

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: P633591

Luminaire Tested: GWS-SA2F-722-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633591
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-722-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11314.3 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

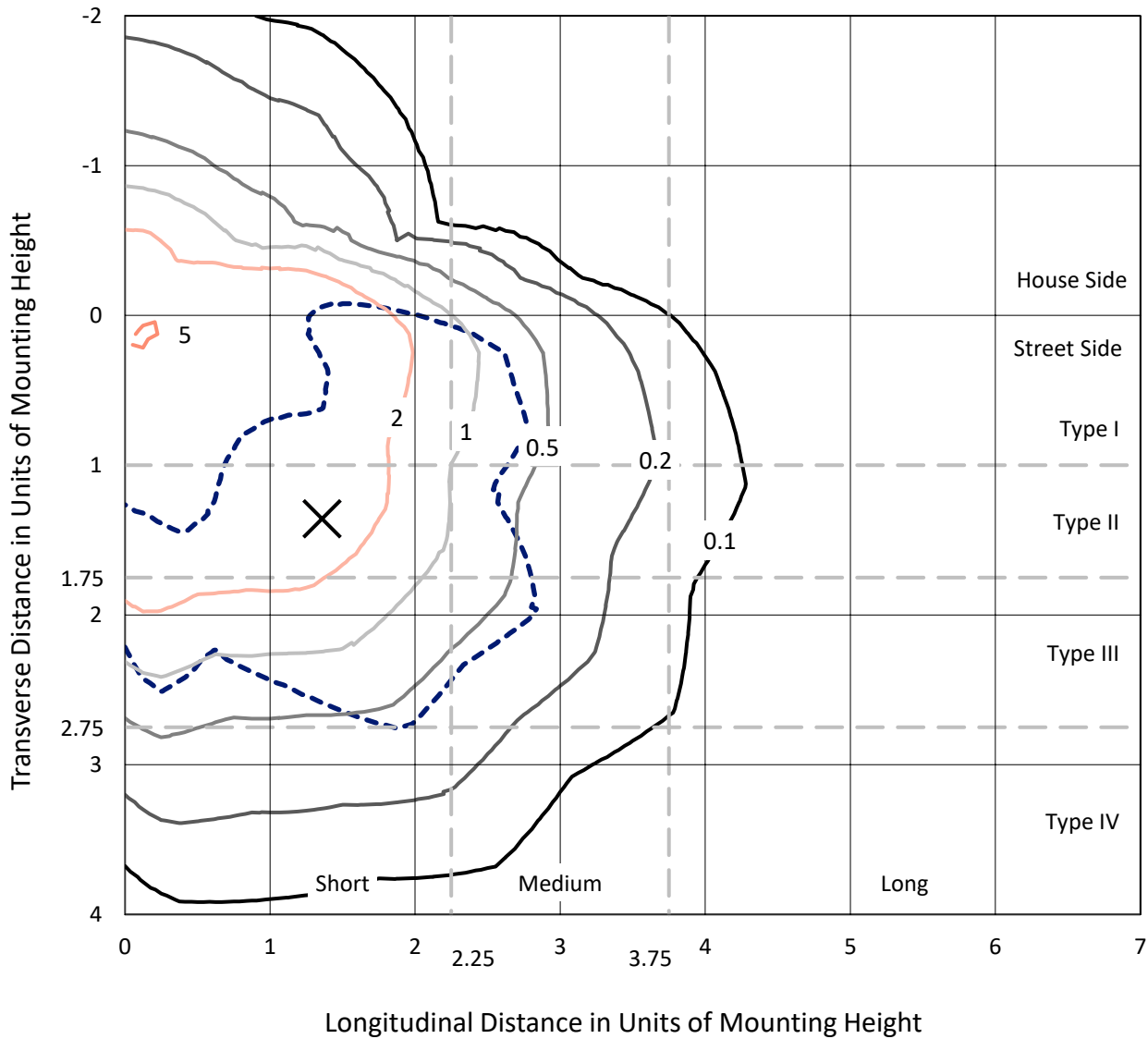
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

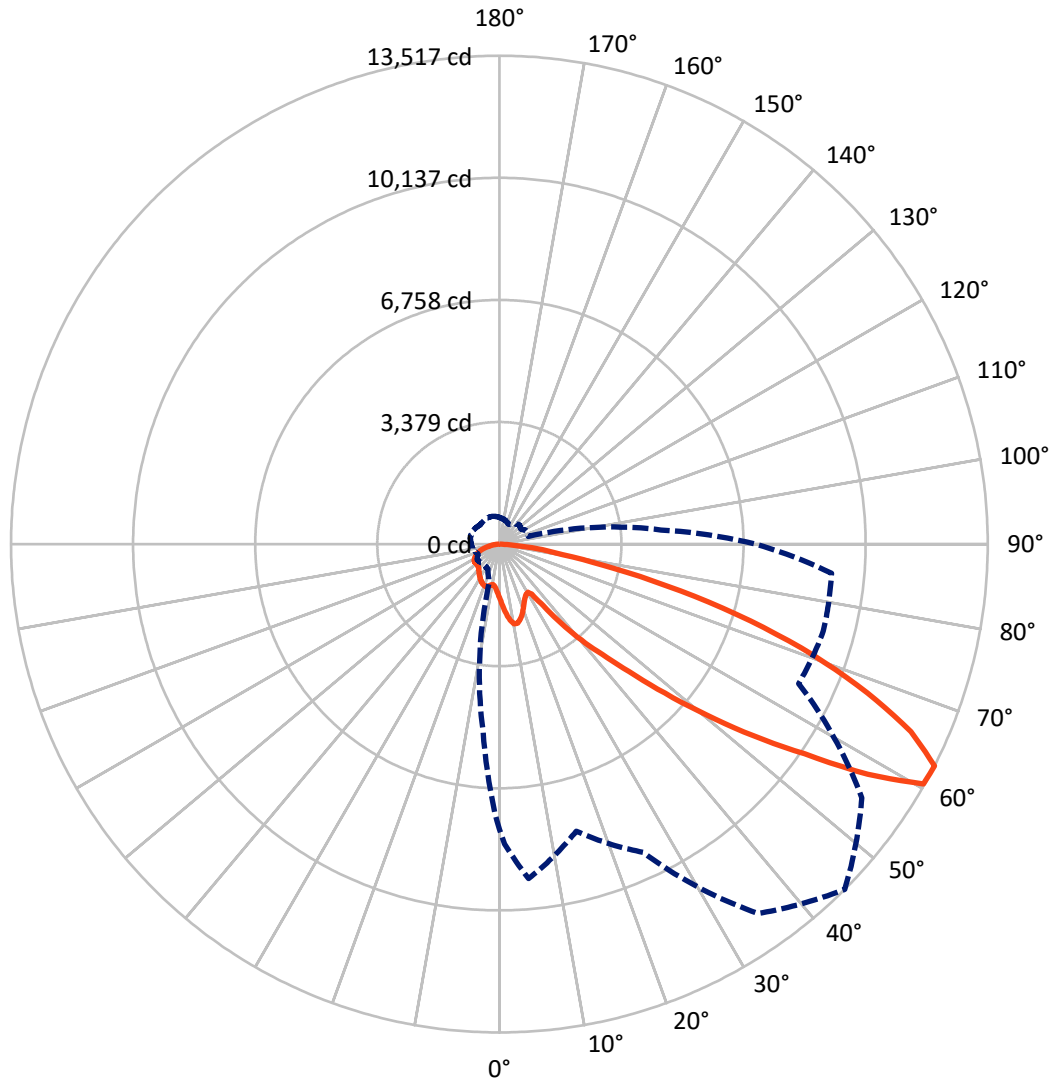
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	2699.8	0.0	2699.8
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	8614.5	0.0	8614.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	11314.3	0.0	11314.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	1.3
10°-20°	459.7	4.1
20°-30°	714.1	6.3
30°-40°	969.5	8.6
40°-50°	1536.6	13.6
50°-60°	2710.6	24.0
60°-70°	3015.9	26.7
70°-80°	1529.6	13.5
80°-90°	231.6	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°	11314.3	100.0
0°-180°	11314.3	100.0

Coefficient of Utilization



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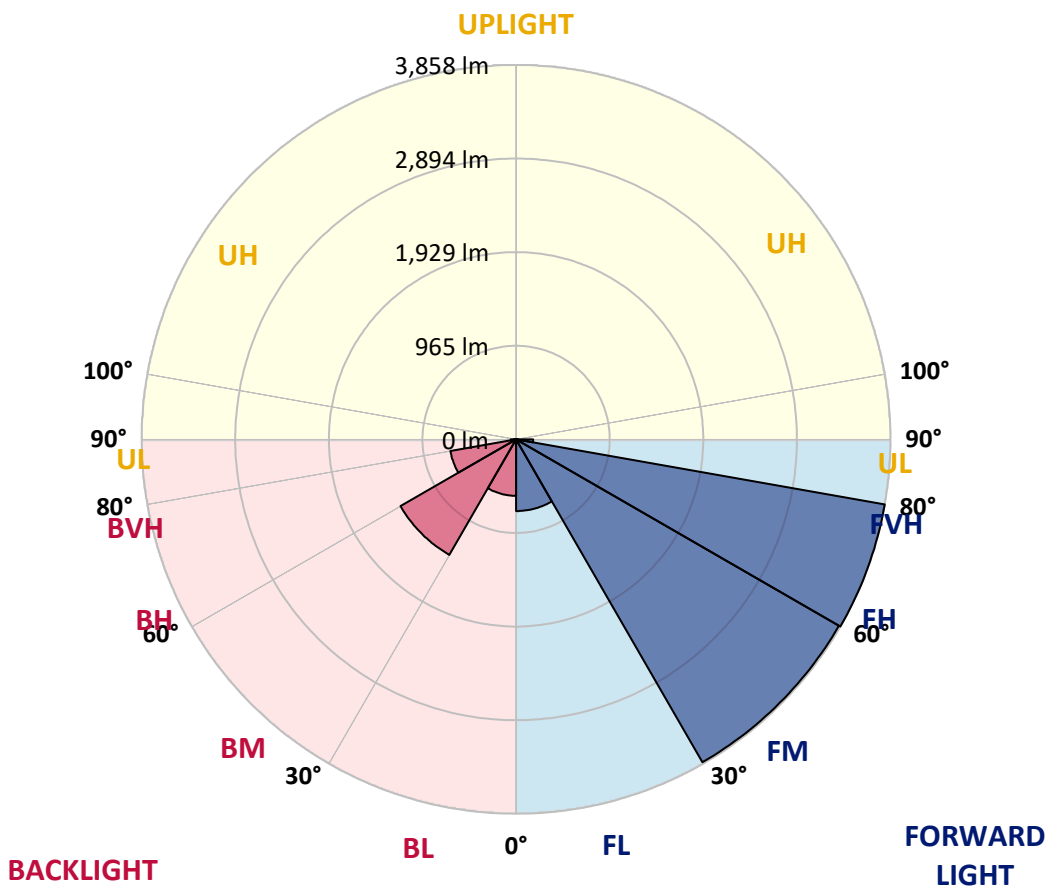
CATALOG NUMBER: GWS-SA2F-722-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.7	6.5			
FM (30°-60°)	3841.7	34.0			
FH (60°-80°)	3858.3	34.1			G2/5000
FVH (80°-90°)	175.8	1.6			G2/225
BL (0°-30°)	581.7	5.1	B2/1000		
BM (30°-60°)	1375.0	12.2	B2/2500		
BH (60°-80°)	687.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	55.8	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1613.9	1613.0	1629.3	1654.1	1677.2	1687.5	1704.7	1702.9	1689.2	1671.2	1665.3
5°	1740.6	1744.1	1772.3	1827.2	1888.0	1913.7	1924.8	1920.5	1895.7	1864.0	1808.3
7.5°	1855.4	1861.4	1905.1	1987.3	2062.7	2097.0	2124.4	2119.3	2083.3	2024.2	1941.9
