

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: P632707

Luminaire Tested: GWS-SA2D-730-U-SLL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632707  
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-730-U-SLL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

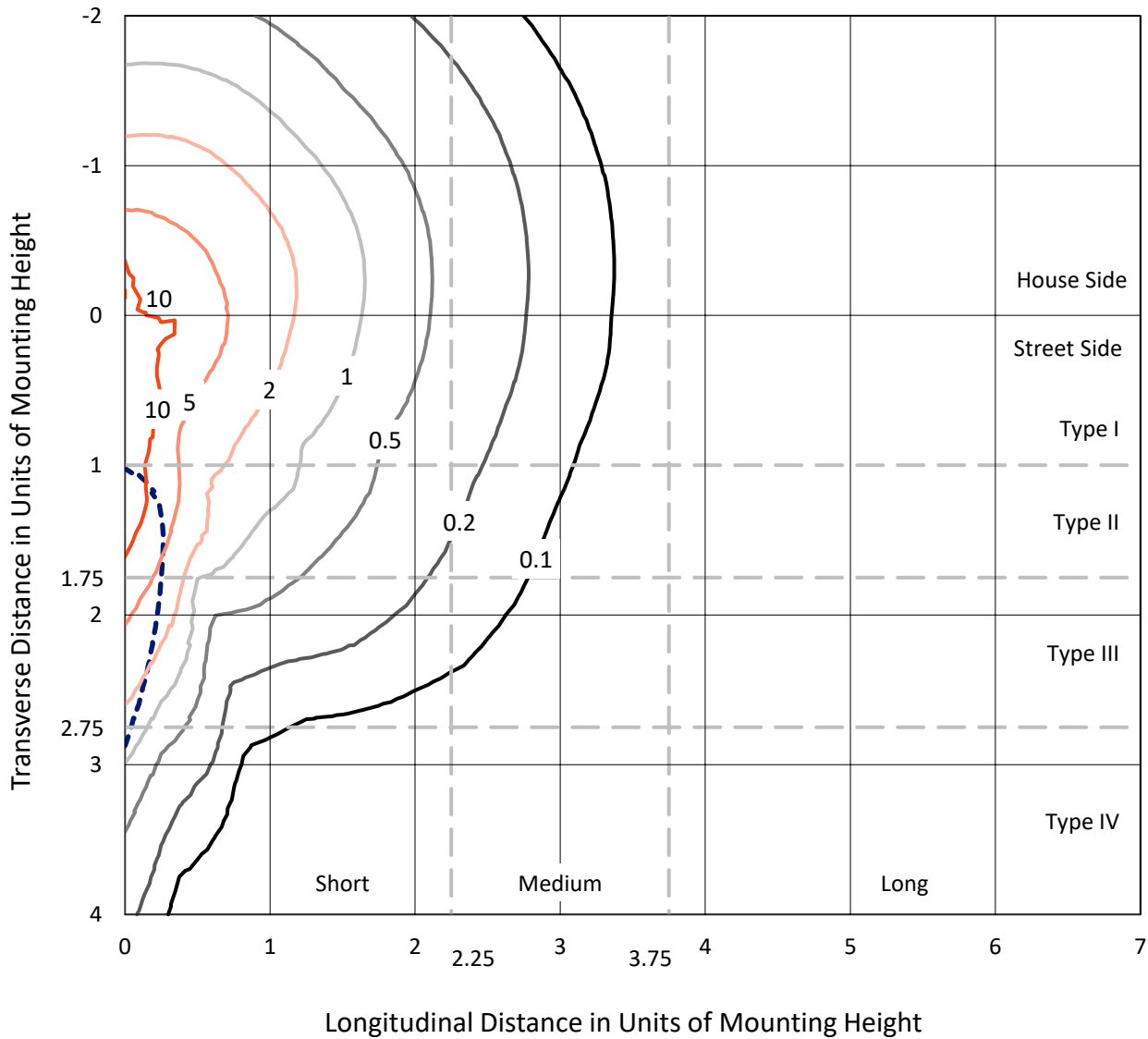
Lumens per Lamp: N/A  
Luminaire Lumens: 9965.1 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

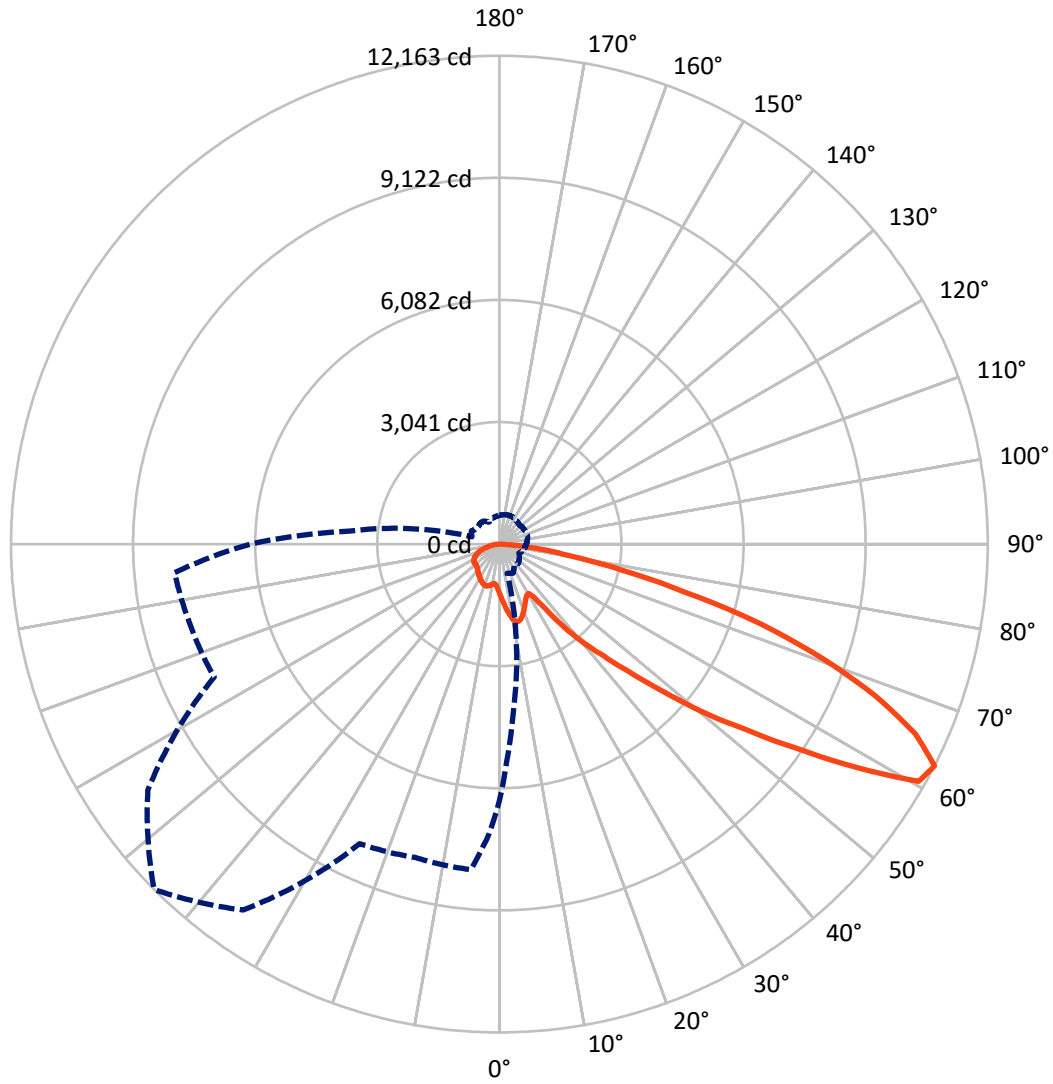
× Max cd  
 - - - 1/2 Max cd



Based on 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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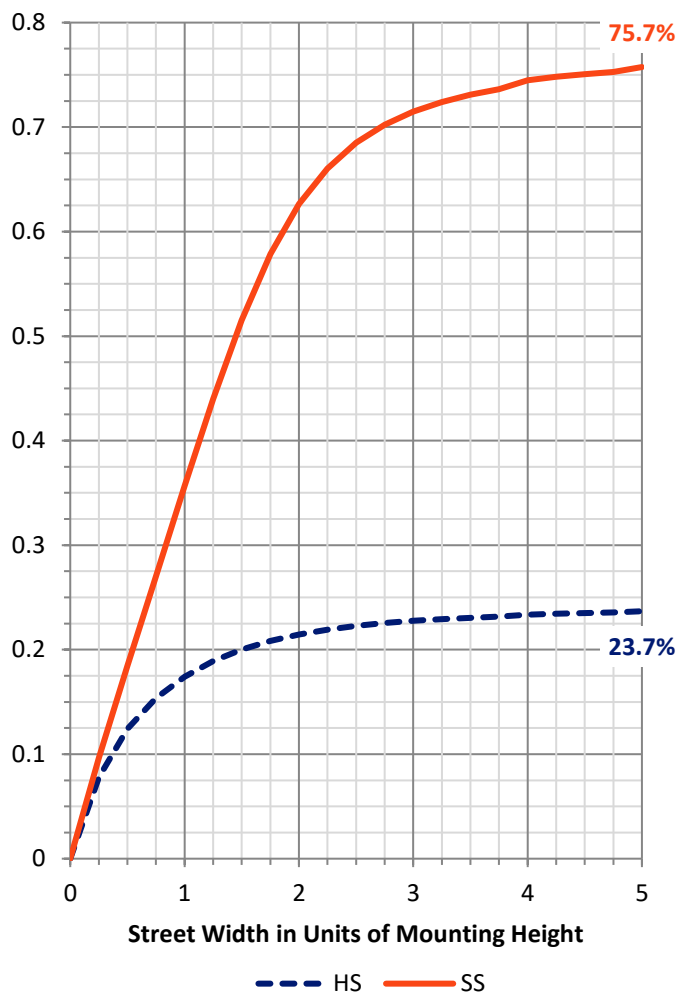
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2382.7	0.0	2382.7
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	7582.4	0.0	7582.4
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	9965.1	0.0	9965.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.4	1.2
10°-20°	397.8	4.0
20°-30°	626.2	6.3
30°-40°	858.4	8.6
40°-50°	1339.3	13.4
50°-60°	2309.2	23.2
60°-70°	2676.1	26.9
70°-80°	1412.6	14.2
80°-90°	223.1	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°	9965.1	100.0
0°-180°	9965.1	100.0

**Coefficient of Utilization**



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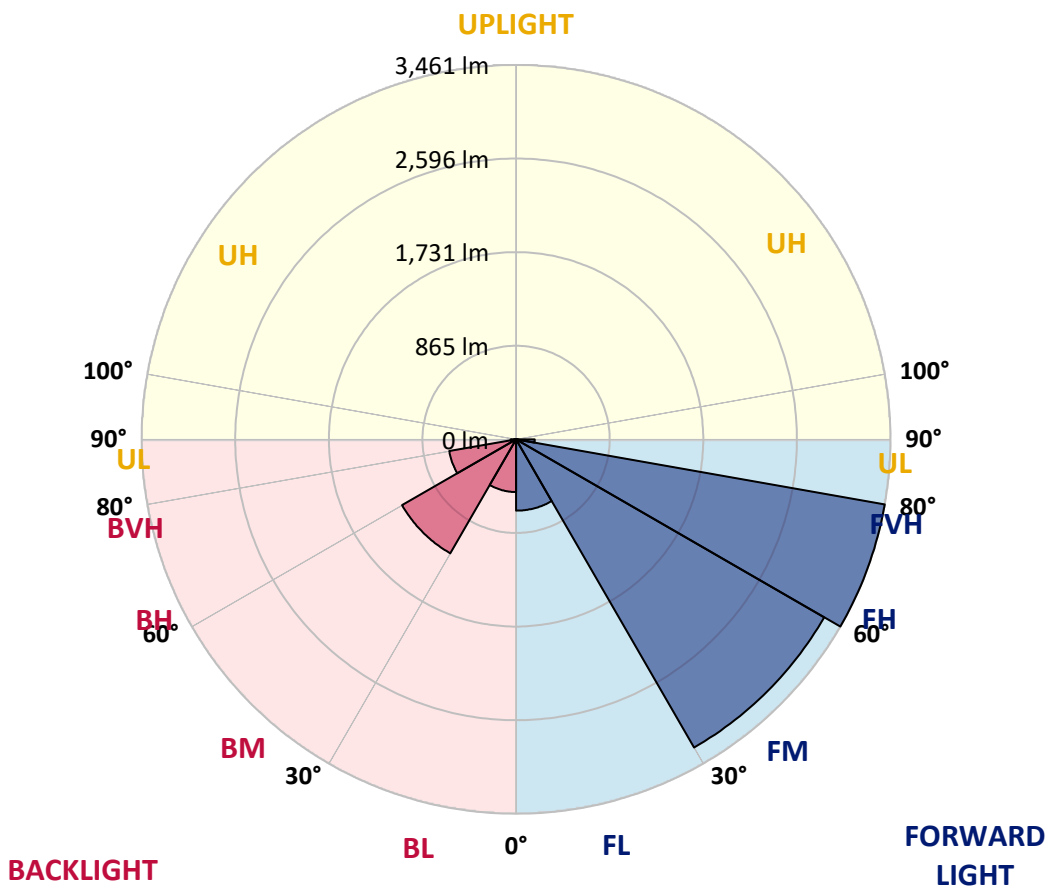
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.1	6.6			
FM (30°-60°)	3289.8	33.0			
FH (60°-80°)	3461.3	34.7			G2/5000
FVH (80°-90°)	172.2	1.7			G2/225
BL (0°-30°)	487.3	4.9	B1/500		
BM (30°-60°)	1217.1	12.2	B2/2500		
