

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: P632927

Luminaire Tested: GWS-SA2D-760-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-760-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11040.6 lumens  
Efficiency: N/A  
Efficacy: 134.5 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): 82.1  
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

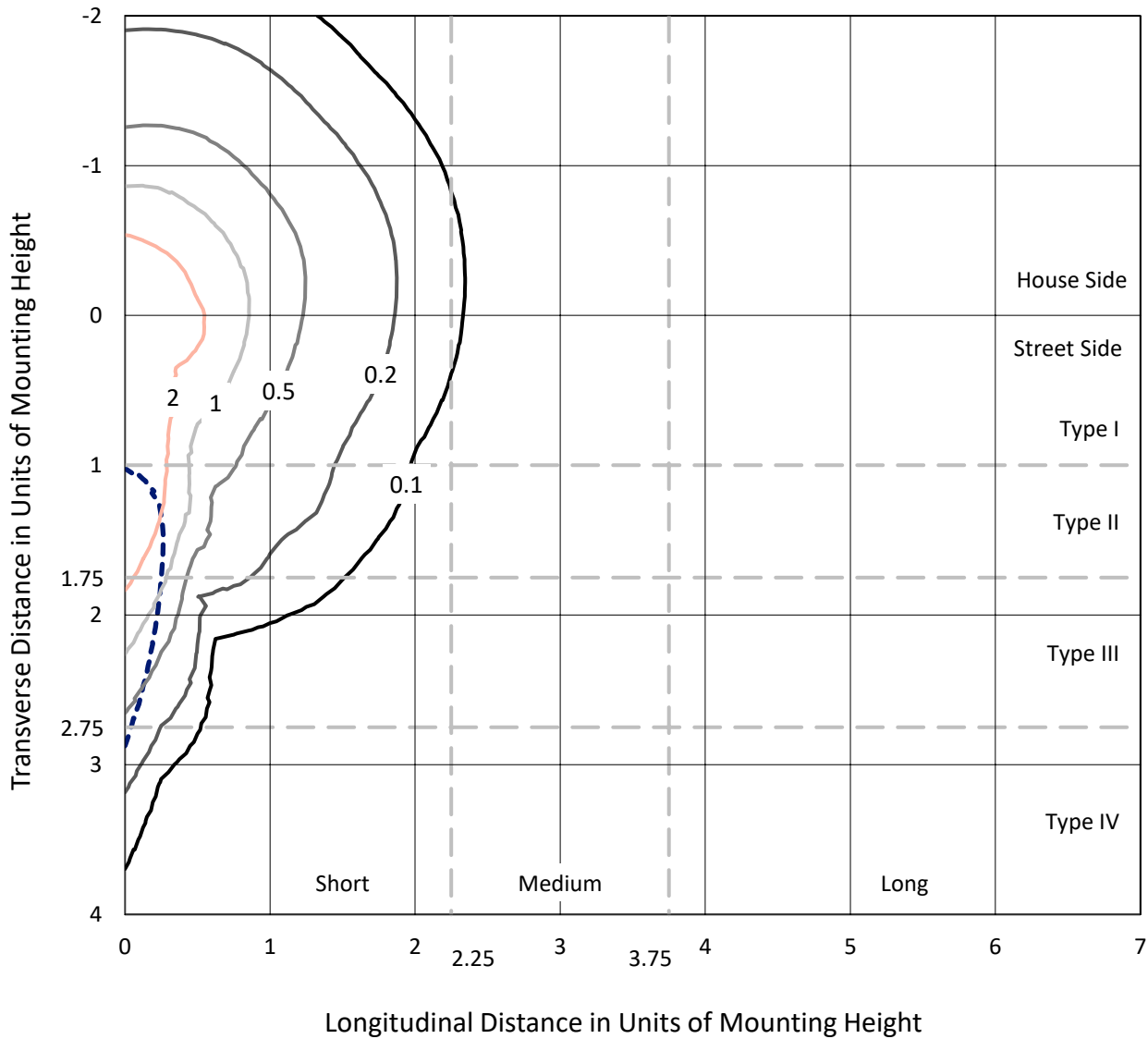


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### Iso-Footcandle Lines of Horizontal Illumination

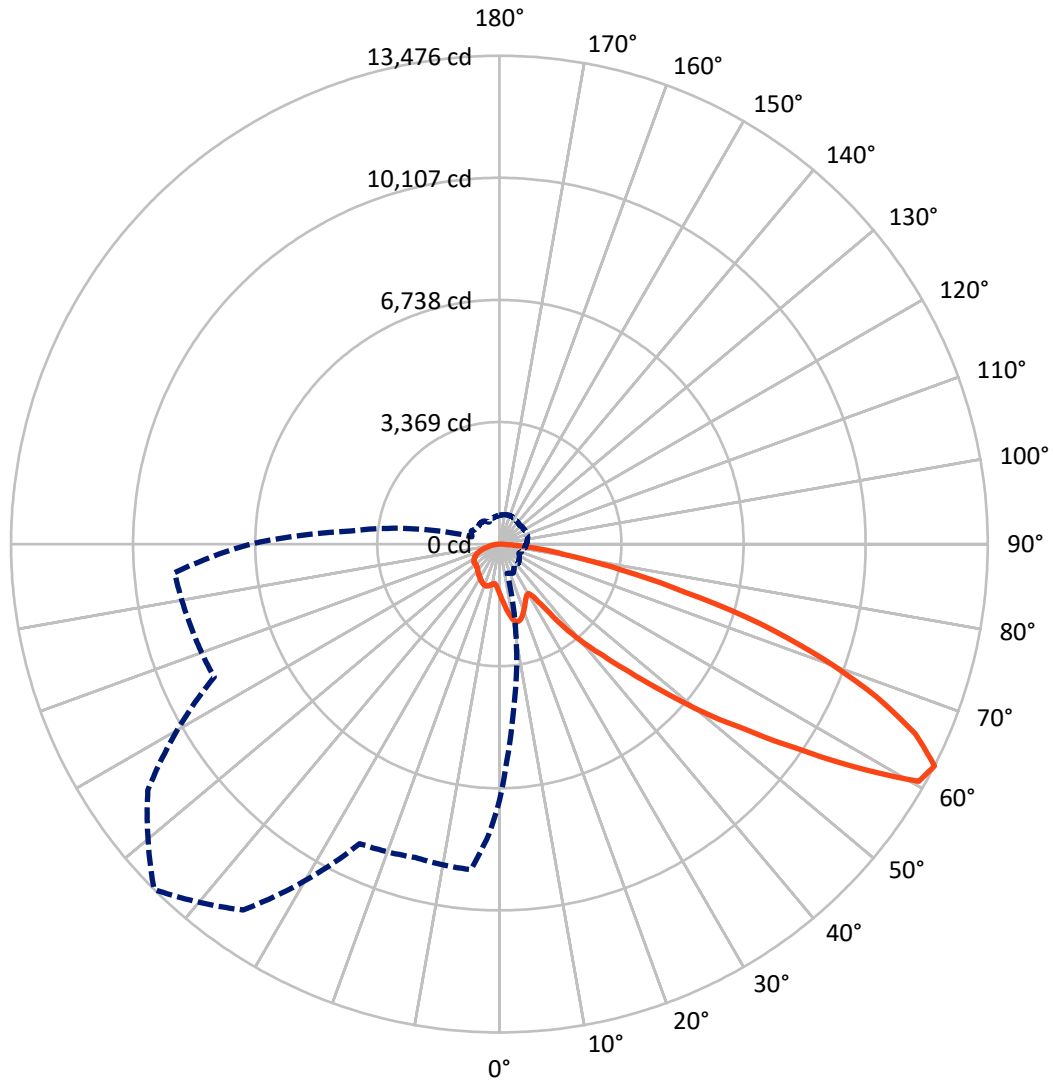
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2639.8	0.0	2639.8
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	8400.8	0.0	8400.8
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	11040.6	0.0	11040.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.6	1.2
10°-20°	440.7	4.0
20°-30°	693.8	6.3
30°-40°	951.0	8.6
40°-50°	1483.8	13.4
50°-60°	2558.4	23.2
60°-70°	2964.9	26.9
70°-80°	1565.0	14.2
80°-90°	247.2	2.2
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°	11040.6	100.0
0°-180°	11040.6	100.0

**Coefficient of Utilization**



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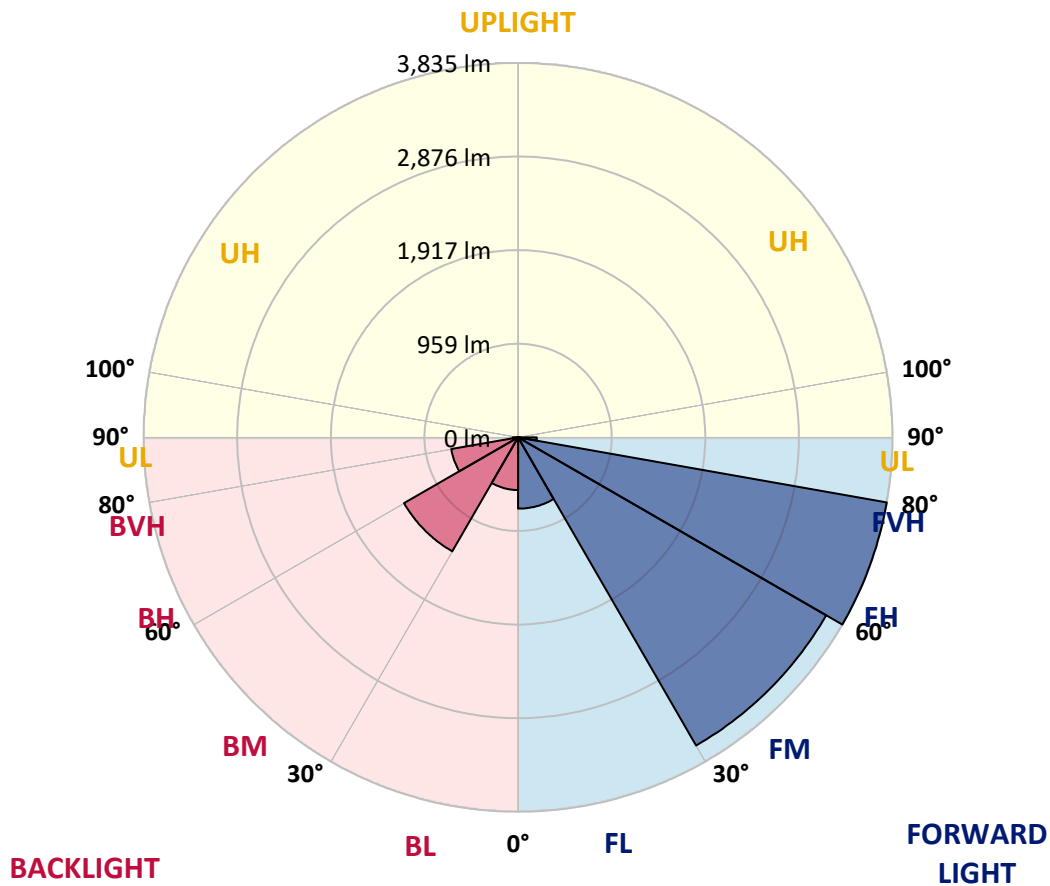
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.2	6.6			
FM (30°-60°)	3644.9	33.0			
FH (60°-80°)	3834.9	34.7			G2/5000
FVH (80°-90°)	190.8	1.7			G2/225
BL (0°-30°)	539.9	4.9	B2/1000		
BM (30°-60°)	1348.4	12.2	B2/2500		
BH (60°-80°)	695.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	56.4	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1495.6	1489.7	1481.3	1452.5	1434.8	1414.5	1393.4	1368.9	1341.1	1321.6	1302.2
5°	1622.3	1613.0	1592.7	1524.3	1477.0	1425.5	1382.4	1333.5	1285.3	1252.4	1219.5
7.5°	1743.9	1732.1	1700.8	1596.1	1519.3	1444.9	1379.9	1309.0	1237.2	1188.2	1149.4