10°	1939.4	1946.2	1998.5	2095.3	2179.2	2209.2	2244.3	2246.0	2214.3	2134.7	2050.7
12.5°	2023.3	2030.2	2079.0	2167.2	2222.0	2222.9	2243.5	2254.6	2256.3	2219.5	2135.5
15°	2110.7	2116.7	2161.2	2210.9	2208.3	2160.4	2160.4	2181.8	2228.9	2255.5	2197.2
17.5°	2185.2	2192.9	2227.2	2210.9	2134.7	2048.2	2037.9	2065.3	2147.5	2249.5	2243.5
20°	2246.9	2252.9	2271.7	2163.8	2025.0	1912.0	1892.3	1923.9	2035.3	2212.6	2278.6
22.5°	2306.0	2309.4	2299.1	2102.1	1906.8	1777.5	1753.5	1786.9	1906.8	2147.5	2308.6
25°	2376.2	2372.8	2324.0	2037.9	1798.9	1671.2	1646.4	1684.1	1809.2	2061.0	2341.1
27.5°	2457.6	2444.8	2345.4	1968.5	1715.8	1592.4	1575.3	1615.6	1732.1	1981.3	2366.8
30°	2527.0	2502.2	2348.8	1906.8	1673.0	1559.0	1548.8	1586.4	1694.4	1927.4	2399.4
32.5°	2604.1	2569.8	2368.5	1890.5	1696.9	1639.6	1653.3	1655.8	1704.7	1912.0	2448.2
35°	2714.6	2670.1	2422.5	1937.7	1943.6	2040.4	2090.1	2023.3	1859.7	1946.2	2540.7
37.5°	2881.6	2825.1	2532.1	2141.5	2453.3	2670.1	2790.0	2637.5	2330.8	2075.6	2680.3
40°	3084.7	3012.7	2672.6	2518.4	2929.6	3276.5	3489.8	3266.3	2815.7	2398.5	2876.5
42.5°	3368.2	3292.8	2945.0	2888.5	3370.8	3887.3	4165.7	3832.5	3243.1	2815.7	3190.9
45°	3862.5	3789.6	3444.4	3259.4	3887.3	4639.4	5030.0	4566.6	3677.4	3234.6	3778.5
47.5°	4775.6	4689.9	4186.3	3670.6	4476.6	5615.9	6162.5	5487.4	4128.9	3714.3	4765.3
50°	5872.1	5789.8	5117.4	4157.1	5127.7	6660.1	7420.0	6569.3	4648.8	4297.6	5944.9
52.5°	7191.2	7175.8	6446.0	4772.2	5805.3	7773.7	8815.4	7767.7	5218.5	5083.1	7281.2
55°	8380.2	8531.0	8133.5	5710.2	6680.7	9172.6	10250.2	9074.9	5991.1	6381.8	8846.2
57.5°	9021.0	9426.1	10036.9	7623.8	7953.6	10844.7	12020.8	10670.8	7318.9	8543.8	10297.3
60°	8597.8	9056.9	10163.7	9064.7	9216.3	12184.4	13482.2	12012.3	8622.6	10044.6	10215.1
62.5°	7893.7	8305.7	9289.9	8223.5	9411.6	12479.1	13516.5	12246.1	9140.9	9283.1	9227.4
