

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: P639527

Luminaire Tested: GWS-SA5C-722-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639527  
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-SA5C-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**

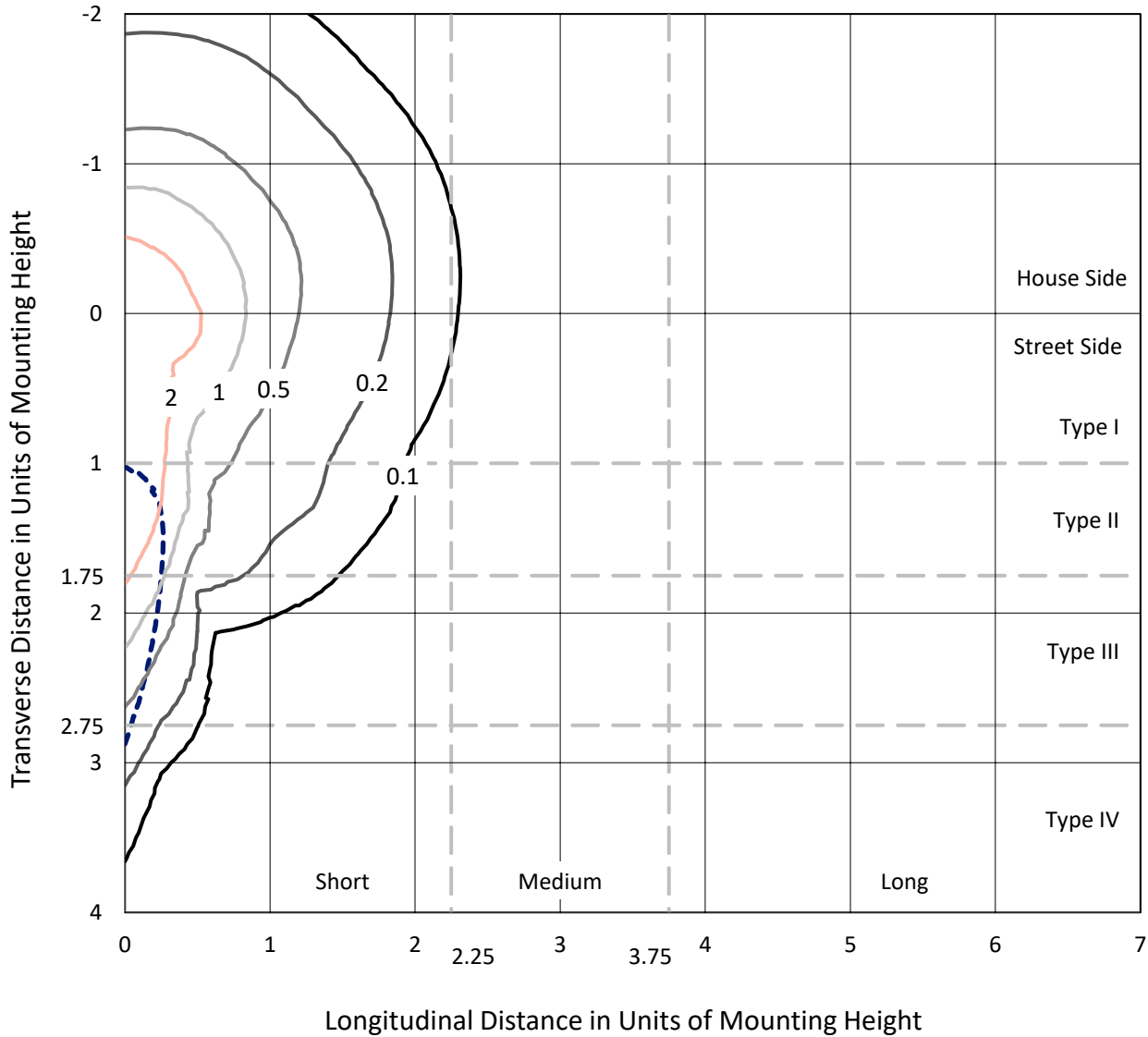
Lumens per Lamp: N/A  
Luminaire Lumens: 16439.3 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

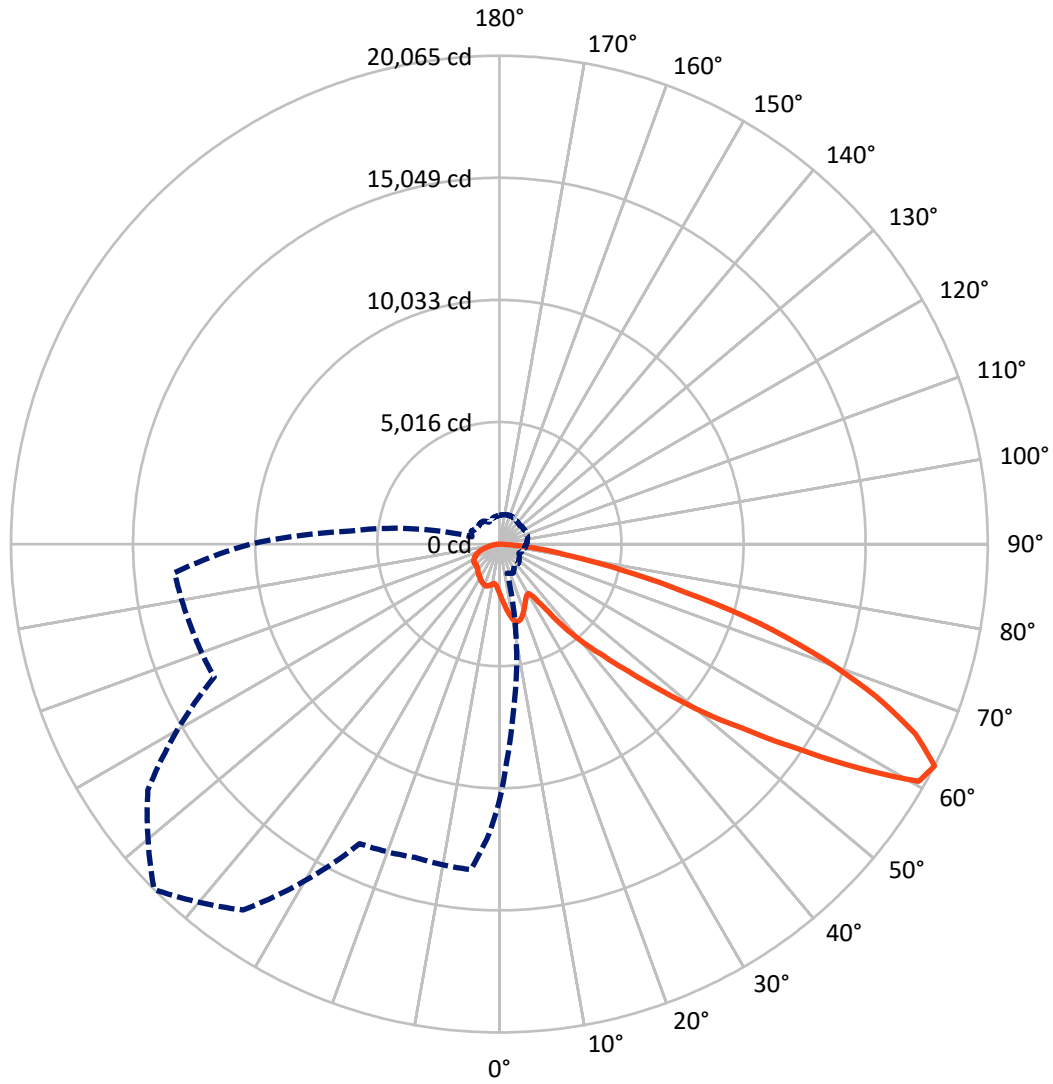
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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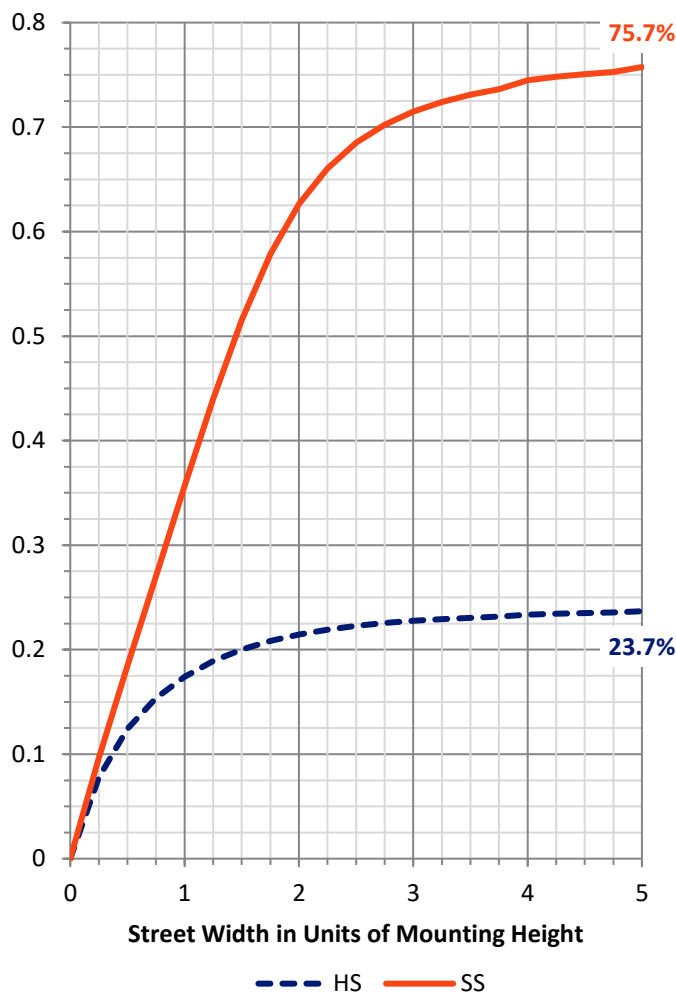
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3930.7	0.0	3930.7
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	12508.6	0.0	12508.6
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	16439.3	0.0	16439.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.9	1.2
10°-20°	656.2	4.0
20°-30°	1033.1	6.3
30°-40°	1416.0	8.6
40°-50°	2209.4	13.4
50°-60°	3809.5	23.2
60°-70°	4414.7	26.9
70°-80°	2330.3	14.2
80°-90°	368.1	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°	16439.3	100.0
0°-180°	16439.3	100.0

**Coefficient of Utilization**



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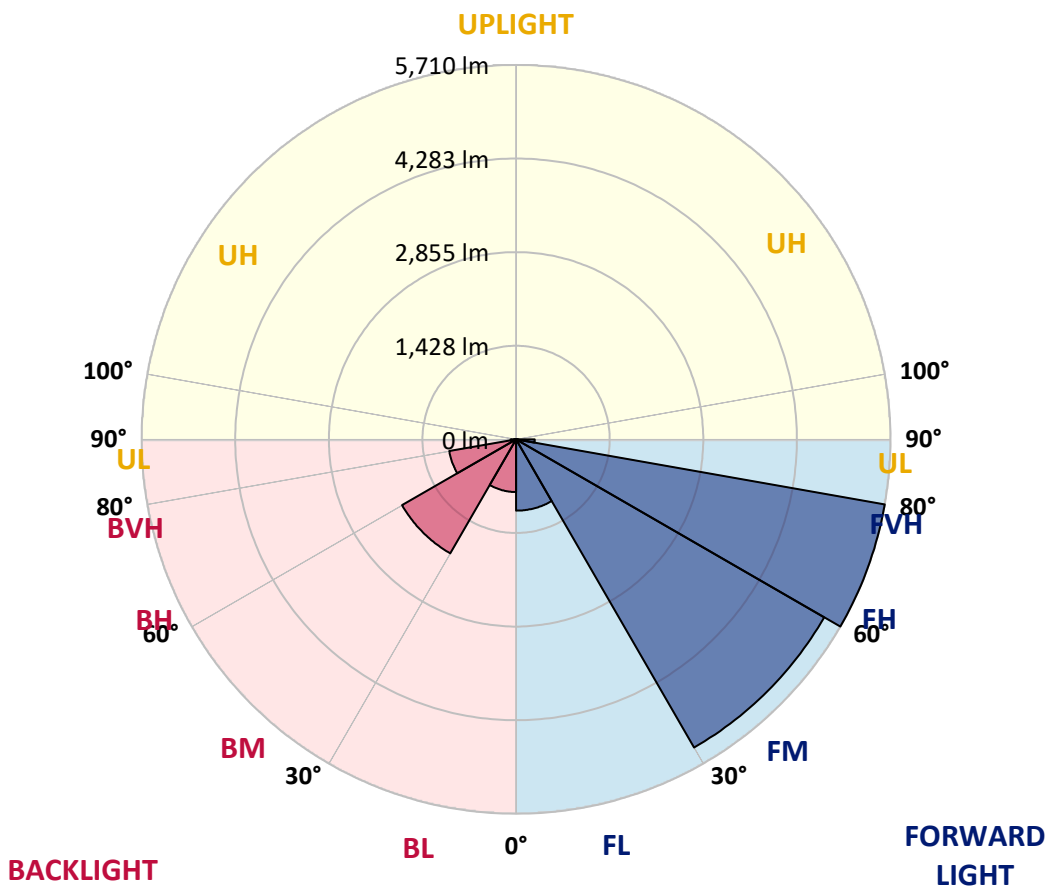
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.3	6.6			
FM (30°-60°)	5427.2	33.0			
FH (60°-80°)	5710.1	34.7			G3/7500
FVH (80°-90°)	284.1	1.7			G3/500
BL (0°-30°)	804.0	4.9	B2/1000		
BM (30°-60°)	2007.8	12.2	B2/2500		
BH (60°-80°)	1035.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	84.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6
