

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: P633866

Luminaire Tested: GWS-SA2F-750-U-SLR-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633866  
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-750-U-SLR-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

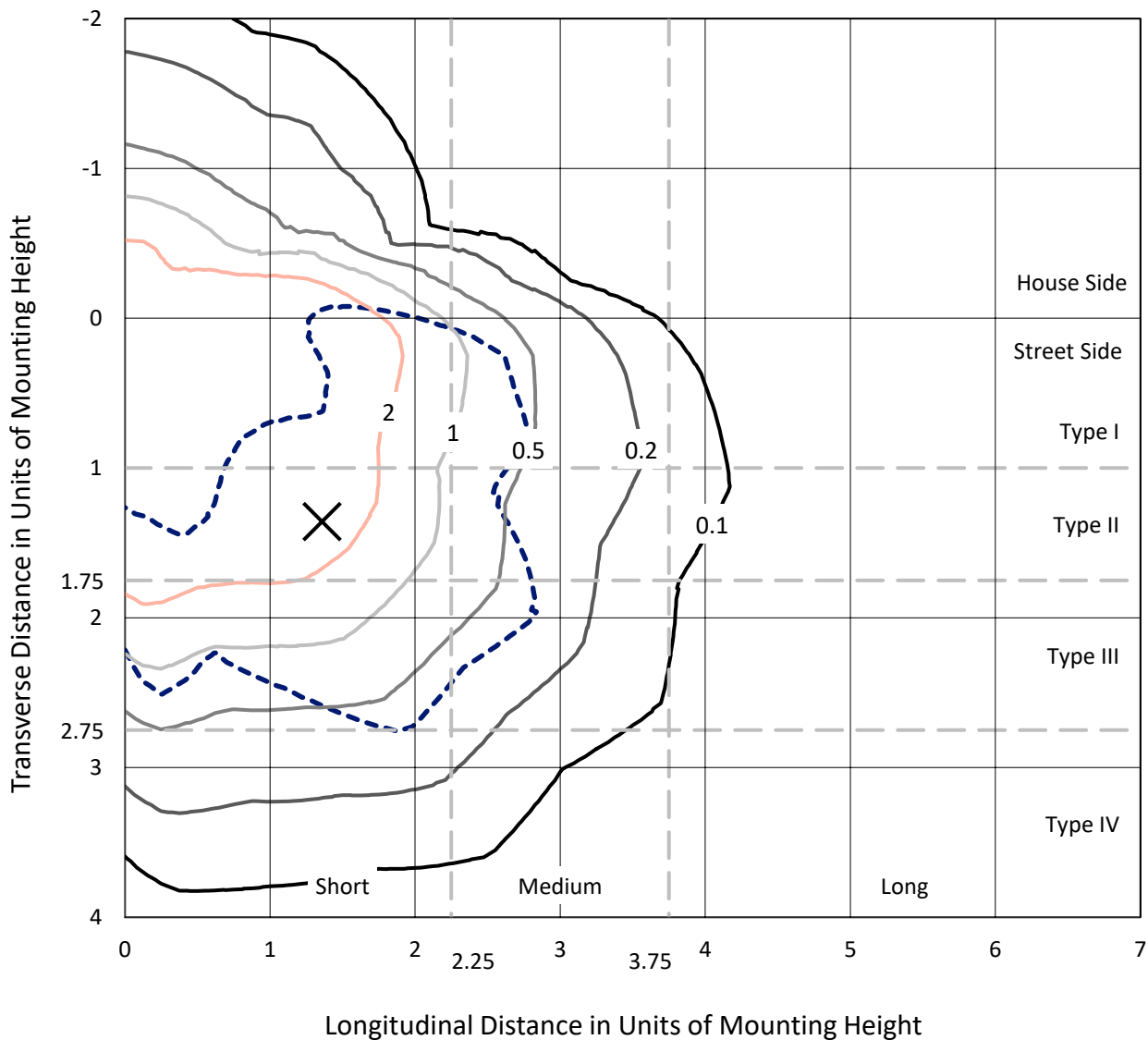
Lumens per Lamp: N/A  
Luminaire Lumens: 15712.3 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

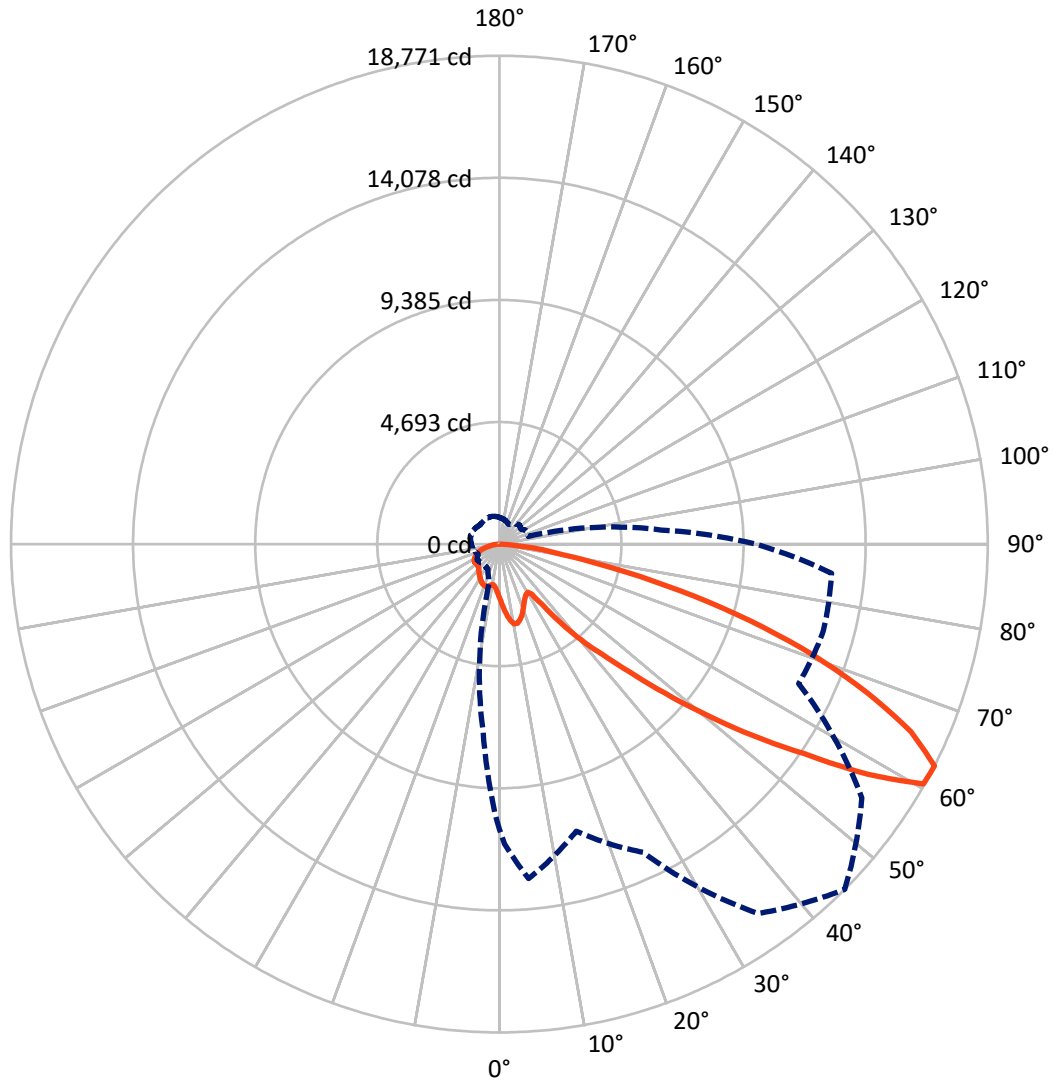
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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
<b>House Side</b>	Lumens	3749.2	0.0	3749.2
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	11963.1	0.0	11963.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	15712.3	0.0	15712.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.7	1.3
10°-20°	638.4	4.1
20°-30°	991.6	6.3
30°-40°	1346.4	8.6
40°-50°	2133.9	13.6
50°-60°	3764.2	24.0
60°-70°	4188.3	26.7
70°-80°	2124.1	13.5
80°-90°	321.6	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°	15712.3	100.0
0°-180°	15712.3	100.0

**Coefficient of Utilization**

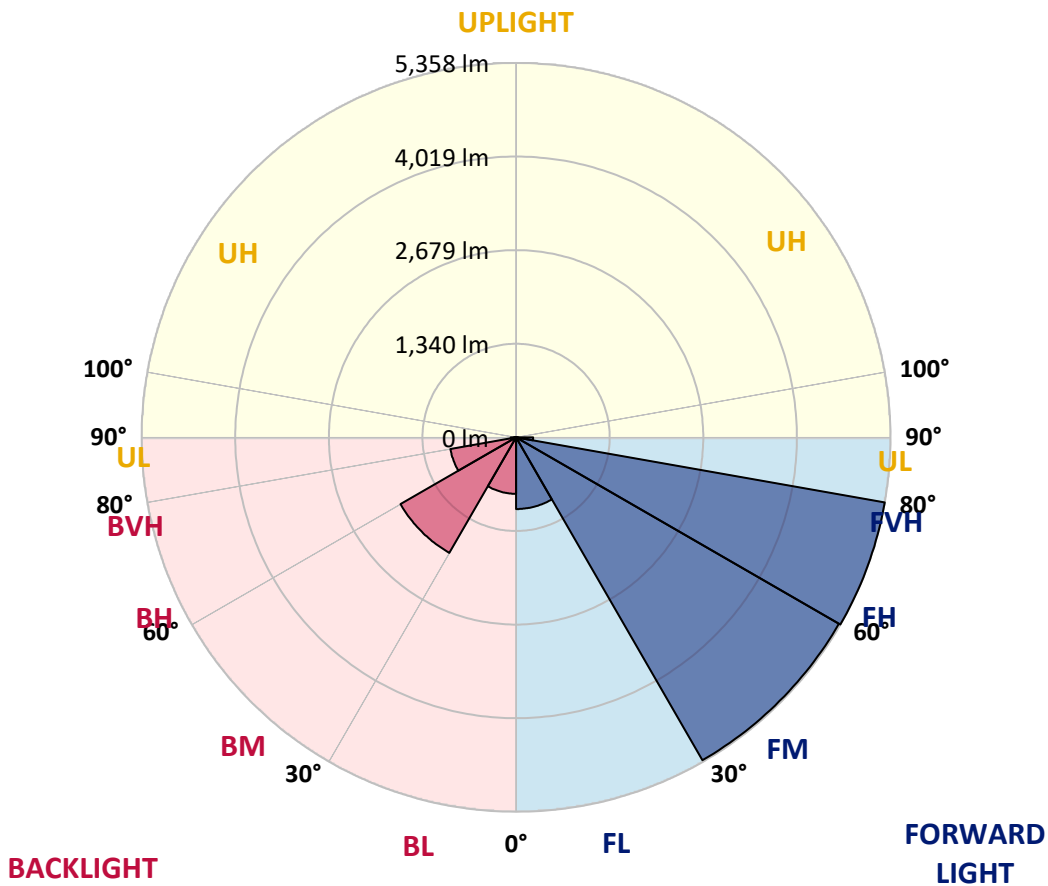


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.9	6.5			
FM (30°-60°)	5335.0	34.0			
FH (60°-80°)	5358.0	34.1			G3/7500
FVH (80°-90°)	244.1	1.6			G3/500
BL (0°-30°)	807.9	5.1	B2/1000		
BM (30°-60°)	1909.5	12.2	B2/2500		
BH (60°-80°)	954.4	6.1	B2/1000		G2/1000
BVH (80°-90°)	77.5	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°	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3
2.5°	2241.2	2240.0	2262.6	2297.1	2329.2	2343.5	2367.3	2364.9	2345.9	2320.9	2312.6
