

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: P631774

Luminaire Tested: GWS-SA2B-735-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631774
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-SA2B-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5325.5 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

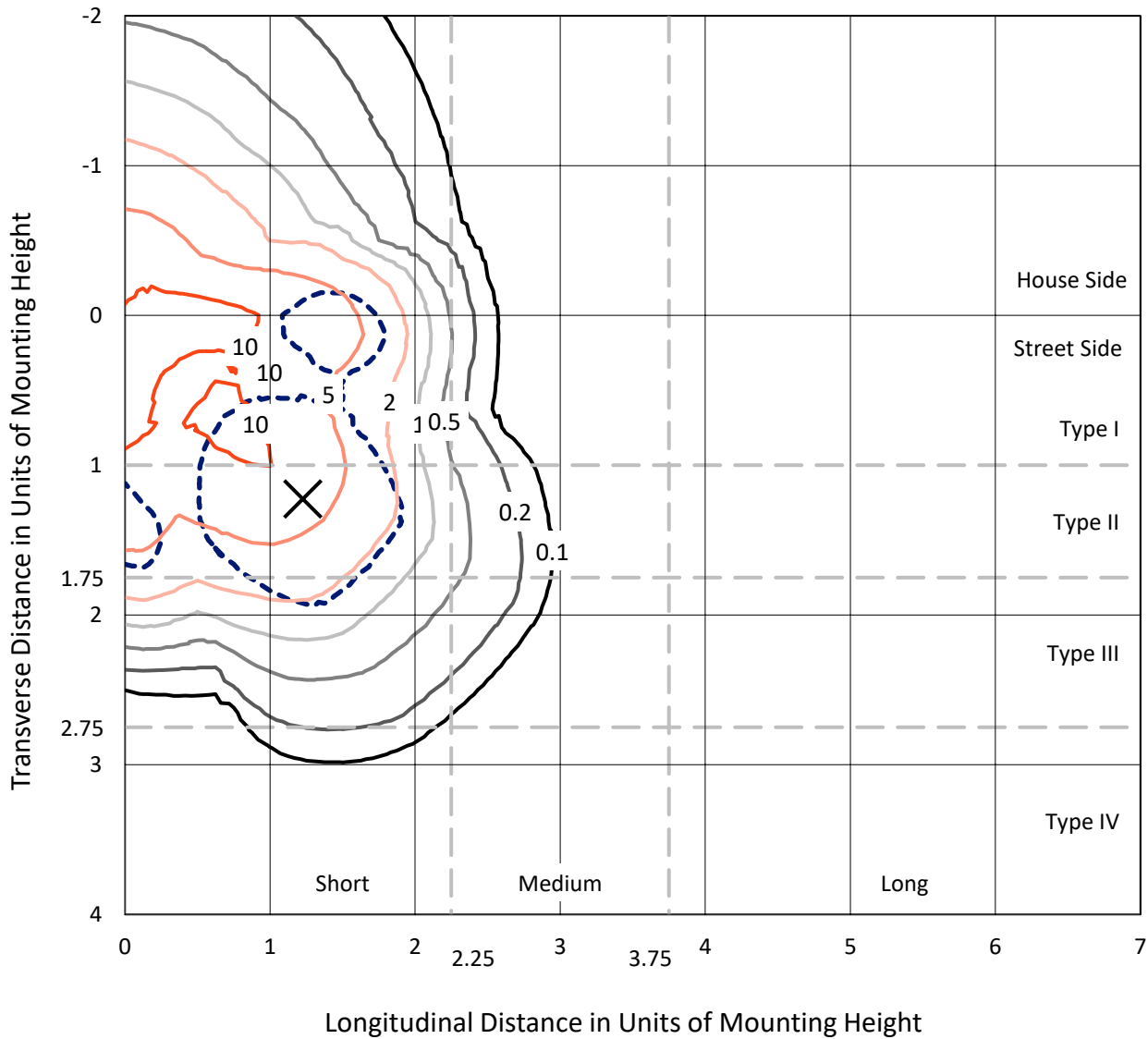
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

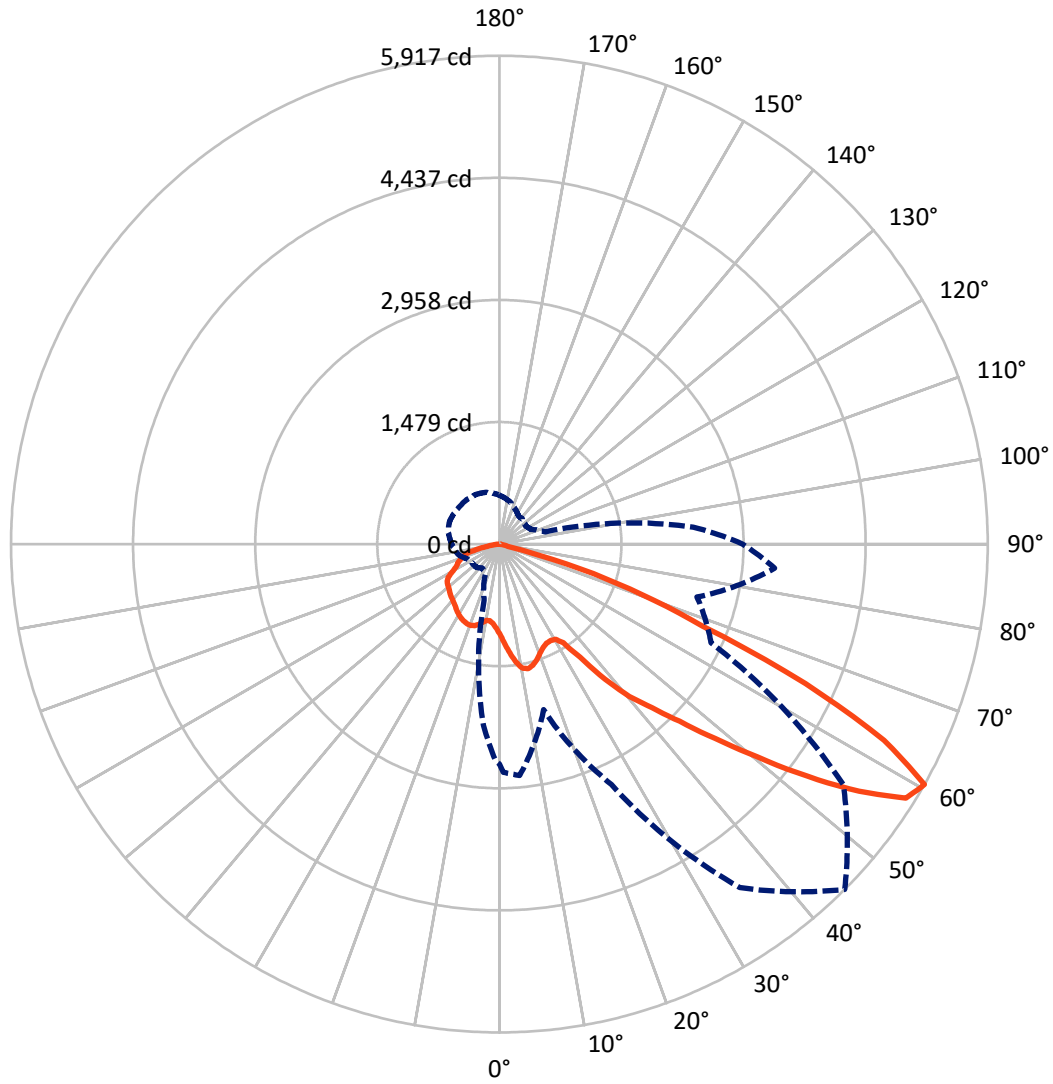
✕ Max cd
 - - - 1/2 Max cd



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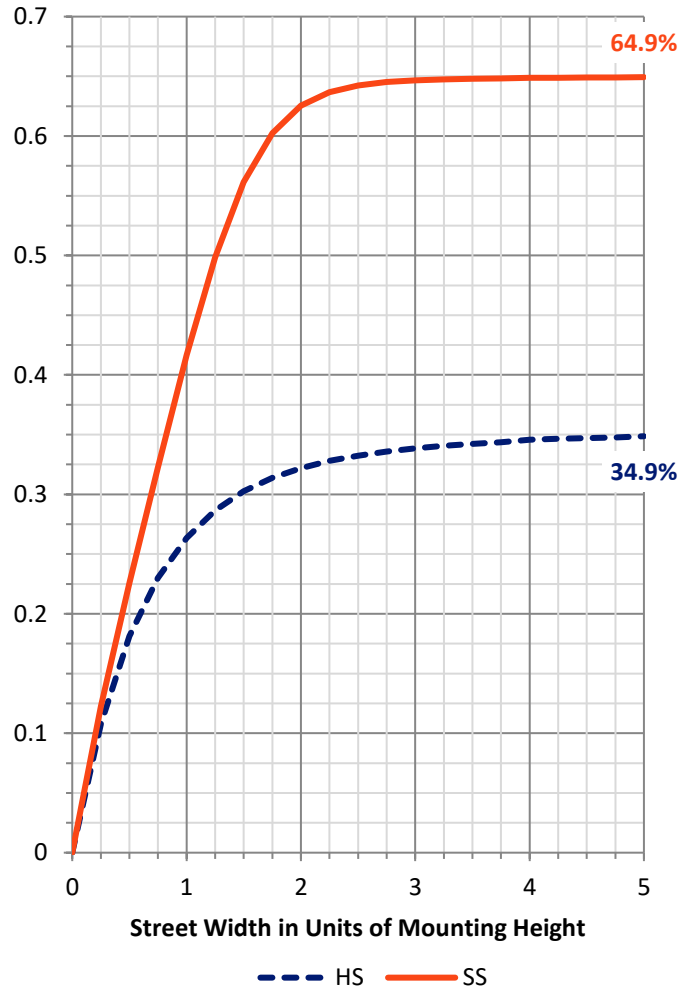
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1866.8	0.0	1866.8
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	3458.7	0.0	3458.7
	% Fixture	64.9	0.0	64.9
Total	Lumens	5325.5	0.0	5325.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	2.0
10°-20°	337.3	6.3
20°-30°	547.9	10.3
30°-40°	772.7	14.5
40°-50°	1067.8	20.1
50°-60°	1374.6	25.8
60°-70°	871.0	16.4
70°-80°	223.5	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°	5325.5	100.0
0°-180°	5325.5	100.0

Coefficient of Utilization



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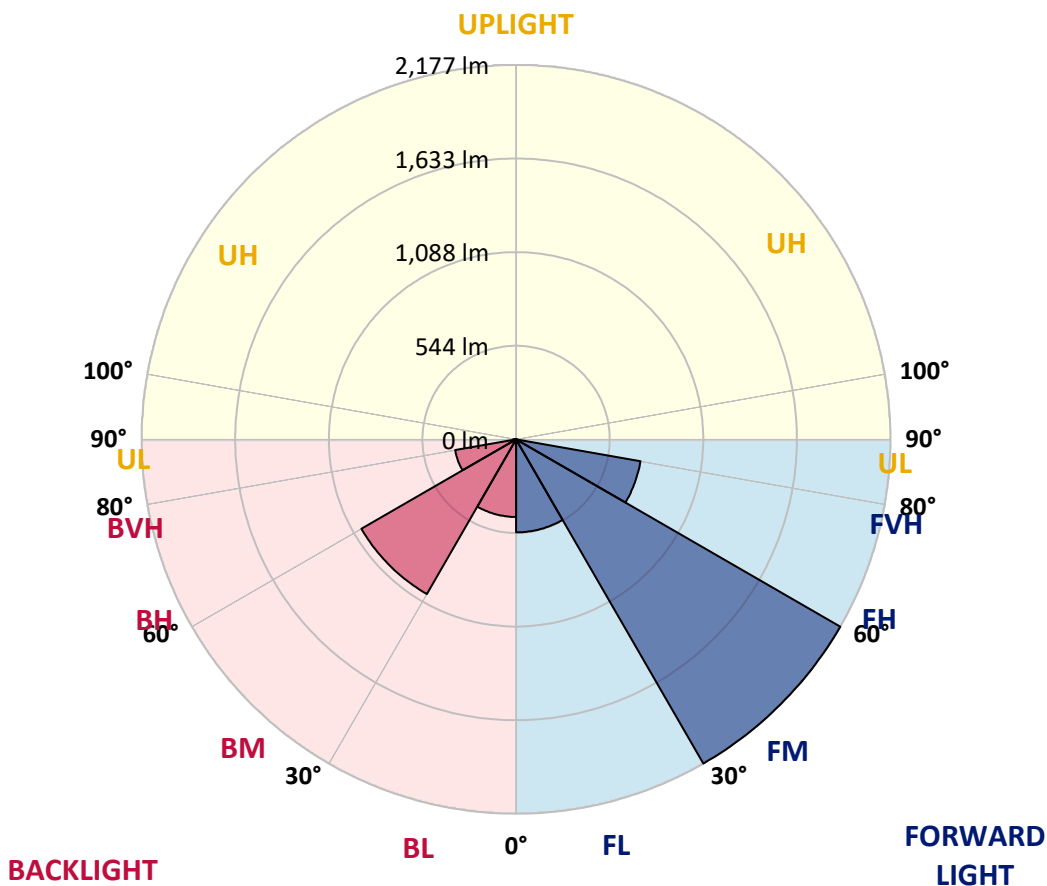
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	540.7	10.2			
FM (30°-60°)	2176.8	40.9			
FH (60°-80°)	734.7	13.8			G1/1800
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	451.2	8.5	B1/500		
BM (30°-60°)	1038.4	19.5	B2/2500		
