

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: P633811

Luminaire Tested: GWS-SA2F-740-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633811
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-740-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15360.3 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

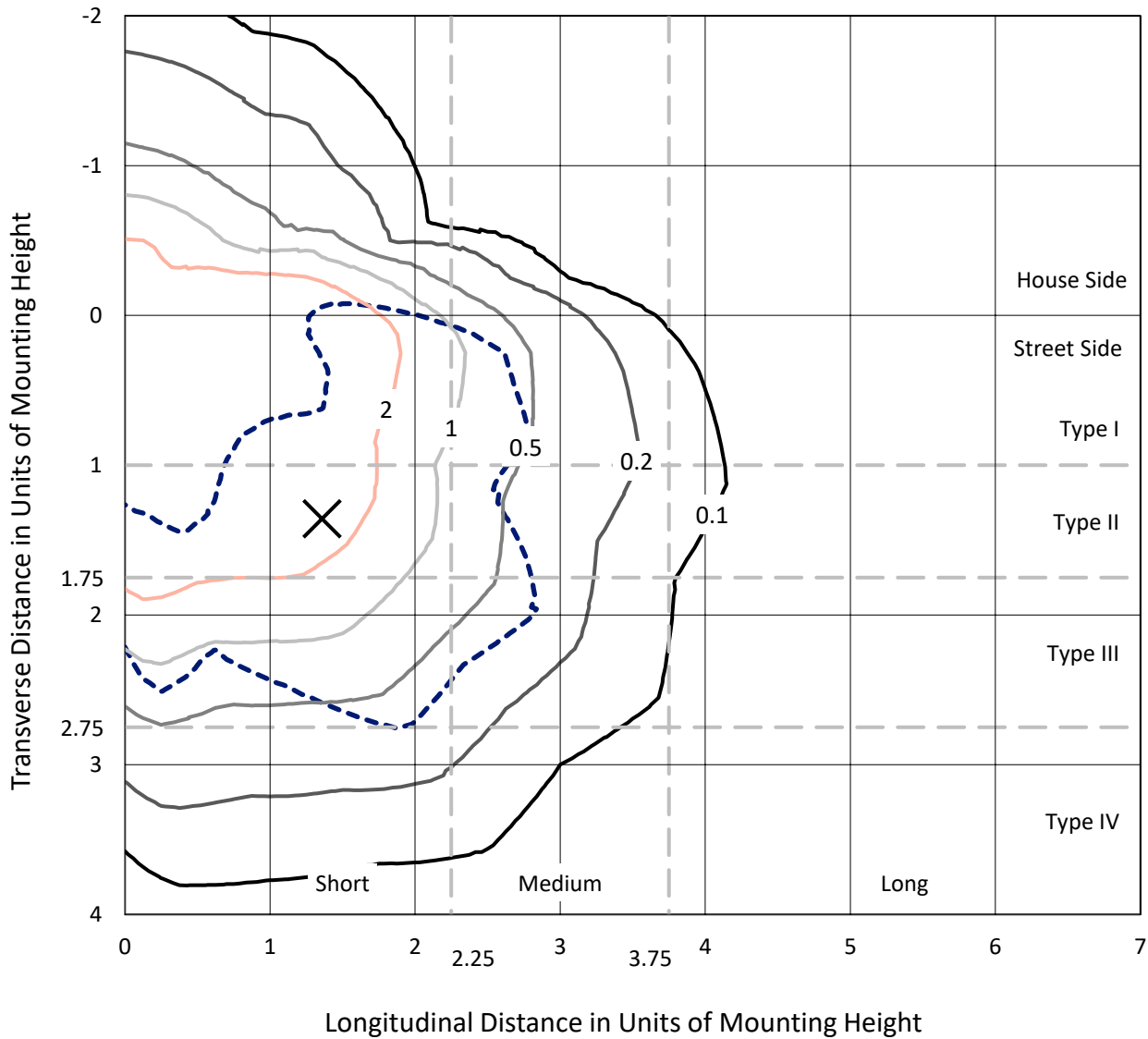
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

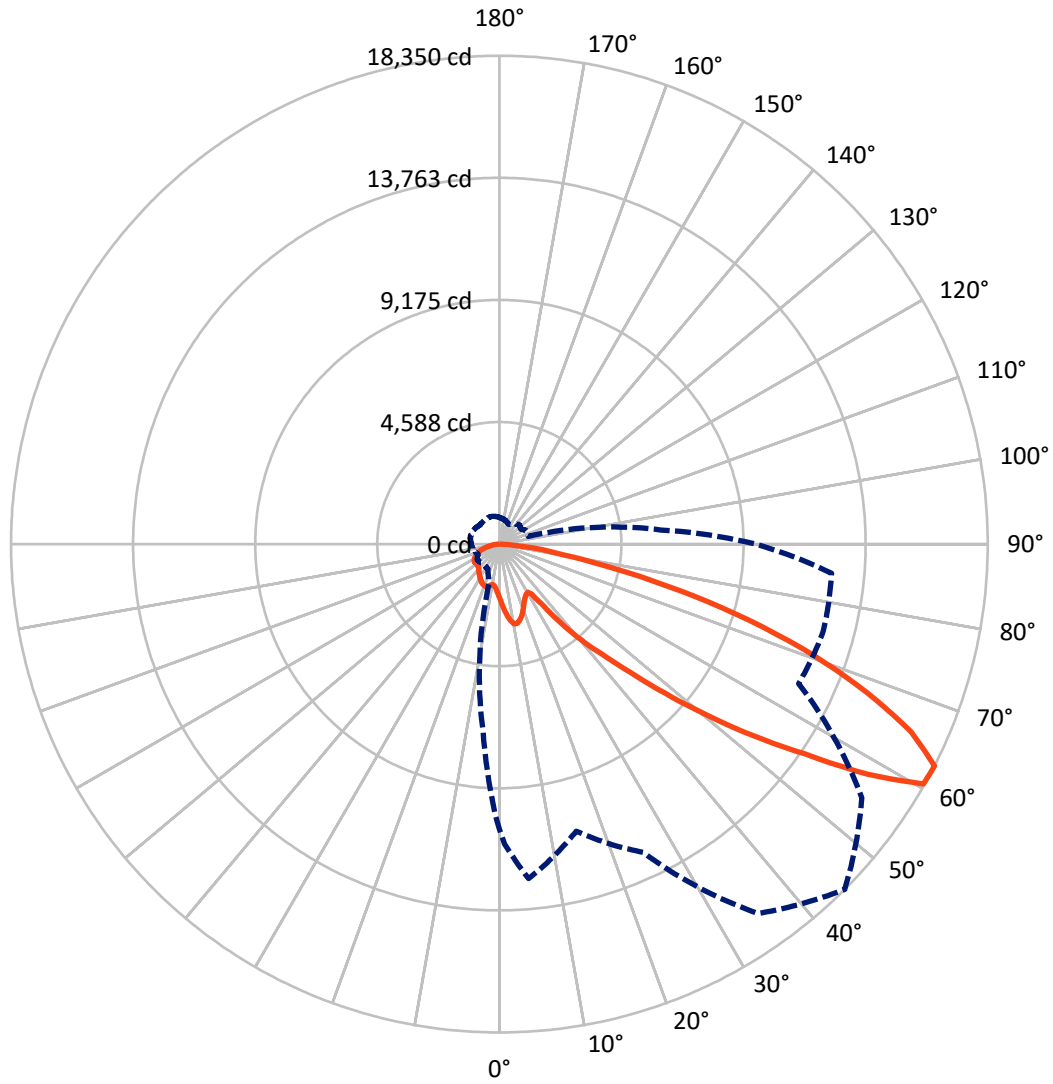
✕ Max cd
 - - - 1/2 Max cd



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	3665.2	0.0	3665.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	11695.0	0.0	11695.0
	% Fixture	76.1	0.0	76.1
Total	Lumens	15360.3	0.0	15360.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.3
10°-20°	624.1	4.1
20°-30°	969.4	6.3
30°-40°	1316.2	8.6
40°-50°	2086.1	13.6
50°-60°	3679.9	24.0
60°-70°	4094.4	26.7
70°-80°	2076.5	13.5
80°-90°	314.4	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°	15360.3	100.0
0°-180°	15360.3	100.0

Coefficient of Utilization



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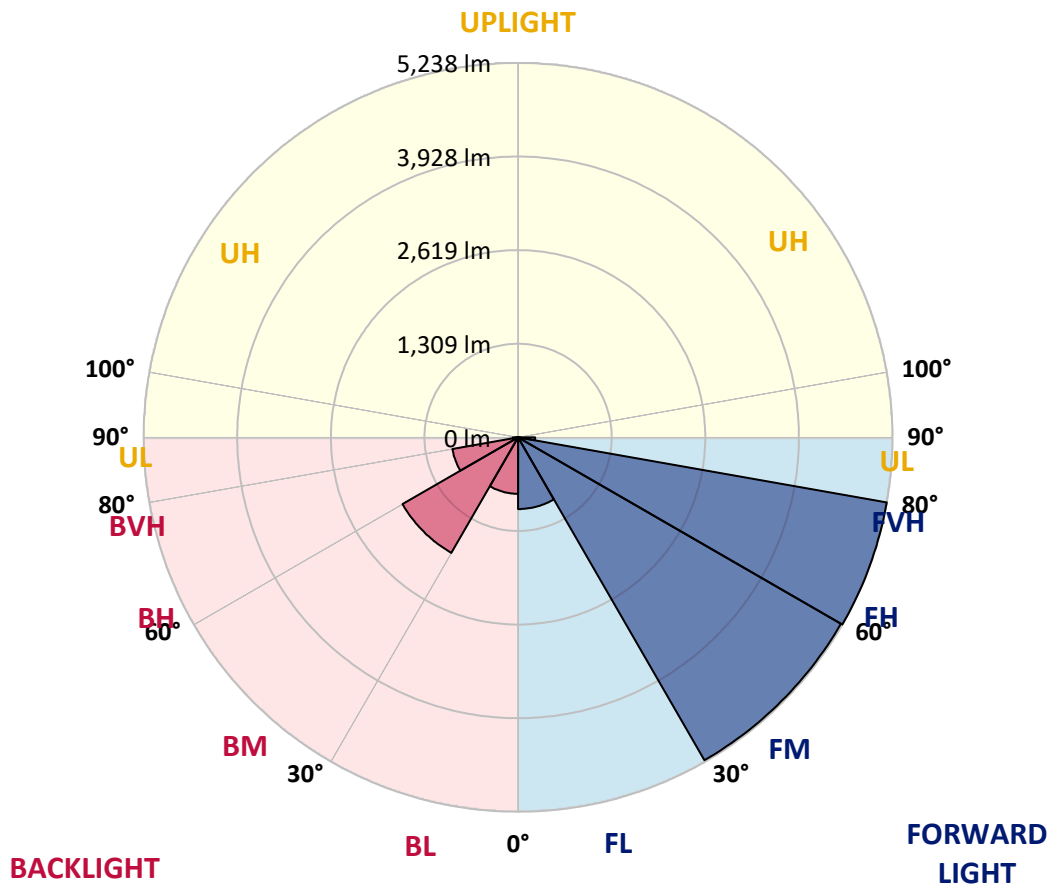
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1002.9	6.5			
FM (30°-60°)	5215.5	34.0			
FH (60°-80°)	5238.0	34.1			G3/7500
FVH (80°-90°)	238.7	1.6			G3/500
BL (0°-30°)	789.8	5.1	B2/1000		
BM (30°-60°)	1866.7	12.2	B2/2500		
BH (60°-80°)	933.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	75.8	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°	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6
2.5°	2191.0	2189.8	2211.9	2245.6	2277.0	2291.0	2314.2	2311.9	2293.3	2268.9	2260.7
