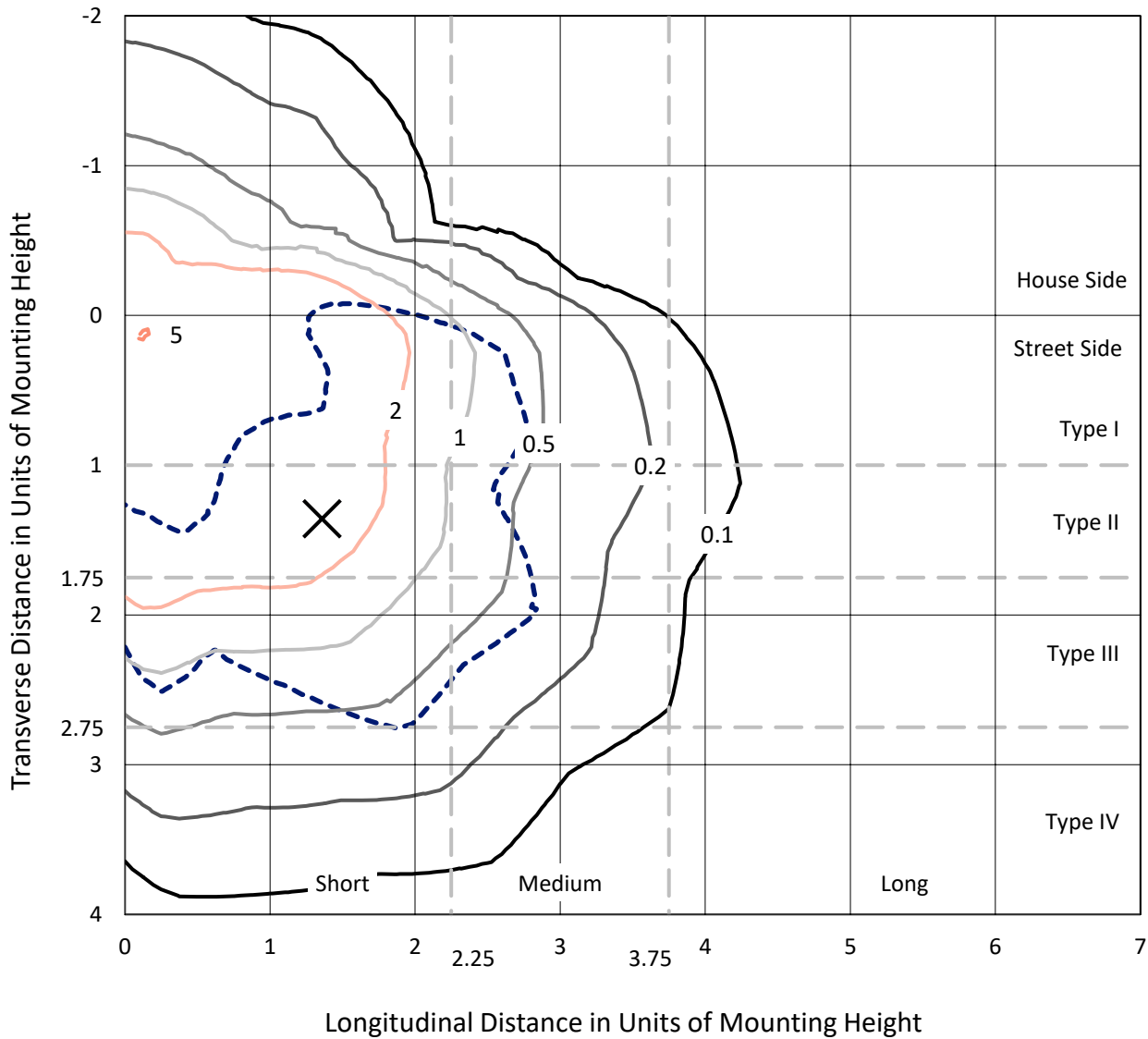
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

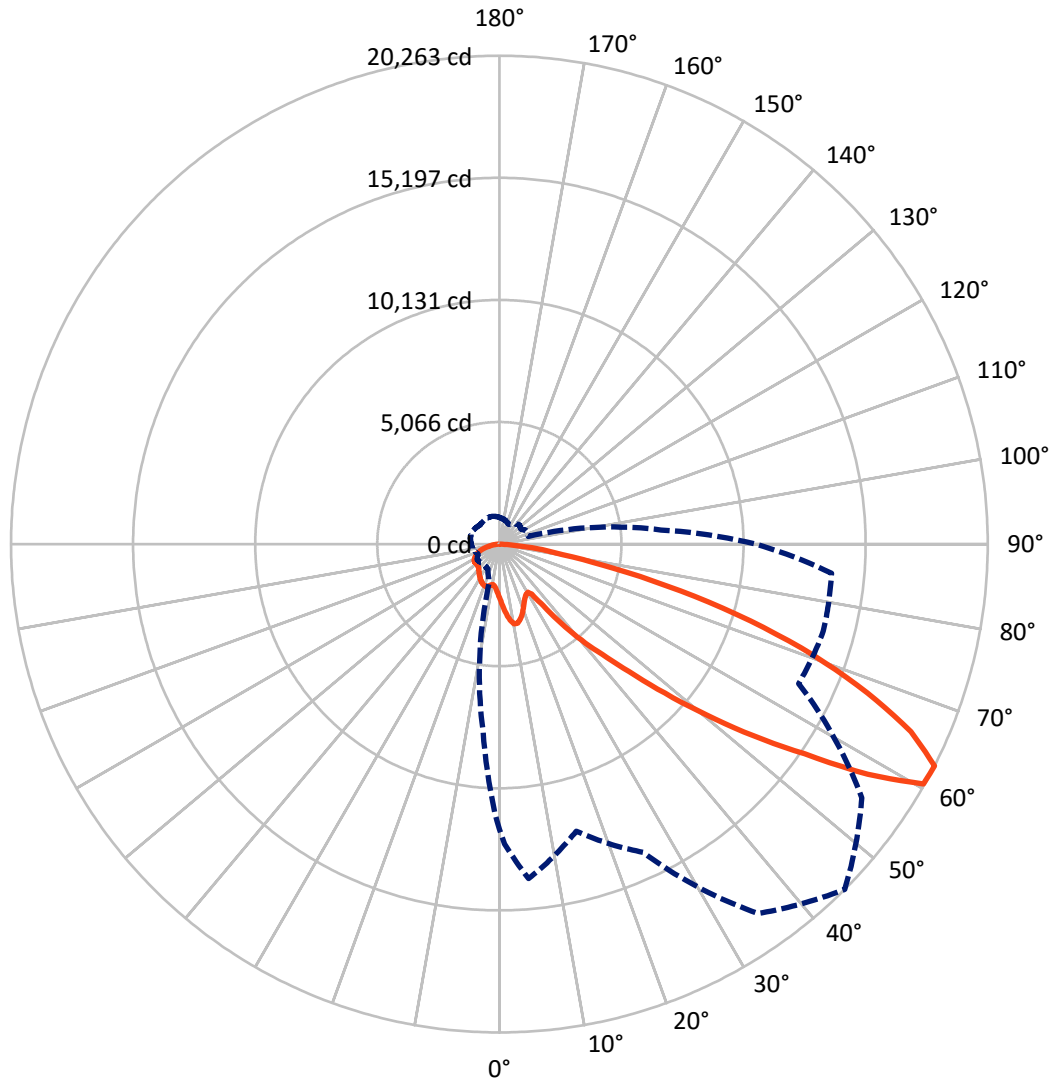
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4047.3	0.0	4047.3
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	12914.2	0.0	12914.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	16961.5	0.0	16961.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.3
10°-20°	689.2	4.1
20°-30°	1070.5	6.3
30°-40°	1453.4	8.6
40°-50°	2303.6	13.6
50°-60°	4063.5	24.0
60°-70°	4521.3	26.7
70°-80°	2293.0	13.5
80°-90°	347.2	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°	16961.5	100.0
0°-180°	16961.5	100.0

Coefficient of Utilization



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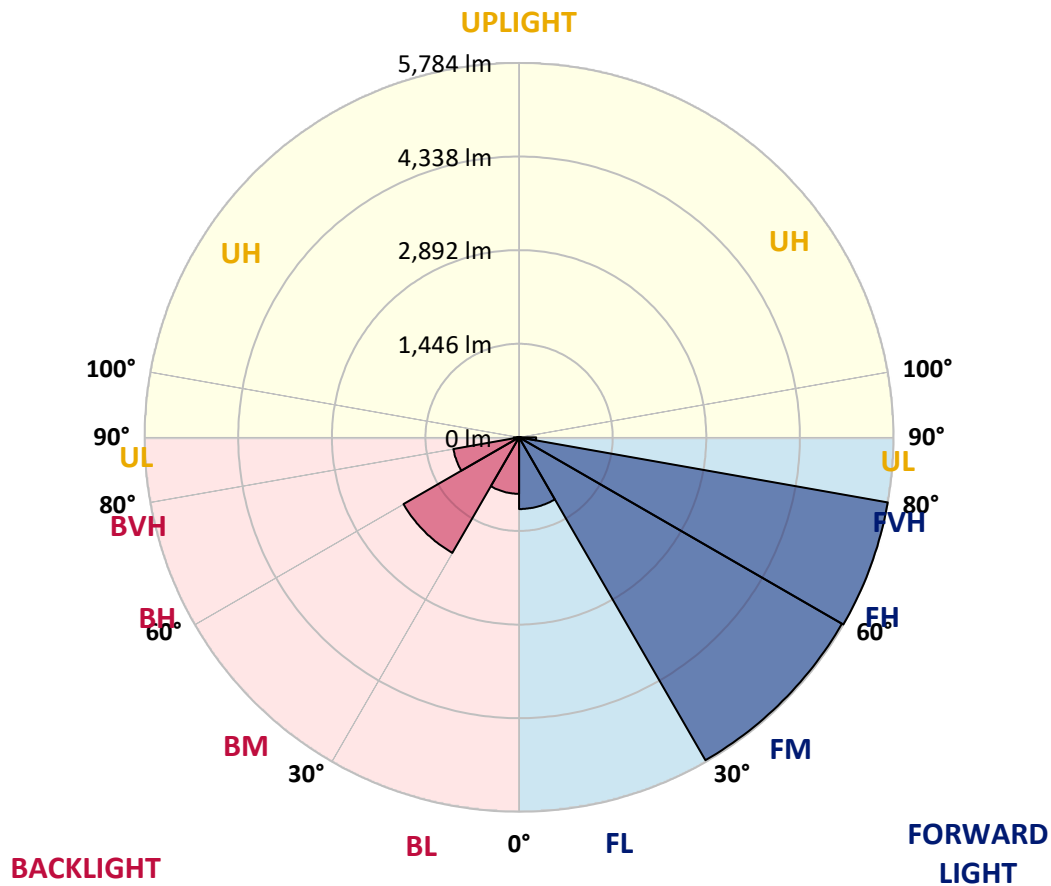
CATALOG NUMBER: GWS-SA5B-760-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1107.4	6.5			
FM (30°-60°)	5759.2	34.0			
FH (60°-80°)	5784.0	34.1			G3/7500
FVH (80°-90°)	263.5	1.6			G3/500
BL (0°-30°)	872.1	5.1	B2/1000		
BM (30°-60°)	2061.3	12.2	B2/2500		
BH (60°-80°)	1030.2	6.1	B3/2500		G3/2500
BVH (80°-90°)	83.7	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°	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1
2.5°	2419.4	2418.1	2442.5	2479.7	2514.4	2529.8	2555.5	2552.9	2532.4	2505.4	2496.4
5°	2609.4	2614.6	2656.9	2739.1	2830.3	2868.8	2885.5	2879.1	2841.9	2794.3	2710.9
7.5°	2781.5	2790.5	2856.0	2979.3	3092.3	3143.6	3184.7	3177.0	3123.1	3034.5	2911.2
10°	2907.3	2917.6	2996.0	3141.1	3266.9	3311.9	3364.5	3367.1	3319.6	3200.1	3074.3