BH (60°-80°)	359.7	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°	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0
2.5°	1144.3	1152.1	1157.0	1166.2	1182.8	1192.1	1202.3	1191.1	1194.0	1192.6	1174.5
5°	1212.1	1221.4	1234.1	1261.4	1292.1	1309.2	1325.3	1322.9	1307.7	1282.4	1264.3
7.5°	1275.5	1286.3	1308.2	1352.6	1398.0	1424.4	1443.9	1431.2	1418.5	1378.5	1333.1
10°	1325.3	1331.7	1361.4	1420.9	1473.6	1503.4	1527.3	1524.4	1506.8	1461.9	1400.9
12.5°	1372.2	1376.5	1408.8	1468.3	1515.6	1528.8	1548.3	1554.7	1548.8	1515.1	1455.1
15°	1422.4	1430.7	1460.5	1505.9	1527.3	1513.7	1520.5	1538.1	1554.7	1554.7	1499.5
17.5°	1469.3	1476.6	1506.8	1526.3	1505.9	1469.7	1471.7	1494.1	1533.7	1575.1	1540.0
20°	1510.7	1517.6	1547.3	1528.8	1463.9	1411.2	1409.7	1437.1	1501.0	1588.3	1583.4
22.5°	1556.1	1565.9	1590.8	1530.7	1424.9	1358.0	1357.5	1385.8	1472.2	1601.5	1633.2
25°	1620.5	1635.7	1648.3	1547.8	1403.9	1323.4	1329.7	1356.5	1462.9	1623.0	1706.9
27.5°	1716.2	1728.4	1727.4	1583.4	1402.9	1309.2	1322.4	1353.6	1479.5	1661.0	1784.5
30°	1819.6	1826.0	1815.7	1633.2	1425.3	1318.0	1337.5	1374.6	1521.5	1724.0	1898.7
32.5°	1934.3	1942.1	1922.6	1707.9	1477.6	1382.9	1425.8	1443.9	1580.5	1814.7	2019.7
35°	2066.0	2081.2	2040.7	1806.4	1631.3	1619.6	1682.0	1658.6	1705.9	1922.1	2149.0
37.5°	2204.6	2205.1	2147.0	1952.3	1932.8	1952.8	2077.7	2004.6	1971.9	2041.6	2280.7
40°	2322.2	2319.3	2230.0	2149.0	2195.3	2274.9	2425.7	2313.4	2227.6	2202.2	2390.0
42.5°	2439.8	2429.1	2338.8	2273.9	2376.4	2539.8	2710.1	2572.5	2391.5	2348.1	2497.9
