

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: P636557

Luminaire Tested: GWS-SA4B-722-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636557  
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-SA4B-722-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

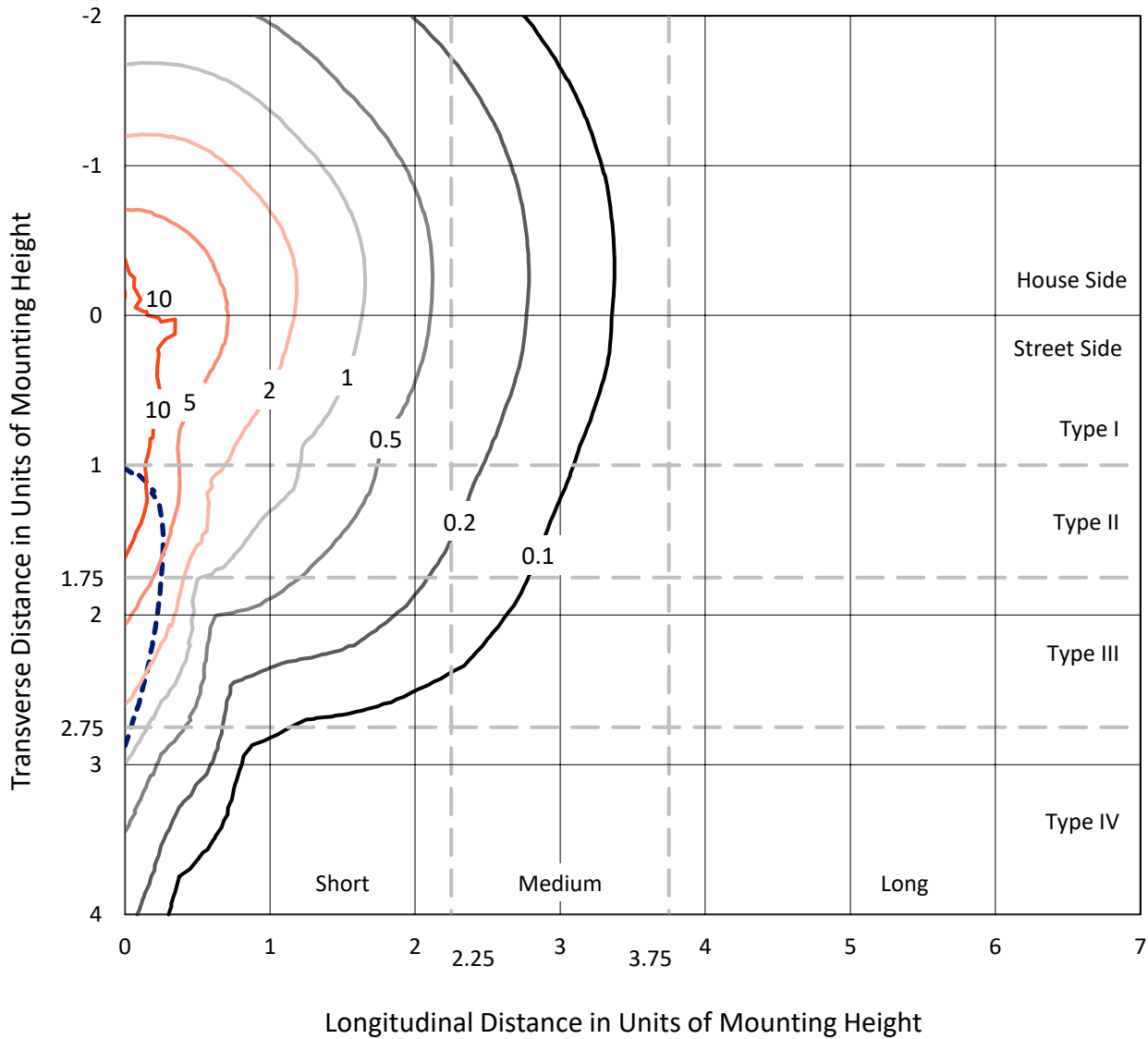
Lumens per Lamp: N/A  
Luminaire Lumens: 9992.6 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

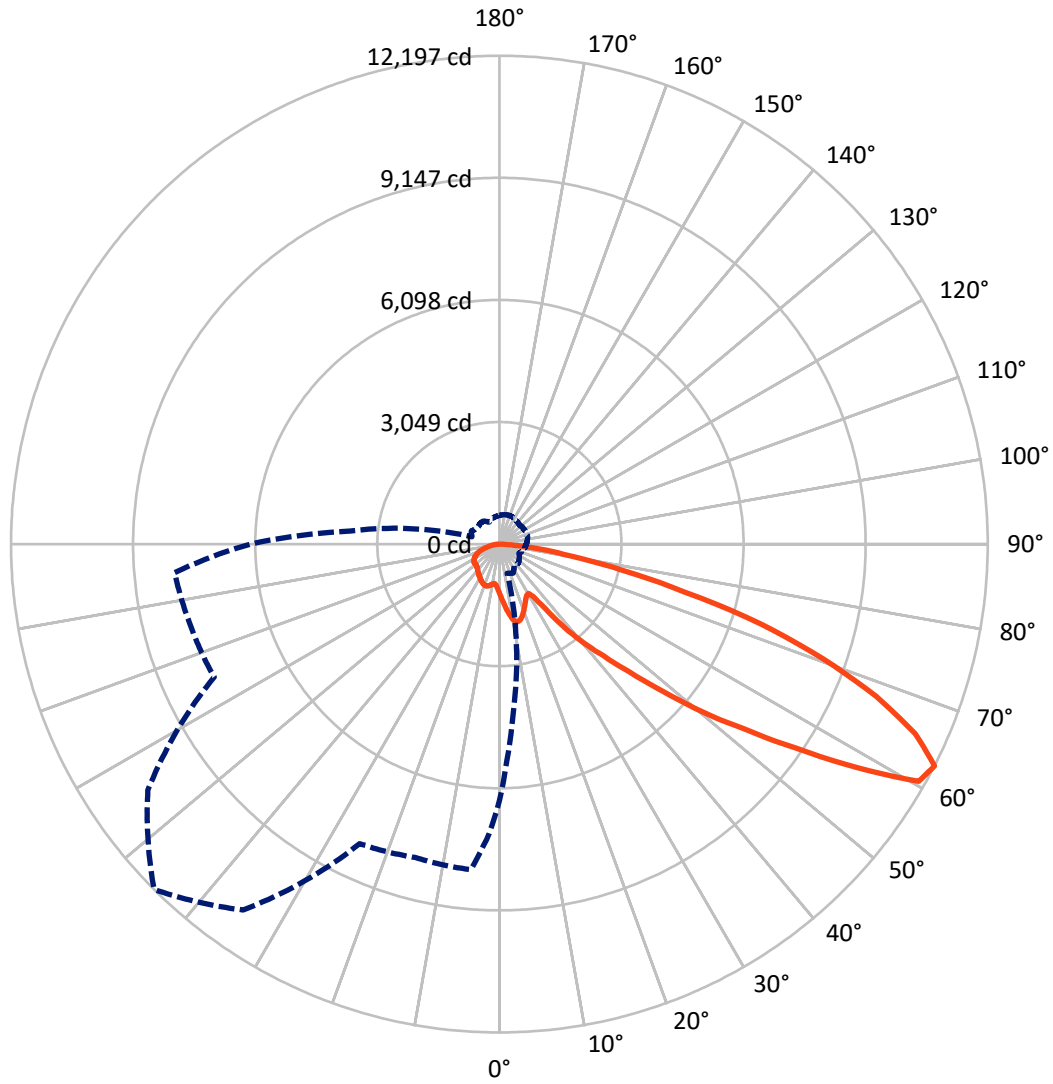
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.6 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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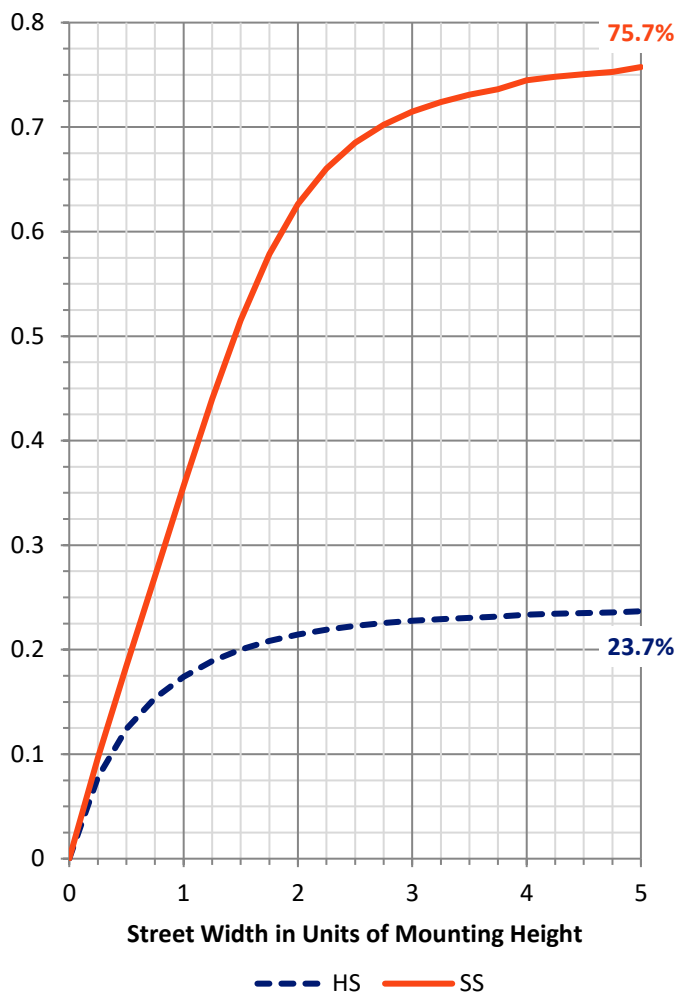
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2389.2	0.0	2389.2
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	7603.4	0.0	7603.4
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	9992.6	0.0	9992.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.7	1.2
10°-20°	398.9	4.0
20°-30°	627.9	6.3
30°-40°	860.7	8.6
40°-50°	1343.0	13.4
50°-60°	2315.6	23.2
60°-70°	2683.5	26.9
70°-80°	1416.5	14.2
80°-90°	223.8	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°	9992.6	100.0
0°-180°	9992.6	100.0

**Coefficient of Utilization**



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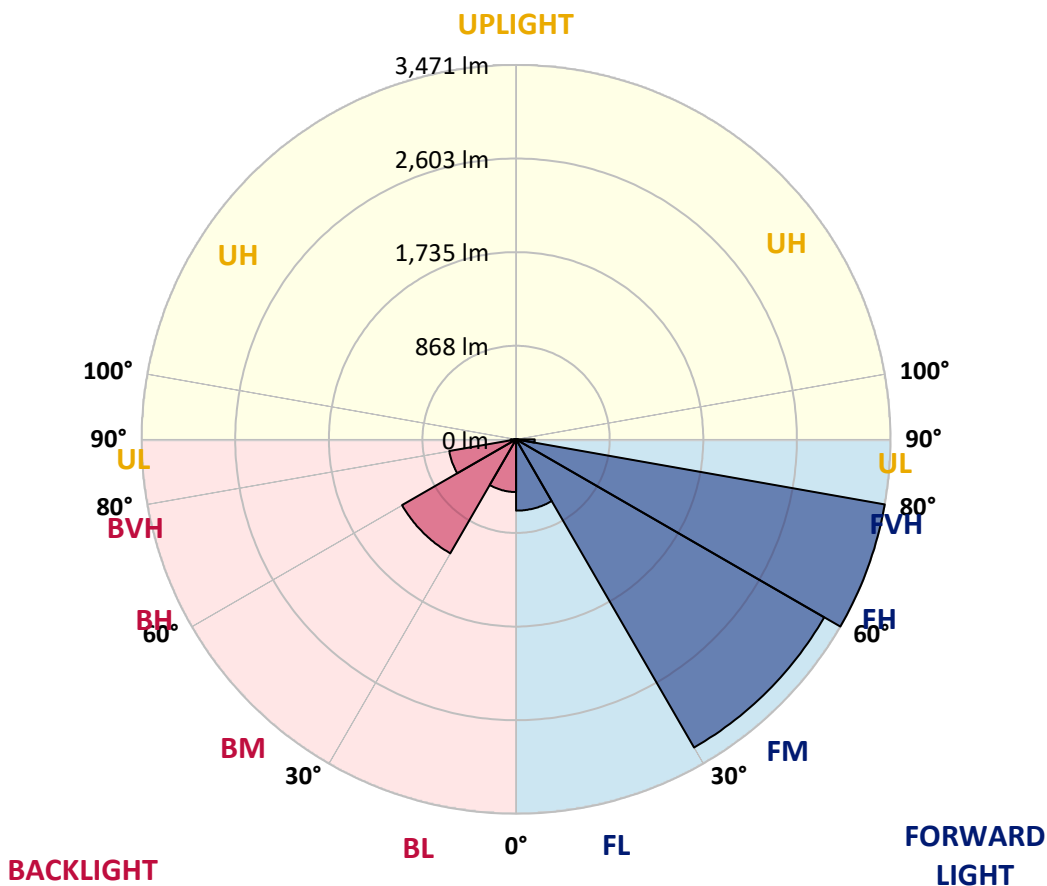
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.9	6.6			
FM (30°-60°)	3298.9	33.0			
FH (60°-80°)	3470.9	34.7			G2/5000
FVH (80°-90°)	172.7	1.7			G2/225
BL (0°-30°)	488.7	4.9	B1/500		
BM (30°-60°)	1220.4	12.2	B2/2500		