5°	2363.1	2367.7	2406.1	2480.5	2563.1	2598.0	2613.1	2607.3	2573.6	2530.5	2455.0
7.5°	2518.9	2527.1	2586.4	2698.0	2800.3	2846.9	2884.1	2877.1	2828.3	2748.0	2636.4
10°	2632.9	2642.2	2713.1	2844.5	2958.5	2999.2	3046.9	3049.2	3006.2	2898.0	2784.1
12.5°	2746.9	2756.2	2822.4	2942.2	3016.7	3017.8	3045.7	3060.8	3063.2	3013.2	2899.2
15°	2865.5	2873.6	2934.1	3001.5	2998.0	2932.9	2932.9	2962.0	3026.0	3062.0	2982.9
17.5°	2966.6	2977.1	3023.6	3001.5	2898.0	2780.6	2766.6	2803.8	2915.5	3053.9	3045.7
20°	3050.4	3058.5	3084.1	2937.6	2749.2	2595.7	2568.9	2612.0	2763.1	3003.9	3093.4
22.5°	3130.6	3135.3	3121.3	2853.8	2588.7	2413.1	2380.5	2425.9	2588.7	2915.5	3134.1
25°	3226.0	3221.3	3155.0	2766.6	2442.2	2268.9	2235.2	2286.3	2456.1	2798.0	3178.3
27.5°	3336.5	3319.0	3184.1	2672.4	2329.4	2161.9	2138.6	2193.3	2351.5	2689.9	3213.2
30°	3430.7	3396.9	3188.8	2588.7	2271.2	2116.5	2102.6	2153.8	2300.3	2616.6	3257.4
32.5°	3535.3	3488.8	3215.5	2566.6	2303.8	2225.9	2244.5	2248.0	2314.2	2595.7	3323.7
35°	3685.3	3624.9	3288.8	2630.6	2638.7	2770.1	2837.6	2746.9	2524.7	2642.2	3449.3
37.5°	3912.1	3835.4	3437.6	2907.3	3330.6	3624.9	3787.7	3580.7	3164.3	2817.8	3638.8
40°	4187.7	4090.0	3628.4	3419.0	3977.2	4448.2	4737.8	4434.3	3822.6	3256.2	3905.1
42.5°	4572.7	4470.3	3998.2	3921.4	4576.2	5277.4	5655.4	5203.0	4402.9	3822.6	4331.9
45°	5243.7	5144.8	4676.2	4425.0	5277.4	6298.5	6828.8	6199.6	4992.5	4391.2	5129.7
47.5°	6483.4	6367.1	5683.3	4983.2	6077.5	7624.2	8366.2	7449.8	5605.3	5042.5	6469.4
50°	7971.9	7860.3	6947.4	5643.7	6961.3	9041.8	10073.3	8918.6	6311.2	5834.4	8070.8
