

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: P633921

Luminaire Tested: GWS-SA2F-760-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633921
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-SA2F-760-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15496.9 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

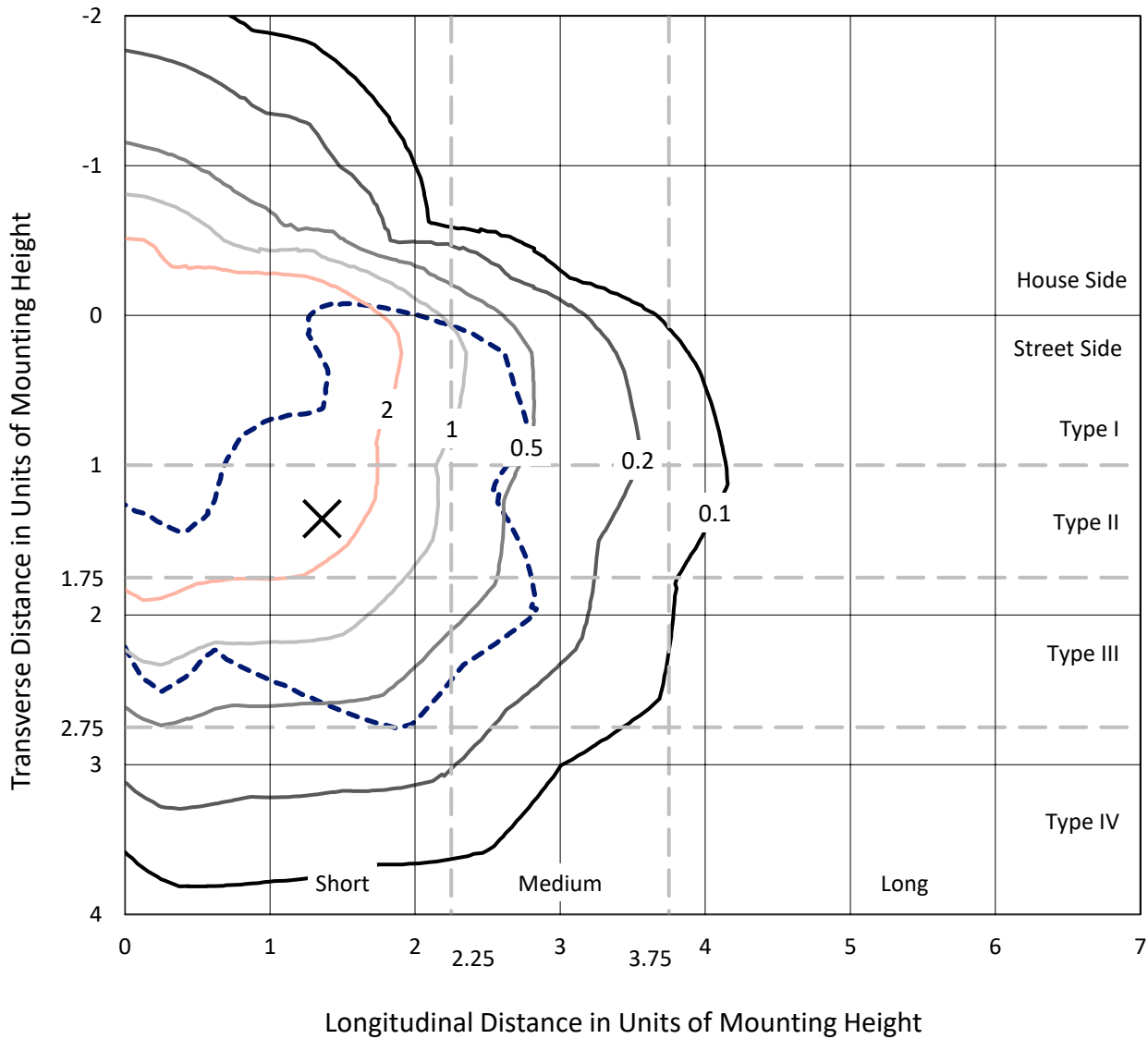
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

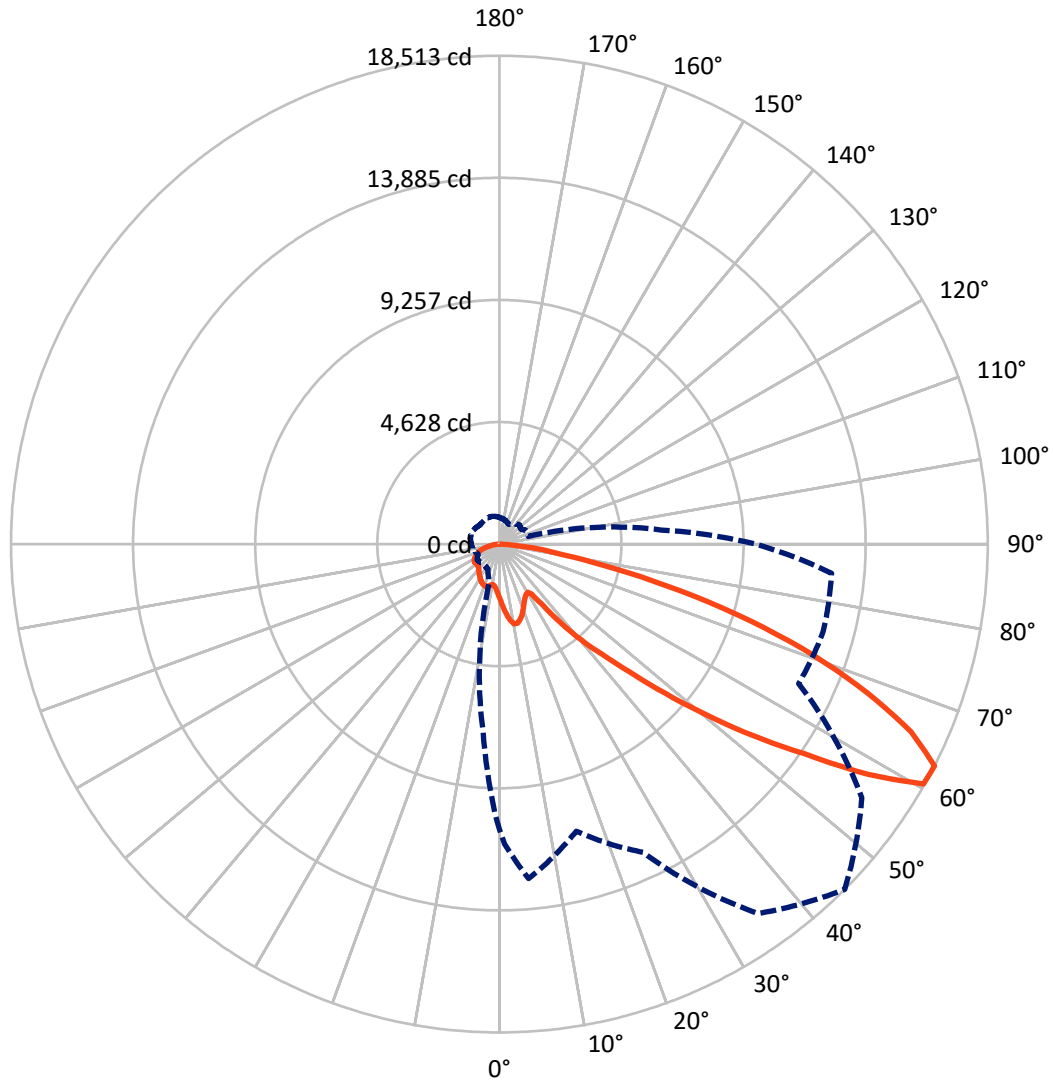
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	3697.8	0.0	3697.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	11799.0	0.0	11799.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	15496.9	0.0	15496.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.9	1.3
10°-20°	629.7	4.1
20°-30°	978.1	6.3
30°-40°	1327.9	8.6
40°-50°	2104.7	13.6
50°-60°	3712.6	24.0
60°-70°	4130.8	26.7
70°-80°	2095.0	13.5
80°-90°	317.2	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°	15496.9	100.0
0°-180°	15496.9	100.0

Coefficient of Utilization



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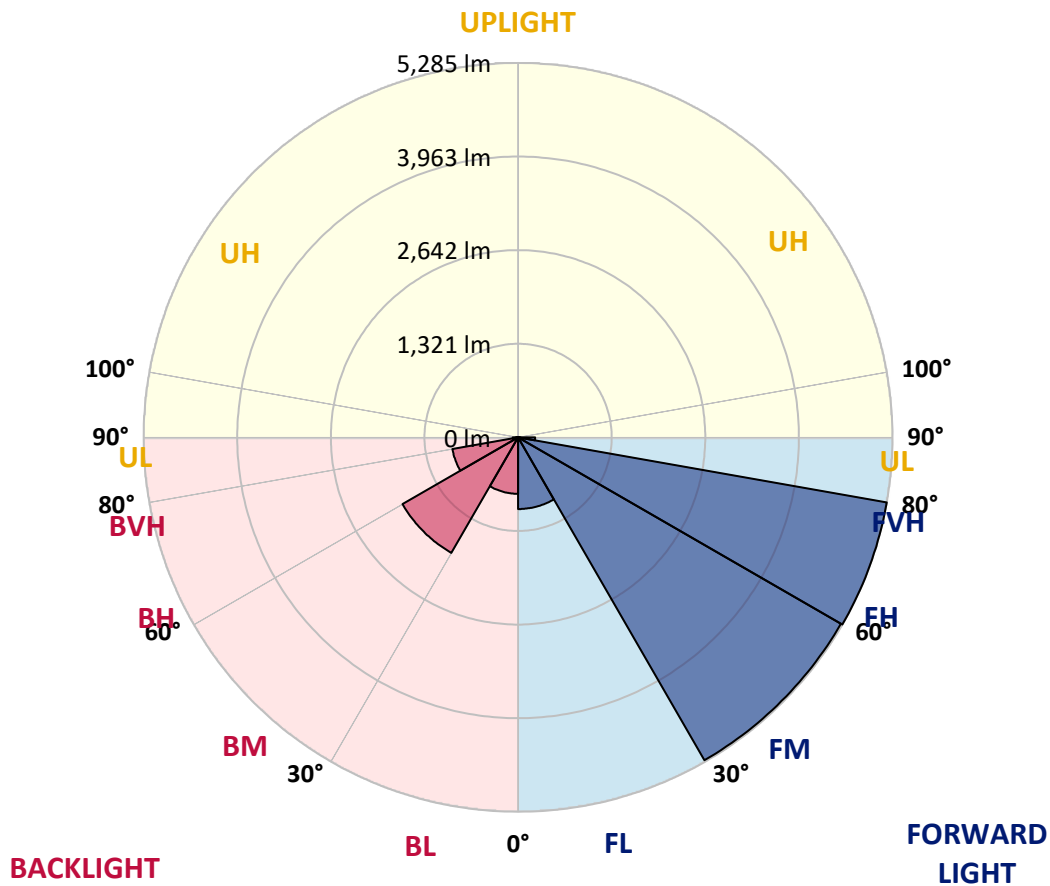
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1011.8	6.5			
FM (30°-60°)	5261.9	34.0			
FH (60°-80°)	5284.6	34.1			G3/7500
FVH (80°-90°)	240.8	1.6			G3/500
BL (0°-30°)	796.8	5.1	B2/1000		
BM (30°-60°)	1883.3	12.2	B2/2500		
BH (60°-80°)	941.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	76.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8
2.5°	2210.5	2209.3	2231.6	2265.6	2297.3	2311.4	2334.8	2332.5	2313.7	2289.1	2280.9
5°	2384.1	2388.8	2427.5	2502.6	2585.9	2621.1	2636.4	2630.5	2596.5	2553.1	2476.8
