

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: P632104

Luminaire Tested: GWS-SA2C-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-722-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5333.9 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 63.2
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

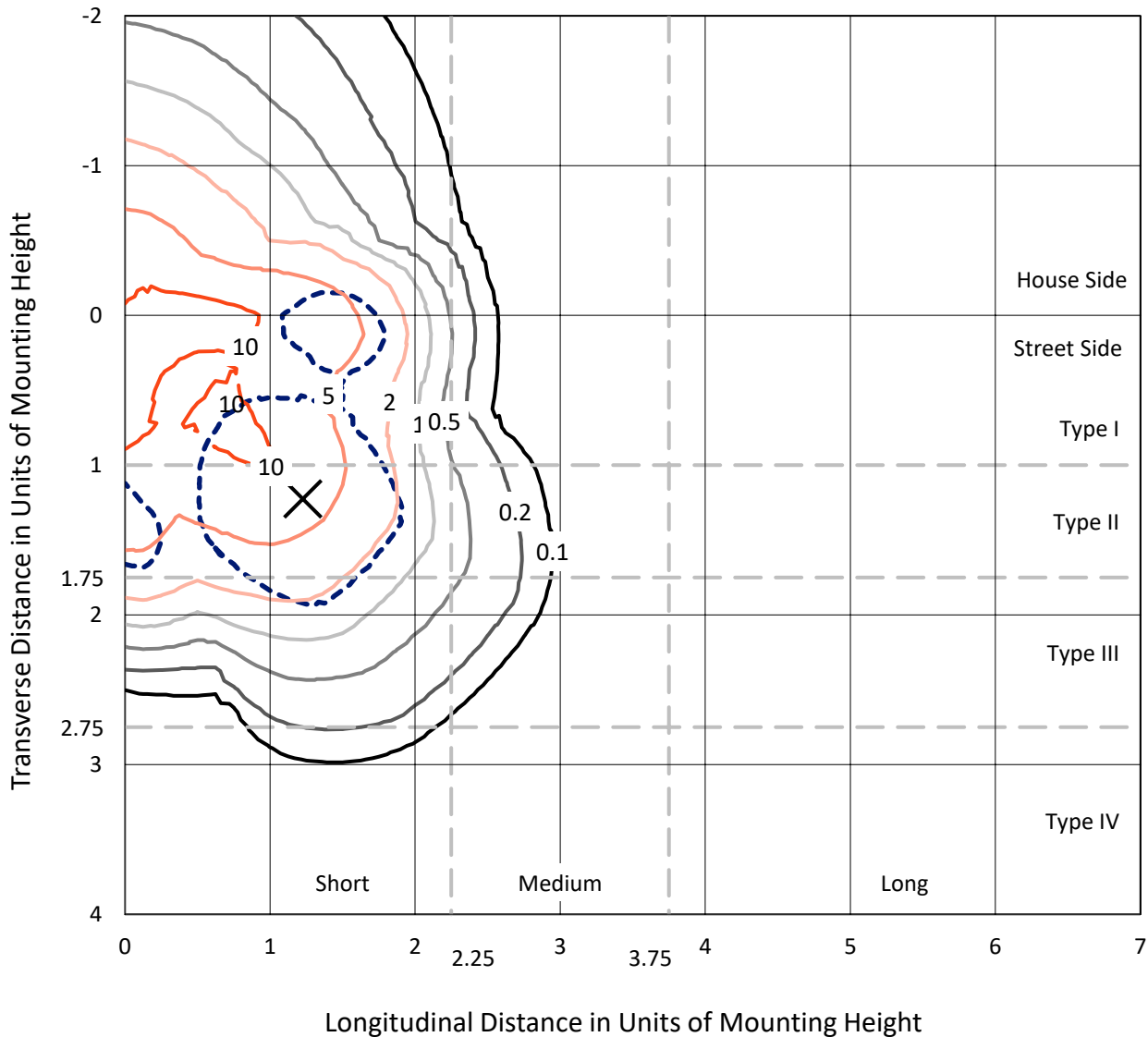


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Iso-Footcandle Lines of Horizontal Illumination

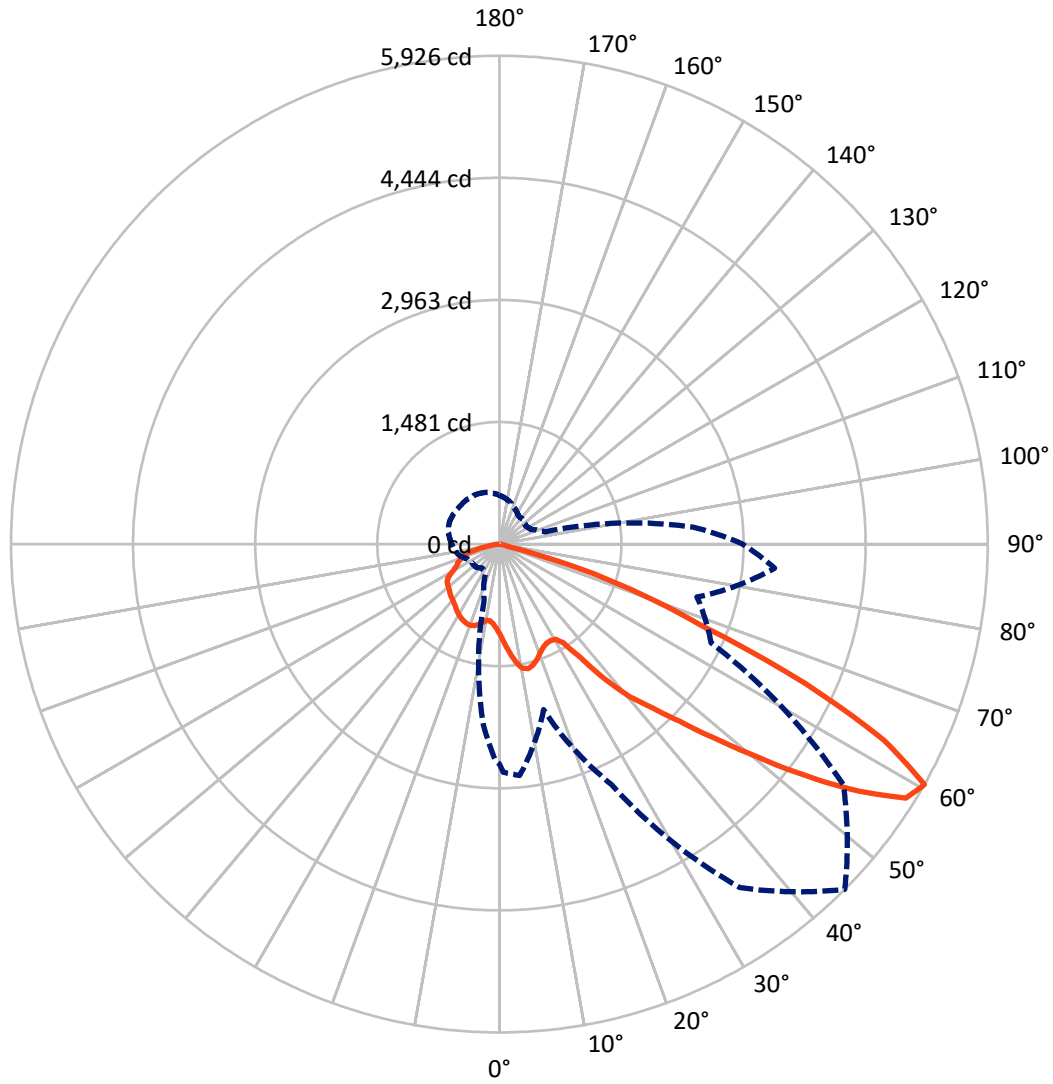
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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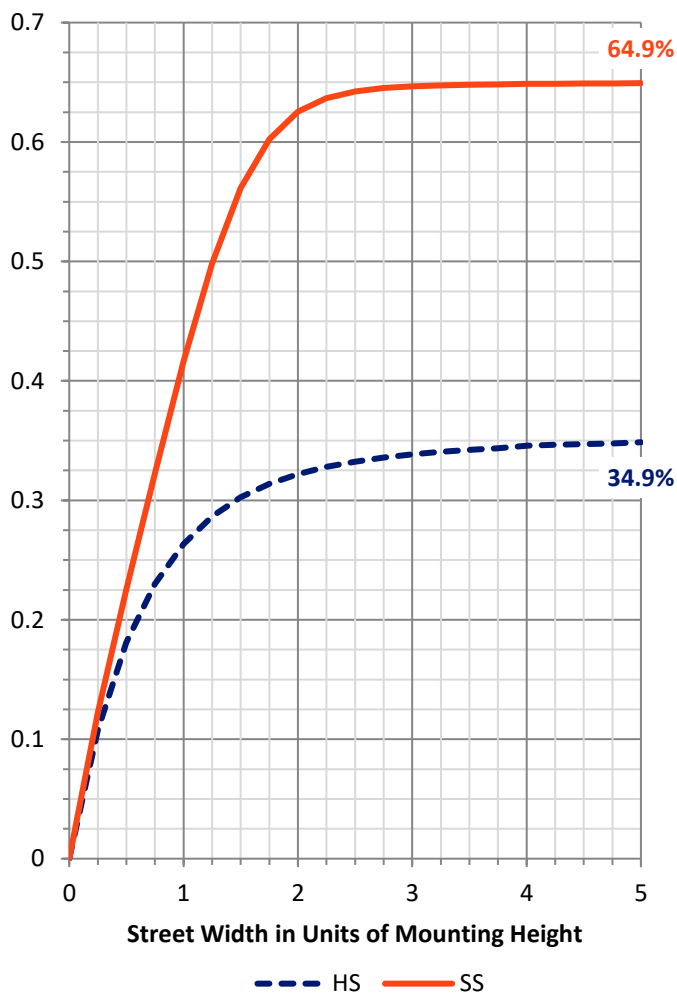
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1869.7	0.0	1869.7
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	3464.2	0.0	3464.2
	% Fixture	64.9	0.0	64.9
Total	Lumens	5333.9	0.0	5333.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	2.0
10°-20°	337.8	6.3
20°-30°	548.8	10.3
30°-40°	773.9	14.5
40°-50°	1069.5	20.1
50°-60°	1376.8	25.8
60°-70°	872.4	16.4
70°-80°	223.8	4.2
80°-90°	23.9	0.4
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°	5333.9	100.0
0°-180°	5333.9	100.0

Coefficient of Utilization



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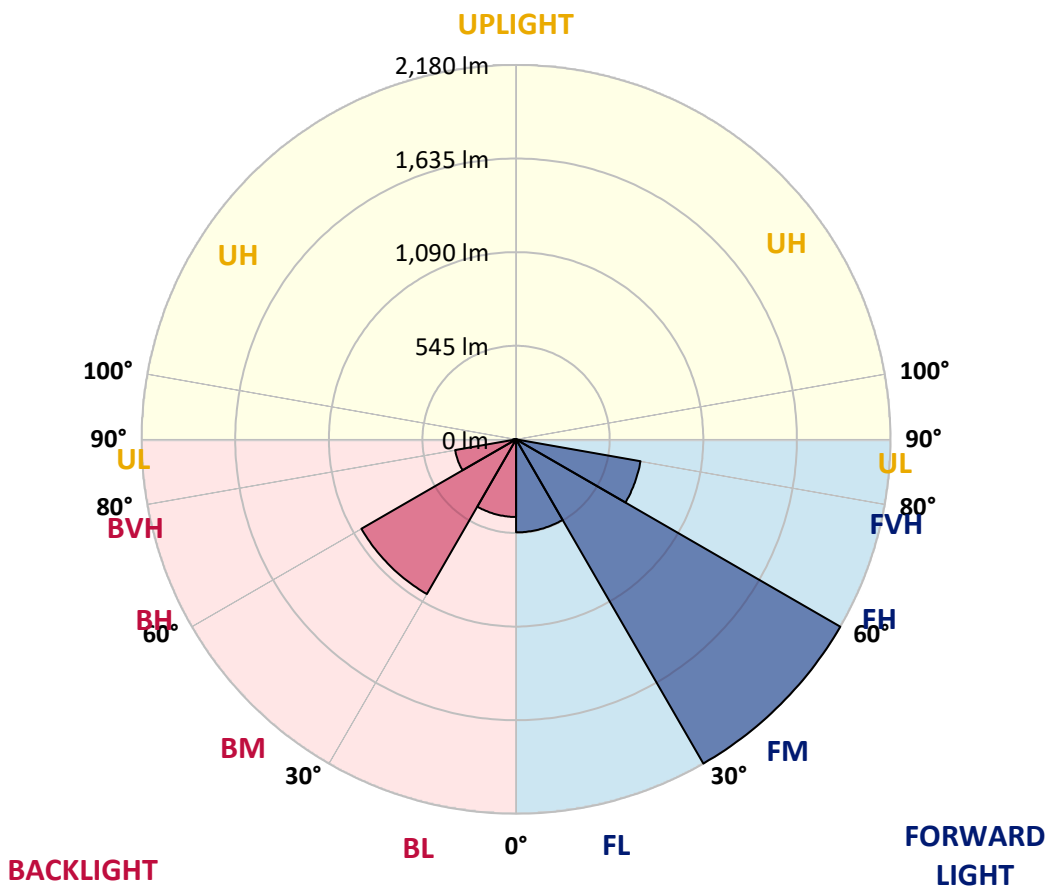
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	541.6	10.2			
FM (30°-60°)	2180.2	40.9			
FH (60°-80°)	735.9	13.8			G1/1800
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	451.9	8.5	B1/500		
BM (30°-60°)	1040.1	19.5	B2/2500		