52.5°	9762.8	9741.9	8751.1	6478.7	7881.2	10553.6	11967.8	10545.5	7084.6	6900.9	9884.9
55°	11377.0	11581.7	11042.1	7752.1	9069.7	12452.7	13915.7	12320.1	8133.6	8663.9	12009.6
57.5°	12246.9	12796.9	13626.1	10350.1	10797.9	14722.8	16319.5	14486.7	9936.1	11599.1	13979.6
60°	11672.4	12295.7	13798.2	12306.2	12512.0	16541.6	18303.4	16307.8	11706.1	13636.6	13868.0
62.5°	10716.4	11275.8	12612.0	11164.2	12777.2	16941.6	18350.0	16625.3	12409.7	12602.7	12527.1
65°	9582.6	10146.6	11561.9	9745.4	11934.0	15991.5	16996.3	15691.5	11145.6	11386.3	11414.2
67.5°	8076.6	8597.6	10038.5	8665.0	10878.1	14597.2	14918.1	14361.1	10264.1	10647.8	10246.6
70°	6034.5	6504.3	7776.5	7041.6	9169.7	12780.7	12521.3	12603.9	9274.4	9655.9	8559.2
72.5°	4123.8	4477.3	5568.1	5533.2	7021.8	10231.5	9869.8	10652.5	7746.3	8252.2	6525.2
75°	2884.1	3159.7	4024.9	4371.5	5307.6	7583.5	7028.8	7973.1	6049.6	6771.8	4761.1
77.5°	1770.0	1952.6	2542.2	3238.8	3414.4	5190.2	4365.7	5999.6	4248.2	4939.0	3176.0
80°	885.0	973.4	1235.0	2036.3	2264.2	3058.5	2410.8	3483.0	2874.8	3058.5	1757.2
82.5°	267.5	295.4	361.7	773.4	1173.4	1760.7	1424.6	2023.5	1570.0	1433.9	691.9
85°	70.9	80.2	100.0	229.1	411.7	631.5	481.5	980.4	752.4	529.1	260.5
87.5°	5.8	5.8	4.7	4.7	2.3	0.0	0.0	69.8	140.7	80.2	45.4
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°	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6
2.5°	2220.0	2215.4	2167.7	2132.8	2092.1	2052.6	2011.9	1975.8	1935.1	1894.4	1882.8
5°	2399.1	2366.6	2265.4	2180.5	2096.8	2023.5	1959.5	1893.3	1839.8	1787.4	1767.7
7.5°	2557.3	2500.3	2353.8	2224.7	2108.4	2017.7	1923.5	1827.0	1751.4	1677.0	1658.3