BH (60°-80°)	629.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	51.1	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°	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9
2.5°	1353.6	1348.3	1340.6	1314.7	1298.6	1280.3	1261.2	1239.0	1213.8	1196.2	1178.6
5°	1468.3	1459.9	1441.5	1379.6	1336.8	1290.2	1251.2	1206.9	1163.3	1133.5	1103.7
7.5°	1578.4	1567.7	1539.4	1444.6	1375.0	1307.8	1248.9	1184.7	1119.8	1075.4	1040.3
10°	1688.4	1666.3	1630.3	1506.5	1414.8	1336.8	1269.6	1190.8	1104.5	1044.1	1006.6
12.5°	1772.5	1751.9	1712.9	1563.1	1454.5	1356.7	1281.0	1208.4	1135.0	1070.8	1032.6
15°	1851.2	1824.5	1780.1	1615.8	1487.4	1355.9	1258.1	1194.7	1184.0	1167.9	1118.2
17.5°	1907.8	1883.3	1837.5	1658.6	1505.7	1332.2	1194.7	1157.2	1205.4	1254.3	1206.9
20°	1957.5	1929.2	1882.6	1688.4	1509.6	1279.5	1117.5	1118.2	1193.9	1261.2	1249.7
22.5°	1999.5	1968.2	1926.9	1722.1	1508.0	1206.1	1050.2	1096.1	1171.7	1224.5	1226.0
25°	2051.5	2025.5	1991.1	1771.7	1508.0	1131.2	1001.3	1069.3	1134.3	1178.6	1177.1
27.5°	2114.9	2097.3	2069.1	1847.4	1521.8	1068.5	973.8	1034.9	1086.1	1124.3	1123.6
30°	2186.0	2170.0	2148.6	1927.7	1545.5	1021.9	958.5	992.1	1029.6	1060.1	1060.1
32.5°	2258.6	2252.5	2229.6	1991.9	1527.1	1007.4	945.5	949.3	969.2	994.4	992.1
35°	2359.5	2353.4	2324.4	2041.5	1447.7	986.8	924.8	905.7	908.0	924.1	929.4
37.5°	2507.0	2497.9	2455.1	2099.6	1327.7	934.8	891.2	859.9	853.0	859.9	869.8
40°	2685.1	2671.4	2613.3	2178.4	1189.3	864.5	838.5	812.5	801.0	803.3	814.8
42.5°	2908.3	2879.3	2795.9	2261.7	1052.5	802.6	779.6	763.6	750.6	749.1	771.2
45°	3270.6	3191.1	3058.9	2335.8	937.1	769.7	726.9	715.4	704.7	710.8	736.8
