

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: P639032

Luminaire Tested: GWS-SA5B-722-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639032  
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-SA5B-722-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

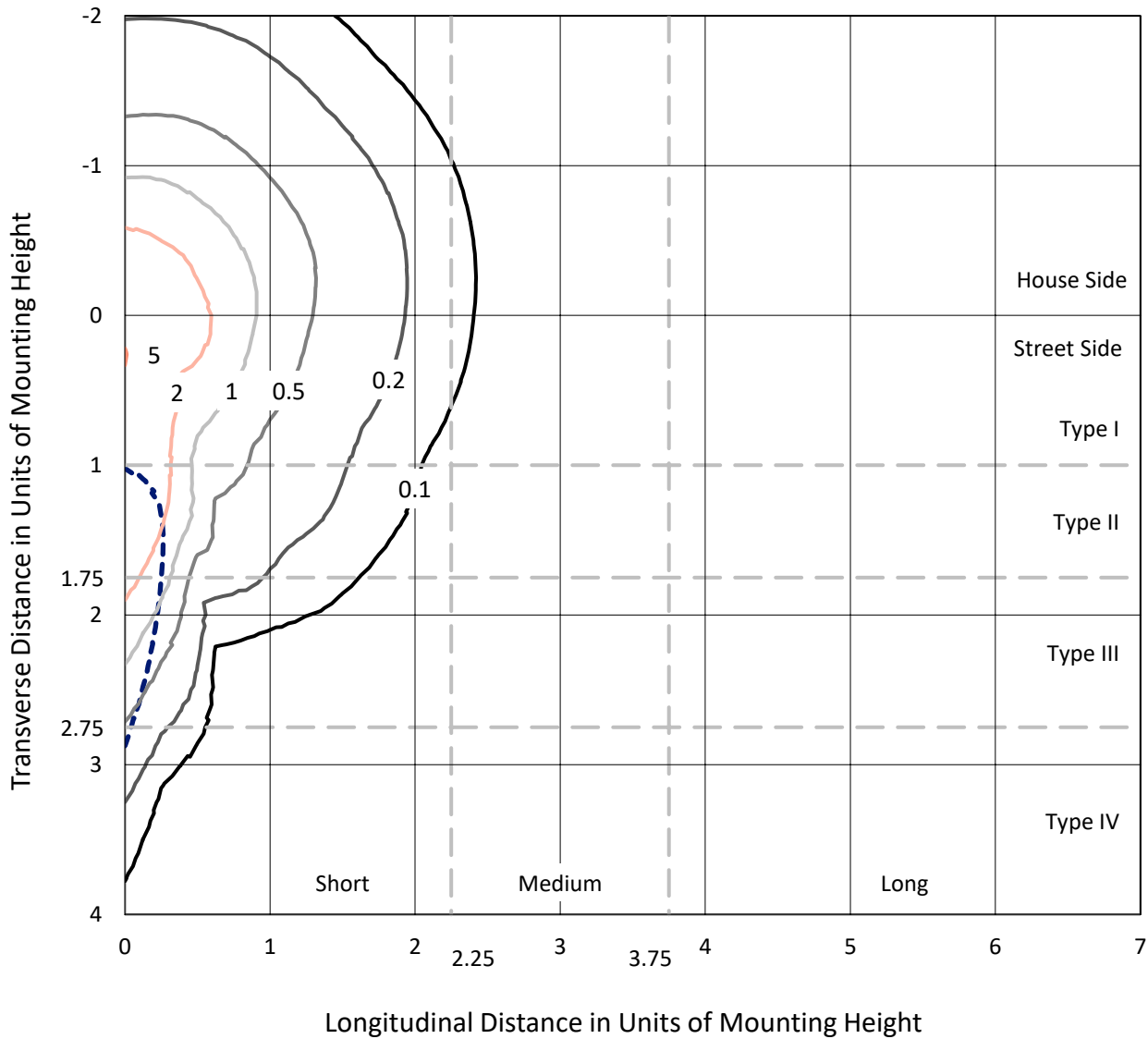
Lumens per Lamp: N/A  
Luminaire Lumens: 12258 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

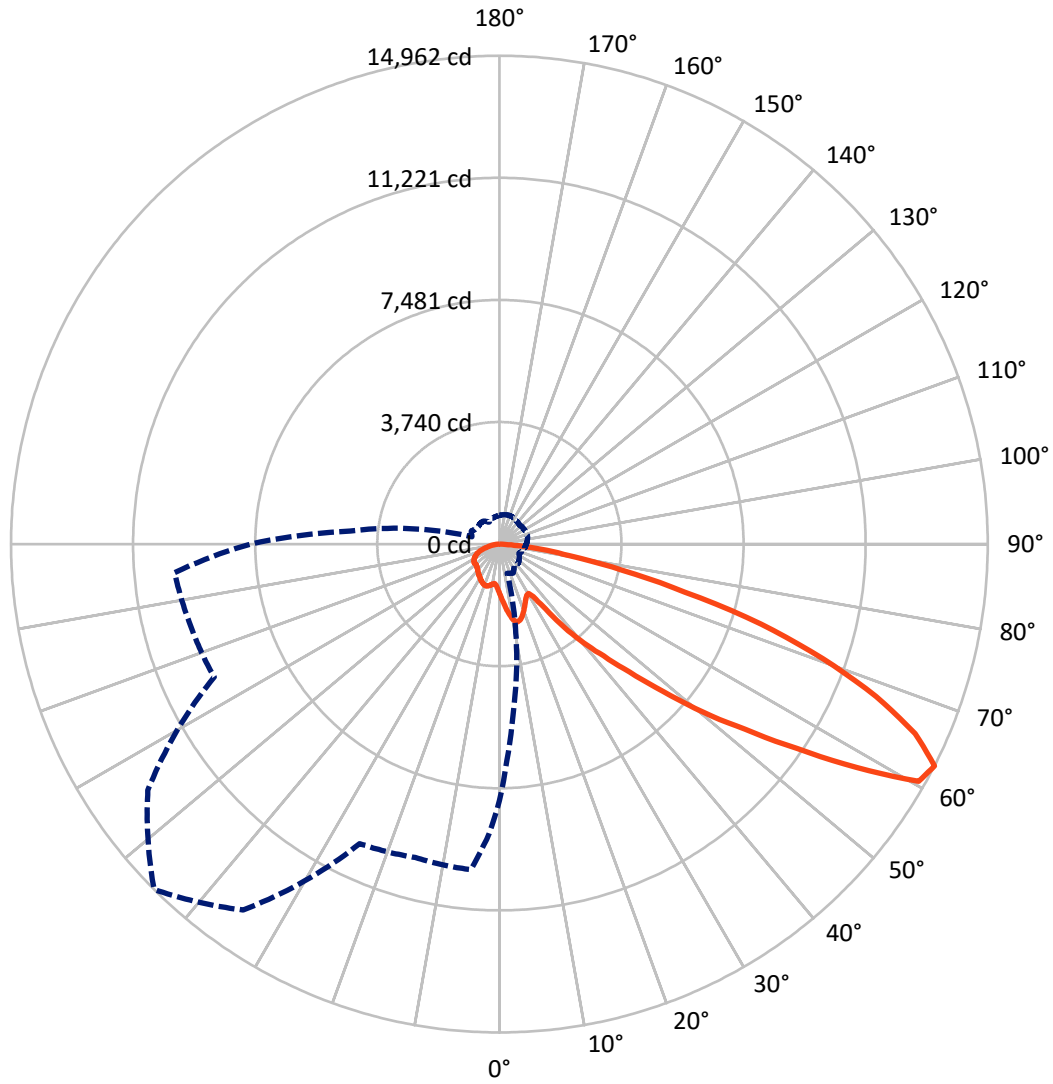
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	2930.9	0.0	2930.9
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	9327.1	0.0	9327.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	12258.0	0.0	12258.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	1.2
10°-20°	489.3	4.0
20°-30°	770.3	6.3
30°-40°	1055.9	8.6
40°-50°	1647.5	13.4
50°-60°	2840.6	23.2
60°-70°	3291.9	26.9
70°-80°	1737.6	14.2
80°-90°	274.5	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°	12258.0	100.0
0°-180°	12258.0	100.0

**Coefficient of Utilization**



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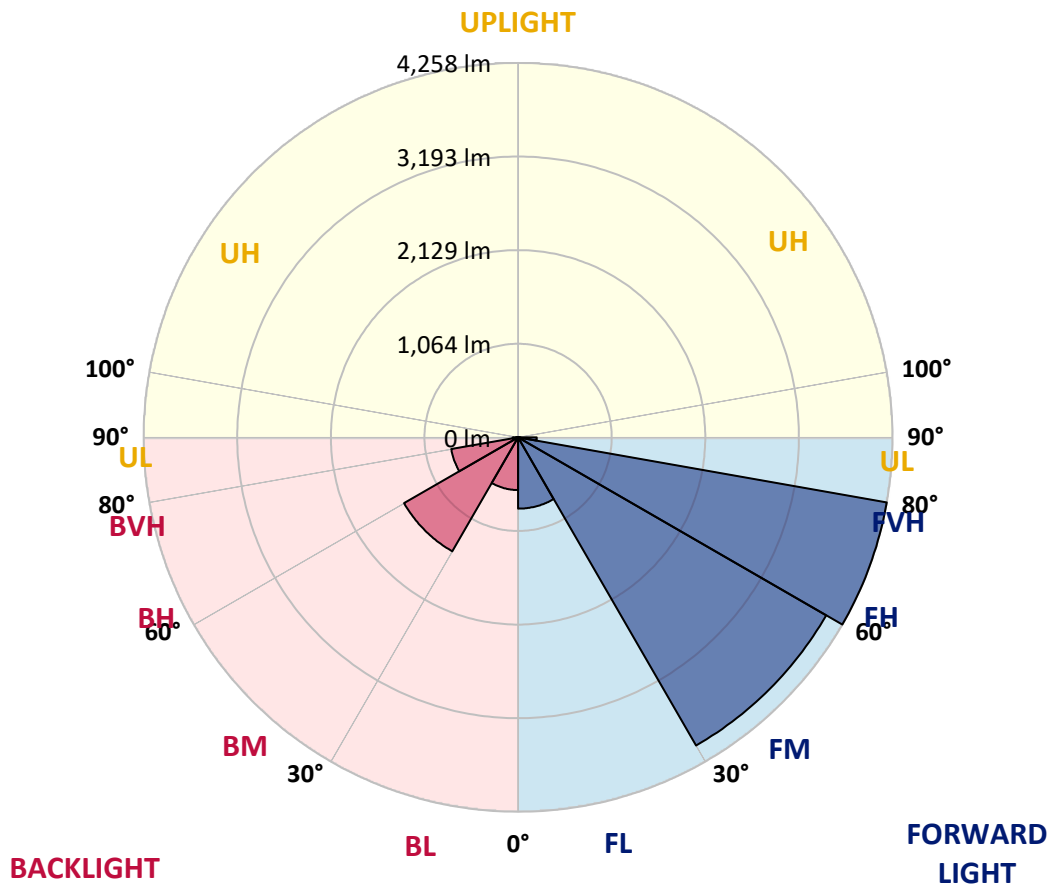
CATALOG NUMBER: GWS-SA5B-722-U-SLL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.7	6.6			
FM (30°-60°)	4046.8	33.0			
FH (60°-80°)	4257.7	34.7			G2/5000
FVH (80°-90°)	211.9	1.7			G2/225
BL (0°-30°)	599.5	4.9	B2/1000		
BM (30°-60°)	1497.1	12.2	B2/2500		
BH (60°-80°)	771.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	62.6	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°	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3
2.5°	1660.5	1654.0	1644.6	1612.7	1593.0	1570.5	1547.1	1519.9	1488.9	1467.4	1445.8
5°	1801.2	1790.9	1768.3	1692.4	1639.9	1582.7	1534.9	1480.5	1427.1	1390.5	1353.9
7.5°	1936.2	1923.1	1888.4	1772.1	1686.8	1604.3	1532.1	1453.3	1373.6	1319.2	1276.1