10°	2700.3	2624.7	2439.8	2277.0	2147.9	2044.4	1934.0	1804.9	1695.6	1604.9	1580.4
12.5°	2806.2	2723.6	2514.3	2327.0	2180.5	2064.2	1954.9	1840.9	1725.8	1608.3	1581.6
15°	2889.9	2803.8	2575.9	2365.4	2181.7	2031.6	1925.8	1886.3	1850.2	1735.1	1686.3
17.5°	2957.3	2866.6	2629.4	2388.7	2150.3	1932.8	1840.9	1899.1	1990.9	1918.8	1827.0
20°	3019.0	2927.1	2670.1	2405.0	2080.5	1796.7	1745.6	1868.8	2007.2	2004.9	1922.3
22.5°	3086.4	2996.9	2729.4	2414.3	1982.8	1658.3	1688.6	1824.6	1937.5	1971.2	1920.0
25°	3172.5	3093.4	2812.0	2435.2	1872.3	1563.0	1646.7	1767.7	1861.9	1870.0	1839.8
27.5°	3272.5	3213.2	2935.2	2484.0	1765.3	1514.1	1597.9	1687.4	1773.5	1777.0	1740.9
30°	3381.8	3342.3	3049.2	2524.7	1685.1	1499.0	1535.1	1607.2	1661.8	1671.1	1639.7
32.5°	3521.4	3486.5	3150.4	2498.0	1637.4	1495.5	1476.9	1514.1	1559.5	1559.5	1535.1
35°	3713.3	3664.4	3257.4	2395.6	1579.3	1481.6	1415.3	1425.8	1445.5	1449.0	1435.1
37.5°	3985.4	3905.1	3365.5	2193.3	1483.9	1431.6	1344.4	1331.6	1338.5	1347.8	1344.4
40°	4322.6	4191.2	3523.7	1950.2	1369.9	1335.0	1271.1	1246.7	1240.9	1259.5	1266.4
42.5°	4747.1	4545.9	3693.5	1723.5	1266.4	1224.6	1185.0	1164.1	1154.8	1186.2	1204.8
45°	5425.1	5093.7	3856.3	1499.0	1208.3	1130.4	1103.6	1088.5	1093.2	1130.4	1153.6
47.5°	6596.2	5929.8	4011.0	1357.1	1203.6	1062.9	1030.4	1033.8	1046.6	1086.2	1114.1
50°	8077.7	7049.7	4114.5	1297.8	1217.6	1022.2	979.2	997.8	1017.6	1055.9	1088.5
52.5°	9586.1	8092.9	3991.2	1265.3	1216.4	1023.4	931.5	987.3	996.6	1035.0	1069.9
55°	10623.4	8209.2	3448.1	1215.3	1197.8	1069.9	894.3	982.7	988.5	1023.4	1054.8
57.5°	11018.8	7811.4	2629.4	1229.2	1142.0	1106.0	878.0	950.1	992.0	1022.2	1054.8