5°	2417.2	2422.0	2461.3	2537.4	2621.8	2657.5	2673.0	2667.1	2632.6	2588.5	2511.2
7.5°	2576.6	2585.0	2645.6	2759.8	2864.5	2912.1	2950.2	2943.0	2893.1	2811.0	2696.8
10°	2693.2	2702.7	2775.3	2909.7	3026.3	3067.9	3116.7	3119.1	3075.1	2964.4	2847.9
12.5°	2809.8	2819.3	2887.1	3009.7	3085.8	3087.0	3115.5	3131.0	3133.4	3082.2	2965.6
15°	2931.1	2939.5	3001.3	3070.3	3066.8	3000.1	3000.1	3029.9	3095.3	3132.2	3051.3
17.5°	3034.6	3045.3	3092.9	3070.3	2964.4	2844.3	2830.0	2868.1	2982.3	3123.9	3115.5
20°	3120.3	3128.6	3154.8	3004.9	2812.2	2655.2	2627.8	2671.8	2826.5	3072.7	3164.3
22.5°	3202.4	3207.1	3192.8	2919.2	2648.0	2468.4	2435.1	2481.5	2648.0	2982.3	3205.9
25°	3299.9	3295.2	3227.3	2830.0	2498.1	2320.9	2286.4	2338.7	2512.4	2862.1	3251.1
27.5°	3412.9	3395.1	3257.1	2733.7	2382.7	2211.4	2187.6	2243.6	2405.3	2751.5	3286.8
30°	3509.3	3474.8	3261.8	2648.0	2323.3	2165.0	2150.8	2203.1	2353.0	2676.6	3332.0
32.5°	3616.3	3568.8	3289.2	2625.4	2356.6	2276.9	2295.9	2299.5	2367.3	2655.2	3399.8
35°	3769.8	3707.9	3364.1	2690.8	2699.2	2833.6	2902.6	2809.8	2582.6	2702.7	3528.3
37.5°	4001.8	3923.3	3516.4	2974.0	3407.0	3707.9	3874.5	3662.7	3236.9	2882.4	3722.2
40°	4283.7	4183.8	3711.5	3497.4	4068.4	4550.2	4846.4	4535.9	3910.2	3330.8	3994.6
42.5°	4677.4	4572.8	4089.8	4011.3	4681.0	5398.3	5785.0	5322.2	4503.8	3910.2	4431.2
45°	5363.8	5262.7	4783.3	4526.4	5398.3	6442.8	6985.2	6341.7	5106.9	4491.9	5247.3
47.5°	6631.9	6513.0	5813.5	5097.4	6216.8	7798.9	8557.9	7620.5	5733.8	5158.0	6617.7
50°	8154.6	8040.4	7106.6	5773.1	7120.9	9249.0	10304.2	9122.9	6455.9	5968.1	8255.7