10°	2071.2	2044.0	1999.9	1848.0	1735.5	1639.9	1557.4	1460.8	1354.9	1280.8	1234.8
12.5°	2174.3	2149.0	2101.2	1917.4	1784.3	1664.3	1571.4	1482.4	1392.4	1313.6	1266.7
15°	2270.9	2238.1	2183.7	1982.1	1824.6	1663.3	1543.3	1465.5	1452.4	1432.7	1371.7
17.5°	2340.3	2310.3	2254.0	2034.6	1847.1	1634.3	1465.5	1419.6	1478.6	1538.6	1480.5
20°	2401.2	2366.6	2309.4	2071.2	1851.8	1569.6	1370.8	1371.7	1464.6	1547.1	1533.0
22.5°	2452.8	2414.4	2363.7	2112.5	1849.9	1479.6	1288.3	1344.5	1437.4	1502.1	1503.9
25°	2516.6	2484.7	2442.5	2173.4	1849.9	1387.7	1228.3	1311.7	1391.4	1445.8	1443.9
27.5°	2594.4	2572.8	2538.1	2266.2	1866.8	1310.8	1194.5	1269.5	1332.4	1379.2	1378.3
30°	2681.6	2661.9	2635.6	2364.7	1895.9	1253.6	1175.8	1217.0	1263.0	1300.5	1300.5
32.5°	2770.7	2763.2	2735.0	2443.4	1873.4	1235.8	1159.8	1164.5	1188.9	1219.8	1217.0
35°	2894.4	2886.9	2851.3	2504.4	1775.9	1210.5	1134.5	1111.1	1113.9	1133.6	1140.1
37.5°	3075.4	3064.1	3011.6	2575.6	1628.6	1146.7	1093.3	1054.8	1046.4	1054.8	1067.0
40°	3293.9	3277.0	3205.7	2672.2	1458.9	1060.4	1028.6	996.7	982.6	985.4	999.5
42.5°	3567.6	3532.0	3429.8	2774.4	1291.1	984.5	956.4	936.7	920.7	918.9	946.1
45°	4012.1	3914.6	3752.4	2865.4	1149.5	944.2	891.7	877.6	864.5	872.0	903.9
47.5°	4788.4	4608.4	4292.4	2943.2	1063.3	945.1	840.1	825.1	824.2	839.2	874.8
50°	5855.4	5595.7	5108.1	2995.7	1018.3	956.4	809.2	784.8	802.6	817.6	851.4
52.5°	6877.4	6480.8	5900.4	2994.8	998.6	958.2	817.6	747.3	802.6	806.4	838.2
55°	7750.4	7032.1	6114.2	2687.2	970.4	950.7	850.4	718.2	792.3	806.4	831.7
57.5°	8444.2	7382.8	6098.3	2170.6	1055.8	909.5	870.1	711.7	762.3	808.2	837.3
60°	8367.3	7222.5	5705.4	1332.4	1047.3	836.4	867.3	723.8	711.7	782.9	830.7
62.5°	7856.3	6647.7	5029.4	924.5	983.6	794.2	821.4	745.4	664.8	746.3	798.9
65°	7140.9	5906.1	4191.2	708.8	814.8	796.0	743.5	730.4	623.5	688.2	744.5