45°	2590.1	2586.7	2477.9	2323.7	2539.8	2836.5	3062.5	2839.5	2488.6	2433.0	2677.5
47.5°	2832.6	2816.0	2613.5	2319.8	2693.1	3231.8	3517.2	3175.7	2556.4	2434.9	2967.3
50°	3069.8	3049.3	2775.5	2319.3	2851.2	3641.7	4054.0	3584.1	2625.7	2446.6	3262.0
52.5°	3309.4	3309.4	3041.5	2374.4	3017.1	4099.4	4674.2	4093.0	2743.8	2599.9	3624.6
55°	3451.9	3489.9	3340.6	2467.6	3211.3	4638.1	5287.6	4642.5	2926.3	2876.5	3959.3
57.5°	3270.8	3342.1	3320.6	2402.7	3326.0	5033.8	5807.7	5059.2	3016.6	2909.2	3909.1
60°	2665.3	2764.3	2813.6	2074.8	3212.8	5079.7	5916.6	5086.5	2830.2	2477.4	3348.4
62.5°	1771.8	1853.3	1928.4	1482.4	2781.4	4569.8	5232.9	4571.2	2363.7	1848.9	2319.8
65°	869.1	929.6	1010.6	876.4	2172.9	3818.3	4079.9	3693.9	1709.8	1035.0	1183.3
67.5°	227.4	244.5	255.7	340.1	1556.6	2743.3	2660.9	2701.9	1098.4	338.2	309.4
70°	118.1	119.1	118.6	140.5	1052.0	1743.5	1833.8	1696.6	766.6	141.5	122.0
72.5°	84.4	84.9	83.4	94.7	508.0	998.9	1035.0	1023.7	401.6	83.9	83.4
75°	55.1	55.6	54.7	55.6	76.6	113.7	104.9	110.3	66.9	53.2	53.2
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	22.4	20.5	20.5	19.5	19.0	17.6	17.1	17.1
82.5°	13.2	13.7	13.2	13.2	12.2	12.2	11.2	10.7	9.3	9.3	8.8
85°	6.8	6.8	6.3	6.3	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°	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0
2.5°	1169.6	1159.9	1145.2	1131.1	1117.9	1104.3	1088.6	1072.5	1058.9	1044.7	1037.4
5°	1240.4	1220.4	1182.3	1148.7	1118.4	1093.5	1066.7	1043.8	1022.3	1004.7	995.9
