

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: P631281

Luminaire Tested: GWS-SA1F-735-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7867.7 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

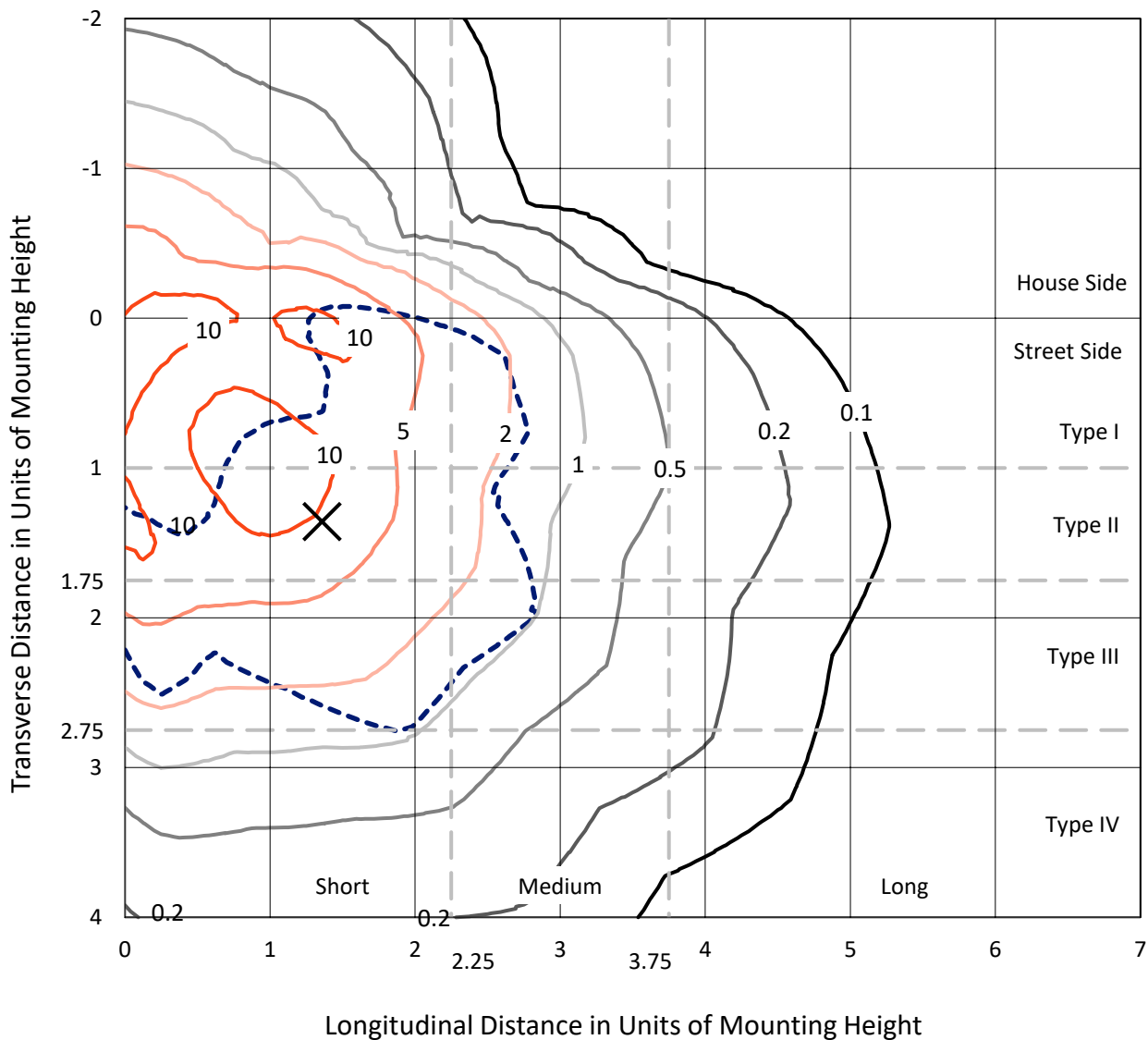
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

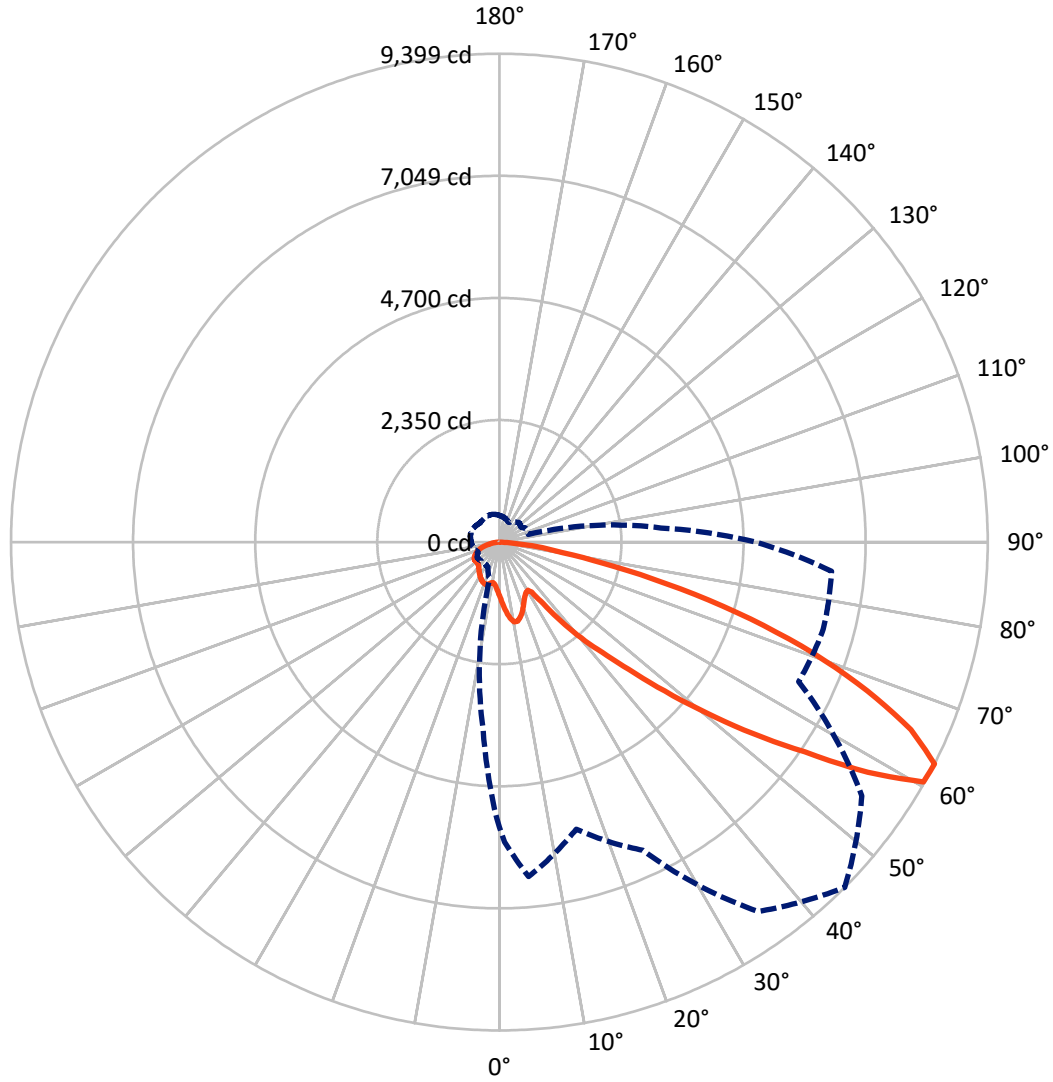
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1877.4	0.0	1877.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	5990.3	0.0	5990.3
	% Fixture	76.1	0.0	76.1
Total	Lumens	7867.7	0.0	7867.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	1.3
10°-20°	319.7	4.1
20°-30°	496.6	6.3
30°-40°	674.2	8.6
40°-50°	1068.5	13.6
50°-60°	1884.9	24.0
60°-70°	2097.2	26.7
70°-80°	1063.6	13.5
80°-90°	161.1	2.0
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°	7867.7	100.0