47.5°	3903.5	3756.7	3499.1	2399.3	866.8	770.5	684.8	672.6	671.9	684.1	713.1
50°	4773.3	4561.6	4164.1	2442.1	830.1	779.6	659.6	639.8	654.3	666.5	694.0
52.5°	5606.4	5283.1	4810.0	2441.3	814.0	781.2	666.5	609.2	654.3	657.3	683.3
55°	6318.0	5732.5	4984.2	2190.6	791.1	775.0	693.3	585.5	645.9	657.3	678.0
57.5°	6883.6	6018.4	4971.3	1769.4	860.6	741.4	709.3	580.1	621.4	658.9	682.6
60°	6820.9	5887.7	4651.0	1086.1	853.8	681.8	707.0	590.1	580.1	638.2	677.2
62.5°	6404.4	5419.2	4099.9	753.6	801.8	647.4	669.6	607.6	541.9	608.4	651.2
65°	5821.2	4814.6	3416.6	577.8	664.2	648.9	606.1	595.4	508.3	561.0	606.9
67.5°	5050.0	4064.7	2697.3	457.8	463.2	561.8	550.3	528.9	476.9	519.0	560.3
70°	3796.5	2966.4	1855.8	368.4	350.8	469.3	494.5	475.4	446.4	458.6	502.2
72.5°	2675.2	1936.8	1016.6	292.0	270.6	360.8	429.6	426.5	394.4	403.6	446.4
75°	1988.0	1370.5	635.2	230.8	220.1	258.3	360.0	369.2	342.4	353.1	386.0
77.5°	1323.1	887.4	353.1	171.2	171.2	188.8	268.3	311.1	291.2	299.6	322.6
80°	729.9	451.7	176.6	112.4	115.4	129.9	195.7	224.0	224.7	245.4	251.5
82.5°	230.8	143.7	78.7	65.7	61.9	74.1	126.1	160.5	149.8	191.1	175.8
85°	52.7	33.6	14.5	14.5	16.1	24.5	48.2	85.6	109.3	131.5	95.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	33.6	49.7	44.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9
2.5°	1167.9	1152.6	1148.0	1135.0	1133.5	1121.3	1116.7	1116.7	1122.0	1122.0	1127.4
5°	1091.5	1072.4	1061.7	1046.4	1042.6	1033.4	1027.3	1028.0	1034.9	1039.5	1048.7
7.5°	1024.2	1011.2	1003.6	996.7	995.2	993.6	986.8	986.0	988.3	995.2	1002.0