10°	1865.5	1841.0	1801.3	1664.5	1563.2	1477.0	1402.7	1315.7	1220.3	1153.6	1112.2
12.5°	1958.4	1935.6	1892.5	1727.0	1607.1	1499.0	1415.4	1335.2	1254.1	1183.1	1140.9
15°	2045.4	2015.8	1966.8	1785.3	1643.4	1498.1	1390.0	1320.0	1308.1	1290.4	1235.5
17.5°	2107.9	2080.8	2030.2	1832.6	1663.7	1472.0	1320.0	1278.6	1331.8	1385.8	1333.5
20°	2162.8	2131.5	2080.0	1865.5	1667.9	1413.7	1234.7	1235.5	1319.1	1393.4	1380.8
22.5°	2209.2	2174.6	2129.0	1902.7	1666.2	1332.6	1160.3	1211.0	1294.6	1352.9	1354.6
25°	2266.6	2237.9	2199.9	1957.5	1666.2	1249.9	1106.3	1181.5	1253.2	1302.2	1300.5
27.5°	2336.7	2317.3	2286.1	2041.2	1681.4	1180.6	1075.9	1143.5	1200.0	1242.3	1241.4
30°	2415.3	2397.5	2373.9	2129.8	1707.6	1129.1	1059.0	1096.2	1137.5	1171.3	1171.3
32.5°	2495.5	2488.7	2463.4	2200.8	1687.3	1113.1	1044.6	1048.9	1070.8	1098.7	1096.2
35°	2607.0	2600.2	2568.1	2255.7	1599.5	1090.2	1021.8	1000.7	1003.3	1021.0	1026.9
37.5°	2770.0	2759.8	2712.5	2319.8	1466.9	1032.8	984.7	950.1	942.5	950.1	961.0
40°	2966.7	2951.5	2887.3	2406.8	1314.0	955.1	926.4	897.7	885.0	887.6	900.2
42.5°	3213.3	3181.2	3089.2	2498.9	1162.9	886.7	861.4	843.7	829.3	827.6	852.1
45°	3613.6	3525.8	3379.7	2580.8	1035.4	850.4	803.1	790.5	778.6	785.4	814.1
47.5°	4312.9	4150.7	3866.1	2650.9	957.7	851.3	756.7	743.2	742.3	755.8	787.9
50°	5273.9	5040.0	4600.8	2698.2	917.1	861.4	728.8	706.8	722.9	736.4	766.8
52.5°	6194.4	5837.2	5314.4	2697.3	899.4	863.1	736.4	673.1	722.9	726.3	755.0
55°	6980.6	6333.7	5507.0	2420.3	874.1	856.3	766.0	646.9	713.6	726.3	749.1
57.5°	7605.6	6649.6	5492.6	1955.0	950.9	819.2	783.7	641.0	686.6	728.0	754.1
60°	7536.3	6505.2	5138.8	1200.0	943.3	753.3	781.2	652.0	641.0	705.2	748.2
62.5°	7076.1	5987.5	4529.9	832.7	885.9	715.3	739.8	671.4	598.8	672.2	719.5
