

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: P631444

Luminaire Tested: GWS-SA1F-760-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631444
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-SA1F-760-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6650.2 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

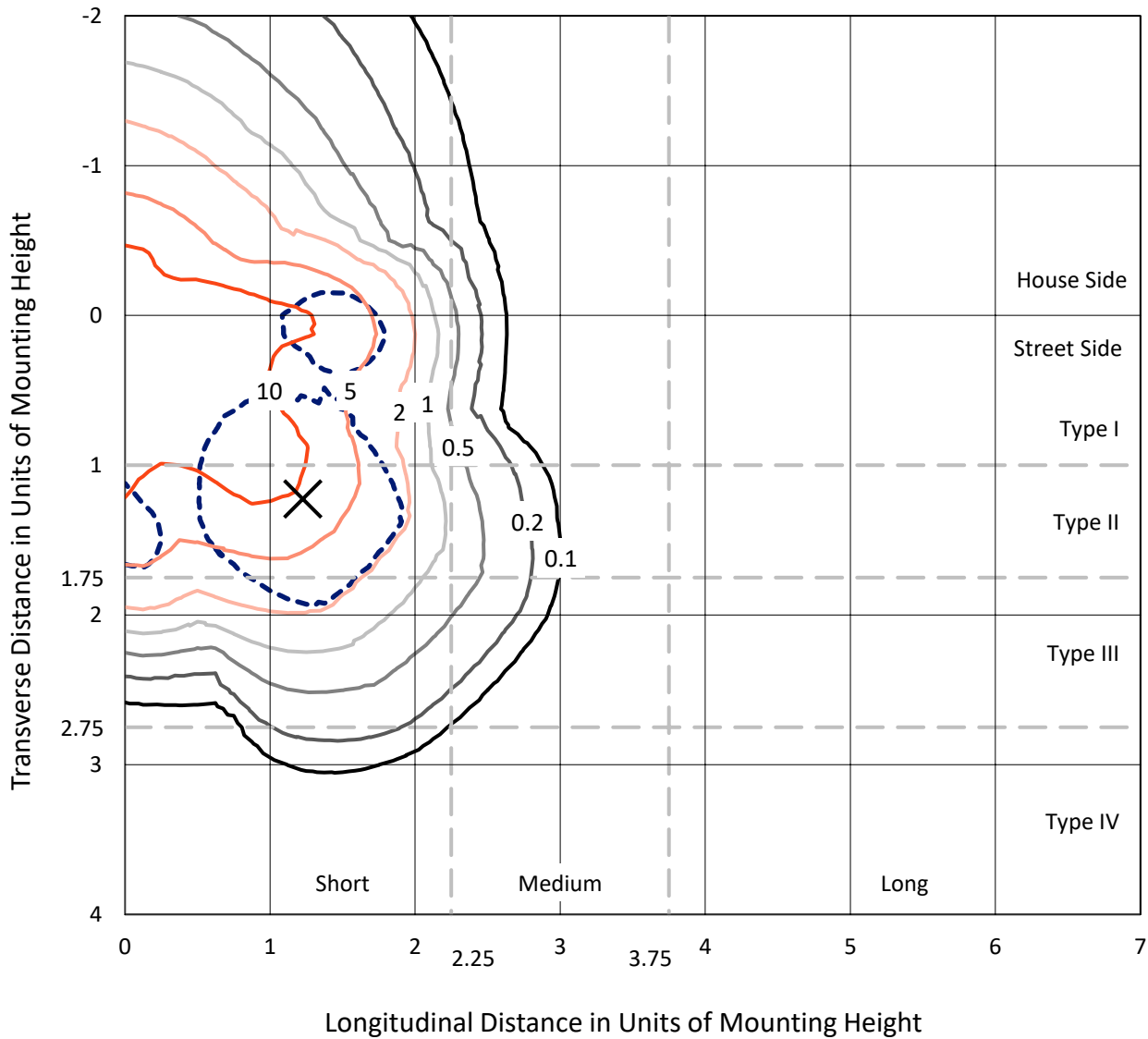
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

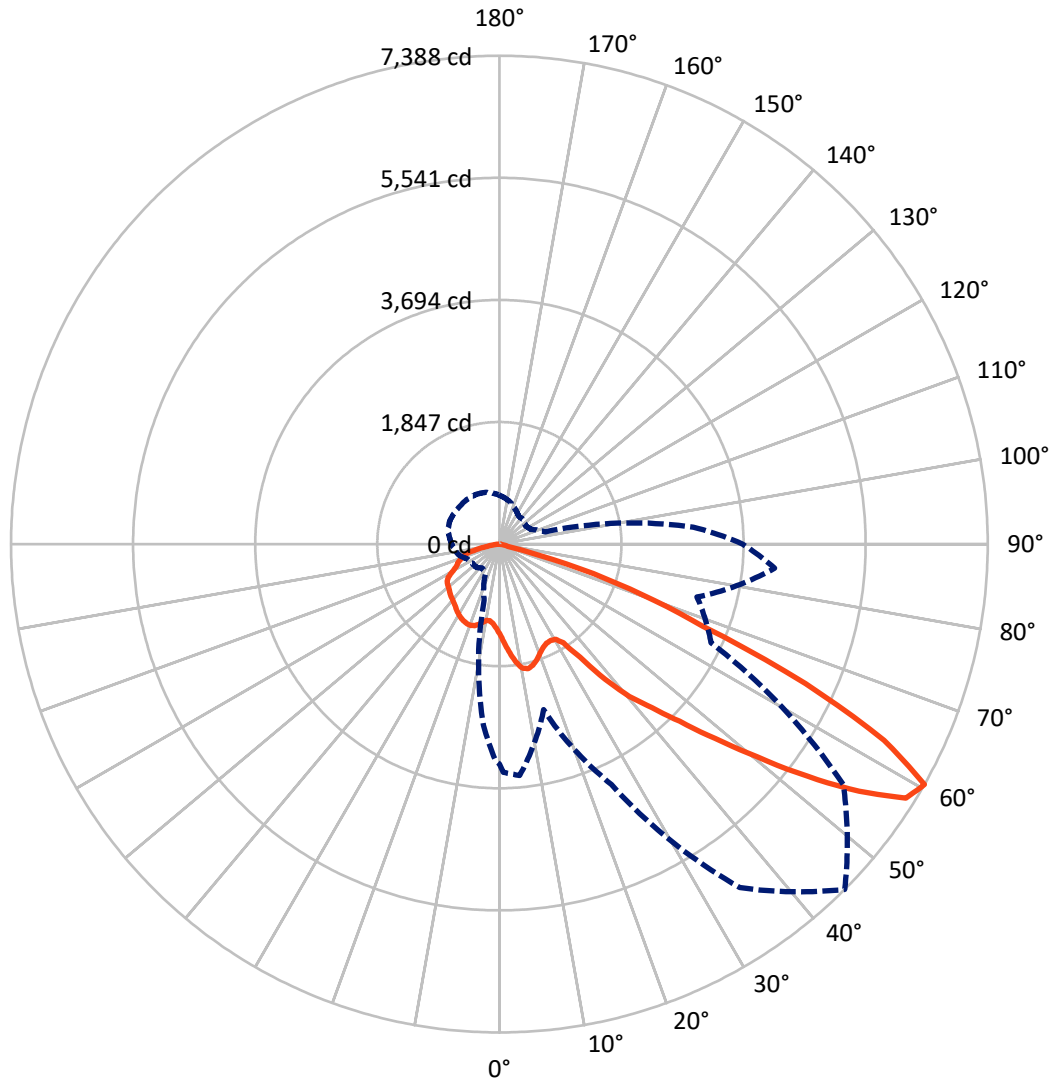
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 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	2331.1	0.0	2331.1
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	4319.1	0.0	4319.1
	% Fixture	64.9	0.0	64.9
Total	Lumens	6650.2	0.0	6650.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	2.0
10°-20°	421.2	6.3
20°-30°	684.2	10.3
30°-40°	964.9	14.5
40°-50°	1333.5	20.1
50°-60°	1716.6	25.8
60°-70°	1087.6	16.4
70°-80°	279.1	4.2
80°-90°	29.8	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°	6650.2	100.0
0°-180°	6650.2	100.0

Coefficient of Utilization



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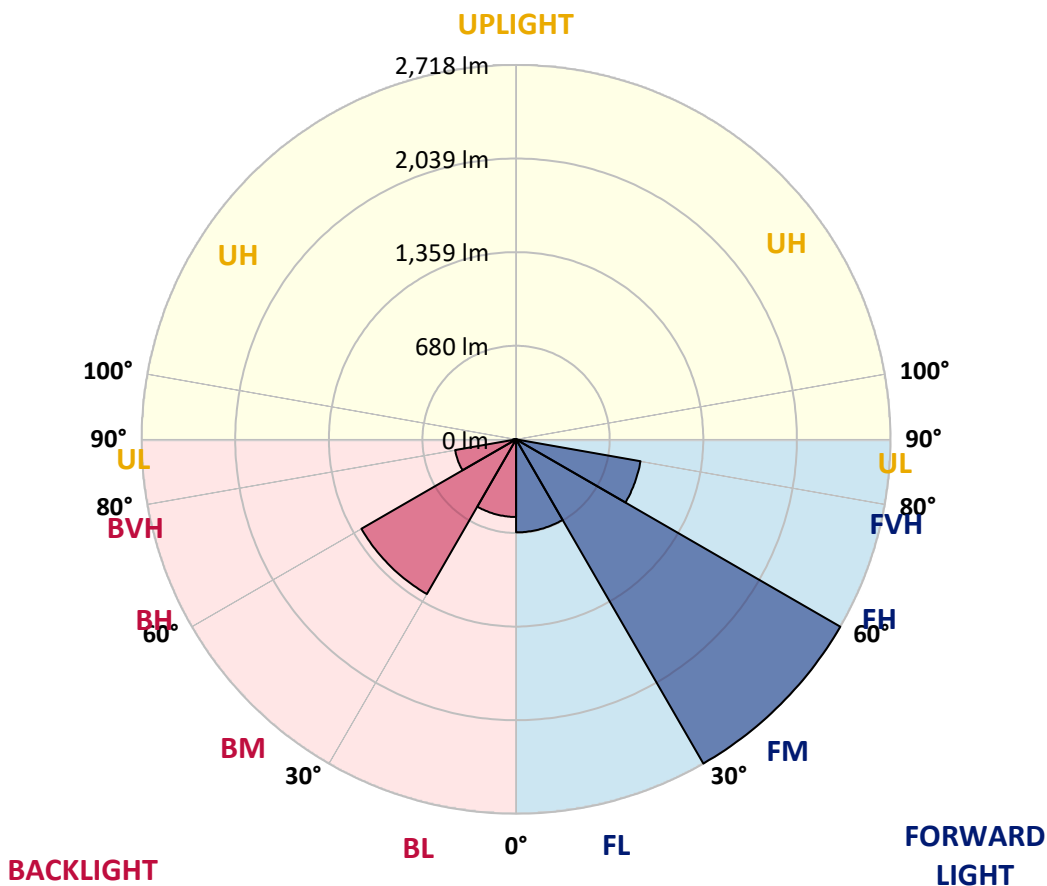
CATALOG NUMBER: GWS-SA1F-760-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.2	10.2			
FM (30°-60°)	2718.2	40.9			
FH (60°-80°)	917.5	13.8			G1/1800
FVH (80°-90°)	8.1	0.1			G0/10
BL (0°-30°)	563.4	8.5	B2/1000		
BM (30°-60°)	1296.7	19.5	B2/2500		
BH (60°-80°)	449.2	6.8	B1/500		G1/500
BVH (80°-90°)	21.7	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°	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1
2.5°	1428.9	1438.7	1444.8	1456.3	1477.0	1488.6	1501.4	1487.4	1491.1	1489.2	1466.7
5°	1513.6	1525.2	1541.0	1575.2	1613.5	1634.9	1655.0	1651.9	1633.0	1601.4	1578.8