67.5°	6194.8	4986.3	3308.9	561.6	568.2	689.1	675.1	648.8	585.1	636.6	687.3
70°	4657.2	3638.9	2276.5	451.9	430.4	575.7	606.6	583.2	547.6	562.6	616.0
72.5°	3281.7	2375.9	1247.0	358.2	331.9	442.6	526.9	523.2	483.8	495.1	547.6
75°	2438.7	1681.2	779.2	283.2	270.0	316.9	441.6	452.9	420.1	433.2	473.5
77.5°	1623.0	1088.6	433.2	210.0	210.0	231.6	329.1	381.6	357.2	367.5	395.7
80°	895.4	554.1	216.6	137.8	141.6	159.4	240.0	274.7	275.7	301.0	308.5
82.5°	283.2	176.3	96.6	80.6	75.9	90.9	154.7	196.9	183.8	234.4	215.7
85°	64.7	41.3	17.8	17.8	19.7	30.0	59.1	105.0	134.1	161.3	117.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	41.3	60.9	54.4
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°	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3
2.5°	1432.7	1413.9	1408.3	1392.4	1390.5	1375.5	1369.9	1369.9	1376.4	1376.4	1383.0
5°	1338.9	1315.5	1302.4	1283.6	1278.9	1267.7	1260.2	1261.1	1269.5	1275.2	1286.4
7.5°	1256.4	1240.5	1231.1	1222.7	1220.8	1218.9	1210.5	1209.5	1212.3	1220.8	1229.2
10°	1221.7	1210.5	1213.3	1219.8	1230.2	1235.8	1228.3	1224.5	1221.7	1227.3	1234.8
12.5°	1255.5	1244.2	1249.8	1261.1	1275.2	1280.8	1278.0	1277.0	1279.8	1301.4	1317.4
15°	1329.5	1308.0	1300.5	1305.2	1316.4	1322.0	1319.2	1323.0	1340.8	1397.1	1437.4
17.5°	1421.4	1368.9	1338.9	1330.5	1335.2	1339.9	1339.9	1349.2	1380.2	1462.7	1513.3
20°	1471.1	1402.7	1352.0	1331.4	1333.3	1338.0	1338.0	1351.1	1385.8	1473.9	1506.8
22.5°	1458.0	1395.2	1333.3	1310.8	1311.7	1315.5	1315.5	1326.7	1357.7	1435.5	1450.5
25°	1406.4	1351.1	1290.2	1270.5	1272.3	1278.9	1277.0	1283.6	1307.0	1370.8	1379.2
27.5°	1344.5	1295.8	1235.8	1220.8	1229.2	1242.3	1231.1	1232.0	1253.6	1307.0	1308.0
30°	1278.0	1237.7	1184.2	1173.0	1188.9	1195.5	1185.2	1185.2	1206.7	1243.3	1242.3