0°-180°	7867.7	100.0

Coefficient of Utilization



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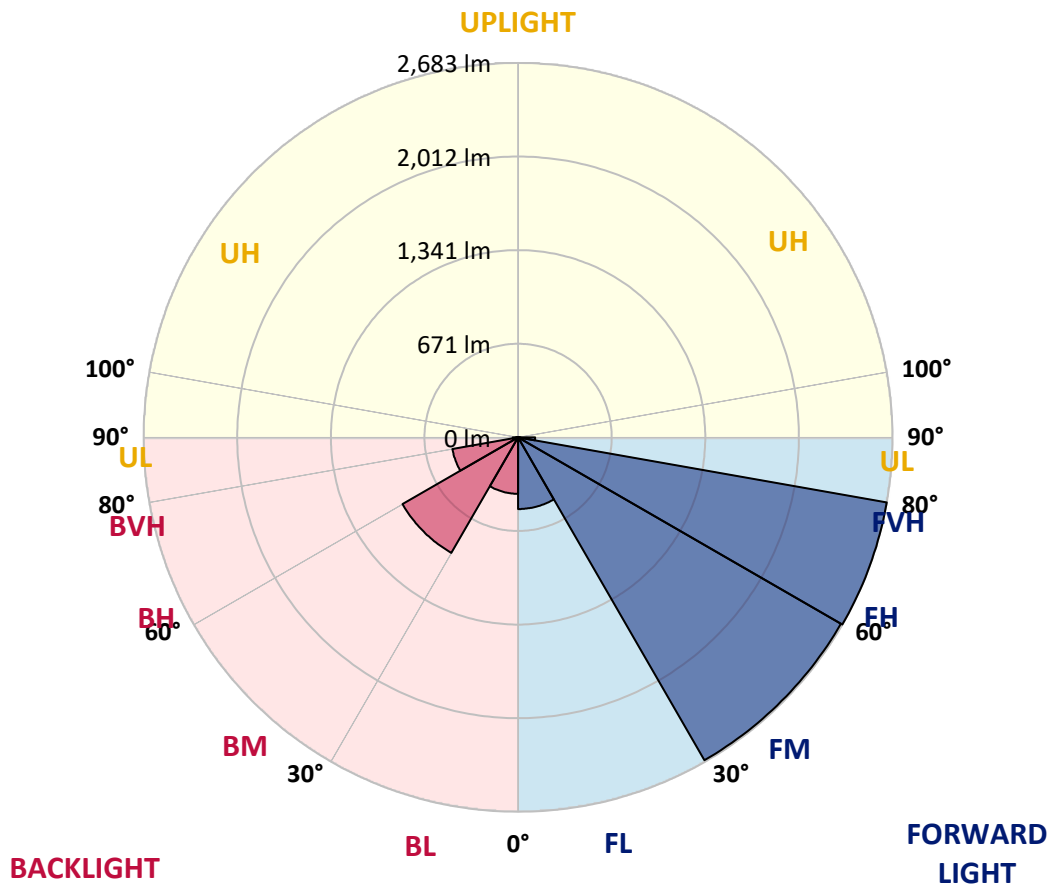
CATALOG NUMBER: GWS-SA1F-735-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.7	6.5			
FM (30°-60°)	2671.4	34.0			
FH (60°-80°)	2683.0	34.1			G2/5000
FVH (80°-90°)	122.2	1.6			G2/225
BL (0°-30°)	404.5	5.1	B1/500		
BM (30°-60°)	956.2	12.2	B1/1000		
BH (60°-80°)	477.9	6.1	B1/500		G1/500
BVH (80°-90°)	38.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2
2.5°	1122.2	1121.6	1133.0	1150.2	1166.3	1173.5	1185.4	1184.2	1174.7	1162.1	1158.0
5°	1210.4	1212.8	1232.4	1270.6	1312.9	1330.7	1338.5	1335.5	1318.2	1296.2	1257.5
7.5°	1290.2	1294.4	1324.8	1381.9	1434.4	1458.2	1477.3	1473.7	1448.7	1407.6	1350.4
10°	1348.6	1353.4	1389.7	1457.0	1515.4	1536.2	1560.6	1561.8	1539.8	1484.4	1426.0