10°	995.9	986.8	989.1	994.4	1002.8	1007.4	1001.3	998.2	995.9	1000.5	1006.6
12.5°	1023.4	1014.3	1018.9	1028.0	1039.5	1044.1	1041.8	1041.0	1043.3	1060.9	1073.9
15°	1083.8	1066.3	1060.1	1064.0	1073.1	1077.7	1075.4	1078.5	1093.0	1138.9	1171.7
17.5°	1158.7	1115.9	1091.5	1084.6	1088.4	1092.2	1092.2	1099.9	1125.1	1192.4	1233.6
20°	1199.2	1143.4	1102.2	1085.4	1086.9	1090.7	1090.7	1101.4	1129.7	1201.5	1228.3
22.5°	1188.5	1137.3	1086.9	1068.5	1069.3	1072.4	1072.4	1081.5	1106.8	1170.2	1182.4
25°	1146.5	1101.4	1051.7	1035.7	1037.2	1042.6	1041.0	1046.4	1065.5	1117.5	1124.3
27.5°	1096.1	1056.3	1007.4	995.2	1002.0	1012.7	1003.6	1004.3	1021.9	1065.5	1066.3
30°	1041.8	1008.9	965.4	956.2	969.2	974.5	966.1	966.1	983.7	1013.5	1012.7
32.5°	982.9	962.3	931.0	921.0	935.5	944.0	933.3	934.8	948.5	968.4	960.8
35°	927.9	917.2	902.7	895.8	905.0	912.6	905.7	908.8	921.8	927.1	916.4
37.5°	875.2	873.6	875.2	875.2	877.5	879.8	875.2	882.8	894.3	887.4	875.2
40°	829.3	835.4	849.9	846.1	843.8	846.1	843.1	856.1	867.5	855.3	840.8
42.5°	791.1	802.6	824.7	824.7	820.1	821.7	820.1	836.2	844.6	827.8	811.7
45°	758.2	775.0	803.3	807.1	799.5	799.5	802.6	822.4	825.5	802.6	785.7
47.5°	735.3	755.9	788.0	794.9	783.4	782.7	791.1	812.5	812.5	785.7	766.6
50°	719.2	742.2	780.4	789.6	778.1	775.0	788.8	809.4	804.8	772.7	753.6
52.5°	708.5	732.2	779.6	792.6	785.0	781.9	795.7	810.2	798.7	764.3	744.5
55°	701.7	727.6	781.9	792.6	784.2	778.9	792.6	805.6	799.5	759.8	740.6
57.5°	705.5	731.5	778.9	784.2	774.3	765.1	781.2	799.5	797.2	761.3	742.2
60°	699.4	723.1	762.0	763.6	746.8	732.2	755.9	783.4	783.4	755.9	739.1