65°	6431.7	5319.5	3774.9	638.4	733.9	717.0	669.7	657.9	561.6	619.9	670.5
67.5°	5579.6	4491.0	2980.2	505.9	511.8	620.7	608.0	584.4	527.0	573.4	619.0
70°	4194.6	3277.5	2050.4	407.0	387.6	518.5	546.4	525.3	493.2	506.7	554.8
72.5°	2955.7	2140.0	1123.2	322.6	299.0	398.6	474.6	471.2	435.8	445.9	493.2
75°	2196.5	1514.2	701.8	255.0	243.2	285.4	397.8	407.9	378.3	390.2	426.5
77.5°	1461.8	980.5	390.2	189.2	189.2	208.6	296.4	343.7	321.8	331.0	356.4
80°	806.5	499.1	195.1	124.1	127.5	143.6	216.2	247.4	248.3	271.1	277.8
82.5°	255.0	158.8	87.0	72.6	68.4	81.9	139.3	177.3	165.5	211.1	194.2
85°	58.3	37.2	16.0	16.0	17.7	27.0	53.2	94.6	120.8	145.3	105.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	37.2	54.9	49.0
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°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1290.4	1273.5	1268.4	1254.1	1252.4	1238.9	1233.8	1233.8	1239.7	1239.7	1245.6
5°	1205.9	1184.8	1173.0	1156.1	1151.9	1141.8	1135.0	1135.9	1143.5	1148.5	1158.7
7.5°	1131.6	1117.3	1108.8	1101.2	1099.5	1097.8	1090.2	1089.4	1091.9	1099.5	1107.1
10°	1100.4	1090.2	1092.8	1098.7	1108.0	1113.1	1106.3	1102.9	1100.4	1105.4	1112.2
12.5°	1130.8	1120.7	1125.7	1135.9	1148.5	1153.6	1151.1	1150.2	1152.7	1172.2	1186.5
15°	1197.5	1178.1	1171.3	1175.5	1185.7	1190.7	1188.2	1191.6	1207.6	1258.3	1294.6
17.5°	1280.3	1233.0	1205.9	1198.3	1202.6	1206.8	1206.8	1215.2	1243.1	1317.4	1363.0
20°	1325.0	1263.4	1217.8	1199.2	1200.9	1205.1	1205.1	1216.9	1248.2	1327.6	1357.1
22.5°	1313.2	1256.6	1200.9	1180.6	1181.5	1184.8	1184.8	1195.0	1222.8	1292.9	1306.4
25°	1266.7	1216.9	1162.0	1144.3	1146.0	1151.9	1150.2	1156.1	1177.2	1234.7	1242.3
27.5°	1211.0	1167.1	1113.1	1099.5	1107.1	1119.0	1108.8	1109.7	1129.1	1177.2	1178.1
30°	1151.1	1114.7	1066.6	1056.5	1070.8	1076.7	1067.4	1067.4	1086.9	1119.8	1119.0