32.5°	1205.8	1180.5	1142.0	1129.8	1147.6	1158.0	1144.8	1146.7	1163.6	1188.0	1178.6
35°	1138.3	1125.1	1107.3	1098.9	1110.1	1119.5	1111.1	1114.8	1130.8	1137.3	1124.2
37.5°	1073.6	1071.7	1073.6	1073.6	1076.4	1079.2	1073.6	1082.9	1097.0	1088.6	1073.6
40°	1017.3	1024.8	1042.6	1037.9	1035.1	1037.9	1034.2	1050.1	1064.2	1049.2	1031.4
42.5°	970.4	984.5	1011.7	1011.7	1006.1	1007.9	1006.1	1025.8	1036.1	1015.4	995.8
45°	930.1	950.7	985.4	990.1	980.7	980.7	984.5	1008.9	1012.6	984.5	963.9
47.5°	902.0	927.3	966.7	975.1	961.1	960.1	970.4	996.7	996.7	963.9	940.4
50°	882.3	910.4	957.3	968.6	954.5	950.7	967.6	992.9	987.3	947.9	924.5
52.5°	869.2	898.2	956.4	972.3	962.9	959.2	976.1	993.9	979.8	937.6	913.2
55°	860.7	892.6	959.2	972.3	962.0	955.4	972.3	988.3	980.7	932.0	908.6
57.5°	865.4	897.3	955.4	962.0	949.8	938.6	958.2	980.7	977.9	933.9	910.4
60°	857.9	887.0	934.8	936.7	916.1	898.2	927.3	961.1	961.1	927.3	906.7
62.5°	823.2	852.3	894.5	896.4	872.9	853.2	887.0	927.3	926.4	899.2	877.6
65°	766.0	793.2	841.0	845.7	822.3	801.7	836.4	873.9	876.7	852.3	833.5
67.5°	703.2	727.6	763.2	782.0	762.3	740.7	772.6	808.2	807.3	778.2	758.5
70°	628.2	650.7	683.5	699.5	687.3	666.6	695.7	714.5	706.0	692.0	678.8
72.5°	554.1	575.7	606.6	606.6	593.5	573.8	582.3	616.0	626.3	616.0	607.6
75°	476.3	495.1	516.6	521.3	492.2	456.6	496.0	525.1	537.3	532.6	522.3
77.5°	396.6	410.7	442.6	434.1	379.7	361.0	392.9	436.0	444.4	441.6	427.6
80°	305.7	314.1	347.9	331.0	288.8	276.6	290.7	324.4	326.3	316.9	299.1
82.5°	205.3	216.6	239.1	206.3	205.3	194.1	182.8	186.6	203.5	201.6	189.4
85°	105.0	110.6	132.2	123.8	106.0	91.9	87.2	92.8	83.4	75.9	65.6
87.5°	44.1	47.8	65.6	36.6	11.3	0.0	0.0	5.6	8.4	12.2	13.1
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3
2.5°	1398.0	1408.3	1433.6	1465.5	1496.4	1528.3	1563.0	1584.6	1610.8	1644.6	1645.5