60°	10540.8	7061.3	1597.9	1265.3	1052.5	1103.6	888.5	890.8	962.9	1014.1	1046.6
62.5°	9639.6	6098.4	1122.2	1162.9	987.3	1042.0	912.9	821.0	911.7	973.4	1002.5
65°	8606.9	4965.7	855.9	1001.3	955.9	946.6	921.0	759.4	842.0	902.4	928.0
67.5°	7531.2	3859.8	695.4	746.6	864.1	855.9	842.0	704.7	759.4	802.4	831.5
70°	6176.3	2700.3	587.3	560.5	740.8	767.5	736.1	636.1	653.6	697.8	721.0
72.5°	4518.0	1682.8	482.6	462.8	595.4	671.0	654.7	560.5	568.7	610.5	629.1
75°	3249.2	962.9	387.3	381.4	454.7	574.5	541.9	482.6	491.9	523.3	536.1
77.5°	2065.4	536.1	298.9	307.0	325.6	429.1	462.8	412.8	412.8	431.4	441.9
80°	1106.0	307.0	218.6	222.1	227.9	327.9	365.2	319.8	319.8	307.0	319.8
82.5°	451.2	176.8	150.0	139.6	152.3	224.4	255.8	203.5	212.8	191.9	196.5
85°	148.9	88.4	74.4	73.3	72.1	98.8	123.3	101.2	120.9	76.8	80.2
87.5°	19.8	16.3	9.3	7.0	8.1	3.5	7.0	8.1	8.1	5.8	5.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6
2.5°	1874.7	1865.3	1831.6	1839.8	1833.9	1824.6	1833.9	1816.5	1830.5	1835.1	1864.2
5°	1752.5	1730.4	1697.9	1681.6	1678.1	1668.8	1670.0	1661.8	1664.2	1683.9	1716.5
7.5°	1643.2	1622.3	1596.7	1585.1	1574.6	1564.1	1563.0	1561.8	1571.1	1588.6	1620.0
10°	1564.1	1552.5	1542.1	1546.7	1542.1	1537.4	1529.3	1529.3	1544.4	1575.8	1614.2
12.5°	1564.1	1561.8	1564.1	1578.1	1576.9	1578.1	1567.6	1573.5	1615.3	1668.8	1723.5
15°	1647.9	1629.3	1629.3	1636.2	1633.9	1633.9	1633.9	1658.3	1753.7	1836.3	1894.4
17.5°	1750.2	1695.6	1672.3	1668.8	1667.6	1667.6	1672.3	1724.6	1873.5	1960.7	1994.4
20°	1821.2	1717.7	1679.3	1664.2	1665.3	1667.6	1681.6	1753.7	1917.7	1961.9	1953.7