12.5°	3033.2	3043.5	3116.7	3248.9	3331.1	3332.4	3363.2	3379.9	3382.5	3327.3	3201.4
15°	3164.2	3173.2	3239.9	3314.4	3310.6	3238.7	3238.7	3270.8	3341.4	3381.2	3293.9
17.5°	3275.9	3287.5	3338.8	3314.4	3200.1	3070.4	3055.0	3096.1	3219.4	3372.2	3363.2
20°	3368.4	3377.3	3405.6	3243.8	3035.8	2866.3	2836.7	2884.2	3051.2	3317.0	3415.9
22.5°	3457.0	3462.1	3446.7	3151.3	2858.5	2664.6	2628.7	2678.8	2858.5	3219.4	3460.8
25°	3562.3	3557.1	3483.9	3055.0	2696.7	2505.4	2468.2	2524.7	2712.2	3089.7	3509.6
27.5°	3684.3	3665.0	3516.0	2951.0	2572.2	2387.3	2361.6	2421.9	2596.6	2970.3	3548.1
30°	3788.3	3751.0	3521.2	2858.5	2508.0	2337.2	2321.8	2378.3	2540.1	2889.4	3596.9
32.5°	3903.9	3852.5	3550.7	2834.1	2543.9	2457.9	2478.4	2482.3	2555.5	2866.3	3670.1
35°	4069.5	4002.7	3631.6	2904.8	2913.8	3058.9	3133.4	3033.2	2787.9	2917.6	3808.8
37.5°	4319.9	4235.2	3796.0	3210.4	3677.8	4002.7	4182.5	3953.9	3494.2	3111.5	4018.1
40°	4624.3	4516.4	4006.6	3775.4	4391.8	4911.9	5231.7	4896.5	4221.0	3595.7	4312.2
42.5°	5049.3	4936.3	4415.0	4330.2	5053.2	5827.5	6244.9	5745.3	4861.8	4221.0	4783.5
45°	5790.3	5681.1	5163.6	4886.2	5827.5	6955.0	7540.6	6845.9	5512.9	4849.0	5664.4
47.5°	7159.2	7030.8	6275.7	5502.6	6711.0	8419.0	9238.3	8226.3	6189.7	5568.1	7143.8
50°	8802.9	8679.7	7671.6	6232.0	7687.0	9984.4	11123.4	9848.2	6969.2	6442.6	8912.1
52.5°	10780.5	10757.4	9663.3	7154.1	8702.8	11653.8	13215.3	11644.8	7823.1	7620.2	10915.4
55°	12563.0	12789.0	12193.1	8560.2	10015.2	13750.8	15366.3	13604.4	8981.4	9567.0	13261.5
57.5°	13523.5	14130.9	15046.5	11429.0	11923.5	16257.5	18020.7	15996.8	10971.9	12808.2	15436.9