BH (60°-80°)	360.3	6.8	B1/500		G1/500
BVH (80°-90°)	17.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7
2.5°	1146.1	1153.9	1158.8	1168.1	1184.7	1194.0	1204.2	1193.0	1195.9	1194.5	1176.4
5°	1214.0	1223.3	1236.0	1263.4	1294.2	1311.3	1327.4	1325.0	1309.8	1284.4	1266.3
7.5°	1277.5	1288.3	1310.3	1354.8	1400.2	1426.6	1446.2	1433.5	1420.7	1380.7	1335.2
10°	1327.4	1333.8	1363.6	1423.2	1476.0	1505.8	1529.7	1526.8	1509.2	1464.2	1403.2
12.5°	1374.3	1378.7	1411.0	1470.6	1518.0	1531.2	1550.7	1557.1	1551.2	1517.5	1457.4
15°	1424.7	1433.0	1462.8	1508.2	1529.7	1516.0	1522.9	1540.5	1557.1	1557.1	1501.9
17.5°	1471.6	1478.9	1509.2	1528.8	1508.2	1472.1	1474.0	1496.5	1536.1	1577.6	1542.4
20°	1513.1	1520.0	1549.8	1531.2	1466.2	1413.4	1411.9	1439.3	1503.3	1590.8	1585.9
22.5°	1558.6	1568.3	1593.3	1533.2	1427.1	1360.1	1359.7	1388.0	1474.5	1604.0	1635.8
25°	1623.1	1638.2	1650.9	1550.3	1406.1	1325.4	1331.8	1358.7	1465.2	1625.5	1709.6
27.5°	1718.9	1731.1	1730.1	1585.9	1405.1	1311.3	1324.5	1355.7	1481.8	1663.6	1787.3
30°	1822.5	1828.8	1818.6	1635.8	1427.6	1320.1	1339.6	1376.8	1523.9	1726.7	1901.7
32.5°	1937.3	1945.2	1925.6	1710.6	1479.9	1385.1	1428.1	1446.2	1583.0	1817.6	2022.9
35°	2069.3	2084.4	2043.9	1809.3	1633.8	1622.1	1684.7	1661.2	1708.6	1925.1	2152.4
37.5°	2208.1	2208.6	2150.4	1955.4	1935.9	1955.9	2081.0	2007.7	1975.0	2044.9	2284.3
40°	2325.9	2322.9	2233.5	2152.4	2198.8	2278.5	2429.5	2317.1	2231.1	2205.7	2393.8
42.5°	2443.7	2432.9	2342.5	2277.5	2380.1	2543.9	2714.4	2576.6	2395.3	2351.8	2501.8