7.5°	1592.8	1606.2	1633.6	1689.1	1745.8	1778.7	1803.0	1787.2	1771.4	1721.4	1664.7
10°	1655.0	1662.9	1700.1	1774.4	1840.2	1877.4	1907.2	1903.6	1881.6	1825.6	1749.4
12.5°	1713.5	1719.0	1759.2	1833.5	1892.6	1909.1	1933.4	1941.4	1934.1	1892.0	1817.1
15°	1776.2	1786.6	1823.8	1880.4	1907.2	1890.2	1898.7	1920.6	1941.4	1941.4	1872.5
17.5°	1834.7	1843.9	1881.6	1906.0	1880.4	1835.3	1837.8	1865.8	1915.2	1967.0	1923.1
20°	1886.5	1895.1	1932.2	1909.1	1828.0	1762.2	1760.4	1794.5	1874.3	1983.4	1977.3
22.5°	1943.2	1955.4	1986.5	1911.5	1779.3	1695.8	1695.2	1730.5	1838.4	1999.9	2039.5
25°	2023.6	2042.5	2058.4	1932.8	1753.1	1652.5	1660.5	1694.0	1826.8	2026.7	2131.5
27.5°	2143.1	2158.3	2157.1	1977.3	1751.9	1634.9	1651.3	1690.3	1847.5	2074.2	2228.4
30°	2272.2	2280.2	2267.4	2039.5	1779.9	1645.8	1670.2	1716.5	1899.9	2152.8	2371.0
32.5°	2415.4	2425.2	2400.8	2132.7	1845.1	1726.9	1780.5	1803.0	1973.7	2266.1	2522.1
35°	2580.0	2598.8	2548.3	2255.8	2037.0	2022.4	2100.4	2071.2	2130.3	2400.2	2683.5
37.5°	2753.0	2753.6	2681.1	2438.0	2413.6	2438.6	2594.6	2503.2	2462.4	2549.5	2848.1
40°	2899.9	2896.2	2784.7	2683.5	2741.4	2840.8	3029.0	2888.9	2781.6	2750.0	2984.6
42.5°	3046.7	3033.3	2920.6	2839.5	2967.5	3171.6	3384.3	3212.5	2986.4	2932.2	3119.2
45°	3234.4	3230.1	3094.2	2901.7	3171.6	3542.1	3824.2	3545.8	3107.6	3038.2	3343.5
47.5°	3537.2	3516.5	3263.6	2896.8	3363.0	4035.7	4392.1	3965.6	3192.3	3040.6	3705.4
50°	3833.4	3807.8	3465.9	2896.2	3560.4	4547.5	5062.4	4475.6	3278.9	3055.2	4073.5
52.5°	4132.6	4132.6	3798.0	2965.1	3767.6	5119.1	5836.9	5111.2	3426.3	3246.6	4526.2
55°	4310.5	4358.0	4171.6	3081.4	4010.1	5791.8	6602.8	5797.3	3654.2	3592.1	4944.2
57.5°	4084.4	4173.4	4146.6	3000.4	4153.3	6286.0	7252.4	6317.7	3767.0	3632.9	4881.4