65°	7058.5	7473.9	8516.4	7178.4	8790.5	11779.3	12519.4	11558.2	8209.8	8387.1	8407.6
67.5°	5949.2	6332.9	7394.3	6382.6	8012.7	10752.2	10988.6	10578.3	7560.4	7843.1	7547.6
70°	4445.0	4791.0	5728.2	5186.8	6754.4	9414.2	9223.1	9283.9	6831.5	7112.4	6304.7
72.5°	3037.5	3298.0	4101.5	4075.8	5172.2	7536.5	7270.1	7846.6	5705.9	6078.5	4806.4
75°	2124.4	2327.4	2964.7	3220.0	3909.6	5586.0	5177.4	5872.9	4456.1	4988.0	3507.0
77.5°	1303.8	1438.2	1872.6	2385.7	2515.0	3823.1	3215.7	4419.3	3129.2	3638.0	2339.4
80°	651.9	717.0	909.7	1499.9	1667.8	2252.9	1775.8	2565.5	2117.5	2252.9	1294.3
82.5°	197.0	217.6	266.4	569.6	864.3	1296.9	1049.3	1490.5	1156.4	1056.2	509.7
85°	52.3	59.1	73.7	168.8	303.2	465.1	354.6	722.1	554.2	389.8	191.9
87.5°	4.3	4.3	3.4	3.4	1.7	0.0	0.0	51.4	103.6	59.1	33.4
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°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1635.3	1631.8	1596.7	1571.0	1541.0	1511.9	1481.9	1455.4	1425.4	1395.4	1386.9
5°	1767.2	1743.2	1668.7	1606.1	1544.5	1490.5	1443.4	1394.6	1355.2	1316.6	1302.0
7.5°	1883.7	1841.7	1733.8	1638.7	1553.0	1486.2	1416.8	1345.7	1290.1	1235.2	1221.5
10°	1989.1	1933.4	1797.2	1677.2	1582.2	1505.9	1424.5	1329.5	1248.9	1182.1	1164.1
12.5°	2067.0	2006.2	1852.0	1714.1	1606.1	1520.5	1440.0	1356.0	1271.2	1184.7	1165.0
15°	2128.7	2065.3	1897.4	1742.3	1607.0	1496.5	1418.5	1389.4	1362.9	1278.1	1242.1
17.5°	2178.4	2111.5	1936.8	1759.5	1583.9	1423.7	1356.0	1398.8	1466.5	1413.4	1345.7
20°	2223.8	2156.1	1966.8	1771.5	1532.5	1323.5	1285.8	1376.6	1478.5	1476.8	1416.0
22.5°	2273.4	2207.5	2010.5	1778.3	1460.5	1221.5	1243.8	1344.0	1427.1	1452.0	1414.3
25°	2336.8	2278.6	2071.3	1793.7	1379.1	1151.3	1213.0	1302.0	1371.4	1377.4	1355.2