7.5°	2541.3	2549.5	2609.4	2722.0	2825.3	2872.2	2909.7	2902.7	2853.4	2772.5	2659.8
10°	2656.3	2665.7	2737.3	2869.8	2984.8	3025.9	3074.0	3076.3	3032.9	2923.8	2808.8
12.5°	2771.3	2780.7	2847.5	2968.4	3043.5	3044.7	3072.8	3088.1	3090.4	3040.0	2925.0
15°	2891.0	2899.2	2960.2	3028.2	3024.7	2959.0	2959.0	2988.3	3052.9	3089.2	3009.5
17.5°	2993.0	3003.6	3050.5	3028.2	2923.8	2805.3	2791.2	2828.8	2941.4	3081.0	3072.8
20°	3077.5	3085.7	3111.5	2963.7	2773.6	2618.8	2591.8	2635.2	2787.7	3030.6	3120.9
22.5°	3158.5	3163.2	3149.1	2879.2	2611.7	2434.6	2401.7	2447.5	2611.7	2941.4	3162.0
25°	3254.7	3250.0	3183.1	2791.2	2463.9	2289.1	2255.0	2306.7	2478.0	2822.9	3206.6
27.5°	3366.1	3348.5	3212.4	2696.2	2350.1	2181.1	2157.7	2212.8	2372.4	2713.8	3241.8
30°	3461.2	3427.1	3217.1	2611.7	2291.4	2135.4	2121.3	2172.9	2320.7	2639.9	3286.3
32.5°	3566.8	3519.8	3244.1	2589.4	2324.3	2245.7	2264.4	2267.9	2334.8	2618.8	3353.2
35°	3718.1	3657.1	3318.0	2654.0	2662.2	2794.7	2862.8	2771.3	2547.2	2665.7	3479.9
37.5°	3946.9	3869.5	3468.2	2933.2	3360.3	3657.1	3821.4	3612.5	3192.5	2842.9	3671.2
40°	4225.0	4126.4	3660.6	3449.4	4012.6	4487.8	4779.9	4473.7	3856.6	3285.2	3939.9
42.5°	4613.3	4510.1	4033.7	3956.3	4616.8	5324.3	5705.6	5249.2	4442.0	3856.6	4370.5
45°	5290.3	5190.6	4717.7	4464.3	5324.3	6354.5	6889.5	6254.7	5036.9	4430.3	5175.3
47.5°	6541.0	6423.7	5733.8	5027.5	6131.5	7692.0	8440.6	7516.0	5655.2	5087.3	6526.9
50°	8042.8	7930.2	7009.2	5693.9	7023.2	9122.2	10162.9	8997.9	6367.4	5886.3	8142.5
52.5°	9849.7	9828.5	8828.9	6536.3	7951.3	10647.5	12074.2	10639.3	7147.6	6962.2	9972.9