60°	12889.1	13577.5	15236.6	13589.0	13816.3	18265.9	20211.4	18007.8	12926.4	15058.1	15313.6
62.5°	11833.6	12451.2	13926.7	12328.0	14109.1	18707.7	20262.8	18358.4	13703.3	13916.5	13833.0
65°	10581.5	11204.3	12767.1	10761.3	13178.1	17658.5	18768.0	17327.2	12307.4	12573.2	12604.1
67.5°	8918.5	9493.8	11084.9	9568.3	12012.1	16118.8	16473.2	15858.1	11334.0	11757.8	11314.8
70°	6663.5	7182.3	8587.2	7775.6	10125.6	14112.9	13826.6	13917.8	10241.2	10662.4	9451.4
72.5°	4553.6	4944.0	6148.6	6110.0	7753.8	11298.1	10898.7	11762.9	8553.8	9112.4	7205.4
75°	3184.7	3489.1	4444.5	4827.2	5860.9	8374.0	7761.5	8804.2	6680.2	7477.7	5257.4
77.5°	1954.5	2156.1	2807.2	3576.4	3770.3	5731.2	4820.7	6625.0	4691.0	5453.8	3507.0
80°	977.2	1074.8	1363.8	2248.6	2500.3	3377.3	2662.1	3846.1	3174.5	3377.3	1940.4
82.5°	295.4	326.2	399.4	854.0	1295.7	1944.2	1573.1	2234.4	1733.6	1583.4	764.1
85°	78.3	88.6	110.4	253.0	454.6	697.3	531.6	1082.5	830.9	584.3	287.7
87.5°	6.4	6.4	5.1	5.1	2.6	0.0	0.0	77.0	155.4	88.6	50.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1
2.5°	2451.5	2446.3	2393.7	2355.2	2310.2	2266.5	2221.6	2181.8	2136.8	2091.9	2079.1
5°	2649.2	2613.3	2501.5	2407.8	2315.3	2234.4	2163.8	2090.6	2031.5	1973.8	1951.9
7.5°	2823.9	2761.0	2599.1	2456.6	2328.2	2228.0	2124.0	2017.4	1933.9	1851.8	1831.2
10°	2981.8	2898.4	2694.2	2514.4	2371.8	2257.6	2135.6	1993.0	1872.3	1772.1	1745.2
12.5°	3098.7	3007.5	2776.4	2569.6	2407.8	2279.4	2158.7	2032.8	1905.7	1776.0	1746.5
15°	3191.1	3096.1	2844.4	2612.0	2409.1	2243.4	2126.6	2082.9	2043.1	1916.0	1862.0