2.5°	2226.9	2218.1	2205.6	2162.8	2136.4	2106.2	2074.8	2038.3	1996.8	1967.9	1939.0
5°	2415.6	2401.7	2371.5	2269.7	2199.3	2122.6	2058.4	1985.5	1913.8	1864.8	1815.8
7.5°	2596.6	2579.0	2532.5	2376.6	2262.1	2151.5	2054.7	1949.0	1842.2	1769.2	1711.4
10°	2777.7	2741.2	2682.1	2478.4	2327.5	2199.3	2088.6	1959.1	1817.0	1717.7	1656.1
12.5°	2916.0	2882.1	2817.9	2571.5	2392.9	2232.0	2107.5	1988.0	1867.3	1761.7	1698.8
15°	3045.5	3001.5	2928.6	2658.2	2447.0	2230.7	2069.8	1965.4	1947.8	1921.4	1839.6
17.5°	3138.6	3098.4	3022.9	2728.7	2477.2	2191.7	1965.4	1903.8	1983.0	2063.5	1985.5
20°	3220.3	3173.8	3097.1	2777.7	2483.5	2105.0	1838.4	1839.6	1964.1	2074.8	2055.9
22.5°	3289.5	3237.9	3170.0	2833.0	2480.9	1984.3	1727.7	1803.2	1927.7	2014.4	2016.9
25°	3375.0	3332.2	3275.7	2914.8	2480.9	1861.0	1647.3	1759.2	1866.1	1939.0	1936.5
27.5°	3479.4	3450.4	3403.9	3039.3	2503.6	1757.9	1602.0	1702.6	1786.8	1849.7	1848.4
30°	3596.3	3569.9	3534.7	3171.3	2542.6	1681.2	1576.8	1632.2	1693.8	1744.1	1744.1
32.5°	3715.8	3705.7	3668.0	3276.9	2512.4	1657.3	1555.5	1561.8	1594.4	1635.9	1632.2
35°	3881.7	3871.7	3823.9	3358.6	2381.6	1623.4	1521.5	1490.1	1493.8	1520.3	1529.1
37.5°	4124.4	4109.3	4038.9	3454.2	2184.2	1537.9	1466.2	1414.6	1403.3	1414.6	1431.0
40°	4417.4	4394.8	4299.2	3583.7	1956.6	1422.2	1379.4	1336.7	1317.8	1321.6	1340.4
42.5°	4784.6	4736.8	4599.7	3720.8	1731.5	1320.3	1282.6	1256.2	1234.8	1232.3	1268.8
45°	5380.6	5249.8	5032.3	3842.8	1541.6	1266.3	1195.8	1177.0	1159.4	1169.4	1212.2
47.5°	6421.8	6180.4	5756.6	3947.1	1425.9	1267.5	1126.7	1106.6	1105.3	1125.4	1173.2