27.5°	2410.5	2366.8	2162.1	1829.7	1300.3	1115.3	1177.0	1242.9	1306.3	1308.9	1282.3
30°	2491.0	2461.9	2246.0	1859.7	1241.2	1104.2	1130.7	1183.8	1224.1	1230.9	1207.8
32.5°	2593.8	2568.1	2320.6	1840.0	1206.1	1101.6	1087.9	1115.3	1148.7	1148.7	1130.7
35°	2735.2	2699.2	2399.4	1764.6	1163.3	1091.3	1042.5	1050.2	1064.8	1067.3	1057.1
37.5°	2935.6	2876.5	2479.0	1615.6	1093.0	1054.5	990.2	980.8	986.0	992.8	990.2
40°	3184.0	3087.2	2595.5	1436.5	1009.1	983.4	936.3	918.3	914.0	927.7	932.8
42.5°	3496.7	3348.5	2720.6	1269.5	932.8	902.0	872.9	857.5	850.6	873.7	887.4
45°	3996.1	3752.0	2840.5	1104.2	890.0	832.6	812.9	801.8	805.2	832.6	849.8
47.5°	4858.7	4367.9	2954.5	999.7	886.6	782.9	759.0	761.5	770.9	800.1	820.6
50°	5950.0	5192.8	3030.7	956.0	896.9	753.0	721.3	735.0	749.5	777.8	801.8
52.5°	7061.0	5961.2	2939.9	932.0	896.0	753.8	686.1	727.3	734.1	762.4	788.1
55°	7825.1	6046.8	2539.9	895.2	882.3	788.1	658.7	723.8	728.1	753.8	776.9
57.5°	8116.4	5753.9	1936.8	905.4	841.2	814.6	646.7	699.9	730.7	753.0	776.9
60°	7764.3	5201.3	1177.0	932.0	775.2	812.9	654.5	656.2	709.3	747.0	770.9
62.5°	7100.4	4492.1	826.6	856.6	727.3	767.5	672.4	604.8	671.6	717.0	738.4
65°	6339.8	3657.7	630.5	737.5	704.1	697.3	678.4	559.4	620.2	664.7	683.6
67.5°	5547.4	2843.1	512.3	549.9	636.5	630.5	620.2	519.1	559.4	591.1	612.5
70°	4549.5	1989.1	432.6	412.9	545.7	565.4	542.2	468.6	481.4	514.0	531.1
72.5°	3327.9	1239.5	355.5	340.9	438.6	494.3	482.3	412.9	418.9	449.7	463.4
75°	2393.4	709.3	285.3	281.0	334.9	423.2	399.2	355.5	362.3	385.5	394.9
77.5°	1521.3	394.9	220.1	226.1	239.9	316.1	340.9	304.1	304.1	317.8	325.5
80°	814.6	226.1	161.0	163.6	167.9	241.6	269.0	235.6	235.6	226.1	235.6
82.5°	332.4	130.2	110.5	102.8	112.2	165.3	188.5	149.9	156.8	141.3	144.8
85°	109.6	65.1	54.8	54.0	53.1	72.8	90.8	74.5	89.1	56.5	59.1