12.5°	1407.0	1411.7	1445.7	1507.0	1545.2	1545.8	1560.1	1567.8	1569.0	1543.4	1485.0
15°	1467.7	1471.9	1502.9	1537.4	1535.6	1502.3	1502.3	1517.2	1549.9	1568.4	1527.9
17.5°	1519.5	1524.9	1548.7	1537.4	1484.4	1424.2	1417.1	1436.2	1493.3	1564.2	1560.1
20°	1562.4	1566.6	1579.7	1504.7	1408.2	1329.5	1315.8	1337.9	1415.3	1538.6	1584.5
22.5°	1603.5	1605.9	1598.8	1461.8	1326.0	1236.0	1219.3	1242.6	1326.0	1493.3	1605.3
25°	1652.4	1650.0	1616.0	1417.1	1250.9	1162.1	1144.9	1171.1	1258.0	1433.2	1628.0
27.5°	1709.0	1700.0	1630.9	1368.8	1193.1	1107.3	1095.4	1123.4	1204.4	1377.8	1645.8
30°	1757.2	1739.9	1633.3	1326.0	1163.3	1084.1	1077.0	1103.2	1178.2	1340.3	1668.5
32.5°	1810.8	1787.0	1647.0	1314.6	1180.0	1140.1	1149.6	1151.4	1185.4	1329.5	1702.4
35°	1887.7	1856.7	1684.5	1347.4	1351.6	1418.9	1453.4	1407.0	1293.2	1353.4	1766.7