50°	7852.8	7504.4	6850.6	4017.5	1365.6	1282.6	1085.2	1052.5	1076.4	1096.5	1141.8
52.5°	9223.4	8691.5	7913.1	4016.3	1339.2	1285.1	1096.5	1002.2	1076.4	1081.4	1124.2
55°	10394.1	9430.9	8199.8	3603.8	1301.5	1275.1	1140.5	963.2	1062.5	1081.4	1115.4
57.5°	11324.6	9901.1	8178.4	2911.0	1415.9	1219.7	1166.9	954.4	1022.3	1083.9	1122.9
60°	11221.5	9686.1	7651.6	1786.8	1404.6	1121.6	1163.1	970.7	954.4	1050.0	1114.1
62.5°	10536.2	8915.3	6745.0	1239.8	1319.1	1065.1	1101.5	999.7	891.5	1000.9	1071.3
65°	9576.7	7920.7	5620.8	950.6	1092.7	1067.6	997.2	979.6	836.2	923.0	998.4
67.5°	8308.0	6687.1	4437.5	753.2	762.0	924.2	905.4	870.2	784.6	853.8	921.7
70°	6245.7	4880.2	3053.1	606.1	577.2	772.1	813.6	782.1	734.3	754.5	826.1
72.5°	4401.1	3186.4	1672.4	480.3	445.1	593.5	706.7	701.7	648.8	663.9	734.3
75°	3270.6	2254.6	1044.9	379.7	362.1	425.0	592.3	607.3	563.3	580.9	635.0
77.5°	2176.6	1459.9	580.9	281.7	281.7	310.6	441.4	511.8	479.1	492.9	530.6
80°	1200.9	743.2	290.5	184.8	189.9	213.8	321.9	368.4	369.7	403.6	413.7
82.5°	379.7	236.4	129.5	108.1	101.9	122.0	207.5	264.1	246.5	314.4	289.2
85°	86.8	55.3	23.9	23.9	26.4	40.2	79.2	140.8	179.8	216.3	157.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	55.3	81.7	72.9
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6
2.5°	1921.4	1896.2	1888.7	1867.3	1864.8	1844.7	1837.1	1837.1	1845.9	1845.9	1854.7
5°	1795.6	1764.2	1746.6	1721.4	1715.2	1700.1	1690.0	1691.3	1702.6	1710.1	1725.2
7.5°	1685.0	1663.6	1651.0	1639.7	1637.2	1634.7	1623.4	1622.1	1625.9	1637.2	1648.5
10°	1638.5	1623.4	1627.1	1635.9	1649.8	1657.3	1647.3	1642.2	1638.5	1646.0	1656.1
12.5°	1683.7	1668.6	1676.2	1691.3	1710.1	1717.7	1713.9	1712.6	1716.4	1745.3	1766.7