45°	2594.2	2590.8	2481.8	2327.3	2543.9	2841.0	3067.3	2843.9	2492.5	2436.8	2681.7
47.5°	2837.1	2820.5	2617.7	2323.4	2697.3	3236.9	3522.8	3180.7	2560.5	2438.8	2972.0
50°	3074.6	3054.1	2779.9	2322.9	2855.7	3647.4	4060.4	3589.7	2629.9	2450.5	3267.2
52.5°	3314.6	3314.6	3046.3	2378.2	3021.8	4105.8	4681.6	4099.5	2748.1	2604.0	3630.3
55°	3457.3	3495.4	3345.9	2471.5	3216.4	4645.4	5295.9	4649.8	2930.9	2881.1	3965.6
57.5°	3276.0	3347.3	3325.8	2406.5	3331.2	5041.8	5816.9	5067.2	3021.3	2913.8	3915.2
60°	2669.5	2768.7	2818.0	2078.1	3217.8	5087.7	5925.9	5094.6	2834.7	2481.3	3353.7
62.5°	1774.6	1856.2	1931.5	1484.8	2785.8	4577.0	5241.2	4578.5	2367.4	1851.8	2323.4
65°	870.4	931.0	1012.2	877.8	2176.3	3824.3	4086.3	3699.7	1712.5	1036.6	1185.2
67.5°	227.7	244.9	256.1	340.6	1559.1	2747.7	2665.1	2706.1	1100.1	338.7	309.9
70°	118.3	119.3	118.8	140.8	1053.7	1746.2	1836.7	1699.3	767.8	141.7	122.2
72.5°	84.6	85.0	83.6	94.8	508.8	1000.4	1036.6	1025.4	402.2	84.1	83.6
75°	55.2	55.7	54.7	55.7	76.7	113.9	105.1	110.5	67.0	53.3	53.3
77.5°	32.7	33.2	32.7	33.7	32.7	32.7	30.3	30.3	28.8	28.8	29.3
80°	22.0	22.0	21.5	22.5	20.5	20.5	19.5	19.1	17.6	17.1	17.1
82.5°	13.2	13.7	13.2	13.2	12.2	12.2	11.2	10.8	9.3	9.3	8.8
85°	6.8	6.8	6.4	6.4	5.4	4.9	3.9	3.9	2.9	2.4	2.4
87.5°	1.0	1.0	0.5	0.5	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7
2.5°	1171.5	1161.7	1147.1	1132.9	1119.7	1106.0	1090.4	1074.2	1060.6	1046.4	1039.0
5°	1242.4	1222.3	1184.2	1150.5	1120.2	1095.3	1068.4	1045.4	1023.9	1006.3	997.5