32.5°	1086.0	1063.2	1028.6	1017.6	1033.7	1043.0	1031.1	1032.8	1048.0	1070.0	1061.5
35°	1025.2	1013.4	997.4	989.8	999.9	1008.3	1000.7	1004.1	1018.5	1024.4	1012.6
37.5°	967.0	965.3	967.0	967.0	969.5	972.0	967.0	975.4	988.1	980.5	967.0
40°	916.3	923.0	939.1	934.9	932.3	934.9	931.5	945.8	958.5	945.0	928.9
42.5°	874.1	886.7	911.2	911.2	906.1	907.8	906.1	923.9	933.2	914.6	896.9
45°	837.7	856.3	887.6	891.8	883.3	883.3	886.7	908.7	912.1	886.7	868.1
47.5°	812.4	835.2	870.7	878.3	865.6	864.8	874.1	897.7	897.7	868.1	847.0
50°	794.7	820.0	862.2	872.4	859.7	856.3	871.5	894.3	889.3	853.8	832.7
52.5°	782.9	809.0	861.4	875.7	867.3	863.9	879.1	895.2	882.5	844.5	822.5
55°	775.3	804.0	863.9	875.7	866.5	860.5	875.7	890.1	883.3	839.4	818.3
57.5°	779.5	808.2	860.5	866.5	855.5	845.3	863.1	883.3	880.8	841.1	820.0
60°	772.7	798.9	842.0	843.7	825.1	809.0	835.2	865.6	865.6	835.2	816.6
62.5°	741.5	767.7	805.7	807.3	786.2	768.5	798.9	835.2	834.4	809.9	790.5
65°	690.0	714.4	757.5	761.7	740.6	722.0	753.3	787.1	789.6	767.7	750.8
67.5°	633.4	655.3	687.4	704.3	686.6	667.2	695.9	728.0	727.1	700.9	683.2
70°	565.8	586.1	615.6	630.0	619.0	600.4	626.6	643.5	635.9	623.2	611.4
72.5°	499.1	518.5	546.4	546.4	534.6	516.8	524.4	554.8	564.1	554.8	547.2
75°	429.0	445.9	465.3	469.5	443.4	411.3	446.7	472.9	483.9	479.7	470.4
77.5°	357.2	369.9	398.6	391.0	342.0	325.1	353.8	392.7	400.3	397.8	385.1
80°	275.3	282.9	313.3	298.1	260.1	249.1	261.8	292.2	293.9	285.4	269.4
82.5°	184.9	195.1	215.3	185.8	184.9	174.8	164.7	168.1	183.3	181.6	170.6
85°	94.6	99.7	119.1	111.5	95.4	82.8	78.5	83.6	75.2	68.4	59.1
87.5°	39.7	43.1	59.1	32.9	10.1	0.0	0.0	5.1	7.6	11.0	11.8
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°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1259.1	1268.4	1291.2	1320.0	1347.8	1376.5	1407.8	1427.2	1450.9	1481.3	1482.1
