

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: P633756

Luminaire Tested: GWS-SA2F-735-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633756
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-735-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15149.7 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

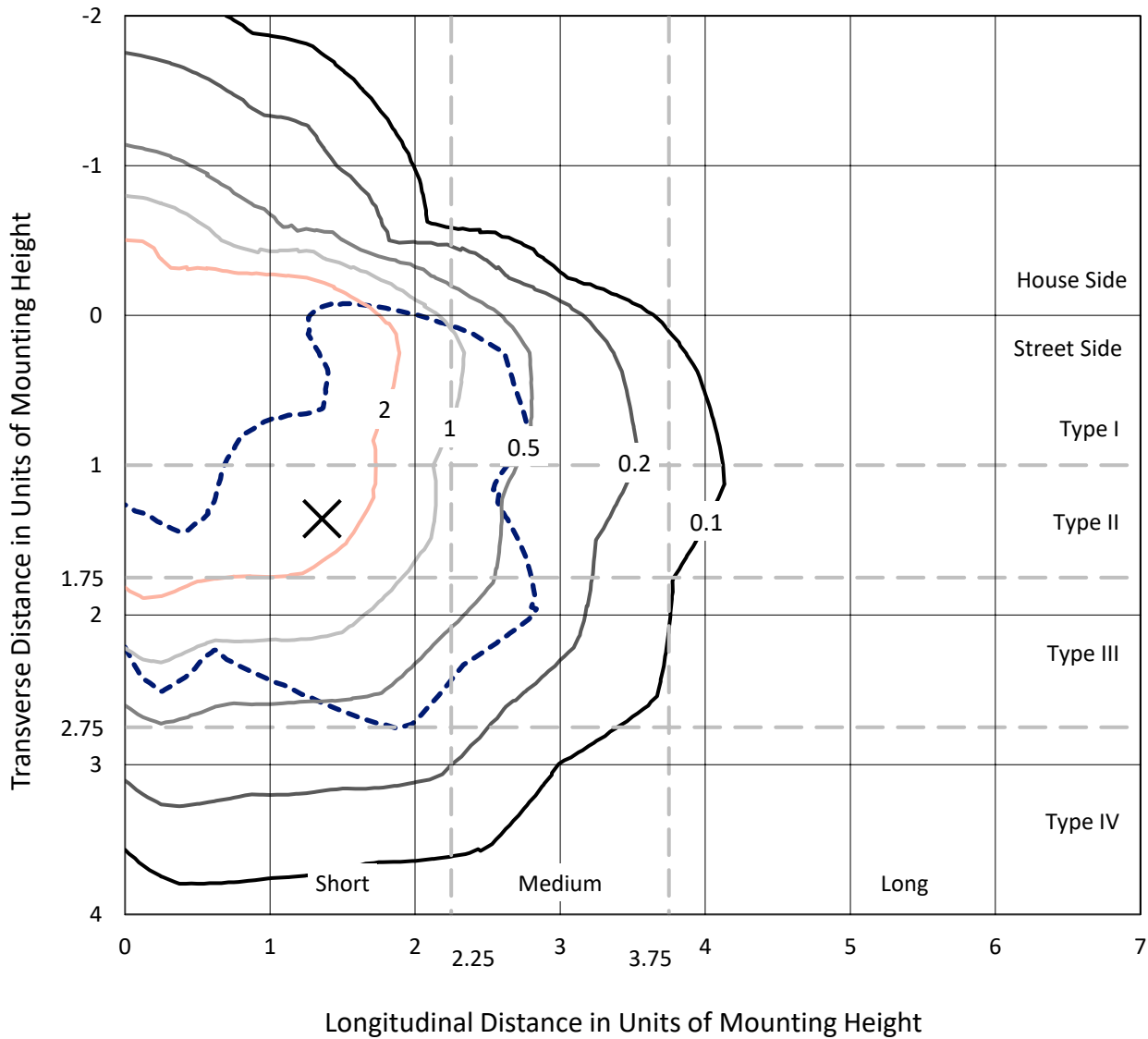
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

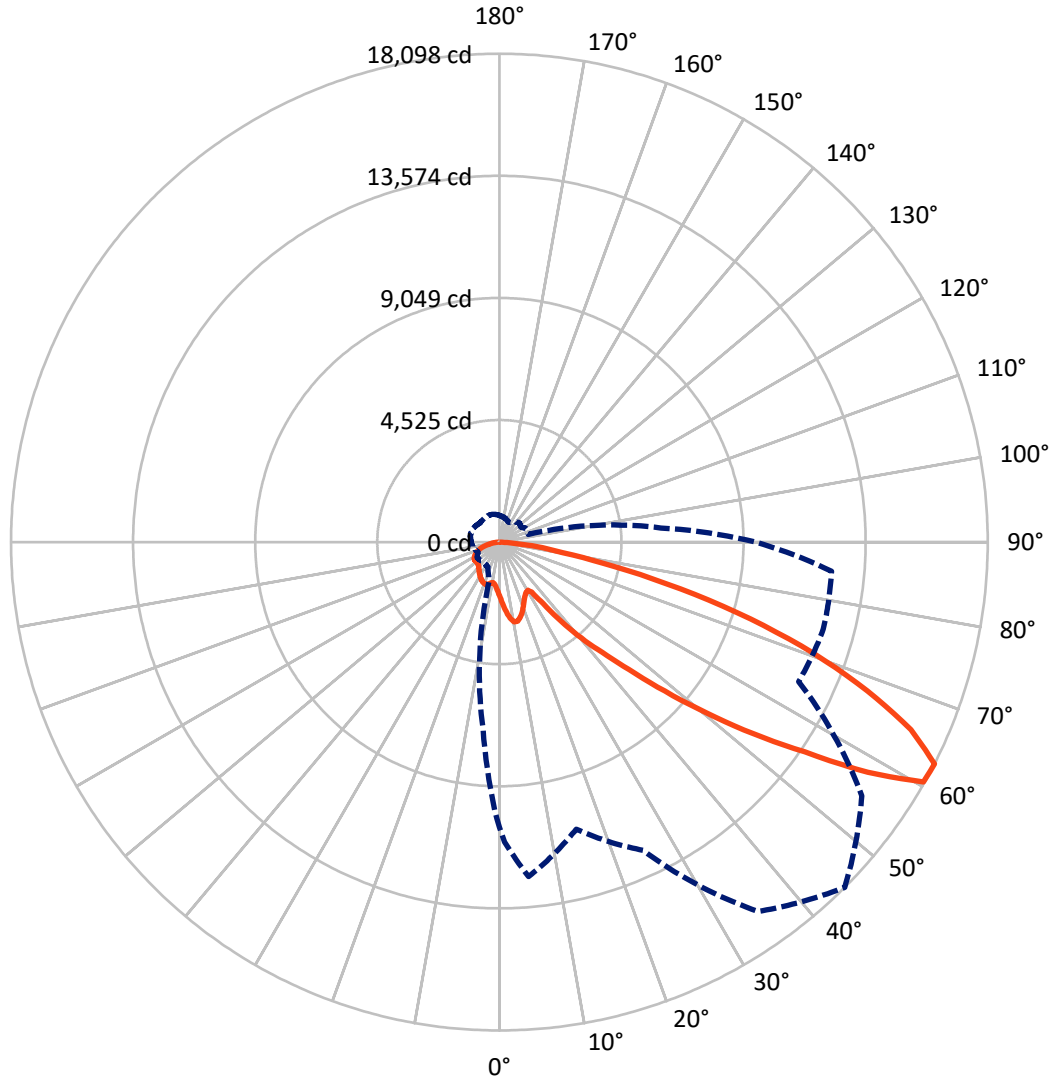
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	3615.0	0.0	3615.0
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	11534.7	0.0	11534.7
	% Fixture	76.1	0.0	76.1
Total	Lumens	15149.7	0.0	15149.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.3
10°-20°	615.6	4.1
20°-30°	956.1	6.3
30°-40°	1298.2	8.6
40°-50°	2057.5	13.6
50°-60°	3629.4	24.0
60°-70°	4038.3	26.7
70°-80°	2048.1	13.5
80°-90°	310.1	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°	15149.7	100.0
0°-180°	15149.7	100.0

Coefficient of Utilization



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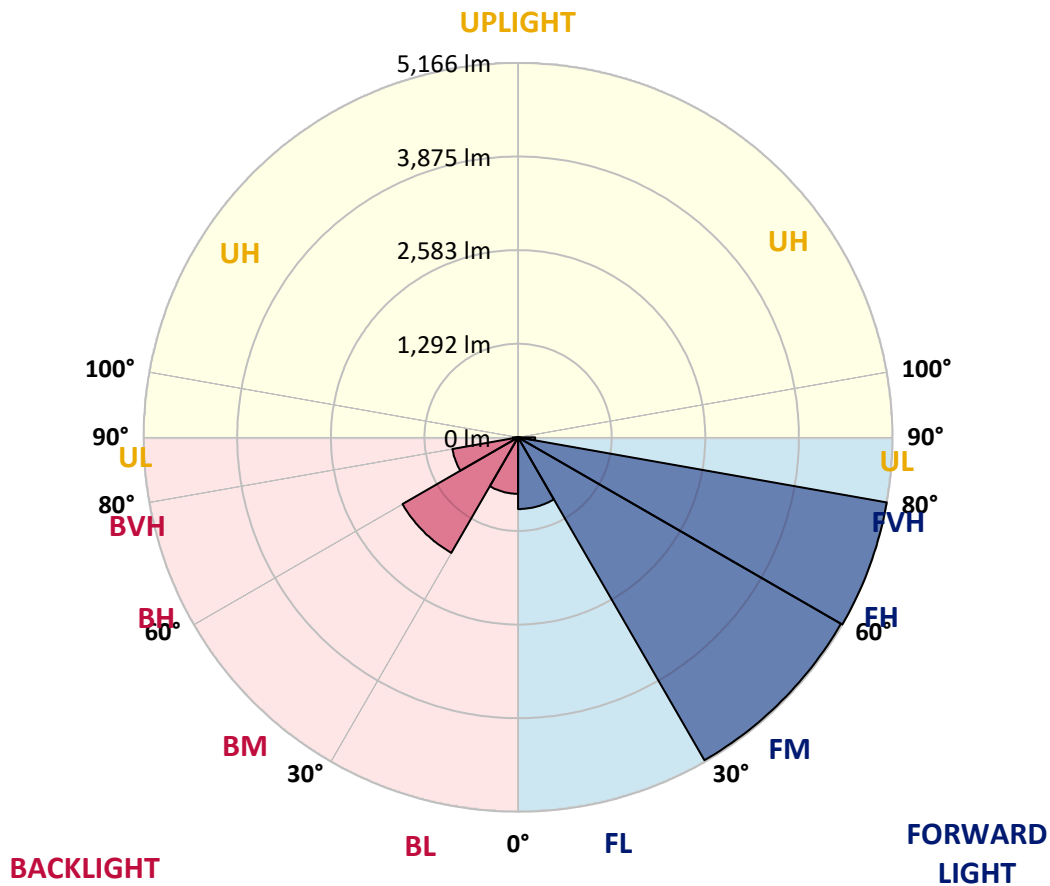
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.1	6.5			
FM (30°-60°)	5144.0	34.0			
FH (60°-80°)	5166.2	34.1			G3/7500
FVH (80°-90°)	235.4	1.6			G3/500
BL (0°-30°)	778.9	5.1	B2/1000		
BM (30°-60°)	1841.1	12.2	B2/2500		
BH (60°-80°)	920.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	74.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7
2.5°	2160.9	2159.8	2181.6	2214.8	2245.8	2259.6	2282.5	2280.2	2261.9	2237.8	2229.7
5°	2330.7	2335.3	2373.1	2446.5	2528.0	2562.4	2577.3	2571.6	2538.3	2495.9	2421.3