55°	11478.2	11684.7	11140.3	7821.1	9150.4	12563.5	14039.4	12429.7	8205.9	8740.9	12116.4
57.5°	12355.8	12910.7	13747.3	10442.2	10893.9	14853.7	16464.6	14615.5	10024.5	11702.3	14104.0
60°	11776.2	12405.1	13920.9	12415.6	12623.3	16688.7	18466.2	16452.9	11810.2	13757.8	13991.3
62.5°	10811.8	11376.1	12724.2	11263.5	12890.8	17092.3	18513.1	16773.2	12520.0	12714.8	12638.5
65°	9667.8	10236.8	11664.7	9832.1	12040.2	16133.7	17147.4	15831.0	11244.7	11487.6	11515.7
67.5°	8148.4	8674.0	10127.7	8742.1	10974.8	14727.0	15050.8	14488.8	10355.3	10742.5	10337.7
70°	6088.1	6562.1	7845.7	7104.2	9251.3	12894.3	12632.7	12716.0	9356.9	9741.7	8635.3
72.5°	4160.4	4517.1	5617.7	5582.5	7084.2	10322.5	9957.6	10747.2	7815.2	8325.6	6583.3
75°	2909.7	3187.8	4060.7	4410.3	5354.8	7650.9	7091.3	8044.0	6103.4	6832.0	4803.4
77.5°	1785.7	1969.9	2564.8	3267.6	3444.7	5236.3	4404.5	6052.9	4286.0	4982.9	3204.2
80°	892.9	982.0	1246.0	2054.4	2284.4	3085.7	2432.2	3514.0	2900.3	3085.7	1772.8
82.5°	269.9	298.0	364.9	780.2	1183.8	1776.3	1437.3	2041.5	1583.9	1446.7	698.1
85°	71.6	81.0	100.9	231.1	415.3	637.1	485.7	989.1	759.1	533.8	262.8
87.5°	5.9	5.9	4.7	4.7	2.3	0.0	0.0	70.4	142.0	81.0	45.8
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°	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8
2.5°	2239.8	2235.1	2187.0	2151.8	2110.7	2070.8	2029.8	1993.4	1952.3	1911.3	1899.5
5°	2420.5	2387.6	2285.5	2199.9	2115.4	2041.5	1977.0	1910.1	1856.1	1803.3	1783.4
7.5°	2580.0	2522.5	2374.7	2244.5	2127.2	2035.6	1940.6	1843.2	1767.0	1691.9	1673.1
10°	2724.3	2648.1	2461.5	2297.3	2167.0	2062.6	1951.2	1820.9	1710.6	1619.1	1594.5