60°	3328.2	3451.9	3513.5	2590.9	4011.9	6343.3	7388.3	6351.8	3534.2	3093.6	4181.3
62.5°	2212.5	2314.3	2408.1	1851.2	3473.3	5706.5	6534.6	5708.3	2951.7	2308.8	2896.8
65°	1085.2	1160.8	1261.9	1094.4	2713.4	4768.1	5094.7	4612.7	2135.1	1292.4	1477.7
67.5°	284.0	305.3	319.3	424.7	1943.8	3425.7	3322.7	3373.9	1371.6	422.3	386.3
70°	147.5	148.7	148.1	175.5	1313.7	2177.2	2289.9	2118.7	957.3	176.7	152.3
72.5°	105.4	106.0	104.2	118.2	634.3	1247.3	1292.4	1278.4	501.5	104.8	104.2
75°	68.9	69.5	68.2	69.5	95.7	142.0	131.0	137.7	83.5	66.4	66.4
77.5°	40.8	41.4	40.8	42.0	40.8	40.8	37.8	37.8	36.0	36.0	36.6
80°	27.4	27.4	26.8	28.0	25.6	25.6	24.4	23.8	21.9	21.3	21.3
82.5°	16.5	17.1	16.5	16.5	15.2	15.2	14.0	13.4	11.6	11.6	11.0
85°	8.5	8.5	7.9	7.9	6.7	6.1	4.9	4.9	3.7	3.0	3.0
87.5°	1.2	1.2	0.6	0.6	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1
2.5°	1460.6	1448.4	1430.1	1412.5	1396.0	1378.9	1359.4	1339.3	1322.3	1304.6	1295.5
5°	1548.9	1524.0	1476.4	1434.4	1396.6	1365.5	1332.0	1303.4	1276.6	1254.6	1243.7
7.5°	1628.8	1589.8	1517.9	1451.5	1400.3	1357.6	1311.3	1268.7	1232.7	1205.9	1195.5
10°	1702.5	1656.2	1561.7	1477.7	1417.9	1370.4	1313.7	1255.9	1208.3	1173.0	1164.5
12.5°	1762.2	1709.2	1596.5	1499.0	1428.3	1377.1	1327.1	1277.2	1230.3	1184.6	1177.2
15°	1815.2	1752.5	1622.7	1512.4	1424.6	1359.4	1317.4	1311.3	1311.3	1259.5	1244.9
17.5°	1860.9	1792.1	1644.0	1518.5	1401.5	1307.0	1281.4	1334.5	1394.2	1357.0	1324.1
20°	1913.3	1829.9	1661.7	1518.5	1358.8	1240.6	1238.2	1328.4	1416.7	1417.3	1382.6
22.5°	1966.3	1873.7	1682.4	1513.0	1300.3	1163.8	1208.9	1304.0	1382.6	1416.1	1392.3
25°	2052.3	1934.7	1715.3	1508.7	1232.1	1111.4	1182.7	1271.7	1338.1	1373.5	1358.2
27.5°	2161.3	2015.1	1765.3	1515.4	1164.5	1080.4	1154.7	1229.7	1290.0	1321.1	1310.1