7.5°	2484.4	2492.4	2550.9	2661.0	2762.0	2807.8	2844.5	2837.7	2789.5	2710.3	2600.2
10°	2596.8	2606.0	2675.9	2805.5	2917.9	2958.1	3005.1	3007.4	2965.0	2858.3	2745.9
12.5°	2709.2	2718.4	2783.7	2901.9	2975.3	2976.4	3004.0	3018.9	3021.2	2971.9	2859.4
15°	2826.2	2834.2	2893.9	2960.4	2956.9	2892.7	2892.7	2921.4	2984.5	3020.0	2942.0
17.5°	2926.0	2936.3	2982.2	2960.4	2858.3	2742.5	2728.7	2765.4	2875.5	3012.0	3004.0
20°	3008.6	3016.6	3041.8	2897.3	2711.5	2560.1	2533.7	2576.1	2725.2	2962.7	3051.0
22.5°	3087.7	3092.3	3078.5	2814.7	2553.2	2380.0	2347.9	2392.6	2553.2	2875.5	3091.1
25°	3181.8	3177.2	3111.8	2728.7	2408.7	2237.8	2204.5	2255.0	2422.4	2759.7	3134.7
27.5°	3290.7	3273.5	3140.5	2635.8	2297.4	2132.3	2109.3	2163.2	2319.2	2653.0	3169.1
30°	3383.6	3350.4	3145.0	2553.2	2240.1	2087.5	2073.8	2124.2	2268.7	2580.7	3212.7
32.5°	3486.9	3441.0	3171.4	2531.4	2272.2	2195.3	2213.7	2217.1	2282.5	2560.1	3278.1
35°	3634.8	3575.2	3243.7	2594.5	2602.5	2732.1	2798.7	2709.2	2490.1	2606.0	3402.0
37.5°	3858.5	3782.8	3390.5	2867.5	3285.0	3575.2	3735.7	3531.6	3121.0	2779.2	3588.9
40°	4130.3	4034.0	3578.6	3372.2	3922.7	4387.2	4672.8	4373.5	3770.2	3211.6	3851.6
42.5°	4510.0	4409.0	3943.4	3867.7	4513.4	5205.0	5577.8	5131.6	4342.5	3770.2	4272.5
45°	5171.8	5074.3	4612.0	4364.3	5205.0	6212.1	6735.1	6114.6	4924.0	4331.0	5059.4
47.5°	6394.5	6279.8	5605.3	4914.9	5994.2	7519.7	8251.5	7347.6	5528.5	4973.4	6380.7
50°	7862.6	7752.5	6852.1	5566.3	6865.9	8917.9	9935.2	8796.3	6224.7	5754.5	7960.1
52.5°	9629.0	9608.3	8631.1	6389.9	7773.2	10408.9	11803.7	10400.9	6987.5	6806.2	9749.4