52.5°	9986.6	9965.2	8951.6	6627.2	8061.8	10795.5	12242.0	10787.2	7247.0	7059.0	10111.5
55°	11637.7	11847.1	11295.1	7929.8	9277.6	12738.1	14234.6	12602.5	8320.0	8862.4	12284.8
57.5°	12527.5	13090.2	13938.4	10587.3	11045.3	15060.2	16693.5	14818.7	10163.8	11864.9	14300.0
60°	11939.9	12577.5	14114.4	12588.2	12798.7	16920.7	18722.9	16681.6	11974.4	13949.1	14185.8
62.5°	10962.0	11534.2	12901.1	11420.0	13070.0	17329.9	18770.5	17006.3	12694.1	12891.5	12814.2
65°	9802.2	10379.1	11826.9	9968.7	12207.5	16358.0	17385.8	16051.1	11401.0	11647.2	11675.8
67.5°	8261.7	8794.6	10268.5	8863.6	11127.4	14931.7	15260.0	14690.2	10499.3	10891.8	10481.4
70°	6172.8	6653.4	7954.8	7202.9	9379.9	13073.5	12808.3	12892.7	9486.9	9877.1	8755.3
72.5°	4218.3	4579.9	5695.7	5660.0	7182.7	10466.0	10096.0	10896.6	7923.8	8441.3	6674.8
75°	2950.2	3232.1	4117.2	4471.7	5429.3	7757.3	7189.9	8155.8	6188.2	6927.0	4870.2
77.5°	1810.5	1997.3	2600.4	3313.0	3492.6	5309.1	4465.7	6137.1	4345.6	5052.2	3248.8
80°	905.3	995.7	1263.3	2083.0	2316.1	3128.6	2466.0	3562.8	2940.7	3128.6	1797.5
82.5°	273.6	302.2	370.0	791.1	1200.3	1801.0	1457.2	2069.9	1605.9	1466.8	707.8
85°	72.6	82.1	102.3	234.3	421.1	645.9	492.5	1002.8	769.7	541.3	266.5
87.5°	5.9	5.9	4.8	4.8	2.4	0.0	0.0	71.4	143.9	82.1	46.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3
2.5°	2270.9	2266.2	2217.4	2181.7	2140.1	2099.6	2058.0	2021.1	1979.5	1937.8	1925.9
5°	2454.1	2420.8	2317.3	2230.5	2144.8	2069.9	2004.5	1936.6	1881.9	1828.4	1808.2
7.5°	2615.9	2557.6	2407.7	2275.7	2156.7	2063.9	1967.6	1868.8	1791.5	1715.4	1696.3
10°	2762.2	2684.9	2495.8	2329.2	2197.2	2091.3	1978.3	1846.2	1734.4	1641.6	1616.6