7.5°	1306.4	1275.1	1217.4	1164.2	1123.1	1088.9	1051.8	1017.5	988.7	967.2	958.9
10°	1365.5	1328.4	1252.6	1185.2	1137.3	1099.2	1053.7	1007.3	969.2	940.8	934.0
12.5°	1413.4	1370.9	1280.5	1202.3	1145.6	1104.5	1064.5	1024.4	986.8	950.1	944.2
15°	1455.9	1405.6	1301.5	1213.0	1142.7	1090.4	1056.6	1051.8	1051.8	1010.2	998.5
17.5°	1492.6	1437.4	1318.6	1217.9	1124.1	1048.3	1027.8	1070.3	1118.2	1088.4	1062.0
20°	1534.6	1467.7	1332.8	1217.9	1089.9	995.1	993.1	1065.4	1136.3	1136.8	1108.9
22.5°	1577.1	1502.9	1349.4	1213.5	1043.0	933.5	969.6	1045.9	1108.9	1135.8	1116.8
25°	1646.1	1551.7	1375.8	1210.1	988.2	891.4	948.6	1020.0	1073.3	1101.6	1089.4
27.5°	1733.5	1616.2	1415.9	1215.5	934.0	866.5	926.1	986.3	1034.6	1059.6	1050.8
30°	1831.3	1690.5	1458.9	1224.8	894.9	853.8	899.3	947.7	990.7	1015.6	1011.7
32.5°	1955.9	1771.2	1496.0	1212.1	872.9	847.5	870.9	905.6	947.2	962.8	966.2
35°	2105.0	1860.1	1524.4	1162.2	852.8	840.6	840.1	861.6	891.0	915.9	918.3
37.5°	2242.3	1964.2	1555.6	1076.7	816.7	823.5	804.0	816.7	845.5	870.4	880.2
40°	2378.2	2069.8	1599.1	967.7	769.3	785.4	762.4	771.2	794.2	826.9	842.6
42.5°	2510.1	2165.1	1645.1	856.3	721.9	732.1	715.0	723.8	747.8	788.8	806.4
45°	2653.8	2294.1	1680.8	751.2	680.8	676.4	662.7	675.4	711.6	756.6	777.6
47.5°	2925.6	2497.4	1704.2	681.3	658.8	627.0	611.4	638.8	679.8	725.3	750.7
50°	3257.4	2791.6	1697.4	636.8	639.8	576.2	570.8	607.0	651.0	698.4	726.3
52.5°	3520.3	3080.5	1619.7	594.3	602.6	544.0	528.3	581.1	623.1	671.5	700.4
55°	3721.2	3177.7	1381.2	544.0	542.0	520.5	487.8	554.2	595.3	640.2	671.5