17.5°	3265.6	3165.5	2903.5	2637.7	2374.4	2134.3	2032.8	2097.0	2198.5	2118.9	2017.4
20°	3333.7	3232.2	2948.4	2655.6	2297.4	1984.0	1927.5	2063.6	2216.5	2213.9	2122.7
22.5°	3408.2	3309.3	3013.9	2665.9	2189.5	1831.2	1864.6	2014.9	2139.4	2176.7	2120.2
25°	3503.2	3415.9	3105.1	2689.0	2067.5	1725.9	1818.4	1951.9	2055.9	2064.9	2031.5
27.5°	3613.6	3548.1	3241.2	2743.0	1949.4	1672.0	1764.4	1863.3	1958.3	1962.2	1922.4
30°	3734.3	3690.7	3367.1	2787.9	1860.8	1655.3	1695.1	1774.7	1835.1	1845.3	1810.7
32.5°	3888.4	3849.9	3478.8	2758.4	1808.1	1651.4	1630.9	1672.0	1722.1	1722.1	1695.1
35°	4100.3	4046.4	3596.9	2645.4	1743.9	1636.0	1562.8	1574.4	1596.2	1600.1	1584.7
37.5°	4400.8	4312.2	3716.4	2421.9	1638.6	1580.8	1484.5	1470.4	1478.1	1488.3	1484.5
40°	4773.2	4628.1	3891.0	2153.5	1512.7	1474.2	1403.6	1376.6	1370.2	1390.7	1398.5
42.5°	5242.0	5019.8	4078.5	1903.1	1398.5	1352.2	1308.6	1285.4	1275.2	1309.8	1330.4
45°	5990.6	5624.6	4258.3	1655.3	1334.2	1248.2	1218.7	1202.0	1207.1	1248.2	1273.9
47.5°	7283.8	6547.9	4429.1	1498.6	1329.1	1173.7	1137.8	1141.6	1155.7	1199.4	1230.2
50°	8919.8	7784.6	4543.4	1433.1	1344.5	1128.8	1081.3	1101.8	1123.6	1166.0	1202.0
52.5°	10585.4	8936.5	4407.2	1397.2	1343.2	1130.1	1028.6	1090.3	1100.5	1142.9	1181.4
55°	11730.8	9064.9	3807.5	1342.0	1322.7	1181.4	987.5	1085.1	1091.5	1130.1	1164.7
57.5°	12167.4	8625.7	2903.5	1357.4	1261.0	1221.2	969.5	1049.2	1095.4	1128.8	1164.7
60°	11639.7	7797.4	1764.4	1397.2	1162.2	1218.7	981.1	983.7	1063.3	1119.8	1155.7
62.5°	10644.4	6734.1	1239.2	1284.2	1090.3	1150.6	1008.1	906.6	1006.8	1074.8	1106.9