BH (60°-80°)	627.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	50.9	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°	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1349.9	1344.6	1337.0	1311.0	1295.0	1276.7	1257.7	1235.6	1210.4	1192.9	1175.4
5°	1464.3	1455.9	1437.6	1375.8	1333.1	1286.7	1247.8	1203.6	1160.1	1130.4	1100.7
7.5°	1574.0	1563.3	1535.1	1440.6	1371.3	1304.2	1245.5	1181.5	1116.7	1072.5	1037.4
10°	1683.8	1661.7	1625.8	1502.4	1410.9	1333.1	1266.1	1187.6	1101.4	1041.2	1003.9
12.5°	1767.6	1747.0	1708.2	1558.8	1450.5	1353.0	1277.5	1205.1	1131.9	1067.9	1029.8
15°	1846.1	1819.5	1775.2	1611.4	1483.3	1352.2	1254.6	1191.4	1180.7	1164.7	1115.1
17.5°	1902.5	1878.1	1832.4	1654.0	1501.6	1328.6	1191.4	1154.0	1202.0	1250.8	1203.6
20°	1952.1	1923.9	1877.4	1683.8	1505.4	1276.0	1114.4	1115.1	1190.6	1257.7	1246.3
22.5°	1994.0	1962.8	1921.6	1717.3	1503.9	1202.8	1047.3	1093.0	1168.5	1221.1	1222.6
25°	2045.8	2019.9	1985.6	1766.9	1503.9	1128.1	998.5	1066.4	1131.2	1175.4	1173.8
27.5°	2109.1	2091.6	2063.4	1842.3	1517.6	1065.6	971.1	1032.1	1083.1	1121.2	1120.5
30°	2180.0	2164.0	2142.6	1922.4	1541.2	1019.1	955.8	989.4	1026.7	1057.2	1057.2
32.5°	2252.4	2246.3	2223.4	1986.4	1522.9	1004.6	942.9	946.7	966.5	991.7	989.4
35°	2353.0	2346.9	2318.0	2035.9	1443.7	984.0	922.3	903.2	905.5	921.5	926.9
37.5°	2500.1	2491.0	2448.3	2093.9	1324.0	932.2	888.8	857.5	850.7	857.5	867.4
40°	2677.7	2664.0	2606.1	2172.4	1186.0	862.1	836.2	810.3	798.8	801.1	812.5
42.5°	2900.3	2871.3	2788.3	2255.5	1049.6	800.3	777.5	761.5	748.5	747.0	769.1
45°	3261.6	3182.3	3050.5	2329.4	934.5	767.6	724.9	713.5	702.8	708.9	734.8