55°	11221.0	11422.9	10890.7	7645.8	8945.4	12282.0	13724.9	12151.2	8022.1	8545.1	11845.0
57.5°	12079.0	12621.5	13439.3	10208.2	10649.8	14520.9	16095.7	14288.1	9799.9	11440.1	13788.0
60°	11512.3	12127.1	13609.0	12137.5	12340.5	16314.8	18052.5	16084.2	11545.6	13449.6	13677.9
62.5°	10569.5	11121.2	12439.1	11011.1	12602.0	16709.4	18098.4	16397.4	12239.5	12429.9	12355.4
65°	9451.2	10007.5	11403.4	9611.8	11770.4	15772.3	16763.3	15476.3	10992.8	11230.2	11257.7
67.5°	7965.8	8479.7	9900.8	8546.2	10729.0	14397.0	14713.6	14164.2	10123.3	10501.8	10106.1
70°	5951.7	6415.1	7669.9	6945.0	9044.0	12605.4	12349.6	12431.1	9147.3	9523.5	8441.9
72.5°	4067.2	4415.9	5491.8	5457.4	6925.5	10091.2	9734.5	10506.4	7640.1	8139.0	6435.8
75°	2844.5	3116.4	3969.7	4311.5	5234.9	7479.5	6932.4	7863.8	5966.6	6678.9	4695.8
77.5°	1745.7	1925.8	2507.3	3194.4	3367.6	5119.0	4305.8	5917.3	4190.0	4871.3	3132.4
80°	872.9	960.0	1218.1	2008.4	2233.2	3016.6	2377.7	3435.2	2835.4	3016.6	1733.1
82.5°	263.8	291.3	356.7	762.7	1157.3	1736.5	1405.1	1995.8	1548.4	1414.2	682.5
85°	70.0	79.1	98.6	226.0	406.0	622.8	474.9	966.9	742.1	521.9	256.9
87.5°	5.7	5.7	4.6	4.6	2.3	0.0	0.0	68.8	138.8	79.1	44.7
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°	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7
2.5°	2189.6	2185.0	2138.0	2103.6	2063.4	2024.4	1984.3	1948.7	1908.6	1868.4	1857.0
5°	2366.2	2334.1	2234.3	2150.6	2068.0	1995.8	1932.7	1867.3	1814.5	1762.9	1743.4
7.5°	2522.2	2466.0	2321.5	2194.2	2079.5	1990.0	1897.1	1801.9	1727.4	1654.0	1635.6
10°	2663.3	2588.8	2406.4	2245.8	2118.5	2016.4	1907.4	1780.1	1672.3	1582.8	1558.8