65°	9504.1	5483.4	945.1	1105.7	1055.6	1045.3	1017.1	838.6	929.7	996.5	1024.8
67.5°	8316.2	4262.1	767.9	824.4	954.1	945.1	929.7	778.2	838.6	886.1	918.2
70°	6820.2	2981.8	648.5	619.0	818.0	847.5	812.9	702.4	721.7	770.5	796.2
72.5°	4989.0	1858.2	532.9	511.1	657.5	741.0	723.0	619.0	628.0	674.2	694.7
75°	3588.0	1063.3	427.6	421.2	502.1	634.4	598.4	532.9	543.2	577.9	592.0
77.5°	2280.7	592.0	330.0	339.0	359.6	473.9	511.1	455.9	455.9	476.4	488.0
80°	1221.2	339.0	241.4	245.3	251.7	362.1	403.2	353.1	353.1	339.0	353.1
82.5°	498.3	195.2	165.7	154.1	168.2	247.8	282.5	224.7	235.0	211.9	217.0
85°	164.4	97.6	82.2	80.9	79.6	109.2	136.1	111.7	133.6	84.8	88.6
87.5°	21.8	18.0	10.3	7.7	9.0	3.9	7.7	9.0	9.0	6.4	6.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1
2.5°	2070.1	2059.8	2022.6	2031.5	2025.1	2014.9	2025.1	2005.9	2021.3	2026.4	2058.5
5°	1935.2	1910.8	1874.9	1856.9	1853.0	1842.8	1844.1	1835.1	1837.6	1859.5	1895.4
7.5°	1814.5	1791.4	1763.2	1750.3	1738.8	1727.2	1725.9	1724.6	1734.9	1754.2	1788.8
10°	1727.2	1714.4	1702.8	1707.9	1702.8	1697.7	1688.7	1688.7	1705.4	1740.0	1782.4
12.5°	1727.2	1724.6	1727.2	1742.6	1741.3	1742.6	1731.1	1737.5	1783.7	1842.8	1903.1
15°	1819.7	1799.1	1799.1	1806.8	1804.2	1804.2	1804.2	1831.2	1936.5	2027.7	2091.9
17.5°	1932.7	1872.3	1846.6	1842.8	1841.5	1841.5	1846.6	1904.4	2068.8	2165.1	2202.3
20°	2011.0	1896.7	1854.3	1837.6	1838.9	1841.5	1856.9	1936.5	2117.6	2166.4	2157.4
22.5°	2025.1	1877.4	1826.1	1801.7	1805.5	1808.1	1831.2	1916.0	2050.8	2058.5	2040.5
25°	1959.6	1823.5	1768.3	1749.0	1754.2	1752.9	1773.4	1835.1	1931.4	1928.8	1918.5