7.5°	1304.3	1273.1	1215.5	1162.3	1121.3	1087.2	1050.1	1015.9	987.1	965.7	957.4
10°	1363.4	1326.3	1250.7	1183.3	1135.5	1097.4	1052.0	1005.7	967.6	939.3	932.5
12.5°	1411.2	1368.7	1278.5	1200.4	1143.8	1102.8	1062.8	1022.8	985.2	948.6	942.7
15°	1453.6	1403.4	1299.4	1211.1	1140.9	1088.6	1055.0	1050.1	1050.1	1008.6	996.9
17.5°	1490.2	1435.1	1316.5	1216.0	1122.3	1046.7	1026.2	1068.6	1116.5	1086.7	1060.3
20°	1532.2	1465.4	1330.7	1216.0	1088.2	993.5	991.5	1063.8	1134.5	1135.0	1107.2
22.5°	1574.7	1500.5	1347.3	1211.6	1041.3	932.0	968.1	1044.2	1107.2	1134.0	1115.0
25°	1643.5	1549.3	1373.6	1208.2	986.7	890.0	947.1	1018.4	1071.6	1099.9	1087.7
27.5°	1730.8	1613.7	1413.6	1213.6	932.5	865.2	924.7	984.7	1033.0	1057.9	1049.1
30°	1828.4	1687.9	1456.6	1222.8	893.5	852.5	897.9	946.2	989.1	1014.0	1010.1
32.5°	1952.8	1768.4	1493.7	1210.1	871.5	846.1	869.6	904.2	945.7	961.3	964.7
35°	2101.7	1857.2	1522.0	1160.4	851.5	839.3	838.8	860.3	889.6	914.4	916.9
37.5°	2238.8	1961.1	1553.2	1075.0	815.4	822.2	802.7	815.4	844.2	869.1	878.8
40°	2374.4	2066.5	1596.6	966.2	768.1	784.2	761.2	770.0	792.9	825.6	841.2
42.5°	2506.2	2161.7	1642.5	854.9	720.7	731.0	713.9	722.7	746.6	787.6	805.1
45°	2649.6	2290.5	1678.1	750.0	679.7	675.3	661.7	674.4	710.5	755.4	776.3
47.5°	2920.9	2493.5	1701.5	680.2	657.8	626.1	610.4	637.8	678.8	724.1	749.5
50°	3252.3	2787.2	1694.7	635.8	638.7	575.3	569.9	606.1	650.0	697.3	725.1
52.5°	3514.8	3075.6	1617.1	593.4	601.7	543.1	527.5	580.2	622.2	670.5	699.3