57.5°	3557.5	2961.2	1023.9	474.6	462.8	474.1	442.3	508.8	561.1	605.5	633.4
60°	2952.4	2361.1	570.4	420.3	387.1	414.4	409.6	460.9	523.9	570.8	594.8
62.5°	2004.3	1572.3	338.2	332.3	313.8	352.9	378.8	412.5	474.6	512.7	535.2
65°	999.0	763.9	224.8	248.8	251.2	290.3	339.2	376.3	428.1	467.2	489.7
67.5°	289.8	237.5	171.1	190.1	216.5	247.8	286.9	330.9	381.2	427.6	454.0
70°	125.1	126.6	135.9	158.3	184.3	216.5	255.6	298.6	341.1	376.8	396.9
72.5°	88.5	91.9	102.1	125.1	149.6	180.3	219.4	261.0	291.8	327.9	349.0
75°	56.7	59.1	67.4	85.0	103.1	132.9	170.1	208.2	240.0	265.9	285.9
77.5°	31.3	31.8	38.6	48.9	61.1	80.2	107.5	137.3	160.8	175.5	193.5
80°	18.1	18.1	21.5	27.9	35.2	46.9	62.1	76.7	90.9	100.2	109.0
82.5°	9.8	9.8	11.2	15.2	19.1	25.9	34.7	42.0	50.8	55.7	61.6
85°	2.9	2.9	3.9	5.4	6.8	9.8	13.7	17.6	21.5	24.9	28.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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°	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7
2.5°	1037.6	1030.7	1026.8	1021.9	1023.4	1019.0	1016.6	1018.0	1009.2	1018.0	1026.8
5°	994.1	984.3	976.5	970.1	967.2	961.3	957.9	957.9	952.5	961.3	972.1
7.5°	956.0	948.1	944.2	940.3	935.9	930.5	924.7	922.7	919.3	928.6	937.9
10°	930.5	931.5	934.0	939.3	938.4	934.9	926.1	921.3	921.3	932.0	946.2
12.5°	942.3	952.5	958.4	968.2	970.1	967.2	958.4	954.5	964.3	980.4	1003.9
15°	987.7	994.6	999.5	1007.3	1006.8	1004.3	997.5	1000.4	1032.7	1064.0	1085.0
17.5°	1037.1	1029.3	1028.3	1033.2	1034.6	1031.7	1027.8	1041.0	1094.3	1123.6	1134.3