87.5°	14.6	12.0	6.9	5.1	6.0	2.6	5.1	6.0	6.0	4.3	4.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1380.9	1374.0	1349.2	1355.2	1350.9	1344.0	1350.9	1338.0	1348.3	1351.7	1373.1
5°	1290.9	1274.6	1250.7	1238.7	1236.1	1229.2	1230.1	1224.1	1225.8	1240.4	1264.4
7.5°	1210.4	1195.0	1176.1	1167.6	1159.9	1152.1	1151.3	1150.4	1157.3	1170.1	1193.3
10°	1152.1	1143.6	1135.9	1139.3	1135.9	1132.4	1126.4	1126.4	1137.6	1160.7	1189.0
12.5°	1152.1	1150.4	1152.1	1162.4	1161.6	1162.4	1154.7	1159.0	1189.8	1229.2	1269.5
15°	1213.8	1200.1	1200.1	1205.3	1203.5	1203.5	1203.5	1221.5	1291.8	1352.6	1395.4
17.5°	1289.2	1248.9	1231.8	1229.2	1228.4	1228.4	1231.8	1270.4	1380.0	1444.2	1469.1
20°	1341.5	1265.2	1236.9	1225.8	1226.7	1228.4	1238.7	1291.8	1412.6	1445.1	1439.1
22.5°	1350.9	1252.4	1218.1	1201.8	1204.4	1206.1	1221.5	1278.1	1368.0	1373.1	1361.2
25°	1307.2	1216.4	1179.6	1166.7	1170.1	1169.3	1183.0	1224.1	1288.3	1286.6	1279.8
27.5°	1242.1	1159.0	1131.6	1123.0	1129.0	1122.2	1126.4	1158.1	1207.8	1206.1	1203.5
30°	1175.3	1103.3	1078.5	1074.2	1081.9	1071.6	1072.5	1099.0	1133.3	1131.6	1130.7
32.5°	1108.5	1047.6	1025.4	1025.4	1033.1	1021.9	1023.6	1046.8	1069.9	1063.1	1063.1
35°	1045.1	1002.2	984.2	980.8	986.8	979.1	982.5	1003.9	1012.5	1003.1	997.1
37.5°	989.4	970.5	952.6	940.6	941.4	942.3	952.6	968.8	963.7	950.0	942.3
40°	938.0	938.0	920.9	898.6	896.0	902.0	919.1	937.1	922.6	907.2	897.7
42.5°	901.2	908.9	892.6	870.3	865.2	875.5	894.3	907.2	890.0	872.9	860.0
45°	866.9	885.7	874.6	849.8	842.9	854.9	878.9	884.0	860.9	844.6	835.2
47.5°	842.9	868.6	860.9	836.9	826.6	843.8	868.6	867.7	838.6	821.5	813.8
50°	825.8	858.3	857.5	836.9	825.8	847.2	869.5	858.3	826.6	808.6	800.9
52.5°	812.1	857.5	863.5	851.5	843.8	862.6	876.3	854.9	818.1	799.2	793.2