27.5°	1862.0	1737.5	1696.4	1683.5	1692.5	1682.3	1688.7	1736.2	1810.7	1808.1	1804.2
30°	1761.9	1654.0	1616.8	1610.3	1621.9	1606.5	1607.8	1647.6	1698.9	1696.4	1695.1
32.5°	1661.7	1570.5	1537.1	1537.1	1548.7	1532.0	1534.6	1569.2	1603.9	1593.6	1593.6
35°	1566.7	1502.5	1475.5	1470.4	1479.4	1467.8	1472.9	1505.0	1517.9	1503.8	1494.8
37.5°	1483.2	1455.0	1428.0	1410.0	1411.3	1412.6	1428.0	1452.4	1444.7	1424.1	1412.6
40°	1406.2	1406.2	1380.5	1347.1	1343.2	1352.2	1377.9	1404.9	1383.0	1359.9	1345.8
42.5°	1350.9	1362.5	1338.1	1304.7	1297.0	1312.4	1340.7	1359.9	1334.2	1308.6	1289.3
45°	1299.6	1327.8	1311.1	1273.9	1263.6	1281.6	1317.6	1325.3	1290.6	1266.2	1252.1
47.5°	1263.6	1302.1	1290.6	1254.6	1239.2	1264.9	1302.1	1300.9	1257.2	1231.5	1220.0
50°	1237.9	1286.7	1285.4	1254.6	1237.9	1270.0	1303.4	1286.7	1239.2	1212.2	1200.7
52.5°	1217.4	1285.4	1294.4	1276.5	1264.9	1293.2	1313.7	1281.6	1226.4	1198.1	1189.1
55°	1208.4	1290.6	1297.0	1280.3	1270.0	1295.7	1313.7	1291.9	1226.4	1200.7	1193.0
57.5°	1211.0	1284.2	1285.4	1262.3	1244.4	1276.5	1304.7	1298.3	1240.5	1211.0	1202.0
60°	1195.6	1249.5	1252.1	1216.1	1195.6	1234.1	1284.2	1280.3	1234.1	1203.3	1186.6
62.5°	1144.2	1191.7	1193.0	1159.6	1130.1	1185.3	1240.5	1239.2	1196.8	1166.0	1146.8
65°	1058.2	1108.2	1121.1	1089.0	1065.9	1124.9	1182.7	1180.1	1137.8	1109.5	1090.3
67.5°	951.6	1005.5	1029.9	1008.1	999.1	1053.0	1106.9	1105.7	1071.0	1044.0	1027.3
70°	821.9	866.8	907.9	907.9	901.5	963.1	1020.9	1015.8	983.7	963.1	950.3
72.5°	714.0	748.7	761.5	774.4	793.6	857.8	906.6	910.5	887.4	877.1	887.4