12.5°	2767.7	2686.3	2479.8	2295.1	2150.6	2035.9	1928.1	1815.7	1702.1	1586.3	1559.9
15°	2850.3	2765.4	2540.6	2333.0	2151.8	2003.8	1899.4	1860.4	1824.9	1711.3	1663.1
17.5°	2916.8	2827.3	2593.3	2355.9	2120.8	1906.3	1815.7	1873.0	1963.6	1892.5	1801.9
20°	2977.6	2887.0	2633.5	2372.0	2052.0	1772.1	1721.6	1843.2	1979.7	1977.4	1896.0
22.5°	3044.1	2955.8	2692.0	2381.2	1955.6	1635.6	1665.4	1799.6	1910.9	1944.1	1893.7
25°	3129.0	3051.0	2773.4	2401.8	1846.7	1541.6	1624.1	1743.4	1836.3	1844.4	1814.5
27.5°	3227.6	3169.1	2895.0	2450.0	1741.1	1493.4	1576.0	1664.3	1749.2	1752.6	1717.0
30°	3335.4	3296.5	3007.4	2490.1	1662.0	1478.5	1514.0	1585.1	1639.0	1648.2	1617.3
32.5°	3473.1	3438.7	3107.2	2463.7	1615.0	1475.0	1456.7	1493.4	1538.1	1538.1	1514.0
35°	3662.3	3614.2	3212.7	2362.8	1557.6	1461.3	1395.9	1406.2	1425.7	1429.2	1415.4
37.5°	3930.7	3851.6	3319.4	2163.2	1463.6	1411.9	1325.9	1313.3	1320.2	1329.4	1325.9
40°	4263.4	4133.8	3475.4	1923.5	1351.2	1316.7	1253.7	1229.6	1223.8	1242.2	1249.1
42.5°	4682.0	4483.6	3642.8	1699.8	1249.1	1207.8	1168.8	1148.1	1139.0	1169.9	1188.3
45°	5350.7	5023.8	3803.4	1478.5	1191.7	1114.9	1088.5	1073.6	1078.2	1114.9	1137.8
47.5°	6505.7	5848.5	3956.0	1338.5	1187.1	1048.3	1016.2	1019.7	1032.3	1071.3	1098.8
50°	7967.0	6953.1	4058.1	1280.0	1200.9	1008.2	965.8	984.1	1003.6	1041.5	1073.6
52.5°	9454.6	7981.9	3936.5	1247.9	1199.8	1009.4	918.7	973.8	983.0	1020.8	1055.2
55°	10477.8	8096.6	3400.8	1198.6	1181.4	1055.2	882.0	969.2	974.9	1009.4	1040.3
57.5°	10867.7	7704.3	2593.3	1212.4	1126.3	1090.8	866.0	937.1	978.4	1008.2	1040.3