47.5°	3892.7	3746.4	3489.5	2392.7	864.4	768.3	683.0	670.8	670.0	682.2	711.2
50°	4760.2	4549.0	4152.7	2435.3	827.8	777.5	657.8	638.0	652.5	664.7	692.1
52.5°	5591.0	5268.6	4796.7	2434.6	811.8	779.0	664.7	607.5	652.5	655.5	681.4
55°	6300.6	5716.8	4970.5	2184.6	788.9	772.9	691.3	583.9	644.1	655.5	676.1
57.5°	6864.7	6001.8	4957.6	1764.6	858.3	739.4	707.4	578.5	619.7	657.0	680.7
60°	6802.2	5871.5	4638.2	1083.1	851.4	679.9	705.1	588.4	578.5	636.5	675.3
62.5°	6386.8	5404.2	4088.6	751.6	799.6	645.6	667.7	606.0	540.4	606.7	649.4
65°	5805.2	4801.3	3407.2	576.2	662.4	647.1	604.5	593.8	506.9	559.5	605.2
67.5°	5036.1	4053.6	2689.9	456.6	461.9	560.2	548.8	527.5	475.6	517.6	558.7
70°	3786.0	2958.2	1850.7	367.4	349.9	468.0	493.2	474.1	445.1	457.3	500.8
72.5°	2667.8	1931.5	1013.8	291.2	269.8	359.8	428.4	425.3	393.3	402.5	445.1
75°	1982.6	1366.7	633.4	230.2	219.5	257.6	359.0	368.2	341.5	352.2	384.9
77.5°	1319.4	885.0	352.2	170.7	170.7	188.3	267.5	310.2	290.4	298.8	321.7
80°	727.9	450.5	176.1	112.0	115.1	129.6	195.1	223.3	224.1	244.7	250.8
82.5°	230.2	143.3	78.5	65.6	61.7	73.9	125.8	160.1	149.4	190.6	175.3
85°	52.6	33.5	14.5	14.5	16.0	24.4	48.0	85.4	109.0	131.1	95.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	33.5	49.5	44.2
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°	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1164.7	1149.4	1144.9	1131.9	1130.4	1118.2	1113.6	1113.6	1119.0	1119.0	1124.3
5°	1088.5	1069.4	1058.7	1043.5	1039.7	1030.5	1024.4	1025.2	1032.1	1036.6	1045.8
7.5°	1021.4	1008.4	1000.8	994.0	992.4	990.9	984.0	983.3	985.6	992.4	999.3