5°	1171.3	1192.4	1225.4	1269.3	1314.9	1367.2	1428.0	1478.7	1539.5	1587.7	1607.1
7.5°	1117.3	1147.7	1189.1	1244.8	1304.8	1369.8	1449.2	1534.5	1634.1	1698.3	1736.3
10°	1122.3	1168.8	1210.2	1257.5	1311.5	1381.6	1483.8	1596.9	1719.4	1803.9	1851.1
12.5°	1212.7	1261.7	1254.1	1251.5	1287.9	1373.2	1511.7	1660.3	1809.8	1894.2	1950.8
15°	1326.7	1345.3	1273.5	1219.5	1241.4	1342.8	1526.9	1716.9	1884.9	1988.0	2043.7
17.5°	1385.0	1347.8	1260.8	1179.8	1173.9	1296.3	1534.5	1774.3	1969.4	2072.4	2131.5
20°	1358.0	1303.9	1230.4	1153.6	1111.4	1233.0	1530.2	1819.9	2046.2	2161.1	2209.2
22.5°	1299.7	1252.4	1195.0	1121.5	1060.7	1163.7	1519.3	1865.5	2114.6	2230.3	2272.5
25°	1236.3	1200.9	1153.6	1089.4	1032.0	1102.9	1511.7	1926.3	2193.2	2303.8	2330.8
27.5°	1173.0	1146.8	1108.0	1058.2	1025.2	1060.7	1514.2	2005.7	2294.5	2399.2	2388.2
30°	1110.5	1087.7	1060.7	1038.7	1024.4	1050.6	1507.4	2090.1	2406.0	2503.1	2438.1
32.5°	1051.4	1030.3	1013.4	1016.8	1025.2	1054.8	1472.8	2167.0	2508.2	2590.9	2492.1
35°	1000.7	978.8	978.8	990.6	1021.8	1040.4	1383.3	2226.9	2621.3	2704.1	2569.0
37.5°	953.4	934.0	946.7	966.1	995.7	1001.6	1268.4	2285.2	2786.0	2863.7	2688.0
40°	912.1	892.6	915.4	939.9	955.1	952.6	1151.9	2366.3	2980.2	3060.5	2846.0
42.5°	879.1	861.4	881.7	912.9	915.4	918.0	1066.6	2444.0	3205.7	3307.9	3117.9
45°	852.1	839.4	849.6	880.8	880.8	919.7	1013.4	2509.0	3545.2	3725.9	3617.0
47.5°	831.0	823.4	828.5	838.6	855.5	950.1	979.6	2558.8	4163.4	4518.1	4408.3
50°	819.2	811.6	818.3	797.2	847.9	965.3	968.6	2596.8	4978.3	5534.0	5398.0
52.5°	809.0	806.5	810.7	761.7	864.8	955.1	960.2	2546.2	5524.7	6533.9	6668.2
55°	805.7	807.3	787.1	735.6	885.0	921.3	934.9	2183.9	5673.3	7396.1	8229.6
57.5°	807.3	802.3	750.8	738.1	885.9	853.8	971.2	1558.1	5457.2	7771.1	9757.3