30°	2283.2	2107.7	1818.9	1527.0	1115.7	1064.5	1121.2	1181.5	1235.1	1266.2	1261.3
32.5°	2438.6	2208.3	1865.2	1511.2	1088.3	1056.6	1085.8	1129.1	1180.9	1200.4	1204.7
35°	2624.4	2319.2	1900.5	1449.0	1063.3	1048.1	1047.5	1074.3	1110.8	1141.9	1145.0
37.5°	2795.7	2448.9	1939.5	1342.4	1018.2	1026.7	1002.4	1018.2	1054.2	1085.2	1097.4
40°	2965.1	2580.6	1993.8	1206.5	959.1	979.2	950.6	961.5	990.2	1031.0	1050.5
42.5°	3129.6	2699.4	2051.0	1067.6	900.0	912.8	891.5	902.4	932.3	983.5	1005.4
45°	3308.7	2860.3	2095.5	936.6	848.8	843.3	826.3	842.1	887.2	943.3	969.5
47.5°	3647.5	3113.7	2124.8	849.4	821.4	781.8	762.3	796.4	847.6	904.3	936.0
50°	4061.3	3480.6	2116.2	794.0	797.6	718.4	711.7	756.8	811.6	870.8	905.5
52.5°	4389.1	3840.7	2019.4	741.0	751.3	678.2	658.7	724.5	776.9	837.2	873.2
55°	4639.5	3961.9	1722.0	678.2	675.8	648.9	608.1	691.0	742.2	798.2	837.2
57.5°	4435.4	3692.0	1276.6	591.7	577.0	591.1	551.5	634.3	699.5	755.0	789.7
60°	3681.0	2943.7	711.1	524.0	482.6	516.7	510.6	574.6	653.2	711.7	741.6
62.5°	2498.9	1960.3	421.7	414.4	391.2	439.9	472.2	514.3	591.7	639.2	667.2
65°	1245.5	952.4	280.3	310.2	313.2	361.9	422.9	469.2	533.8	582.5	610.6
67.5°	361.3	296.1	213.3	237.0	269.9	308.9	357.7	412.5	475.3	533.2	566.1
70°	156.0	157.8	169.4	197.4	229.7	269.9	318.7	372.3	425.3	469.8	494.8
72.5°	110.3	114.6	127.4	156.0	186.5	224.8	273.6	325.4	363.8	408.9	435.1
75°	70.7	73.7	84.1	106.0	128.6	165.7	212.1	259.6	299.2	331.5	356.5
77.5°	39.0	39.6	48.1	60.9	76.2	99.9	134.1	171.2	200.5	218.8	241.3
80°	22.5	22.5	26.8	34.7	43.9	58.5	77.4	95.7	113.3	124.9	135.9
82.5°	12.2	12.2	14.0	18.9	23.8	32.3	43.3	52.4	63.4	69.5	76.8
85°	3.7	3.7	4.9	6.7	8.5	12.2	17.1	21.9	26.8	31.1	35.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1