55°	3715.4	3172.7	1379.0	543.1	541.2	519.7	487.0	553.4	594.3	639.2	670.5
57.5°	3551.9	2956.6	1022.3	473.8	462.1	473.3	441.6	508.0	560.2	604.6	632.4
60°	2947.8	2357.4	569.5	419.6	386.5	413.8	408.9	460.1	523.1	569.9	593.9
62.5°	2001.1	1569.8	337.7	331.8	313.3	352.3	378.2	411.8	473.8	511.9	534.3
65°	997.4	762.7	224.5	248.4	250.8	289.9	338.6	375.7	427.5	466.5	488.9
67.5°	289.4	237.2	170.8	189.8	216.2	247.4	286.4	330.4	380.6	427.0	453.3
70°	124.9	126.4	135.7	158.1	184.0	216.2	255.2	298.1	340.6	376.2	396.2
72.5°	88.3	91.7	102.0	124.9	149.3	180.1	219.1	260.6	291.3	327.4	348.4
75°	56.6	59.0	67.3	84.9	103.0	132.7	169.8	207.9	239.6	265.5	285.5
77.5°	31.2	31.7	38.5	48.8	61.0	80.0	107.4	137.1	160.5	175.2	193.2
80°	18.1	18.1	21.5	27.8	35.1	46.8	62.0	76.6	90.8	100.0	108.8
82.5°	9.8	9.8	11.2	15.1	19.0	25.9	34.6	42.0	50.7	55.6	61.5
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°	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0
2.5°	1035.9	1029.1	1025.2	1020.3	1021.8	1017.4	1015.0	1016.4	1007.6	1016.4	1025.2
5°	992.5	982.8	975.0	968.6	965.7	959.8	956.4	956.4	951.0	959.8	970.6
7.5°	954.5	946.6	942.7	938.8	934.4	929.1	923.2	921.3	917.9	927.1	936.4
10°	929.1	930.1	932.5	937.9	936.9	933.5	924.7	919.8	919.8	930.5	944.7
12.5°	940.8	951.0	956.9	966.7	968.6	965.7	956.9	953.0	962.8	978.9	1002.3
15°	986.2	993.0	997.9	1005.7	1005.2	1002.8	995.9	998.9	1031.1	1062.3	1083.3
17.5°	1035.5	1027.7	1026.7	1031.6	1033.0	1030.1	1026.2	1039.4	1092.5	1121.8	1132.6
20°	1071.1	1044.2	1038.4	1040.3	1044.2	1042.8	1042.8	1064.2	1119.4	1133.1	1119.4