22.5°	1833.9	1700.2	1653.7	1631.6	1635.1	1637.4	1658.3	1735.1	1857.2	1864.2	1847.9
25°	1774.6	1651.4	1601.4	1583.9	1588.6	1587.4	1606.0	1661.8	1749.1	1746.7	1737.4
27.5°	1686.3	1573.5	1536.2	1524.6	1532.7	1523.4	1529.3	1572.3	1639.7	1637.4	1633.9
30°	1595.5	1497.9	1464.1	1458.3	1468.8	1454.8	1456.0	1492.0	1538.6	1536.2	1535.1
32.5°	1504.8	1422.3	1392.0	1392.0	1402.5	1387.4	1389.7	1421.1	1452.5	1443.2	1443.2
35°	1418.8	1360.6	1336.2	1331.6	1339.7	1329.2	1333.9	1363.0	1374.6	1361.8	1353.7
37.5°	1343.2	1317.6	1293.2	1276.9	1278.1	1279.2	1293.2	1315.3	1308.3	1289.7	1279.2
40°	1273.4	1273.4	1250.2	1219.9	1216.4	1224.6	1247.8	1272.3	1252.5	1231.5	1218.8
42.5°	1223.4	1233.9	1211.8	1181.5	1174.6	1188.5	1214.1	1231.5	1208.3	1185.0	1167.6
45°	1176.9	1202.5	1187.4	1153.6	1144.3	1160.6	1193.2	1200.1	1168.7	1146.7	1133.9
47.5°	1144.3	1179.2	1168.7	1136.2	1122.2	1145.5	1179.2	1178.1	1138.5	1115.3	1104.8
50°	1121.1	1165.3	1164.1	1136.2	1121.1	1150.1	1180.4	1165.3	1122.2	1097.8	1087.3
52.5°	1102.5	1164.1	1172.2	1156.0	1145.5	1171.1	1189.7	1160.6	1110.6	1085.0	1076.9
55°	1094.3	1168.7	1174.6	1159.4	1150.1	1173.4	1189.7	1169.9	1110.6	1087.3	1080.4
57.5°	1096.6	1162.9	1164.1	1143.2	1126.9	1156.0	1181.5	1175.7	1123.4	1096.6	1088.5
60°	1082.7	1131.5	1133.9	1101.3	1082.7	1117.6	1162.9	1159.4	1117.6	1089.7	1074.6
62.5°	1036.2	1079.2	1080.4	1050.1	1023.4	1073.4	1123.4	1122.2	1083.9	1055.9	1038.5
65°	958.3	1003.6	1015.2	986.2	965.2	1018.7	1071.1	1068.7	1030.4	1004.8	987.3
67.5°	861.7	910.6	932.7	912.9	904.8	953.6	1002.5	1001.3	969.9	945.5	930.3
70°	744.3	785.0	822.2	822.2	816.4	872.2	924.5	919.9	890.8	872.2	860.6