2.5°	1293.6	1285.1	1280.2	1274.1	1276.0	1270.5	1267.4	1269.3	1258.3	1269.3	1280.2
5°	1239.4	1227.2	1217.5	1209.5	1205.9	1198.6	1194.3	1194.3	1187.6	1198.6	1212.0
7.5°	1191.9	1182.1	1177.2	1172.4	1166.9	1160.2	1152.9	1150.4	1146.2	1157.8	1169.3
10°	1160.2	1161.4	1164.5	1171.2	1169.9	1165.7	1154.7	1148.6	1148.6	1162.0	1179.7
12.5°	1174.8	1187.6	1194.9	1207.1	1209.5	1205.9	1194.9	1190.0	1202.2	1222.3	1251.6
15°	1231.5	1240.0	1246.1	1255.9	1255.2	1252.2	1243.7	1247.3	1287.5	1326.5	1352.7
17.5°	1293.0	1283.3	1282.1	1288.2	1290.0	1286.3	1281.4	1297.9	1364.3	1400.9	1414.3
20°	1337.5	1304.0	1296.7	1299.1	1304.0	1302.2	1302.2	1329.0	1397.8	1414.9	1397.8
22.5°	1350.9	1303.4	1292.4	1293.0	1299.7	1300.3	1303.4	1331.4	1371.6	1372.2	1346.0
25°	1329.6	1283.9	1276.0	1277.2	1285.1	1284.5	1285.7	1301.6	1319.2	1311.9	1292.4
27.5°	1289.4	1249.8	1247.3	1254.0	1264.4	1258.9	1255.2	1259.5	1268.0	1258.9	1241.8
30°	1243.7	1210.2	1211.4	1224.2	1235.1	1226.0	1216.9	1219.3	1219.9	1210.2	1190.7
32.5°	1195.5	1170.5	1174.8	1188.2	1201.0	1191.3	1181.5	1180.3	1168.7	1157.1	1138.3
35°	1147.4	1137.6	1143.1	1154.1	1165.1	1157.1	1151.0	1147.4	1122.4	1105.3	1089.5
37.5°	1103.5	1110.8	1120.6	1127.3	1130.9	1130.3	1126.7	1118.1	1085.2	1065.1	1044.4
40°	1064.5	1087.1	1097.4	1100.5	1106.0	1104.7	1104.1	1091.9	1048.7	1027.4	1003.6
42.5°	1029.2	1060.9	1078.5	1081.6	1084.6	1085.2	1083.4	1065.7	1016.4	991.4	968.9
45°	995.1	1036.5	1059.0	1056.0	1060.3	1060.3	1062.1	1038.9	984.7	959.1	935.3
47.5°	965.2	1013.9	1034.7	1031.0	1033.4	1035.3	1037.1	1010.3	950.0	925.6	901.2
50°	937.8	989.6	1007.2	1008.5	1008.5	1012.7	1012.1	985.9	920.7	894.5	870.1
52.5°	908.5	964.6	983.5	991.4	993.8	995.7	987.1	956.7	890.9	859.2	836.6
55°	874.4	939.0	956.1	966.4	971.3	970.1	958.5	927.4	860.4	828.7	803.1