22.5°	1081.8	1043.8	1035.0	1035.5	1040.8	1041.3	1043.8	1066.2	1098.4	1098.9	1077.9
25°	1064.7	1028.1	1021.8	1022.8	1029.1	1028.6	1029.6	1042.3	1056.4	1050.6	1035.0
27.5°	1032.5	1000.8	998.9	1004.2	1012.5	1008.1	1005.2	1008.6	1015.5	1008.1	994.5
30°	995.9	969.1	970.1	980.3	989.1	981.8	974.5	976.4	976.9	969.1	953.5
32.5°	957.4	937.4	940.8	951.5	961.8	954.0	946.2	945.2	935.9	926.6	911.5
35°	918.8	911.0	915.4	924.2	933.0	926.6	921.8	918.8	898.8	885.2	872.5
37.5°	883.7	889.6	897.4	902.7	905.7	905.2	902.2	895.4	869.1	853.0	836.4
40°	852.5	870.5	878.8	881.3	885.7	884.7	884.2	874.4	839.8	822.7	803.7
42.5°	824.2	849.5	863.7	866.1	868.6	869.1	867.6	853.4	813.9	793.9	775.9
45°	796.8	830.0	848.1	845.6	849.1	849.1	850.5	832.0	788.5	768.1	749.0
47.5°	772.9	812.0	828.6	825.6	827.6	829.0	830.5	809.0	760.7	741.2	721.7
50°	751.0	792.5	806.6	807.6	807.6	811.0	810.5	789.5	737.3	716.3	696.8
52.5°	727.6	772.4	787.6	793.9	795.9	797.3	790.5	766.1	713.4	688.0	670.0
55°	700.2	752.0	765.6	773.9	777.8	776.8	767.6	742.7	689.0	663.6	643.1
57.5°	658.8	708.0	727.6	731.5	737.8	733.9	723.2	702.2	650.0	624.6	603.6
60°	613.4	649.0	664.6	668.0	663.1	664.6	663.1	643.1	597.8	577.7	556.3
62.5°	553.8	585.6	602.1	606.5	598.2	603.6	601.7	576.8	531.4	510.4	491.4
65°	508.9	543.6	563.1	565.5	563.1	565.5	558.7	528.5	485.5	464.1	444.5
67.5°	473.8	509.4	529.9	536.8	534.3	533.8	523.1	488.0	443.6	420.1	395.3
70°	413.3	444.5	470.9	487.5	487.5	478.2	457.7	425.0	389.4	369.4	349.9