12.5°	2831.1	2747.8	2536.6	2347.7	2199.9	2082.6	1972.3	1857.3	1741.1	1622.6	1595.7
15°	2915.6	2828.8	2598.8	2386.4	2201.1	2049.7	1942.9	1903.1	1866.7	1750.5	1701.3
17.5°	2983.6	2892.1	2652.8	2409.9	2169.4	1950.0	1857.3	1916.0	2008.7	1935.9	1843.2
20°	3045.8	2953.1	2693.8	2426.3	2099.0	1812.7	1761.1	1885.5	2025.1	2022.7	1939.4
22.5°	3113.9	3023.5	2753.7	2435.7	2000.4	1673.1	1703.6	1840.9	1954.7	1988.7	1937.1
25°	3200.7	3120.9	2837.0	2456.8	1889.0	1576.9	1661.4	1783.4	1878.4	1886.6	1856.1
27.5°	3301.6	3241.8	2961.4	2506.1	1781.0	1527.6	1612.1	1702.4	1789.2	1792.8	1756.4
30°	3411.9	3372.0	3076.3	2547.2	1700.1	1512.4	1548.7	1621.5	1676.6	1686.0	1654.3
32.5°	3552.7	3517.5	3178.4	2520.2	1652.0	1508.8	1490.1	1527.6	1573.4	1573.4	1548.7
35°	3746.3	3697.0	3286.3	2417.0	1593.3	1494.8	1427.9	1438.4	1458.4	1461.9	1447.8
37.5°	4020.8	3939.9	3395.5	2212.8	1497.1	1444.3	1356.3	1343.4	1350.4	1359.8	1356.3
40°	4361.1	4228.5	3555.0	1967.6	1382.1	1346.9	1282.4	1257.8	1251.9	1270.7	1277.7
42.5°	4789.3	4586.3	3726.3	1738.8	1277.7	1235.5	1195.6	1174.5	1165.1	1196.7	1215.5
45°	5473.3	5139.0	3890.6	1512.4	1219.0	1140.4	1113.4	1098.2	1102.9	1140.4	1163.9
47.5°	6654.8	5982.5	4046.6	1369.2	1214.3	1072.4	1039.5	1043.0	1055.9	1095.8	1124.0
50°	8149.6	7112.4	4151.1	1309.4	1228.4	1031.3	987.9	1006.7	1026.6	1065.3	1098.2
52.5°	9671.3	8164.8	4026.7	1276.5	1227.2	1032.5	939.8	996.1	1005.5	1044.2	1079.4
55°	10717.9	8282.2	3478.8	1226.1	1208.5	1079.4	902.3	991.4	997.3	1032.5	1064.2
57.5°	11116.8	7880.9	2652.8	1240.2	1152.2	1115.8	885.8	958.6	1000.8	1031.3	1064.2
60°	10634.6	7124.1	1612.1	1276.5	1061.8	1113.4	896.4	898.7	971.5	1023.1	1055.9