60°	801.4	776.1	706.8	760.9	847.0	774.4	945.0	1015.9	4887.1	7483.1	9846.0
62.5°	775.3	738.1	668.8	773.6	777.8	727.1	858.0	782.9	4127.1	6866.6	8991.4
65°	737.2	687.4	636.8	747.4	707.7	705.2	645.2	627.5	3318.9	6132.8	8180.7
67.5°	674.8	624.9	613.1	687.4	636.8	624.9	518.5	520.2	2648.4	5350.7	7365.7
70°	603.8	554.0	563.3	621.6	566.7	519.4	419.7	433.2	2009.1	4458.1	6267.0
72.5°	557.4	490.7	491.5	547.2	498.3	420.6	345.4	357.2	1275.2	3360.3	4982.5
75°	470.4	432.4	413.8	443.4	423.1	327.7	290.5	288.0	755.8	2408.5	3731.0
77.5°	392.7	363.1	353.8	365.7	315.8	242.4	233.9	229.7	428.2	1542.9	2444.8
80°	284.6	277.0	276.2	282.1	243.2	178.2	178.2	179.0	230.5	837.7	1378.2
82.5°	180.7	197.6	174.8	194.2	165.5	126.7	118.2	134.3	132.6	357.2	581.0
85°	75.2	103.0	96.3	102.2	78.5	69.2	74.3	80.2	76.8	137.7	226.3
87.5°	14.4	16.9	18.6	17.7	17.7	22.0	24.5	29.6	29.6	39.7	68.4
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°	358°	360°
0°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1514.2	1538.7	1533.6	1544.6	1530.2	1535.3	1506.6	1499.0	1493.9	1495.6
5°	1669.6	1719.4	1728.7	1747.3	1734.6	1734.6	1683.9	1645.9	1632.4	1622.3
7.5°	1827.5	1899.3	1946.6	1951.6	1944.9	1931.4	1857.9	1789.5	1765.0	1743.9
10°	1967.7	2053.8	2107.0	2132.4	2119.7	2098.6	2007.4	1913.6	1884.1	1865.5
12.5°	2074.9	2150.9	2186.4	2203.3	2201.6	2194.0	2119.7	2018.4	1987.1	1958.4
15°	2144.2	2182.2	2168.7	2167.8	2179.7	2210.1	2187.3	2107.9	2071.6	2045.4
17.5°	2188.9	2152.6	2092.7	2064.8	2090.1	2161.9	2214.3	2169.5	2136.6	2107.9
20°	2205.0	2075.8	1988.8	1937.3	1966.8	2070.7	2199.9	2214.3	2186.4	2162.8
22.5°	2186.4	1982.0	1863.8	1803.0	1831.7	1955.9	2157.7	2250.6	2232.0	2209.2
25°	2140.8	1884.1	1742.2	1687.3	1718.6	1845.2	2082.5	2284.4	2285.2	2266.6
27.5°	2084.2	1793.7	1656.9	1605.4	1635.8	1754.0	2009.1	2313.9	2343.5	2336.7