72.5°	366.0	405.5	431.4	448.4	451.9	446.5	417.7	383.1	342.1	322.1	301.6
75°	301.6	340.1	367.9	390.4	394.8	388.9	355.7	321.6	283.5	264.0	243.5
77.5°	201.5	224.5	246.9	267.4	263.0	266.9	244.5	218.6	195.2	180.5	171.3
80°	113.7	128.8	135.7	146.9	146.9	146.9	132.2	120.0	106.9	98.6	89.3
82.5°	64.4	74.2	77.1	86.4	88.8	89.3	79.5	71.7	63.4	59.0	52.7
85°	29.8	35.1	35.6	41.0	42.9	46.8	42.5	37.1	32.2	30.3	26.4
87.5°	1.0	2.9	3.9	7.3	9.8	11.2	12.2	12.2	10.2	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°	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0	1094.0
2.5°	1035.9	1047.7	1061.3	1071.1	1088.6	1103.3	1118.4	1135.0	1147.2	1144.3
5°	983.7	1003.3	1028.1	1051.1	1083.8	1116.9	1153.5	1191.1	1213.1	1212.1
7.5°	954.5	982.3	1012.5	1043.3	1081.8	1129.6	1185.8	1244.3	1274.1	1275.5
10°	970.1	999.8	1020.3	1046.2	1086.7	1146.7	1214.1	1284.3	1318.5	1325.3
12.5°	1019.4	1016.9	1015.5	1034.0	1082.8	1158.9	1241.4	1325.3	1363.9	1372.2
15°	1066.2	1015.9	985.7	998.4	1065.2	1166.7	1268.2	1370.2	1413.6	1422.4
17.5°	1075.0	998.9	942.7	951.5	1037.4	1169.2	1294.1	1414.1	1461.0	1469.3
20°	1050.6	976.9	911.5	899.3	1002.3	1162.8	1310.2	1450.7	1502.0	1510.7
22.5°	1019.8	957.4	888.1	856.4	959.3	1156.5	1328.2	1489.3	1548.3	1556.1
25°	987.6	932.5	866.1	817.8	910.5	1152.6	1358.5	1540.0	1611.3	1620.5
27.5°	953.5	902.2	847.1	799.3	865.6	1157.4	1401.4	1622.0	1703.0	1716.2
30°	916.9	872.0	834.9	792.9	834.9	1161.8	1448.8	1705.9	1801.1	1819.6