72.5°	646.6	678.0	689.6	701.2	718.7	776.8	821.0	824.5	803.6	794.3	803.6
75°	550.1	569.8	580.3	571.0	601.2	661.7	719.9	725.7	703.6	688.5	691.9
77.5°	452.4	474.5	484.9	464.0	461.7	538.4	609.4	622.2	603.6	580.3	587.3
80°	326.8	355.9	373.3	359.3	354.7	388.4	486.1	500.1	482.6	464.0	474.5
82.5°	200.0	216.3	221.0	234.9	264.0	277.9	312.8	359.3	346.6	330.3	359.3
85°	79.1	94.2	104.7	118.6	138.4	164.0	193.0	230.3	209.3	202.4	238.4
87.5°	4.7	1.2	0.0	2.3	19.8	38.4	82.6	114.0	95.4	102.3	123.3
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°	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6	2038.6
2.5°	1887.4	1917.7	1958.4	1992.1	2035.1	2075.8	2117.7	2159.6	2181.7	2191.0
5°	1753.7	1809.5	1874.7	1946.8	2030.5	2118.9	2208.4	2300.3	2358.4	2363.1
7.5°	1673.5	1753.7	1843.3	1934.0	2037.5	2159.6	2301.4	2443.3	2502.6	2518.9
10°	1699.0	1788.6	1859.5	1944.4	2058.4	2210.7	2378.2	2544.5	2613.1	2632.9
12.5°	1801.4	1818.8	1840.9	1918.8	2058.4	2254.9	2457.3	2655.0	2728.2	2746.9
15°	1886.3	1802.5	1763.0	1845.6	2030.5	2293.3	2541.0	2759.6	2848.0	2865.5
17.5°	1893.3	1749.1	1663.0	1737.4	1981.6	2320.1	2621.3	2875.9	2950.4	2966.6
20°	1822.3	1692.1	1580.4	1625.8	1915.4	2331.7	2679.4	2960.8	3034.1	3050.4
22.5°	1742.1	1645.6	1524.6	1522.3	1835.1	2344.5	2749.2	3041.1	3120.2	3130.6
25°	1666.5	1581.6	1479.3	1446.7	1742.1	2368.9	2843.4	3162.0	3222.5	3226.0
27.5°	1578.1	1513.0	1443.2	1411.8	1660.7	2415.4	2982.9	3306.2	3342.3	3336.5
30°	1497.9	1449.0	1417.6	1408.3	1609.5	2450.3	3115.5	3448.1	3450.4	3430.7
32.5°	1413.0	1394.4	1394.4	1424.6	1567.6	2442.2	3223.7	3586.5	3564.4	3535.3