75°	607.4	629.2	640.8	630.5	663.9	730.7	794.9	801.3	776.9	760.2	764.1
77.5°	499.5	523.9	535.5	512.4	509.8	594.6	672.9	687.0	666.5	640.8	648.5
80°	360.8	393.0	412.2	396.8	391.7	428.9	536.8	552.2	532.9	512.4	523.9
82.5°	220.9	238.9	244.0	259.4	291.5	306.9	345.4	396.8	382.7	364.7	396.8
85°	87.3	104.0	115.6	131.0	152.8	181.1	213.2	254.3	231.1	223.4	263.3
87.5°	5.1	1.3	0.0	2.6	21.8	42.4	91.2	125.8	105.3	113.0	136.1
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°	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1	2251.1
2.5°	2084.2	2117.6	2162.5	2199.8	2247.3	2292.2	2338.5	2384.7	2409.1	2419.4
5°	1936.5	1998.2	2070.1	2149.7	2242.1	2339.7	2438.6	2540.1	2604.3	2609.4
7.5°	1847.9	1936.5	2035.4	2135.6	2249.9	2384.7	2541.4	2698.0	2763.5	2781.5
10°	1876.2	1975.0	2053.4	2147.1	2273.0	2441.2	2626.1	2809.7	2885.5	2907.3
12.5°	1989.2	2008.4	2032.8	2118.9	2273.0	2490.0	2713.4	2931.7	3012.6	3033.2
15°	2082.9	1990.5	1946.8	2038.0	2242.1	2532.4	2805.9	3047.3	3144.9	3164.2
17.5°	2090.6	1931.4	1836.4	1918.5	2188.2	2561.9	2894.5	3175.7	3257.9	3275.9
20°	2012.3	1868.5	1745.2	1795.3	2115.0	2574.7	2958.7	3269.5	3350.4	3368.4
22.5°	1923.7	1817.1	1683.5	1681.0	2026.4	2588.9	3035.8	3358.1	3445.4	3457.0
25°	1840.2	1746.5	1633.5	1597.5	1923.7	2615.8	3139.8	3491.6	3558.4	3562.3
27.5°	1742.6	1670.7	1593.6	1559.0	1833.8	2667.2	3293.9	3650.9	3690.7	3684.3
30°	1654.0	1600.1	1565.4	1555.1	1777.3	2705.7	3440.3	3807.5	3810.1	3788.3
32.5°	1560.3	1539.7	1539.7	1573.1	1731.1	2696.7	3559.7	3960.4	3936.0	3903.9
35°	1476.8	1480.6	1507.6	1585.9	1654.0	2606.9	3674.0	4151.7	4115.7	4069.5