10°	993.2	984.0	986.3	991.7	1000.1	1004.6	998.5	995.5	993.2	997.8	1003.9
12.5°	1020.6	1011.5	1016.1	1025.2	1036.6	1041.2	1038.9	1038.2	1040.4	1058.0	1070.9
15°	1080.8	1063.3	1057.2	1061.0	1070.2	1074.8	1072.5	1075.5	1090.0	1135.7	1168.5
17.5°	1155.5	1112.9	1088.5	1081.6	1085.4	1089.2	1089.2	1096.9	1122.0	1189.1	1230.2
20°	1195.9	1140.3	1099.1	1082.4	1083.9	1087.7	1087.7	1098.4	1126.6	1198.2	1224.9
22.5°	1185.3	1134.2	1083.9	1065.6	1066.4	1069.4	1069.4	1078.6	1103.7	1167.0	1179.2
25°	1143.4	1098.4	1048.8	1032.8	1034.4	1039.7	1038.2	1043.5	1062.6	1114.4	1121.2
27.5°	1093.0	1053.4	1004.6	992.4	999.3	1010.0	1000.8	1001.6	1019.1	1062.6	1063.3
30°	1038.9	1006.1	962.7	953.6	966.5	971.8	963.5	963.5	981.0	1010.7	1010.0
32.5°	980.2	959.7	928.4	918.5	933.0	941.4	930.7	932.2	945.9	965.8	958.1
35°	925.4	914.7	900.2	893.3	902.5	910.1	903.2	906.3	919.3	924.6	913.9
37.5°	872.8	871.2	872.8	872.8	875.0	877.3	872.8	880.4	891.8	885.0	872.8
40°	827.0	833.1	847.6	843.8	841.5	843.8	840.7	853.7	865.1	852.9	838.5
42.5°	788.9	800.3	822.5	822.5	817.9	819.4	817.9	833.9	842.3	825.5	809.5
45°	756.1	772.9	801.1	804.9	797.3	797.3	800.3	820.2	823.2	800.3	783.6
47.5°	733.3	753.8	785.9	792.7	781.3	780.5	788.9	810.3	810.3	783.6	764.5
50°	717.3	740.1	778.2	787.4	776.0	772.9	786.6	807.2	802.6	770.6	751.6
52.5°	706.6	730.2	777.5	790.4	782.8	779.8	793.5	808.0	796.5	762.2	742.4
55°	699.7	725.6	779.8	790.4	782.1	776.7	790.4	803.4	797.3	757.7	738.6
57.5°	703.5	729.5	776.7	782.1	772.1	763.0	779.0	797.3	795.0	759.2	740.1
60°	697.4	721.1	759.9	761.5	744.7	730.2	753.8	781.3	781.3	753.8	737.1