5°	1300.5	1323.9	1360.5	1409.2	1459.9	1518.0	1585.5	1641.8	1709.3	1762.7	1784.3
7.5°	1240.5	1274.2	1320.2	1382.1	1448.6	1520.8	1609.0	1703.7	1814.3	1885.6	1927.7
10°	1246.1	1297.7	1343.6	1396.1	1456.1	1533.9	1647.4	1773.0	1909.0	2002.8	2055.3
12.5°	1346.4	1400.8	1392.4	1389.6	1429.9	1524.6	1678.3	1843.4	2009.3	2103.1	2165.9
15°	1473.0	1493.6	1413.9	1353.9	1378.3	1490.8	1695.2	1906.2	2092.8	2207.2	2269.0
17.5°	1537.7	1496.4	1399.9	1309.9	1303.3	1439.2	1703.7	1969.9	2186.5	2300.9	2366.6
20°	1507.7	1447.7	1366.1	1280.8	1233.9	1368.9	1699.0	2020.6	2271.9	2399.4	2452.8
22.5°	1443.0	1390.5	1326.7	1245.2	1177.6	1292.0	1686.8	2071.2	2347.8	2476.3	2523.1
25°	1372.7	1333.3	1280.8	1209.5	1145.8	1224.5	1678.3	2138.7	2435.0	2557.8	2587.8
27.5°	1302.4	1273.3	1230.2	1174.8	1138.3	1177.6	1681.2	2226.8	2547.5	2663.8	2651.6
30°	1233.0	1207.7	1177.6	1153.3	1137.3	1166.4	1673.6	2320.6	2671.3	2779.1	2706.9
32.5°	1167.3	1143.9	1125.1	1128.9	1138.3	1171.1	1635.2	2405.9	2784.7	2876.6	2766.9
35°	1111.1	1086.7	1086.7	1099.8	1134.5	1155.1	1535.8	2472.5	2910.4	3002.3	2852.2
37.5°	1058.6	1037.0	1051.1	1072.6	1105.5	1112.0	1408.3	2537.2	3093.2	3179.5	2984.4
40°	1012.6	991.1	1016.4	1043.6	1060.4	1057.6	1278.9	2627.2	3308.9	3397.9	3159.8
42.5°	976.1	956.4	978.9	1013.6	1016.4	1019.2	1184.2	2713.5	3559.2	3672.7	3461.7
45°	946.1	932.0	943.2	977.9	977.9	1021.1	1125.1	2785.7	3936.1	4136.8	4015.8
47.5°	922.6	914.2	919.8	931.1	949.8	1054.8	1087.6	2841.0	4622.5	5016.3	4894.4
50°	909.5	901.1	908.6	885.1	941.4	1071.7	1075.4	2883.2	5527.3	6144.2	5993.3
52.5°	898.2	895.4	900.1	845.7	960.1	1060.4	1066.1	2826.9	6133.9	7254.4	7403.4
55°	894.5	896.4	873.9	816.7	982.6	1022.9	1037.9	2424.7	6298.9	8211.7	9137.1
57.5°	896.4	890.7	833.5	819.5	983.6	947.9	1078.3	1729.9	6058.9	8628.0	10833.2