35°	1337.4	1340.9	1365.3	1436.2	1497.9	2360.8	3327.2	3759.8	3727.2	3685.3
37.5°	1265.3	1292.0	1326.9	1395.5	1406.0	2239.8	3448.1	4005.1	3964.4	3912.1
40°	1203.6	1244.3	1285.0	1318.8	1308.3	2067.7	3616.7	4293.6	4248.2	4187.7
42.5°	1154.8	1194.3	1239.7	1243.2	1246.7	1888.6	3795.8	4647.1	4638.9	4572.7
45°	1123.4	1149.0	1192.0	1186.2	1243.2	1690.9	3961.0	5186.7	5293.7	5243.7
47.5°	1102.5	1122.2	1126.9	1151.3	1273.4	1514.1	4173.8	6242.6	6540.3	6483.4
50°	1090.8	1110.6	1058.3	1153.6	1278.1	1400.2	4468.0	7568.4	8047.5	7971.9
52.5°	1089.7	1085.0	1005.9	1178.1	1252.5	1330.4	4621.5	8535.9	9598.9	9762.8
55°	1092.0	1033.8	979.2	1185.0	1201.3	1304.8	4107.5	9001.1	11030.4	11377.0
57.5°	1071.1	978.0	994.3	1157.1	1104.8	1373.4	3036.4	8834.8	11602.6	12246.9
60°	1031.5	924.5	1022.2	1081.5	1005.9	1256.0	2091.0	8092.9	11009.5	11672.4
62.5°	974.5	887.3	1018.7	983.8	969.9	1028.0	1437.4	7054.4	10068.7	10716.4
65°	910.6	857.1	964.1	889.6	897.8	790.8	1016.4	5882.1	8945.3	9582.6
67.5°	842.0	838.5	883.8	792.0	758.2	626.8	740.8	4714.5	7502.1	8076.6
70°	764.0	789.6	803.6	703.6	615.2	491.9	550.1	3296.9	5534.4	6034.5
72.5°	686.1	688.5	708.2	611.7	460.5	394.2	412.8	1996.8	3759.8	4123.8
75°	607.1	585.0	603.6	497.7	343.1	323.3	318.6	1233.9	2596.8	2884.1
77.5°	522.2	497.7	473.3	374.5	275.6	250.0	244.2	691.9	1593.2	1770.0
80°	424.5	391.9	353.5	274.5	201.2	179.1	177.9	337.3	794.3	885.0
82.5°	330.3	268.6	258.2	171.0	124.4	109.3	116.3	129.1	239.6	267.5
85°	231.4	195.4	137.2	68.6	55.8	45.4	44.2	38.4	64.0	70.9
87.5°	129.1	84.9	44.2	8.1	9.3	10.5	8.1	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)