20°	1072.8	1045.9	1040.0	1042.0	1045.9	1044.4	1044.4	1065.9	1121.2	1134.8	1121.2
22.5°	1083.5	1045.4	1036.6	1037.1	1042.5	1043.0	1045.4	1067.9	1100.1	1100.6	1079.6
25°	1066.4	1029.8	1023.4	1024.4	1030.7	1030.2	1031.2	1043.9	1058.1	1052.2	1036.6
27.5°	1034.2	1002.4	1000.4	1005.8	1014.1	1009.7	1006.8	1010.2	1017.1	1009.7	996.0
30°	997.5	970.6	971.6	981.9	990.7	983.3	976.0	978.0	978.4	970.6	955.0
32.5°	958.9	938.9	942.3	953.0	963.3	955.5	947.7	946.7	937.4	928.1	913.0
35°	920.3	912.5	916.9	925.7	934.5	928.1	923.2	920.3	900.2	886.6	873.9
37.5°	885.1	891.0	898.8	904.2	907.1	906.6	903.7	896.8	870.4	854.3	837.7
40°	853.8	871.9	880.2	882.7	887.1	886.1	885.6	875.8	841.1	824.0	804.9
42.5°	825.5	850.9	865.1	867.5	869.9	870.4	869.0	854.8	815.2	795.2	777.1
45°	798.1	831.3	849.4	847.0	850.4	850.4	851.9	833.3	789.8	769.3	750.2
47.5°	774.2	813.3	829.9	826.9	828.9	830.4	831.8	810.3	761.9	742.4	722.8
50°	752.2	793.7	807.9	808.9	808.9	812.3	811.8	790.8	738.5	717.5	697.9
52.5°	728.7	773.7	788.8	795.2	797.1	798.6	791.7	767.3	714.5	689.1	671.0
55°	701.3	753.1	766.8	775.1	779.0	778.1	768.8	743.9	690.1	664.7	644.2
57.5°	659.8	709.2	728.7	732.6	739.0	735.1	724.3	703.3	651.0	625.6	604.6
60°	614.3	650.0	665.7	669.1	664.2	665.7	664.2	644.2	598.7	578.7	557.2
62.5°	554.7	586.5	603.1	607.5	599.2	604.6	602.6	577.7	532.2	511.2	492.2
65°	509.7	544.4	564.0	566.4	564.0	566.4	559.6	529.3	486.3	464.8	445.2
67.5°	474.6	510.2	530.8	537.6	535.2	534.7	523.9	488.7	444.3	420.8	395.9