12.5°	2870.5	2786.0	2571.9	2380.4	2230.5	2111.5	1999.7	1883.1	1765.3	1645.2	1617.8
15°	2956.1	2868.1	2634.9	2419.6	2231.7	2078.2	1970.0	1929.5	1892.6	1774.9	1724.9
17.5°	3025.1	2932.3	2689.7	2443.4	2199.5	1977.1	1883.1	1942.6	2036.6	1962.8	1868.8
20°	3088.2	2994.2	2731.3	2460.1	2128.2	1837.9	1785.6	1911.7	2053.2	2050.8	1966.4
22.5°	3157.2	3065.6	2792.0	2469.6	2028.2	1696.3	1727.3	1866.5	1981.8	2016.3	1964.0
25°	3245.2	3164.3	2876.4	2491.0	1915.2	1598.8	1684.5	1808.2	1904.5	1912.9	1881.9
27.5°	3347.5	3286.8	3002.5	2541.0	1805.8	1548.8	1634.5	1726.1	1814.1	1817.7	1780.8
30°	3459.3	3418.9	3119.1	2582.6	1723.7	1533.4	1570.3	1644.0	1699.9	1709.4	1677.3
32.5°	3602.1	3566.4	3222.6	2555.2	1674.9	1529.8	1510.8	1548.8	1595.2	1595.2	1570.3
35°	3798.3	3748.4	3332.0	2450.5	1615.5	1515.5	1447.7	1458.4	1478.7	1482.2	1467.9
37.5°	4076.7	3994.6	3442.7	2243.6	1517.9	1464.4	1375.2	1362.1	1369.2	1378.7	1375.2
40°	4421.7	4287.3	3604.4	1994.9	1401.3	1365.6	1300.2	1275.2	1269.3	1288.3	1295.5
42.5°	4855.9	4650.1	3778.1	1763.0	1295.5	1252.6	1212.2	1190.8	1181.3	1213.4	1232.4
45°	5549.4	5210.4	3944.7	1533.4	1236.0	1156.3	1128.9	1113.5	1118.2	1156.3	1180.1
47.5°	6747.3	6065.7	4102.9	1388.2	1231.2	1087.3	1054.0	1057.5	1070.6	1111.1	1139.6
50°	8262.9	7211.3	4208.8	1327.6	1245.5	1045.6	1001.6	1020.7	1040.9	1080.1	1113.5
52.5°	9805.8	8278.3	4082.7	1294.3	1244.3	1046.8	952.9	1010.0	1019.5	1058.7	1094.4
55°	10866.9	8397.3	3527.1	1243.1	1225.3	1094.4	914.8	1005.2	1011.1	1046.8	1079.0
57.5°	11271.3	7990.4	2689.7	1257.4	1168.2	1131.3	898.1	971.9	1014.7	1045.6	1079.0