60°	10396.3	6964.5	1576.0	1247.9	1038.0	1088.5	876.3	878.6	949.7	1000.2	1032.3
62.5°	9507.4	6014.8	1106.8	1147.0	973.8	1027.7	900.4	809.8	899.2	960.0	988.7
65°	8488.9	4897.6	844.2	987.6	942.8	933.7	908.4	749.0	830.4	890.1	915.3
67.5°	7427.9	3806.9	685.9	736.4	852.2	844.2	830.4	695.1	749.0	791.4	820.1
70°	6091.7	2663.3	579.2	552.8	730.6	757.0	726.0	627.4	644.6	688.2	711.1
72.5°	4456.1	1659.7	476.0	456.5	587.3	661.8	645.8	552.8	560.9	602.2	620.5
75°	3204.7	949.7	381.9	376.2	448.5	566.6	534.5	476.0	485.2	516.1	528.8
77.5°	2037.1	528.8	294.8	302.8	321.2	423.2	456.5	407.2	407.2	425.5	435.9
80°	1090.8	302.8	215.6	219.1	224.8	323.5	360.2	315.4	315.4	302.8	315.4
82.5°	445.0	174.3	148.0	137.6	150.3	221.4	252.3	200.7	209.9	189.3	193.8
85°	146.8	87.2	73.4	72.3	71.1	97.5	121.6	99.8	119.3	75.7	79.1
87.5°	19.5	16.1	9.2	6.9	8.0	3.4	6.9	8.0	8.0	5.7	5.7
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°	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7
2.5°	1848.9	1839.8	1806.5	1814.5	1808.8	1799.6	1808.8	1791.6	1805.4	1810.0	1838.6
5°	1728.5	1706.7	1674.6	1658.5	1655.1	1645.9	1647.1	1639.0	1641.3	1660.8	1693.0
7.5°	1620.7	1600.1	1574.8	1563.3	1553.0	1542.7	1541.6	1540.4	1549.6	1566.8	1597.8
10°	1542.7	1531.2	1520.9	1525.5	1520.9	1516.3	1508.3	1508.3	1523.2	1554.2	1592.0
12.5°	1542.7	1540.4	1542.7	1556.5	1555.3	1556.5	1546.1	1551.9	1593.2	1645.9	1699.8
15°	1625.3	1606.9	1606.9	1613.8	1611.5	1611.5	1611.5	1635.6	1729.7	1811.1	1868.4
17.5°	1726.2	1672.3	1649.4	1645.9	1644.8	1644.8	1649.4	1701.0	1847.8	1933.8	1967.1
20°	1796.2	1694.1	1656.3	1641.3	1642.5	1644.8	1658.5	1729.7	1891.4	1935.0	1926.9