62.5°	669.2	692.9	727.2	728.7	709.6	693.6	721.1	753.8	753.1	731.0	713.5
65°	622.7	644.9	683.7	687.5	668.5	651.7	679.9	710.4	712.7	692.9	677.6
67.5°	571.7	591.5	620.5	635.7	619.7	602.2	628.1	657.0	656.3	632.7	616.6
70°	510.7	529.0	555.7	568.6	558.7	541.9	565.6	580.8	574.0	562.5	551.9
72.5°	450.5	468.0	493.2	493.2	482.5	466.5	473.3	500.8	509.2	500.8	493.9
75°	387.2	402.5	420.0	423.8	400.2	371.2	403.2	426.9	436.8	432.9	424.6
77.5°	322.4	333.9	359.8	352.9	308.7	293.5	319.4	354.4	361.3	359.0	347.6
80°	248.5	255.3	282.8	269.1	234.8	224.9	236.3	263.7	265.3	257.6	243.2
82.5°	166.9	176.1	194.4	167.7	166.9	157.8	148.6	151.7	165.4	163.9	154.0
85°	85.4	89.9	107.5	100.6	86.1	74.7	70.9	75.5	67.8	61.7	53.4
87.5°	35.8	38.9	53.4	29.7	9.1	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°	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1136.5	1144.9	1165.5	1191.4	1216.5	1242.4	1270.6	1288.2	1309.5	1337.0	1337.7
5°	1057.2	1076.3	1106.0	1145.6	1186.8	1234.1	1288.9	1334.7	1389.6	1433.0	1450.5
7.5°	1008.4	1035.9	1073.2	1123.5	1177.7	1236.3	1308.0	1385.0	1474.9	1532.9	1567.2
10°	1013.0	1054.9	1092.3	1135.0	1183.7	1247.0	1339.2	1441.4	1551.9	1628.1	1670.8
12.5°	1094.6	1138.8	1131.9	1129.6	1162.4	1239.4	1364.4	1498.6	1633.5	1709.7	1760.8
15°	1197.5	1214.2	1149.4	1100.7	1120.5	1212.0	1378.1	1549.6	1701.3	1794.3	1844.6
17.5°	1250.1	1216.5	1138.0	1064.8	1059.5	1170.0	1385.0	1601.5	1777.5	1870.5	1923.9
20°	1225.7	1176.9	1110.6	1041.2	1003.1	1112.9	1381.2	1642.6	1846.9	1950.6	1994.0
22.5°	1173.1	1130.4	1078.6	1012.2	957.4	1050.4	1371.3	1683.8	1908.6	2013.1	2051.2