55°	806.1	860.9	865.2	854.0	847.2	864.3	876.3	861.8	818.1	800.9	795.8
57.5°	807.8	856.6	857.5	842.0	830.1	851.5	870.3	866.0	827.5	807.8	801.8
60°	797.5	833.5	835.2	811.2	797.5	823.2	856.6	854.0	823.2	802.6	791.5
62.5°	763.2	794.9	795.8	773.5	753.8	790.7	827.5	826.6	798.4	777.8	765.0
65°	705.8	739.3	747.8	726.4	711.0	750.4	788.9	787.2	759.0	740.1	727.3
67.5°	634.7	670.7	687.0	672.4	666.4	702.4	738.4	737.5	714.4	696.4	685.3
70°	548.2	578.2	605.6	605.6	601.3	642.5	681.0	677.6	656.2	642.5	633.9
72.5°	476.3	499.4	508.0	516.5	529.4	572.2	604.8	607.3	591.9	585.1	591.9
75°	405.2	419.7	427.4	420.6	442.9	487.4	530.2	534.5	518.2	507.1	509.7
77.5°	333.2	349.5	357.2	341.8	340.1	396.6	448.9	458.3	444.6	427.4	432.6
80°	240.7	262.1	275.0	264.7	261.3	286.1	358.1	368.3	355.5	341.8	349.5
82.5°	147.3	159.3	162.8	173.0	194.5	204.7	230.4	264.7	255.3	243.3	264.7
85°	58.2	69.4	77.1	87.4	101.9	120.8	142.2	169.6	154.2	149.1	175.6
87.5°	3.4	0.9	0.0	1.7	14.6	28.3	60.8	83.9	70.2	75.4	90.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6	1501.6
2.5°	1390.3	1412.6	1442.5	1467.4	1499.1	1529.1	1559.9	1590.7	1607.0	1613.9
5°	1291.8	1332.9	1380.9	1434.0	1495.6	1560.7	1626.7	1694.4	1737.2	1740.6
7.5°	1232.7	1291.8	1357.7	1424.5	1500.8	1590.7	1695.2	1799.7	1843.4	1855.4
10°	1251.5	1317.5	1369.7	1432.3	1516.2	1628.4	1751.8	1874.3	1924.8	1939.4
12.5°	1326.9	1339.7	1356.0	1413.4	1516.2	1661.0	1810.0	1955.6	2009.6	2023.3
15°	1389.4	1327.7	1298.6	1359.4	1495.6	1689.2	1871.7	2032.7	2097.8	2110.7
17.5°	1394.6	1288.3	1225.0	1279.8	1459.7	1708.9	1930.8	2118.4	2173.2	2185.2
20°	1342.3	1246.4	1164.1	1197.5	1410.8	1717.5	1973.6	2180.9	2234.9	2246.9
22.5°	1283.2	1212.1	1123.0	1121.3	1351.7	1726.9	2025.0	2240.0	2298.3	2306.0
25°	1227.5	1165.0	1089.6	1065.6	1283.2	1744.9	2094.4	2329.1	2373.7	2376.2