15°	1783.1	1754.1	1744.1	1750.4	1765.5	1773.0	1769.2	1774.3	1798.2	1873.6	1927.7
17.5°	1906.3	1835.9	1795.6	1784.3	1790.6	1796.9	1796.9	1809.5	1851.0	1961.6	2029.5
20°	1972.9	1881.1	1813.2	1785.6	1788.1	1794.4	1794.4	1812.0	1858.5	1976.7	2020.7
22.5°	1955.3	1871.1	1788.1	1757.9	1759.2	1764.2	1764.2	1779.3	1820.8	1925.2	1945.3
25°	1886.2	1812.0	1730.2	1703.8	1706.4	1715.2	1712.6	1721.4	1752.9	1838.4	1849.7
27.5°	1803.2	1737.8	1657.3	1637.2	1648.5	1666.1	1651.0	1652.3	1681.2	1752.9	1754.1
30°	1713.9	1659.8	1588.2	1573.1	1594.4	1603.2	1589.4	1589.4	1618.3	1667.4	1666.1
32.5°	1617.1	1583.1	1531.6	1515.2	1539.1	1552.9	1535.3	1537.9	1560.5	1593.2	1580.6
35°	1526.5	1508.9	1485.0	1473.7	1488.8	1501.4	1490.1	1495.1	1516.5	1525.3	1507.7
37.5°	1439.8	1437.3	1439.8	1439.8	1443.6	1447.3	1439.8	1452.4	1471.2	1459.9	1439.8
40°	1364.3	1374.4	1398.3	1392.0	1388.2	1392.0	1387.0	1408.3	1427.2	1407.1	1383.2
42.5°	1301.5	1320.3	1356.8	1356.8	1349.2	1351.8	1349.2	1375.6	1389.5	1361.8	1335.4
45°	1247.4	1275.1	1321.6	1327.9	1315.3	1315.3	1320.3	1353.0	1358.0	1320.3	1292.7
47.5°	1209.7	1243.6	1296.4	1307.7	1288.9	1287.6	1301.5	1336.7	1336.7	1292.7	1261.2
50°	1183.3	1221.0	1283.9	1298.9	1280.1	1275.1	1297.7	1331.6	1324.1	1271.3	1239.8
52.5°	1165.7	1204.6	1282.6	1304.0	1291.4	1286.4	1309.0	1332.9	1314.0	1257.4	1224.8
55°	1154.3	1197.1	1286.4	1304.0	1290.1	1281.3	1304.0	1325.4	1315.3	1249.9	1218.5
57.5°	1160.6	1203.4	1281.3	1290.1	1273.8	1258.7	1285.1	1315.3	1311.5	1252.4	1221.0
60°	1150.6	1189.5	1253.7	1256.2	1228.5	1204.6	1243.6	1288.9	1288.9	1243.6	1216.0