60°	10782.4	7223.2	1634.5	1294.3	1076.6	1128.9	908.8	911.2	985.0	1037.3	1070.6
62.5°	9860.5	6238.2	1147.9	1189.6	1010.0	1065.9	933.8	839.8	932.6	995.7	1025.4
65°	8804.1	5079.5	875.5	1024.2	977.8	968.3	942.2	776.8	861.3	923.1	949.3
67.5°	7703.8	3948.2	711.4	763.7	883.9	875.5	861.3	720.9	776.8	820.8	850.6
70°	6317.9	2762.2	600.7	573.4	757.8	785.1	753.0	650.7	668.5	713.8	737.5
72.5°	4621.5	1721.3	493.7	473.5	609.1	686.4	669.7	573.4	581.7	624.5	643.6
75°	3323.7	985.0	396.1	390.2	465.1	587.7	554.3	493.7	503.2	535.3	548.4
77.5°	2112.7	548.4	305.7	314.1	333.1	439.0	473.5	422.3	422.3	441.3	452.0
80°	1131.3	314.1	223.6	227.2	233.2	335.5	373.5	327.1	327.1	314.1	327.1
82.5°	461.6	180.8	153.5	142.8	155.8	229.6	261.7	208.2	217.7	196.3	201.0
85°	152.3	90.4	76.1	74.9	73.8	101.1	126.1	103.5	123.7	78.5	82.1
87.5°	20.2	16.7	9.5	7.1	8.3	3.6	7.1	8.3	8.3	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°	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3
2.5°	1917.6	1908.1	1873.6	1881.9	1876.0	1866.5	1876.0	1858.1	1872.4	1877.2	1906.9
5°	1792.7	1770.1	1736.8	1720.1	1716.6	1707.1	1708.2	1699.9	1702.3	1722.5	1755.8
7.5°	1680.9	1659.5	1633.3	1621.4	1610.7	1600.0	1598.8	1597.6	1607.1	1625.0	1657.1
10°	1600.0	1588.1	1577.4	1582.1	1577.4	1572.6	1564.3	1564.3	1579.8	1611.9	1651.1
12.5°	1600.0	1597.6	1600.0	1614.3	1613.1	1614.3	1603.6	1609.5	1652.3	1707.1	1763.0
15°	1685.6	1666.6	1666.6	1673.7	1671.4	1671.4	1671.4	1696.3	1793.9	1878.4	1937.8
17.5°	1790.3	1734.4	1710.6	1707.1	1705.9	1705.9	1710.6	1764.2	1916.4	2005.6	2040.1
20°	1862.9	1757.0	1717.8	1702.3	1703.5	1705.9	1720.1	1793.9	1961.6	2006.8	1998.5