70°	414.0	445.2	471.6	488.2	488.2	479.0	458.4	425.7	390.0	370.0	350.4
72.5°	366.5	406.1	432.0	449.1	452.6	447.2	418.4	383.7	342.6	322.6	302.0
75°	302.0	340.6	368.5	391.0	395.4	389.5	356.3	322.1	284.0	264.4	243.9
77.5°	201.8	224.8	247.3	267.8	263.4	267.3	244.9	219.0	195.5	180.8	171.5
80°	113.9	129.0	135.9	147.1	147.1	147.1	132.4	120.2	107.0	98.7	89.4
82.5°	64.5	74.3	77.2	86.5	88.9	89.4	79.7	71.8	63.5	59.1	52.8
85°	29.8	35.2	35.7	41.1	43.0	46.9	42.5	37.1	32.3	30.3	26.4
87.5°	1.0	2.9	3.9	7.3	9.8	11.2	12.2	12.2	10.3	9.3	7.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7
2.5°	1037.6	1049.3	1063.0	1072.8	1090.4	1105.0	1120.2	1136.8	1149.0	1146.1
5°	985.3	1004.8	1029.8	1052.7	1085.5	1118.7	1155.4	1193.0	1215.0	1214.0
7.5°	956.0	983.8	1014.1	1044.9	1083.5	1131.4	1187.6	1246.3	1276.1	1277.5
10°	971.6	1001.4	1021.9	1047.8	1088.4	1148.5	1216.0	1286.3	1320.6	1327.4
12.5°	1021.0	1018.5	1017.1	1035.6	1084.5	1160.7	1243.3	1327.4	1366.0	1374.3
15°	1067.9	1017.5	987.2	999.9	1066.9	1168.6	1270.2	1372.4	1415.9	1424.7
17.5°	1076.7	1000.4	944.2	953.0	1039.0	1171.0	1296.1	1416.3	1463.3	1471.6
20°	1052.2	978.4	913.0	900.7	1003.9	1164.7	1312.2	1453.0	1504.3	1513.1
22.5°	1021.5	958.9	889.5	857.7	960.8	1158.3	1330.3	1491.6	1550.7	1558.6
25°	989.2	934.0	867.5	819.1	912.0	1154.4	1360.6	1542.4	1613.8	1623.1
27.5°	955.0	903.7	848.4	800.5	867.0	1159.3	1403.6	1624.5	1705.7	1718.9
30°	918.3	873.4	836.2	794.2	836.2	1163.7	1451.0	1708.6	1803.9	1822.5
32.5°	880.2	845.5	823.5	797.1	817.2	1153.4	1492.6	1802.9	1921.2	1937.3