22.5°	1808.8	1676.9	1631.0	1609.2	1612.7	1615.0	1635.6	1711.3	1831.7	1838.6	1822.6
25°	1750.3	1628.7	1579.4	1562.2	1566.8	1565.6	1584.0	1639.0	1725.1	1722.8	1713.6
27.5°	1663.1	1551.9	1515.2	1503.7	1511.7	1502.6	1508.3	1550.7	1617.3	1615.0	1611.5
30°	1573.7	1477.3	1444.1	1438.3	1448.6	1434.9	1436.0	1471.6	1517.5	1515.2	1514.0
32.5°	1484.2	1402.8	1372.9	1372.9	1383.3	1368.4	1370.7	1401.6	1432.6	1423.4	1423.4
35°	1399.3	1342.0	1317.9	1313.3	1321.3	1311.0	1315.6	1344.3	1355.7	1343.1	1335.1
37.5°	1324.8	1299.5	1275.5	1259.4	1260.5	1261.7	1275.5	1297.2	1290.4	1272.0	1261.7
40°	1256.0	1256.0	1233.0	1203.2	1199.8	1207.8	1230.7	1254.8	1235.3	1214.7	1202.0
42.5°	1206.6	1217.0	1195.2	1165.3	1158.5	1172.2	1197.5	1214.7	1191.7	1168.8	1151.6
45°	1160.8	1186.0	1171.1	1137.8	1128.6	1144.7	1176.8	1183.7	1152.7	1130.9	1118.3
47.5°	1128.6	1163.0	1152.7	1120.6	1106.8	1129.8	1163.0	1161.9	1122.9	1100.0	1089.6
50°	1105.7	1149.3	1148.1	1120.6	1105.7	1134.4	1164.2	1149.3	1106.8	1082.8	1072.4
52.5°	1087.3	1148.1	1156.2	1140.1	1129.8	1155.0	1173.4	1144.7	1095.4	1070.1	1062.1
55°	1079.3	1152.7	1158.5	1143.5	1134.4	1157.3	1173.4	1153.9	1095.4	1072.4	1065.6
57.5°	1081.6	1147.0	1148.1	1127.5	1111.4	1140.1	1165.3	1159.6	1108.0	1081.6	1073.6
60°	1067.8	1116.0	1118.3	1086.2	1067.8	1102.3	1147.0	1143.5	1102.3	1074.7	1059.8
62.5°	1022.0	1064.4	1065.6	1035.7	1009.4	1058.7	1108.0	1106.8	1069.0	1041.5	1024.3
65°	945.1	989.9	1001.3	972.6	952.0	1004.8	1056.4	1054.1	1016.2	991.0	973.8
67.5°	849.9	898.1	919.9	900.4	892.4	940.5	988.7	987.6	956.6	932.5	917.6
70°	734.1	774.2	810.9	810.9	805.2	860.2	911.9	907.3	878.6	860.2	848.8