57.5°	822.6	884.2	908.5	913.4	921.3	916.5	903.0	876.8	811.6	780.0	753.8
60°	765.9	810.4	829.9	834.2	828.1	829.9	828.1	803.1	746.4	721.5	694.7
62.5°	691.6	731.2	751.9	757.4	747.1	753.8	751.3	720.2	663.6	637.4	613.6
65°	635.5	678.8	703.2	706.2	703.2	706.2	697.7	659.9	606.3	579.5	555.1
67.5°	591.7	636.2	661.7	670.3	667.2	666.6	653.2	609.3	553.9	524.6	493.6
70°	516.1	555.1	588.0	608.7	608.7	597.2	571.6	530.7	486.3	461.3	436.9
72.5°	457.0	506.4	538.7	560.0	564.3	557.5	521.6	478.3	427.1	402.2	376.6
75°	376.6	424.7	459.4	487.5	493.0	485.6	444.2	401.6	354.0	329.7	304.1
77.5°	251.7	280.3	308.3	333.9	328.4	333.3	305.3	273.0	243.7	225.5	213.9
80°	142.0	160.9	169.4	183.4	183.4	183.4	165.1	149.9	133.4	123.1	111.5
82.5°	80.4	92.6	96.3	107.9	110.9	111.5	99.3	89.6	79.2	73.7	65.8
85°	37.2	43.9	44.5	51.2	53.6	58.5	53.0	46.3	40.2	37.8	32.9
87.5°	1.2	3.7	4.9	9.1	12.2	14.0	15.2	15.2	12.8	11.6	9.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1	1366.1
2.5°	1293.6	1308.3	1325.3	1337.5	1359.4	1377.7	1396.6	1417.3	1432.6	1428.9
5°	1228.4	1252.8	1283.9	1312.5	1353.3	1394.8	1440.5	1487.4	1514.8	1513.6
7.5°	1191.9	1226.6	1264.4	1302.8	1350.9	1410.6	1480.7	1553.8	1591.0	1592.8
10°	1211.4	1248.5	1274.1	1306.4	1357.0	1432.0	1516.0	1603.8	1646.4	1655.0
12.5°	1272.9	1269.9	1268.0	1291.2	1352.1	1447.2	1550.2	1655.0	1703.1	1713.5
15°	1331.4	1268.7	1230.9	1246.7	1330.2	1456.9	1583.7	1711.0	1765.3	1776.2
17.5°	1342.4	1247.3	1177.2	1188.2	1295.5	1460.0	1616.0	1765.9	1824.4	1834.7
20°	1311.9	1219.9	1138.3	1123.0	1251.6	1452.1	1636.1	1811.6	1875.6	1886.5
22.5°	1273.5	1195.5	1109.0	1069.4	1198.0	1444.1	1658.6	1859.7	1933.4	1943.2
25°	1233.3	1164.5	1081.6	1021.3	1137.0	1439.3	1696.4	1923.1	2012.0	2023.6