62.5°	671.1	694.8	729.2	730.7	711.6	695.5	723.1	755.9	755.2	733.0	715.4
65°	624.5	646.6	685.6	689.4	670.3	653.5	681.8	712.4	714.7	694.8	679.5
67.5°	573.3	593.1	622.2	637.5	621.4	603.8	629.8	658.9	658.1	634.4	618.3
70°	512.1	530.5	557.2	570.2	560.3	543.4	567.1	582.4	575.5	564.1	553.4
72.5°	451.7	469.3	494.5	494.5	483.8	467.8	474.7	502.2	510.6	502.2	495.3
75°	388.3	403.6	421.2	425.0	401.3	372.2	404.3	428.0	438.0	434.1	425.7
77.5°	323.3	334.8	360.8	353.9	309.6	294.3	320.3	355.4	362.3	360.0	348.5
80°	249.2	256.1	283.6	269.8	235.4	225.5	236.9	264.5	266.0	258.3	243.8
82.5°	167.4	176.6	194.9	168.2	167.4	158.2	149.0	152.1	165.9	164.3	154.4
85°	85.6	90.2	107.8	100.9	86.4	74.9	71.1	75.7	68.0	61.9	53.5
87.5°	35.9	39.0	53.5	29.8	9.2	0.0	0.0	4.6	6.9	9.9	10.7
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°	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9
2.5°	1139.6	1148.0	1168.7	1194.7	1219.9	1245.9	1274.2	1291.7	1313.1	1340.6	1341.4
5°	1060.1	1079.2	1109.1	1148.8	1190.1	1237.5	1292.5	1338.4	1393.4	1437.0	1454.5
7.5°	1011.2	1038.7	1076.2	1126.6	1180.9	1239.8	1311.6	1388.8	1479.0	1537.1	1571.5
10°	1015.8	1057.8	1095.3	1138.1	1187.0	1250.5	1342.9	1445.4	1556.2	1632.6	1675.4
12.5°	1097.6	1141.9	1135.0	1132.7	1165.6	1242.8	1368.2	1502.7	1638.0	1714.4	1765.6
15°	1200.8	1217.6	1152.6	1103.7	1123.6	1215.3	1381.9	1553.9	1706.0	1799.3	1849.7
17.5°	1253.5	1219.9	1141.2	1067.8	1062.4	1173.3	1388.8	1605.9	1782.4	1875.7	1929.2
20°	1229.1	1180.1	1113.6	1044.1	1005.9	1115.9	1385.0	1647.1	1852.0	1955.9	1999.5
22.5°	1176.3	1133.5	1081.5	1015.0	960.0	1053.3	1375.0	1688.4	1913.9	2018.6	2056.8