32.5°	878.8	844.2	822.2	795.9	815.9	1151.6	1490.2	1800.1	1918.2	1934.3
35°	840.8	815.9	806.1	801.2	790.5	1114.0	1523.9	1895.2	2051.9	2066.0
37.5°	805.1	786.6	783.7	789.0	751.5	1052.5	1562.9	2016.3	2183.1	2204.6
40°	772.0	754.9	754.4	753.4	708.5	968.6	1615.6	2139.2	2312.5	2322.2
42.5°	741.2	719.7	723.6	711.9	673.4	877.8	1665.4	2244.1	2433.0	2439.8
45°	713.9	685.6	690.0	675.3	656.8	782.7	1709.3	2368.1	2585.7	2590.1
47.5°	687.5	657.3	645.1	644.1	653.9	694.9	1752.3	2606.7	2824.8	2832.6
50°	663.1	630.4	595.8	617.3	635.8	629.0	1806.0	2862.4	3071.7	3069.8
52.5°	639.7	596.8	547.5	589.0	589.0	580.2	1790.8	3017.6	3275.7	3309.4
55°	612.9	542.6	497.2	541.6	520.2	536.3	1522.9	3068.3	3404.0	3451.9
57.5°	559.7	475.8	436.2	460.1	427.9	497.2	1094.0	2816.5	3185.9	3270.8
60°	508.5	426.5	400.6	396.2	354.3	405.5	709.0	2205.1	2622.3	2665.3
62.5°	448.4	384.0	362.1	328.4	285.0	295.2	429.4	1451.2	1762.0	1771.8
65°	403.1	347.9	306.0	265.9	233.2	214.2	253.7	699.7	880.8	869.1
67.5°	346.0	298.1	258.1	229.3	202.5	178.6	168.8	207.9	235.2	227.4
70°	307.9	262.0	223.5	196.2	171.3	147.4	130.3	122.5	120.0	118.1
72.5°	265.5	225.4	185.4	159.1	135.7	113.7	98.1	88.8	86.4	84.4
75°	211.8	174.2	137.6	112.7	92.2	76.6	66.4	58.6	57.1	55.1
77.5°	140.0	111.7	82.0	66.9	54.7	46.4	39.5	34.6	33.7	32.7
80°	77.1	64.4	50.3	40.5	32.7	28.3	25.9	22.9	22.4	22.0
82.5°	45.9	38.5	28.8	22.9	19.0	17.1	15.6	14.2	13.7	13.2
85°	22.9	18.1	12.7	10.7	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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