27.5°	1162.4	1114.5	1063.1	1039.9	1223.2	1779.2	2197.2	2435.3	2461.9	2457.6
30°	1103.3	1067.3	1044.2	1037.4	1185.5	1804.9	2294.9	2539.9	2541.6	2527.0
32.5°	1040.8	1027.1	1027.1	1049.3	1154.7	1798.9	2374.5	2641.8	2625.5	2604.1
35°	985.1	987.7	1005.7	1057.9	1103.3	1738.9	2450.8	2769.4	2745.4	2714.6
37.5°	932.0	951.7	977.4	1027.9	1035.6	1649.8	2539.9	2950.2	2920.2	2881.6
40°	886.6	916.6	946.6	971.4	963.7	1523.1	2664.1	3162.6	3129.2	3084.7
42.5°	850.6	879.7	913.1	915.7	918.3	1391.1	2796.0	3423.0	3417.0	3368.2
45°	827.5	846.3	878.0	873.7	915.7	1245.5	2917.6	3820.5	3899.3	3862.5
47.5°	812.1	826.6	830.1	848.0	938.0	1115.3	3074.4	4598.3	4817.6	4775.6
50°	803.5	818.1	779.5	849.8	941.4	1031.4	3291.1	5574.8	5927.7	5872.1
52.5°	802.6	799.2	741.0	867.7	922.6	980.0	3404.2	6287.5	7070.5	7191.2
55°	804.4	761.5	721.3	872.9	884.9	961.1	3025.5	6630.2	8125.0	8380.2
57.5°	788.9	720.4	732.4	852.3	813.8	1011.7	2236.6	6507.7	8546.4	9021.0
60°	759.8	681.0	753.0	796.6	741.0	925.1	1540.2	5961.2	8109.5	8597.8
62.5°	717.8	653.6	750.4	724.7	714.4	757.2	1058.8	5196.2	7416.5	7893.7
65°	670.7	631.3	710.1	655.3	661.3	582.5	748.7	4332.7	6589.0	7058.5
67.5°	620.2	617.6	651.0	583.4	558.5	461.7	545.7	3472.7	5526.0	5949.2
70°	562.8	581.6	591.9	518.2	453.1	362.3	405.2	2428.5	4076.6	4445.0
72.5°	505.4	507.1	521.7	450.6	339.2	290.4	304.1	1470.8	2769.4	3037.5
75°	447.2	430.9	444.6	366.6	252.7	238.1	234.7	908.9	1912.8	2124.4
77.5°	384.6	366.6	348.6	275.8	203.0	184.2	179.9	509.7	1173.6	1303.8
80°	312.7	288.7	260.4	202.2	148.2	131.9	131.1	248.4	585.1	651.9
82.5°	243.3	197.9	190.2	125.9	91.7	80.5	85.7	95.1	176.5	197.0
85°	170.5	143.9	101.1	50.5	41.1	33.4	32.6	28.3	47.1	52.3
87.5°	95.1	62.5	32.6	6.0	6.9	7.7	6.0	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)