25°	1119.0	1086.9	1044.1	986.0	934.0	998.2	1368.2	1743.5	1985.0	2085.1	2109.6
27.5°	1061.7	1038.0	1002.8	957.7	927.9	960.0	1370.5	1815.3	2076.7	2171.5	2161.5
30°	1005.1	984.5	960.0	940.1	927.1	950.8	1364.3	1891.7	2177.6	2265.5	2206.6
32.5°	951.6	932.5	917.2	920.3	927.9	954.7	1333.0	1961.3	2270.1	2345.0	2255.6
35°	905.7	885.9	885.9	896.6	924.8	941.7	1252.0	2015.6	2372.5	2447.4	2325.1
37.5°	862.9	845.4	856.8	874.4	901.2	906.5	1148.0	2068.3	2521.5	2591.9	2432.9
40°	825.5	807.9	828.5	850.7	864.5	862.2	1042.6	2141.7	2697.3	2770.0	2575.8
42.5°	795.7	779.6	798.0	826.2	828.5	830.8	965.4	2212.0	2901.4	2993.9	2821.9
45°	771.2	759.8	768.9	797.2	797.2	832.4	917.2	2270.8	3208.7	3372.3	3273.7
47.5°	752.1	745.2	749.8	759.0	774.3	859.9	886.6	2315.9	3768.2	4089.2	3989.8
50°	741.4	734.5	740.6	721.5	767.4	873.6	876.7	2350.3	4505.8	5008.7	4885.6
52.5°	732.2	729.9	733.8	689.4	782.7	864.5	869.1	2304.5	5000.3	5913.7	6035.2
55°	729.2	730.7	712.4	665.7	801.0	833.9	846.1	1976.6	5134.8	6694.1	7448.5
57.5°	730.7	726.1	679.5	668.0	801.8	772.7	879.0	1410.2	4939.1	7033.4	8831.2
60°	725.4	702.4	639.8	688.7	766.6	700.9	855.3	919.5	4423.2	6772.8	8911.4
62.5°	701.7	668.0	605.4	700.1	704.0	658.1	776.6	708.5	3735.3	6214.8	8137.9
65°	667.3	622.2	576.3	676.4	640.5	638.2	584.0	567.9	3003.8	5550.6	7404.1
67.5°	610.7	565.6	554.9	622.2	576.3	565.6	469.3	470.8	2397.0	4842.8	6666.6
70°	546.5	501.4	509.8	562.6	512.9	470.1	379.9	392.1	1818.4	4034.9	5672.1
72.5°	504.5	444.1	444.8	495.3	451.0	380.6	312.6	323.3	1154.1	3041.3	4509.6