72.5°	637.7	668.7	680.2	691.6	708.8	766.2	809.8	813.2	792.6	783.4	792.6
75°	542.5	562.0	572.3	563.2	593.0	652.6	710.0	715.7	693.9	679.0	682.5
77.5°	446.2	468.0	478.3	457.6	455.4	531.1	601.0	613.6	595.3	572.3	579.2
80°	322.3	351.0	368.2	354.4	349.8	383.1	479.4	493.2	476.0	457.6	468.0
82.5°	197.3	213.3	217.9	231.7	260.4	274.1	308.5	354.4	341.8	325.7	354.4
85°	78.0	92.9	103.2	117.0	136.5	161.7	190.4	227.1	206.5	199.6	235.1
87.5°	4.6	1.1	0.0	2.3	19.5	37.9	81.4	112.4	94.1	100.9	121.6
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°	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7	2010.7
2.5°	1861.6	1891.4	1931.5	1964.8	2007.2	2047.4	2088.7	2130.0	2151.8	2160.9
5°	1729.7	1784.7	1848.9	1920.1	2002.6	2089.8	2178.1	2268.7	2326.1	2330.7
7.5°	1650.5	1729.7	1818.0	1907.4	2009.5	2130.0	2269.9	2409.8	2468.3	2484.4
10°	1675.8	1764.1	1834.0	1917.8	2030.2	2180.4	2345.6	2509.6	2577.3	2596.8
12.5°	1776.7	1793.9	1815.7	1892.5	2030.2	2224.0	2423.6	2618.6	2690.8	2709.2
15°	1860.4	1777.8	1738.8	1820.3	2002.6	2261.9	2506.2	2721.8	2809.0	2826.2
17.5°	1867.3	1725.1	1640.2	1713.6	1954.5	2288.2	2585.3	2836.5	2909.9	2926.0
20°	1797.3	1668.9	1558.8	1603.5	1889.1	2299.7	2642.7	2920.2	2992.5	3008.6
22.5°	1718.2	1623.0	1503.7	1501.4	1810.0	2312.3	2711.5	2999.4	3077.4	3087.7
25°	1643.6	1559.9	1459.0	1426.9	1718.2	2336.4	2804.4	3118.7	3178.3	3181.8
27.5°	1556.5	1492.2	1423.4	1392.4	1637.9	2382.3	2942.0	3260.9	3296.5	3290.7
30°	1477.3	1429.2	1398.2	1389.0	1587.4	2416.7	3072.8	3400.8	3403.1	3383.6
32.5°	1393.6	1375.2	1375.2	1405.1	1546.1	2408.7	3179.5	3537.3	3515.5	3486.9