25°	1115.9	1083.9	1041.2	983.3	931.5	995.5	1364.4	1738.7	1979.5	2079.4	2103.8
27.5°	1058.7	1035.1	1000.1	955.1	925.4	957.4	1366.7	1810.3	2071.0	2165.5	2155.6
30°	1002.3	981.8	957.4	937.5	924.6	948.2	1360.6	1886.5	2171.6	2259.3	2200.6
32.5°	949.0	929.9	914.7	917.7	925.4	952.0	1329.3	1955.9	2263.8	2338.5	2249.4
35°	903.2	883.4	883.4	894.1	922.3	939.1	1248.5	2010.0	2366.0	2440.7	2318.7
37.5°	860.6	843.0	854.5	872.0	898.7	904.0	1144.9	2062.6	2514.6	2584.7	2426.2
40°	823.2	805.7	826.3	848.4	862.1	859.8	1039.7	2135.8	2689.9	2762.3	2568.7
42.5°	793.5	777.5	795.8	824.0	826.3	828.5	962.7	2205.9	2893.4	2985.7	2814.2
45°	769.1	757.7	766.8	795.0	795.0	830.1	914.7	2264.6	3199.9	3363.0	3264.6
47.5°	750.0	743.2	747.8	756.9	772.1	857.5	884.2	2309.6	3757.8	4078.0	3978.9
50°	739.4	732.5	738.6	719.5	765.3	871.2	874.3	2343.9	4493.4	4994.9	4872.2
52.5°	730.2	727.9	731.7	687.5	780.5	862.1	866.7	2298.1	4986.5	5897.4	6018.6
55°	727.2	728.7	710.4	663.9	798.8	831.6	843.8	1971.1	5120.7	6675.6	7428.0
57.5°	728.7	724.1	677.6	666.2	799.6	770.6	876.6	1406.3	4925.6	7014.1	8806.9
60°	723.4	700.5	638.0	686.8	764.5	699.0	852.9	917.0	4411.0	6754.2	8886.9
62.5°	699.7	666.2	603.7	698.2	702.0	656.3	774.4	706.6	3725.0	6197.7	8115.5
65°	665.4	620.5	574.7	674.6	638.8	636.5	582.3	566.3	2995.6	5535.3	7383.8
67.5°	609.0	564.1	553.4	620.5	574.7	564.1	468.0	469.5	2390.4	4829.5	6648.2
70°	545.0	500.0	508.4	561.0	511.5	468.8	378.8	391.0	1813.4	4023.8	5656.5
72.5°	503.1	442.9	443.6	493.9	449.7	379.6	311.8	322.4	1151.0	3032.9	4497.2
75°	424.6	390.3	373.5	400.2	381.9	295.7	262.2	259.9	682.2	2173.9	3367.6