62.5°	9725.3	6152.7	1132.2	1173.3	996.1	1051.3	921.0	828.3	919.8	982.0	1011.4
65°	8683.4	5009.9	863.5	1010.2	964.4	955.0	929.2	766.2	849.5	910.5	936.3
67.5°	7598.1	3894.1	701.6	753.2	871.7	863.5	849.5	711.0	766.2	809.6	838.9
70°	6231.3	2724.3	592.5	565.5	747.4	774.4	742.7	641.8	659.4	704.0	727.4
72.5°	4558.2	1697.7	486.9	467.0	600.7	677.0	660.6	565.5	573.7	616.0	634.7
75°	3278.1	971.5	390.7	384.8	458.8	579.6	546.7	486.9	496.3	528.0	540.9
77.5°	2083.7	540.9	301.5	309.7	328.5	432.9	467.0	416.5	416.5	435.3	445.8
80°	1115.8	309.7	220.6	224.1	230.0	330.9	368.4	322.7	322.7	309.7	322.7
82.5°	455.2	178.3	151.4	140.8	153.7	226.4	258.1	205.3	214.7	193.6	198.3
85°	150.2	89.2	75.1	73.9	72.7	99.7	124.4	102.1	122.0	77.4	81.0
87.5°	19.9	16.4	9.4	7.0	8.2	3.5	7.0	8.2	8.2	5.9	5.9
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°	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8
2.5°	1891.3	1881.9	1847.9	1856.1	1850.3	1840.9	1850.3	1832.7	1846.7	1851.4	1880.8
5°	1768.1	1745.8	1713.0	1696.6	1693.0	1683.7	1684.8	1676.6	1679.0	1698.9	1731.8
7.5°	1657.8	1636.7	1610.9	1599.2	1588.6	1578.1	1576.9	1575.7	1585.1	1602.7	1634.4
10°	1578.1	1566.3	1555.8	1560.5	1555.8	1551.1	1542.9	1542.9	1558.1	1589.8	1628.5
12.5°	1578.1	1575.7	1578.1	1592.1	1591.0	1592.1	1581.6	1587.4	1629.7	1683.7	1738.8
15°	1662.5	1643.8	1643.8	1650.8	1648.5	1648.5	1648.5	1673.1	1769.3	1852.6	1911.3
17.5°	1765.8	1710.6	1687.2	1683.7	1682.5	1682.5	1687.2	1740.0	1890.1	1978.1	2012.2
20°	1837.4	1732.9	1694.2	1679.0	1680.1	1682.5	1696.6	1769.3	1934.7	1979.3	1971.1