35°	1319.0	1322.5	1346.6	1416.5	1477.3	2328.4	3281.5	3708.2	3676.1	3634.8
37.5°	1247.9	1274.3	1308.7	1376.4	1386.7	2209.1	3400.8	3950.2	3910.1	3858.5
40°	1187.1	1227.3	1267.4	1300.7	1290.4	2039.3	3567.1	4234.7	4190.0	4130.3
42.5°	1139.0	1178.0	1222.7	1226.1	1229.6	1862.7	3743.8	4583.4	4575.3	4510.0
45°	1108.0	1133.2	1175.7	1169.9	1226.1	1667.7	3906.7	5115.6	5221.1	5171.8
47.5°	1087.3	1106.8	1111.4	1135.5	1256.0	1493.4	4116.5	6157.0	6450.7	6394.5
50°	1075.9	1095.4	1043.8	1137.8	1260.5	1381.0	4406.7	7464.6	7937.2	7862.6
52.5°	1074.7	1070.1	992.1	1161.9	1235.3	1312.2	4558.1	8418.9	9467.3	9629.0
55°	1077.0	1019.7	965.8	1168.8	1184.8	1286.9	4051.2	8877.7	10879.2	11221.0
57.5°	1056.4	964.6	980.7	1141.3	1089.6	1354.6	2994.8	8713.7	11443.5	12079.0
60°	1017.4	911.9	1008.2	1066.7	992.1	1238.7	2062.3	7981.9	10858.6	11512.3
62.5°	961.2	875.2	1004.8	970.4	956.6	1013.9	1417.7	6957.6	9930.6	10569.5
65°	898.1	845.3	950.9	877.4	885.5	780.0	1002.5	5801.5	8822.7	9451.2
67.5°	830.4	827.0	871.7	781.1	747.8	618.2	730.6	4649.9	7399.2	7965.8
70°	753.6	778.8	792.6	693.9	606.8	485.2	542.5	3251.7	5458.5	5951.7
72.5°	676.7	679.0	698.5	603.3	454.2	388.8	407.2	1969.4	3708.2	4067.2
75°	598.7	576.9	595.3	490.9	338.4	318.9	314.3	1217.0	2561.2	2844.5
77.5°	515.0	490.9	466.8	369.3	271.8	246.6	240.9	682.5	1571.4	1745.7
80°	418.7	386.5	348.7	270.7	198.4	176.6	175.5	332.6	783.4	872.9
82.5°	325.7	265.0	254.6	168.6	122.7	107.8	114.7	127.3	236.3	263.8
85°	228.3	192.7	135.3	67.7	55.1	44.7	43.6	37.9	63.1	70.0
87.5°	127.3	83.7	43.6	8.0	9.2	10.3	8.0	5.7	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)