77.5°	354.4	327.8	319.4	330.0	285.1	218.8	211.1	207.3	386.5	1392.6	2206.7
80°	256.9	250.0	249.3	254.6	219.5	160.8	160.8	161.6	208.1	756.1	1244.0
82.5°	163.1	178.4	157.8	175.3	149.4	114.3	106.7	121.2	119.7	322.4	524.4
85°	67.8	93.0	86.9	92.2	70.9	62.5	67.1	72.4	69.4	124.2	204.3
87.5°	13.0	15.2	16.8	16.0	16.0	19.8	22.1	26.7	26.7	35.8	61.7
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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	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4	1242.4
2.5°	1366.7	1388.8	1384.2	1394.1	1381.2	1385.7	1359.8	1353.0	1348.4	1349.9
5°	1506.9	1551.9	1560.3	1577.1	1565.6	1565.6	1519.9	1485.6	1473.4	1464.3
7.5°	1649.5	1714.3	1756.9	1761.5	1755.4	1743.2	1676.9	1615.2	1593.1	1574.0
10°	1776.0	1853.8	1901.8	1924.6	1913.2	1894.2	1811.8	1727.2	1700.5	1683.8
12.5°	1872.8	1941.4	1973.4	1988.7	1987.1	1980.3	1913.2	1821.7	1793.5	1767.6
15°	1935.3	1969.6	1957.4	1956.7	1967.3	1994.8	1974.2	1902.5	1869.8	1846.1
17.5°	1975.7	1942.9	1888.8	1863.7	1886.5	1951.3	1998.6	1958.2	1928.5	1902.5
20°	1990.2	1873.6	1795.1	1748.6	1775.2	1869.0	1985.6	1998.6	1973.4	1952.1
22.5°	1973.4	1789.0	1682.3	1627.4	1653.3	1765.3	1947.5	2031.4	2014.6	1994.0
25°	1932.3	1700.5	1572.5	1522.9	1551.1	1665.5	1879.7	2061.8	2062.6	2045.8
27.5°	1881.2	1619.0	1495.5	1449.0	1476.4	1583.2	1813.4	2088.5	2115.2	2109.1
30°	1829.4	1570.2	1458.9	1426.1	1446.7	1541.2	1745.5	2116.0	2169.3	2180.0
32.5°	1805.7	1593.8	1545.0	1559.5	1532.9	1565.6	1721.1	2154.8	2234.9	2252.4
35°	1837.0	1803.4	1926.9	1984.1	1889.6	1765.3	1752.4	2213.5	2327.1	2353.0