22.5°	1850.3	1715.3	1668.4	1646.1	1649.6	1652.0	1673.1	1750.5	1873.7	1880.8	1864.3
25°	1790.4	1666.1	1615.6	1598.0	1602.7	1601.5	1620.3	1676.6	1764.6	1762.3	1752.9
27.5°	1701.3	1587.4	1549.9	1538.2	1546.4	1537.0	1542.9	1586.3	1654.3	1652.0	1648.5
30°	1609.7	1511.2	1477.2	1471.3	1481.8	1467.8	1468.9	1505.3	1552.2	1549.9	1548.7
32.5°	1518.2	1434.9	1404.4	1404.4	1415.0	1399.7	1402.1	1433.7	1465.4	1456.0	1456.0
35°	1431.4	1372.7	1348.1	1343.4	1351.6	1341.1	1345.7	1375.1	1386.8	1373.9	1365.7
37.5°	1355.1	1329.3	1304.7	1288.3	1289.4	1290.6	1304.7	1327.0	1319.9	1301.2	1290.6
40°	1284.7	1284.7	1261.3	1230.8	1227.2	1235.5	1258.9	1283.6	1263.6	1242.5	1229.6
42.5°	1234.3	1244.8	1222.6	1192.0	1185.0	1199.1	1224.9	1242.5	1219.0	1195.6	1178.0
45°	1187.4	1213.2	1197.9	1163.9	1154.5	1170.9	1203.8	1210.8	1179.1	1156.9	1143.9
47.5°	1154.5	1189.7	1179.1	1146.3	1132.2	1155.7	1189.7	1188.5	1148.6	1125.2	1114.6
50°	1131.0	1175.6	1174.5	1146.3	1131.0	1160.4	1190.9	1175.6	1132.2	1107.6	1097.0
52.5°	1112.3	1174.5	1182.7	1166.2	1155.7	1181.5	1200.3	1170.9	1120.5	1094.7	1086.5
55°	1104.1	1179.1	1185.0	1169.8	1160.4	1183.8	1200.3	1180.3	1120.5	1097.0	1090.0
57.5°	1106.4	1173.3	1174.5	1153.3	1136.9	1166.2	1192.0	1186.2	1133.4	1106.4	1098.2
60°	1092.3	1141.6	1143.9	1111.1	1092.3	1127.5	1173.3	1169.8	1127.5	1099.4	1084.1
62.5°	1045.4	1088.8	1090.0	1059.5	1032.5	1082.9	1133.4	1132.2	1093.5	1065.3	1047.7
65°	966.8	1012.5	1024.3	994.9	973.8	1027.8	1080.6	1078.2	1039.5	1013.7	996.1
67.5°	869.4	918.7	941.0	921.0	912.8	962.1	1011.4	1010.2	978.5	953.9	938.6
70°	750.9	792.0	829.5	829.5	823.6	880.0	932.8	928.1	898.7	880.0	868.2