30°	2026.8	1739.7	1616.4	1580.1	1602.9	1707.6	1933.9	2344.3	2403.4	2415.3
32.5°	2000.6	1765.8	1711.8	1727.8	1698.3	1734.6	1906.9	2387.4	2476.1	2495.5
35°	2035.2	1998.1	2134.9	2198.2	2093.5	1955.9	1941.5	2452.4	2578.3	2607.0
37.5°	2203.3	2495.5	2699.9	2922.8	2741.2	2438.1	2112.9	2563.1	2724.4	2770.0
40°	2569.0	2929.6	3298.6	3586.6	3312.1	2904.2	2438.9	2727.7	2925.3	2966.7
42.5°	2913.5	3336.6	3845.0	4217.4	3861.1	3285.1	2790.2	3004.7	3190.5	3213.3
45°	3251.3	3736.1	4506.2	5023.9	4540.0	3647.4	3149.1	3472.6	3612.8	3613.6
47.5°	3647.4	4186.2	5335.5	6072.8	5441.1	4048.5	3486.1	4213.2	4408.3	4312.9
50°	4121.2	4633.8	6189.3	7293.1	6539.8	4541.7	3914.3	5116.0	5382.0	5273.9
52.5°	4755.4	5127.0	7130.1	8483.0	7737.3	5103.3	4535.0	6308.4	6396.2	6194.4
55°	5648.0	5838.9	8337.7	9952.4	9074.1	5795.0	5442.8	7804.9	7559.1	6980.6
57.5°	7680.7	6965.4	9888.2	11628.8	10586.6	7051.6	7432.4	9455.0	8581.0	7605.6
60°	9381.5	8333.5	11323.0	13292.4	11883.0	8436.6	9300.5	9742.1	8543.0	7536.3
62.5°	8808.1	8682.3	11840.7	13475.7	12325.5	9118.1	8953.4	9018.4	7985.6	7076.1
65°	7728.0	8009.2	11378.8	12606.7	11834.8	8507.5	8098.8	8349.6	7348.0	6431.7
67.5°	7090.4	7297.3	10557.1	11215.8	10943.0	7847.1	7434.1	7252.6	6358.2	5579.6
70°	6438.5	6609.9	9403.5	9470.2	9552.1	6749.2	6078.7	5538.2	4739.3	4194.6
72.5°	5563.6	5572.9	7945.1	7558.3	7713.7	5281.5	4893.0	4140.6	3449.8	2955.7
75°	4667.5	4412.5	6289.0	5283.2	5594.8	4108.5	4062.9	3120.4	2601.9	2196.5
77.5°	3558.7	3260.6	4594.1	3474.3	3929.5	2736.2	3054.6	2116.3	1830.9	1461.8
80°	2389.1	2203.3	2538.6	1960.9	2570.7	1885.8	1992.2	1199.2	1039.6	806.5
82.5°	1260.0	1075.9	1569.1	1162.9	1550.5	1036.2	747.4	370.7	315.8	255.0
85°	488.1	565.0	769.3	413.8	601.3	369.9	216.2	92.1	76.8	58.3
87.5°	94.6	146.1	80.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)