75°	425.7	391.3	374.5	401.3	382.9	296.6	262.9	260.6	684.1	2179.9	3376.8
77.5°	355.4	328.7	320.3	331.0	285.9	219.4	211.7	207.9	387.5	1396.4	2212.8
80°	257.6	250.7	249.9	255.3	220.1	161.3	161.3	162.0	208.7	758.2	1247.4
82.5°	163.6	178.9	158.2	175.8	149.8	114.7	107.0	121.5	120.0	323.3	525.9
85°	68.0	93.2	87.1	92.5	71.1	62.7	67.3	72.6	69.6	124.6	204.8
87.5°	13.0	15.3	16.8	16.1	16.1	19.9	22.2	26.8	26.8	35.9	61.9
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°	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9	1245.9
2.5°	1370.5	1392.6	1388.0	1398.0	1385.0	1389.6	1363.6	1356.7	1352.1	1353.6
5°	1511.1	1556.2	1564.6	1581.4	1569.9	1569.9	1524.1	1489.7	1477.5	1468.3
7.5°	1654.0	1719.0	1761.8	1766.4	1760.3	1748.0	1681.5	1619.6	1597.5	1578.4
10°	1780.9	1858.9	1907.0	1930.0	1918.5	1899.4	1816.8	1732.0	1705.2	1688.4
12.5°	1878.0	1946.8	1978.9	1994.2	1992.6	1985.7	1918.5	1826.8	1798.5	1772.5
15°	1940.7	1975.0	1962.8	1962.1	1972.8	2000.3	1979.6	1907.8	1874.9	1851.2
17.5°	1981.2	1948.3	1894.0	1868.8	1891.7	1956.7	2004.1	1963.6	1933.8	1907.8
20°	1995.7	1878.7	1800.0	1753.4	1780.1	1874.2	1991.1	2004.1	1978.9	1957.5
22.5°	1978.9	1793.9	1686.9	1631.9	1657.8	1770.2	1952.9	2037.0	2020.1	1999.5
25°	1937.6	1705.2	1576.8	1527.1	1555.4	1670.1	1884.9	2067.5	2068.3	2051.5
27.5°	1886.4	1623.5	1499.6	1453.0	1480.5	1587.5	1818.4	2094.3	2121.0	2114.9
30°	1834.4	1574.5	1462.9	1430.1	1450.7	1545.5	1750.3	2121.8	2175.3	2186.0
32.5°	1810.7	1598.2	1549.3	1563.8	1537.1	1569.9	1725.9	2160.8	2241.0	2258.6
35°	1842.1	1808.4	1932.2	1989.6	1894.8	1770.2	1757.2	2219.6	2333.5	2359.5