62.5°	1104.0	1143.0	1199.6	1202.1	1170.7	1144.3	1189.5	1243.6	1242.4	1205.9	1177.0
65°	1027.3	1063.8	1127.9	1134.2	1102.8	1075.1	1121.6	1171.9	1175.7	1143.0	1117.9
67.5°	943.1	975.8	1023.6	1048.7	1022.3	993.4	1036.1	1083.9	1082.7	1043.7	1017.3
70°	842.5	872.7	916.7	938.1	921.7	894.0	933.0	958.2	946.9	928.0	910.4
72.5°	743.2	772.1	813.6	813.6	796.0	769.6	780.9	826.1	840.0	826.1	814.8
75°	638.8	663.9	692.9	699.1	660.2	612.4	665.2	704.2	720.5	714.2	700.4
77.5°	531.9	550.8	593.5	582.2	509.3	484.1	526.9	584.7	596.0	592.3	573.4
80°	409.9	421.2	466.5	443.9	387.3	370.9	389.8	435.1	437.6	425.0	401.1
82.5°	275.4	290.5	320.6	276.6	275.4	260.3	245.2	250.2	272.9	270.4	254.0
85°	140.8	148.4	177.3	166.0	142.1	123.2	116.9	124.5	111.9	101.9	88.0
87.5°	59.1	64.1	88.0	49.0	15.1	0.0	0.0	7.5	11.3	16.3	17.6
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°	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6
2.5°	1874.9	1888.7	1922.6	1965.4	2006.9	2049.6	2096.2	2125.1	2160.3	2205.6	2206.8
5°	1744.1	1775.5	1824.6	1889.9	1957.8	2035.8	2126.3	2201.8	2292.3	2364.0	2392.9
7.5°	1663.6	1708.9	1770.5	1853.5	1942.8	2039.6	2157.8	2284.8	2433.2	2528.7	2585.3
10°	1671.1	1740.3	1801.9	1872.3	1952.8	2057.2	2209.3	2377.8	2560.2	2685.9	2756.3
12.5°	1805.7	1878.6	1867.3	1863.5	1917.6	2044.6	2250.8	2472.1	2694.7	2820.5	2904.7
15°	1975.5	2003.1	1896.2	1815.8	1848.4	1999.3	2273.5	2556.4	2806.6	2960.0	3043.0
17.5°	2062.2	2006.9	1877.4	1756.7	1747.9	1930.2	2284.8	2641.9	2932.4	3085.8	3173.8
20°	2022.0	1941.5	1832.1	1717.7	1654.8	1835.9	2278.5	2709.8	3046.8	3217.8	3289.5
22.5°	1935.2	1864.8	1779.3	1669.9	1579.4	1732.8	2262.1	2777.7	3148.6	3320.9	3383.8