60°	889.8	861.7	784.8	844.8	940.4	859.8	1049.2	1128.0	5426.0	8308.2	10931.7
62.5°	860.7	819.5	742.6	858.9	863.5	807.3	952.6	869.2	4582.1	7623.8	9982.8
65°	818.5	763.2	707.0	829.8	785.7	782.9	716.3	696.7	3684.8	6809.0	9082.7
67.5°	749.2	693.8	680.7	763.2	707.0	693.8	575.7	577.6	2940.4	5940.8	8177.9
70°	670.4	615.1	625.4	690.1	629.1	576.6	466.0	481.0	2230.6	4949.7	6958.1
72.5°	618.8	544.8	545.7	607.6	553.2	466.9	383.5	396.6	1415.8	3730.8	5532.0
75°	522.3	480.1	459.4	492.2	469.7	363.8	322.5	319.7	839.2	2674.1	4142.4
77.5°	436.0	403.2	392.9	406.0	350.7	269.1	259.7	255.0	475.4	1713.0	2714.4
80°	316.0	307.5	306.6	313.2	270.0	197.8	197.8	198.8	256.0	930.1	1530.2
82.5°	200.7	219.4	194.1	215.7	183.8	140.6	131.3	149.1	147.2	396.6	645.1
85°	83.4	114.4	106.9	113.5	87.2	76.9	82.5	89.1	85.3	152.8	251.3
87.5°	15.9	18.8	20.6	19.7	19.7	24.4	27.2	32.8	32.8	44.1	75.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P639032

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3	1528.3
2.5°	1681.2	1708.3	1702.7	1714.9	1699.0	1704.6	1672.7	1664.3	1658.6	1660.5
5°	1853.7	1909.0	1919.3	1939.9	1925.9	1925.9	1869.6	1827.4	1812.4	1801.2
7.5°	2029.0	2108.7	2161.2	2166.8	2159.3	2144.3	2062.8	1986.8	1959.6	1936.2
10°	2184.7	2280.3	2339.4	2367.5	2353.4	2330.0	2228.7	2124.6	2091.8	2071.2
12.5°	2303.7	2388.1	2427.5	2446.2	2444.4	2435.9	2353.4	2240.9	2206.2	2174.3
15°	2380.6	2422.8	2407.8	2406.9	2420.0	2453.7	2428.4	2340.3	2300.0	2270.9
17.5°	2430.3	2390.0	2323.4	2292.5	2320.6	2400.3	2458.4	2408.7	2372.2	2340.3
20°	2448.1	2304.7	2208.1	2150.9	2183.7	2299.0	2442.5	2458.4	2427.5	2401.2
22.5°	2427.5	2200.6	2069.3	2001.8	2033.7	2171.5	2395.6	2498.8	2478.1	2452.8
25°	2376.9	2091.8	1934.3	1873.4	1908.1	2048.7	2312.2	2536.3	2537.2	2516.6
27.5°	2314.0	1991.5	1839.6	1782.4	1816.2	1947.4	2230.6	2569.1	2601.9	2594.4