22.5°	1876.0	1739.2	1691.6	1669.0	1672.6	1674.9	1696.3	1774.9	1899.8	1906.9	1890.3
25°	1815.3	1689.2	1638.1	1620.2	1625.0	1623.8	1642.8	1699.9	1789.1	1786.8	1777.2
27.5°	1724.9	1609.5	1571.4	1559.5	1567.9	1558.4	1564.3	1608.3	1677.3	1674.9	1671.4
30°	1632.1	1532.2	1497.7	1491.7	1502.4	1488.2	1489.4	1526.2	1573.8	1571.4	1570.3
32.5°	1539.3	1454.9	1423.9	1423.9	1434.6	1419.2	1421.6	1453.7	1485.8	1476.3	1476.3
35°	1451.3	1391.8	1366.8	1362.1	1370.4	1359.7	1364.5	1394.2	1406.1	1393.0	1384.7
37.5°	1374.0	1347.8	1322.8	1306.2	1307.4	1308.5	1322.8	1345.4	1338.3	1319.3	1308.5
40°	1302.6	1302.6	1278.8	1247.9	1244.3	1252.6	1276.4	1301.4	1281.2	1259.8	1246.7
42.5°	1251.4	1262.2	1239.5	1208.6	1201.5	1215.8	1241.9	1259.8	1236.0	1212.2	1194.3
45°	1203.9	1230.0	1214.6	1180.1	1170.6	1187.2	1220.5	1227.7	1195.5	1172.9	1159.8
47.5°	1170.6	1206.2	1195.5	1162.2	1147.9	1171.7	1206.2	1205.0	1164.6	1140.8	1130.1
50°	1146.8	1192.0	1190.8	1162.2	1146.8	1176.5	1207.4	1192.0	1147.9	1123.0	1112.3
52.5°	1127.7	1190.8	1199.1	1182.4	1171.7	1197.9	1216.9	1187.2	1136.1	1109.9	1101.6
55°	1119.4	1195.5	1201.5	1186.0	1176.5	1200.3	1216.9	1196.7	1136.1	1112.3	1105.1
57.5°	1121.8	1189.6	1190.8	1169.4	1152.7	1182.4	1208.6	1202.7	1149.1	1121.8	1113.5
60°	1107.5	1157.5	1159.8	1126.5	1107.5	1143.2	1189.6	1186.0	1143.2	1114.6	1099.2
62.5°	1059.9	1103.9	1105.1	1074.2	1046.8	1098.0	1149.1	1147.9	1108.7	1080.1	1062.3
65°	980.2	1026.6	1038.5	1008.8	987.4	1042.1	1095.6	1093.2	1054.0	1027.8	1010.0
67.5°	881.5	931.4	954.0	933.8	925.5	975.5	1025.4	1024.2	992.1	967.1	951.7
70°	761.3	803.0	841.0	841.0	835.1	892.2	945.7	941.0	911.2	892.2	880.3