25°	1840.9	1788.1	1717.7	1622.1	1536.6	1642.2	2250.8	2868.2	3265.6	3430.3	3470.6
27.5°	1746.6	1707.6	1649.8	1575.6	1526.5	1579.4	2254.6	2986.4	3416.5	3572.4	3556.1
30°	1653.5	1619.6	1579.4	1546.7	1525.3	1564.3	2244.5	3112.2	3582.5	3727.1	3630.3
32.5°	1565.5	1534.1	1508.9	1514.0	1526.5	1570.6	2193.0	3226.6	3734.6	3857.9	3710.7
35°	1490.1	1457.4	1457.4	1475.0	1521.5	1549.2	2059.7	3315.9	3903.1	4026.3	3825.2
37.5°	1419.7	1390.7	1409.6	1438.5	1482.5	1491.3	1888.7	3402.7	4148.3	4264.0	4002.5
40°	1358.0	1329.1	1363.1	1399.5	1422.2	1418.4	1715.2	3523.4	4437.5	4557.0	4237.6
42.5°	1309.0	1282.6	1312.8	1359.3	1363.1	1366.8	1588.2	3639.1	4773.3	4925.4	4642.5
45°	1268.8	1249.9	1265.0	1311.5	1311.5	1369.4	1508.9	3735.9	5278.8	5547.9	5385.6
47.5°	1237.3	1226.0	1233.6	1248.6	1273.8	1414.6	1458.6	3810.1	6199.2	6727.3	6563.9
50°	1219.7	1208.4	1218.5	1187.0	1262.5	1437.3	1442.3	3866.7	7412.7	8240.1	8037.6
52.5°	1204.6	1200.9	1207.2	1134.2	1287.6	1422.2	1429.7	3791.2	8226.2	9728.9	9928.8
55°	1199.6	1202.1	1171.9	1095.2	1317.8	1371.9	1392.0	3251.8	8447.5	11012.7	12253.8
57.5°	1202.1	1194.6	1117.9	1099.0	1319.1	1271.3	1446.1	2320.0	8125.6	11571.0	14528.6
60°	1193.3	1155.6	1052.5	1133.0	1261.2	1153.1	1407.1	1512.7	7276.9	11142.2	14660.6
62.5°	1154.3	1099.0	995.9	1151.8	1158.1	1082.7	1277.6	1165.7	6145.1	10224.3	13388.0
65°	1097.8	1023.6	948.1	1112.8	1053.7	1050.0	960.7	934.3	4941.8	9131.6	12180.9
67.5°	1004.7	930.5	912.9	1023.6	948.1	930.5	772.1	774.6	3943.4	7967.2	10967.5
70°	899.1	824.9	838.7	925.5	843.7	773.3	625.0	645.1	2991.5	6638.1	9331.5