72.5°	652.3	684.0	695.8	707.5	725.1	783.7	828.3	831.9	810.7	801.3	810.7
75°	555.0	574.9	585.5	576.1	606.6	667.6	726.3	732.1	709.8	694.6	698.1
77.5°	456.4	478.7	489.3	468.1	465.8	543.2	614.8	627.7	608.9	585.5	592.5
80°	329.7	359.0	376.6	362.5	357.8	391.9	490.4	504.5	486.9	468.1	478.7
82.5°	201.8	218.2	222.9	237.0	266.3	280.4	315.6	362.5	349.6	333.2	362.5
85°	79.8	95.0	105.6	119.7	139.6	165.4	194.8	232.3	211.2	204.2	240.5
87.5°	4.7	1.2	0.0	2.3	19.9	38.7	83.3	115.0	96.2	103.2	124.4
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°	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8	2056.8
2.5°	1904.2	1934.7	1975.8	2009.8	2053.2	2094.3	2136.5	2178.8	2201.1	2210.5
5°	1769.3	1825.6	1891.3	1964.1	2048.5	2137.7	2228.1	2320.7	2379.4	2384.1
7.5°	1688.3	1769.3	1859.6	1951.2	2055.6	2178.8	2321.9	2465.1	2524.9	2541.3
10°	1714.2	1804.5	1876.1	1961.7	2076.7	2230.4	2399.4	2567.1	2636.4	2656.3
12.5°	1817.4	1835.0	1857.3	1935.9	2076.7	2275.0	2479.1	2678.6	2752.5	2771.3
15°	1903.1	1818.6	1778.7	1862.0	2048.5	2313.7	2563.6	2784.2	2873.4	2891.0
17.5°	1910.1	1764.6	1677.8	1752.9	1999.3	2340.7	2644.6	2901.5	2976.6	2993.0
20°	1838.5	1707.1	1594.5	1640.2	1932.4	2352.4	2703.2	2987.2	3061.1	3077.5
22.5°	1757.6	1660.2	1538.2	1535.8	1851.4	2365.3	2773.6	3068.1	3147.9	3158.5
25°	1681.3	1595.7	1492.4	1459.6	1757.6	2390.0	2868.7	3190.1	3251.2	3254.7
27.5°	1592.1	1526.4	1456.0	1424.4	1675.4	2436.9	3009.5	3335.6	3372.0	3366.1
30°	1511.2	1461.9	1430.2	1420.8	1623.8	2472.1	3143.2	3478.8	3481.1	3461.2
32.5°	1425.5	1406.8	1406.8	1437.3	1581.6	2463.9	3252.3	3618.4	3596.1	3566.8
35°	1349.3	1352.8	1377.4	1449.0	1511.2	2381.8	3356.7	3793.2	3760.4	3718.1