72.5°	661.4	693.5	705.4	717.3	735.2	794.6	839.8	843.4	822.0	812.5	822.0
75°	562.7	582.9	593.6	584.1	615.0	676.9	736.4	742.3	719.7	704.2	707.8
77.5°	462.7	485.4	496.1	474.6	472.3	550.8	623.3	636.4	617.4	593.6	600.7
80°	334.3	364.0	381.9	367.6	362.8	397.3	497.2	511.5	493.7	474.6	485.4
82.5°	204.6	221.3	226.0	240.3	270.0	284.3	320.0	367.6	354.5	337.8	367.6
85°	80.9	96.4	107.1	121.3	141.6	167.7	197.5	235.5	214.1	207.0	243.9
87.5°	4.8	1.2	0.0	2.4	20.2	39.3	84.5	116.6	97.5	104.7	126.1
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°	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3	2085.3
2.5°	1930.7	1961.6	2003.3	2037.8	2081.8	2123.4	2166.2	2209.1	2231.7	2241.2
5°	1793.9	1851.0	1917.6	1991.4	2077.0	2167.4	2259.0	2353.0	2412.5	2417.2
7.5°	1711.8	1793.9	1885.5	1978.3	2084.2	2209.1	2354.2	2499.3	2560.0	2576.6
10°	1738.0	1829.6	1902.1	1989.0	2105.6	2261.4	2432.7	2602.8	2673.0	2693.2
12.5°	1842.7	1860.5	1883.1	1962.8	2105.6	2306.6	2513.6	2715.8	2790.8	2809.8
15°	1929.5	1843.9	1803.4	1887.9	2077.0	2345.9	2599.2	2822.9	2913.3	2931.1
17.5°	1936.6	1789.1	1701.1	1777.2	2027.1	2373.2	2681.3	2941.8	3018.0	3034.6
20°	1864.1	1730.8	1616.6	1663.0	1959.2	2385.1	2740.8	3028.7	3103.6	3120.3
22.5°	1782.0	1683.3	1559.5	1557.2	1877.2	2398.2	2812.2	3110.8	3191.7	3202.4
25°	1704.7	1617.8	1513.2	1479.8	1782.0	2423.2	2908.5	3234.5	3296.3	3299.9
27.5°	1614.3	1547.7	1476.3	1444.2	1698.7	2470.8	3051.3	3382.0	3418.9	3412.9
30°	1532.2	1482.2	1450.1	1440.6	1646.4	2506.5	3186.9	3527.1	3529.5	3509.3
32.5°	1445.3	1426.3	1426.3	1457.2	1603.6	2498.1	3297.5	3668.7	3646.1	3616.3