72.5°	829.9	730.6	731.8	814.8	741.9	626.2	514.3	531.9	1898.7	5003.4	7418.9
75°	700.4	643.8	616.1	660.2	630.0	487.9	432.6	428.8	1125.4	3586.2	5555.4
77.5°	584.7	540.7	526.9	544.5	470.3	360.9	348.3	342.0	637.5	2297.4	3640.3
80°	423.8	412.4	411.2	420.0	362.1	265.3	265.3	266.6	343.3	1247.4	2052.2
82.5°	269.1	294.2	260.3	289.2	246.5	188.6	176.0	199.9	197.4	531.9	865.1
85°	111.9	153.4	143.3	152.2	116.9	103.1	110.7	119.5	114.4	205.0	337.0
87.5°	21.4	25.1	27.7	26.4	26.4	32.7	36.5	44.0	44.0	59.1	101.9
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6	2049.6
2.5°	2254.6	2291.1	2283.5	2299.9	2278.5	2286.0	2243.3	2232.0	2224.4	2226.9
5°	2486.0	2560.2	2574.0	2601.7	2582.8	2582.8	2507.4	2450.8	2430.6	2415.6
7.5°	2721.1	2828.0	2898.4	2906.0	2895.9	2875.8	2766.4	2664.5	2628.1	2596.6
10°	2929.9	3058.1	3137.3	3175.1	3156.2	3124.8	2989.0	2849.4	2805.4	2777.7
12.5°	3089.5	3202.7	3255.5	3280.7	3278.2	3266.9	3156.2	3005.3	2958.8	2916.0
15°	3192.7	3249.2	3229.1	3227.9	3245.5	3290.7	3256.8	3138.6	3084.5	3045.5
17.5°	3259.3	3205.2	3116.0	3074.5	3112.2	3219.1	3297.0	3230.4	3181.3	3138.6
20°	3283.2	3090.8	2961.3	2884.6	2928.6	3083.3	3275.7	3297.0	3255.5	3220.3
22.5°	3255.5	2951.2	2775.2	2684.7	2727.4	2912.2	3212.8	3351.1	3323.4	3289.5
25°	3187.6	2805.4	2594.1	2512.4	2558.9	2747.5	3100.9	3401.4	3402.7	3375.0
27.5°	3103.4	2670.8	2467.1	2390.4	2435.7	2611.7	2991.5	3445.4	3489.4	3479.4
30°	3017.9	2590.3	2406.8	2352.7	2386.6	2542.6	2879.6	3490.7	3578.7	3596.3
32.5°	2978.9	2629.3	2548.8	2572.7	2528.7	2582.8	2839.3	3554.8	3686.8	3715.8
35°	3030.4	2975.1	3178.8	3273.1	3117.2	2912.2	2890.9	3651.6	3839.0	3881.7