37.5°	1397.2	1426.7	1465.2	1541.0	1552.6	2473.3	3807.5	4422.7	4377.7	4319.9
40°	1329.1	1374.1	1419.0	1456.2	1444.7	2283.2	3993.7	4741.1	4691.0	4624.3
42.5°	1275.2	1318.8	1368.9	1372.8	1376.6	2085.5	4191.5	5131.5	5122.5	5049.3
45°	1240.5	1268.8	1316.3	1309.8	1372.8	1867.2	4373.9	5727.4	5845.5	5790.3
47.5°	1217.4	1239.2	1244.4	1271.3	1406.2	1672.0	4608.9	6893.4	7222.1	7159.2
50°	1204.5	1226.4	1168.6	1273.9	1411.3	1546.1	4933.8	8357.3	8886.4	8802.9
52.5°	1203.3	1198.1	1110.8	1300.9	1383.0	1469.1	5103.3	9425.8	10599.5	10780.5
55°	1205.8	1141.6	1081.3	1308.6	1326.5	1440.8	4535.7	9939.4	12180.3	12563.0
57.5°	1182.7	1080.0	1098.0	1277.7	1220.0	1516.6	3352.9	9755.8	12812.1	13523.5
60°	1139.1	1020.9	1128.8	1194.3	1110.8	1386.9	2308.9	8936.5	12157.2	12889.1
62.5°	1076.1	979.8	1124.9	1086.4	1071.0	1135.2	1587.2	7789.7	11118.3	11833.6
65°	1005.5	946.4	1064.6	982.4	991.4	873.2	1122.4	6495.3	9877.8	10581.5
67.5°	929.7	925.9	976.0	874.5	837.3	692.2	818.0	5206.0	8284.1	8918.5
70°	843.7	871.9	887.4	776.9	679.3	543.2	607.4	3640.6	6111.3	6663.5
72.5°	757.7	760.2	782.1	675.5	508.5	435.3	455.9	2204.9	4151.7	4553.6
75°	670.3	645.9	666.5	549.6	378.8	357.0	351.9	1362.5	2867.5	3184.7
77.5°	576.6	549.6	522.7	413.5	304.3	276.1	269.7	764.1	1759.3	1954.5
80°	468.7	432.8	390.4	303.1	222.2	197.8	196.5	372.4	877.1	977.2
82.5°	364.7	296.6	285.1	188.8	137.4	120.7	128.4	142.5	264.5	295.4
85°	255.5	215.7	151.5	75.8	61.6	50.1	48.8	42.4	70.6	78.3
87.5°	142.5	93.7	48.8	9.0	10.3	11.6	9.0	6.4	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)