35°	1368.0	1371.6	1396.6	1469.1	1532.2	2414.9	3403.4	3845.9	3812.6	3769.8
37.5°	1294.3	1321.6	1357.3	1427.5	1438.2	2291.1	3527.1	4096.9	4055.3	4001.8
40°	1231.2	1272.9	1314.5	1349.0	1338.3	2115.1	3699.6	4391.9	4345.6	4283.7
42.5°	1181.3	1221.7	1268.1	1271.7	1275.2	1931.9	3882.8	4753.6	4745.3	4677.4
45°	1149.1	1175.3	1219.3	1213.4	1271.7	1729.7	4051.7	5305.6	5415.0	5363.8
47.5°	1127.7	1147.9	1152.7	1177.7	1302.6	1548.8	4269.4	6385.7	6690.2	6631.9
50°	1115.8	1136.1	1082.5	1180.1	1307.4	1432.3	4570.4	7741.8	8231.9	8154.6
52.5°	1114.6	1109.9	1029.0	1205.0	1281.2	1360.9	4727.4	8731.6	9818.8	9986.6
55°	1117.0	1057.5	1001.6	1212.2	1228.8	1334.7	4201.6	9207.4	11283.2	11637.7
57.5°	1095.6	1000.4	1017.1	1183.6	1130.1	1404.9	3106.0	9037.3	11868.5	12527.5
60°	1055.2	945.7	1045.6	1106.3	1029.0	1284.8	2138.9	8278.3	11261.8	11939.9
62.5°	996.9	907.7	1042.1	1006.4	992.1	1051.6	1470.3	7216.0	10299.4	10962.0
65°	931.4	876.7	986.2	910.0	918.4	808.9	1039.7	6016.9	9150.3	9802.2
67.5°	861.3	857.7	904.1	810.1	775.6	641.2	757.8	4822.6	7674.0	8261.7
70°	781.6	807.7	822.0	719.7	629.3	503.2	562.7	3372.5	5661.2	6172.8
72.5°	701.9	704.2	724.5	625.7	471.1	403.3	422.3	2042.5	3845.9	4218.3
75°	621.0	598.4	617.4	509.1	350.9	330.7	325.9	1262.2	2656.3	2950.2
77.5°	534.1	509.1	484.2	383.0	281.9	255.8	249.8	707.8	1629.7	1810.5
80°	434.2	400.9	361.6	280.7	205.8	183.2	182.0	345.0	812.5	905.3
82.5°	337.8	274.8	264.1	174.9	127.3	111.8	119.0	132.0	245.1	273.6
85°	236.7	199.9	140.4	70.2	57.1	46.4	45.2	39.3	65.4	72.6
87.5°	132.0	86.8	45.2	8.3	9.5	10.7	8.3	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

(END OF REPORT)