37.5°	1994.2	2258.6	2443.6	2645.4	2481.0	2206.6	1912.4	2319.8	2465.8	2507.0
40°	2325.1	2651.5	2985.5	3246.1	2997.7	2628.6	2207.4	2468.8	2647.7	2685.1
42.5°	2637.0	3019.9	3480.0	3817.1	3494.6	2973.3	2525.4	2719.5	2887.7	2908.3
45°	2942.7	3381.4	4078.5	4547.0	4109.1	3301.2	2850.2	3143.0	3269.8	3270.6
47.5°	3301.2	3788.8	4829.1	5496.4	4924.6	3664.2	3155.2	3813.3	3989.8	3903.5
50°	3730.0	4193.9	5601.8	6600.8	5919.0	4110.6	3542.7	4630.4	4871.1	4773.3
52.5°	4304.0	4640.3	6453.3	7677.8	7002.9	4618.9	4104.5	5709.6	5789.1	5606.4
55°	5111.9	5284.6	7546.3	9007.7	8212.8	5244.9	4926.2	7064.0	6841.6	6318.0
57.5°	6951.7	6304.3	8949.6	10524.9	9581.7	6382.2	6726.9	8557.5	7766.4	6883.6
60°	8491.0	7542.5	10248.2	12030.7	10755.0	7635.7	8417.7	8817.4	7732.0	6820.9
62.5°	7972.0	7858.2	10716.8	12196.5	11155.5	8252.6	8103.5	8162.4	7227.6	6404.4
65°	6994.5	7249.0	10298.7	11410.0	10711.4	7699.9	7330.0	7557.0	6650.5	5821.2
67.5°	6417.4	6604.6	9555.0	10151.2	9904.3	7102.2	6728.5	6564.1	5754.7	5050.0
70°	5827.3	5982.5	8510.9	8571.3	8645.4	6108.6	5501.7	5012.5	4289.5	3796.5
72.5°	5035.5	5043.9	7190.9	6840.8	6981.5	4780.2	4428.6	3747.5	3122.3	2675.2
75°	4224.5	3993.7	5692.0	4781.7	5063.7	3718.5	3677.2	2824.2	2354.9	1988.0
77.5°	3220.9	2951.1	4158.0	3144.5	3556.5	2476.5	2764.6	1915.4	1657.1	1323.1
80°	2162.3	1994.2	2297.6	1774.8	2326.6	1706.8	1803.1	1085.4	940.9	729.9
82.5°	1140.4	973.8	1420.1	1052.5	1403.3	937.8	676.4	335.5	285.9	230.8
85°	441.8	511.3	696.3	374.5	544.2	334.8	195.7	83.3	69.6	52.7
87.5°	85.6	132.2	72.6	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)