37.5°	1988.7	2252.4	2436.9	2638.1	2474.2	2200.6	1907.1	2313.4	2459.0	2500.1
40°	2318.7	2644.2	2977.3	3237.2	2989.5	2621.3	2201.3	2462.0	2640.4	2677.7
42.5°	2629.7	3011.6	3470.5	3806.6	3484.9	2965.1	2518.4	2712.0	2879.7	2900.3
45°	2934.6	3372.1	4067.3	4534.5	4097.8	3292.1	2842.4	3134.3	3260.8	3261.6
47.5°	3292.1	3778.4	4815.8	5481.2	4911.1	3654.2	3146.5	3802.8	3978.9	3892.7
50°	3719.7	4182.4	5586.4	6582.7	5902.7	4099.3	3533.0	4617.6	4857.7	4760.2
52.5°	4292.1	4627.5	6435.5	7656.6	6983.6	4606.2	4093.2	5693.9	5773.2	5591.0
55°	5097.8	5270.1	7525.5	8982.9	8190.2	5230.5	4912.6	7044.6	6822.8	6300.6
57.5°	6932.5	6286.9	8925.0	10496.0	9555.4	6364.7	6708.4	8534.0	7745.1	6864.7
60°	8467.7	7521.7	10220.0	11997.6	10725.4	7614.7	8394.5	8793.1	7710.8	6802.2
62.5°	7950.1	7836.5	10687.3	12163.0	11124.8	8229.8	8081.2	8139.9	7207.7	6386.8
65°	6975.2	7229.0	10270.3	11378.6	10681.9	7678.7	7309.8	7536.2	6632.2	5805.2
67.5°	6399.7	6586.5	9528.7	10123.2	9877.0	7082.7	6709.9	6546.1	5738.9	5036.1
70°	5811.3	5966.0	8487.5	8547.7	8621.6	6091.8	5486.6	4998.7	4277.7	3786.0
72.5°	5021.6	5030.0	7171.1	6822.0	6962.2	4767.0	4416.4	3737.2	3113.7	2667.8
75°	4212.9	3982.7	5676.4	4768.5	5049.8	3708.3	3667.1	2816.5	2348.4	1982.6
77.5°	3212.1	2943.0	4146.6	3135.8	3546.7	2469.6	2757.0	1910.2	1652.5	1319.4
80°	2156.4	1988.7	2291.3	1769.9	2320.2	1702.1	1798.1	1082.4	938.3	727.9
82.5°	1137.3	971.1	1416.2	1049.6	1399.5	935.3	674.6	334.6	285.1	230.2
85°	440.6	509.9	694.4	373.5	542.7	333.9	195.1	83.1	69.4	52.6
87.5°	85.4	131.9	72.4	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)