37.5°	1276.5	1303.5	1338.7	1407.9	1418.5	2259.7	3478.8	4040.8	3999.7	3946.9
40°	1214.3	1255.4	1296.5	1330.5	1319.9	2086.1	3648.9	4331.7	4286.0	4225.0
42.5°	1165.1	1205.0	1250.7	1254.2	1257.8	1905.4	3829.6	4688.4	4680.2	4613.3
45°	1133.4	1159.2	1202.6	1196.7	1254.2	1705.9	3996.2	5232.8	5340.8	5290.3
47.5°	1112.3	1132.2	1136.9	1161.5	1284.7	1527.6	4210.9	6298.2	6598.5	6541.0
50°	1100.5	1120.5	1067.7	1163.9	1289.4	1412.6	4507.7	7635.7	8119.1	8042.8
52.5°	1099.4	1094.7	1014.9	1188.5	1263.6	1342.2	4662.6	8611.9	9684.2	9849.7
55°	1101.7	1043.0	987.9	1195.6	1212.0	1316.4	4144.0	9081.2	11128.5	11478.2
57.5°	1080.6	986.7	1003.2	1167.4	1114.6	1385.6	3063.4	8913.4	11705.8	12355.8
60°	1040.7	932.8	1031.3	1091.1	1014.9	1267.1	2109.6	8164.8	11107.4	11776.2
62.5°	983.2	895.2	1027.8	992.6	978.5	1037.2	1450.2	7117.1	10158.2	10811.8
65°	918.7	864.7	972.6	897.6	905.8	797.8	1025.4	5934.4	9024.8	9667.8
67.5°	849.5	845.9	891.7	799.0	765.0	632.4	747.4	4756.5	7568.8	8148.4
70°	770.8	796.7	810.7	709.8	620.7	496.3	555.0	3326.2	5583.6	6088.1
72.5°	692.2	694.6	714.5	617.1	464.6	397.7	416.5	2014.5	3793.2	4160.4
75°	612.5	590.2	608.9	502.2	346.1	326.2	321.5	1244.8	2619.9	2909.7
77.5°	526.8	502.2	477.5	377.8	278.1	252.3	246.4	698.1	1607.4	1785.7
80°	428.2	395.4	356.7	276.9	203.0	180.7	179.5	340.3	801.3	892.9
82.5°	333.2	271.0	260.5	172.5	125.5	110.3	117.3	130.2	241.7	269.9
85°	233.5	197.1	138.4	69.2	56.3	45.8	44.6	38.7	64.5	71.6
87.5°	130.2	85.6	44.6	8.2	9.4	10.6	8.2	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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