30°	2250.3	1931.5	1794.6	1754.3	1779.6	1895.9	2147.1	2602.8	2668.5	2681.6
32.5°	2221.2	1960.6	1900.6	1918.4	1885.6	1925.9	2117.1	2650.6	2749.1	2770.7
35°	2259.7	2218.4	2370.3	2440.6	2324.4	2171.5	2155.6	2722.8	2862.6	2894.4
37.5°	2446.2	2770.7	2997.6	3245.1	3043.5	2706.9	2345.9	2845.7	3024.8	3075.4
40°	2852.2	3252.6	3662.3	3982.1	3677.3	3224.5	2707.8	3028.5	3247.9	3293.9
42.5°	3234.8	3704.5	4269.0	4682.5	4286.8	3647.3	3097.9	3336.0	3542.3	3567.6
45°	3609.8	4148.0	5003.1	5577.9	5040.6	4049.6	3496.4	3855.5	4011.1	4012.1
47.5°	4049.6	4647.8	5923.9	6742.4	6041.1	4494.9	3870.5	4677.8	4894.4	4788.4
50°	4575.6	5144.7	6871.8	8097.3	7260.9	5042.5	4345.9	5680.1	5975.4	5855.4
52.5°	5279.7	5692.3	7916.3	9418.4	8590.5	5666.0	5035.0	7004.0	7101.5	6877.4
55°	6270.8	6482.7	9257.1	11049.8	10074.7	6433.9	6043.0	8665.5	8392.6	7750.4
57.5°	8527.6	7733.5	10978.6	12911.0	11754.0	7829.1	8252.0	10497.6	9527.1	8444.2
60°	10416.0	9252.4	12571.6	14758.1	13193.2	9366.8	10326.0	10816.4	9485.0	8367.3
62.5°	9779.4	9639.7	13146.4	14961.6	13684.5	10123.5	9940.6	10012.8	8866.1	7856.3
65°	8580.2	8892.4	12633.5	13996.8	13139.8	9445.6	8991.8	9270.2	8158.2	7140.9
67.5°	7872.2	8102.0	11721.2	12452.5	12149.7	8712.4	8253.9	8052.3	7059.3	6194.8
70°	7148.4	7338.7	10440.4	10514.5	10605.4	7493.5	6749.0	6148.9	5261.9	4657.2
72.5°	6177.0	6187.3	8821.1	8391.7	8564.2	5863.9	5432.6	4597.1	3830.2	3281.7
75°	5182.2	4899.1	6982.4	5865.7	6211.7	4561.5	4510.9	3464.5	2888.8	2438.7
77.5°	3951.1	3620.1	5100.6	3857.4	4362.7	3037.9	3391.4	2349.7	2032.8	1623.0
80°	2652.5	2446.2	2818.5	2177.2	2854.1	2093.7	2211.8	1331.4	1154.2	895.4
82.5°	1398.9	1194.5	1742.1	1291.1	1721.5	1150.5	829.8	411.6	350.7	283.2
85°	541.9	627.3	854.2	459.4	667.6	410.7	240.0	102.2	85.3	64.7
87.5°	105.0	162.2	89.1	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)