27.5°	1190.7	1126.7	1057.8	998.1	1081.0	1445.4	1750.0	2025.5	2126.6	2143.1
30°	1145.0	1088.9	1042.6	990.2	1042.6	1450.8	1809.1	2130.3	2249.1	2272.2
32.5°	1097.4	1054.2	1026.7	993.8	1018.8	1438.0	1860.9	2247.9	2395.3	2415.4
35°	1049.9	1018.8	1006.6	1000.5	987.1	1391.1	1903.0	2366.7	2562.3	2580.0
37.5°	1005.4	982.3	978.6	985.3	938.4	1314.4	1951.7	2517.8	2726.2	2753.0
40°	964.0	942.7	942.0	940.8	884.8	1209.5	2017.5	2671.4	2887.7	2899.9
42.5°	925.6	898.8	903.7	889.0	840.9	1096.2	2079.7	2802.4	3038.2	3046.7
45°	891.5	856.1	861.6	843.3	820.2	977.4	2134.5	2957.1	3228.9	3234.4
47.5°	858.6	820.8	805.6	804.3	816.5	867.7	2188.1	3255.1	3527.5	3537.2
50°	828.1	787.3	744.0	770.8	794.0	785.4	2255.2	3574.4	3835.8	3833.4
52.5°	798.8	745.2	683.7	735.5	735.5	724.5	2236.3	3768.2	4090.5	4132.6
55°	765.3	677.6	620.9	676.4	649.6	669.7	1901.8	3831.5	4250.8	4310.5
57.5°	698.9	594.1	544.8	574.6	534.4	620.9	1366.1	3517.1	3978.4	4084.4
60°	634.9	532.6	500.3	494.8	442.4	506.4	885.4	2753.6	3274.6	3328.2
62.5°	560.0	479.6	452.1	410.1	355.9	368.7	536.2	1812.2	2200.3	2212.5
65°	503.3	434.5	382.1	332.1	291.3	267.5	316.9	873.8	1099.9	1085.2
67.5°	432.0	372.3	322.3	286.4	252.9	223.0	210.8	259.6	293.7	284.0
70°	384.5	327.2	279.1	245.0	213.9	184.0	162.7	152.9	149.9	147.5
72.5°	331.5	281.5	231.6	198.6	169.4	142.0	122.5	110.9	107.9	105.4
75°	264.5	217.5	171.8	140.8	115.2	95.7	82.9	73.1	71.3	68.9
77.5°	174.9	139.5	102.4	83.5	68.2	57.9	49.4	43.3	42.0	40.8
80°	96.3	80.4	62.8	50.6	40.8	35.3	32.3	28.6	28.0	27.4
82.5°	57.3	48.1	36.0	28.6	23.8	21.3	19.5	17.7	17.1	16.5
85°	28.6	22.5	15.8	13.4	12.2	11.0	11.0	9.1	8.5	8.5
87.5°	7.3	6.1	3.7	3.0	3.0	3.0	2.4	1.8	1.8	1.2
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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