35°	842.1	817.2	807.4	802.5	791.7	1115.8	1526.3	1898.2	2055.1	2069.3
37.5°	806.4	787.8	784.9	790.3	752.6	1054.2	1565.4	2019.4	2186.6	2208.1
40°	773.2	756.1	755.6	754.6	709.6	970.1	1618.2	2142.6	2316.1	2325.9
42.5°	742.4	720.9	724.8	713.1	674.5	879.2	1668.0	2247.7	2436.8	2443.7
45°	715.0	686.7	691.1	676.4	657.8	783.9	1712.0	2371.8	2589.8	2594.2
47.5°	688.6	658.3	646.1	645.1	654.9	696.0	1755.0	2610.8	2829.3	2837.1
50°	664.2	631.4	596.7	618.2	636.8	630.0	1808.8	2866.9	3076.6	3074.6
52.5°	640.7	597.7	548.4	589.9	589.9	581.1	1793.7	3022.3	3280.9	3314.6
55°	613.8	543.5	498.0	542.5	521.0	537.1	1525.3	3073.2	3409.4	3457.3
57.5°	560.6	476.5	436.9	460.9	428.6	498.0	1095.7	2821.0	3190.9	3276.0
60°	509.3	427.2	401.2	396.9	354.8	406.1	710.1	2208.6	2626.5	2669.5
62.5°	449.1	384.6	362.6	328.9	285.4	295.7	430.1	1453.5	1764.8	1774.6
65°	403.7	348.5	306.4	266.4	233.6	214.6	254.1	700.8	882.2	870.4
67.5°	346.5	298.6	258.5	229.7	202.8	178.9	169.1	208.2	235.6	227.7
70°	308.4	262.4	223.8	196.5	171.5	147.6	130.5	122.7	120.2	118.3
72.5°	265.9	225.8	185.7	159.3	135.9	113.9	98.2	88.9	86.5	84.6
75°	212.1	174.5	137.8	112.9	92.4	76.7	66.5	58.6	57.2	55.2
77.5°	140.3	111.9	82.1	67.0	54.7	46.4	39.6	34.7	33.7	32.7
80°	77.2	64.5	50.3	40.6	32.7	28.3	25.9	23.0	22.5	22.0
82.5°	45.9	38.6	28.8	23.0	19.1	17.1	15.6	14.2	13.7	13.2
85°	23.0	18.1	12.7	10.8	9.8	8.8	8.8	7.3	6.8	6.8
87.5°	5.9	4.9	2.9	2.4	2.4	2.4	2.0	1.5	1.5	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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