37.5°	3280.7	3715.8	4020.1	4352.0	4081.7	3630.3	3146.1	3816.4	4056.5	4124.4
40°	3825.2	4362.1	4911.6	5340.4	4931.7	4324.4	3631.5	4061.6	4355.8	4417.4
42.5°	4338.2	4968.2	5725.2	6279.7	5749.1	4891.5	4154.6	4474.0	4750.6	4784.6
45°	4841.2	5563.0	6709.7	7480.6	6760.0	5430.9	4689.0	5170.6	5379.4	5380.6
47.5°	5430.9	6233.2	7944.6	9042.3	8101.7	6028.2	5190.7	6273.4	6563.9	6421.8
50°	6136.3	6899.6	9215.8	10859.3	9737.7	6762.6	5828.3	7617.6	8013.7	7852.8
52.5°	7080.7	7634.0	10616.6	12631.1	11520.7	7598.8	6752.5	9393.1	9523.9	9223.4
55°	8409.8	8694.0	12414.8	14819.0	13511.3	8628.6	8104.3	11621.3	11255.4	10394.1
57.5°	11436.5	10371.4	14723.5	17315.1	15763.4	10499.7	11066.8	14078.4	12776.9	11324.6
60°	13969.0	12408.5	16859.9	19792.2	17693.6	12561.9	13848.3	14505.9	12720.3	11221.5
62.5°	13115.2	12927.8	17630.7	20065.1	18352.5	13576.7	13331.5	13428.3	11890.4	10536.2
65°	11506.9	11925.6	16942.9	18771.2	17621.9	12667.5	12058.9	12432.4	10941.1	9576.7
67.5°	10557.5	10865.6	15719.4	16700.2	16294.0	11684.2	11069.3	10799.0	9467.3	8308.0
70°	9586.8	9842.0	14001.7	14101.0	14223.0	10049.5	9051.1	8246.3	7056.8	6245.7
72.5°	8284.1	8297.9	11830.1	11254.2	11485.5	7864.1	7285.7	6165.3	5136.7	4401.1
75°	6949.9	6570.2	9364.2	7866.6	8330.6	6117.5	6049.6	4646.3	3874.2	3270.6
77.5°	5298.9	4855.0	6840.5	5173.1	5850.9	4074.1	4548.2	3151.2	2726.1	2176.6
80°	3557.3	3280.7	3779.9	2919.8	3827.7	2807.9	2966.3	1785.6	1547.9	1200.9
82.5°	1876.1	1602.0	2336.3	1731.5	2308.7	1542.9	1112.8	552.0	470.3	379.7
85°	726.8	841.2	1145.5	616.1	895.3	550.8	321.9	137.1	114.4	86.8
87.5°	140.8	217.5	119.5	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)