37.5°	2003.8	1964.5	1760.8	1489.2	1706.0	1856.7	1940.1	1834.1	1620.8	1443.3	1863.8
40°	2145.0	2095.0	1858.5	1751.3	2037.2	2278.4	2426.7	2271.3	1958.0	1667.9	2000.3
42.5°	2342.2	2289.7	2047.9	2008.6	2344.0	2703.1	2896.7	2665.0	2255.2	1958.0	2218.9
45°	2685.9	2635.2	2395.2	2266.5	2703.1	3226.1	3497.8	3175.5	2557.2	2249.2	2627.5
47.5°	3320.8	3261.3	2911.0	2552.4	3113.0	3905.2	4285.2	3815.8	2871.1	2582.8	3313.7
50°	4083.3	4026.1	3558.5	2890.8	3565.7	4631.3	5159.7	4568.2	3232.7	2988.5	4133.9
52.5°	5000.6	4989.9	4482.4	3318.5	4036.8	5405.7	6130.0	5401.5	3628.8	3534.7	5063.2
55°	5827.4	5932.2	5655.9	3970.7	4645.6	6378.4	7127.8	6310.5	4166.1	4437.7	6151.5
57.5°	6273.0	6554.7	6979.4	5301.4	5530.8	7541.1	8359.0	7420.2	5089.4	5941.2	7160.5
60°	5978.7	6298.0	7067.6	6303.3	6408.8	8472.8	9375.2	8353.0	5996.0	6984.8	7103.3
62.5°	5489.1	5775.6	6460.0	5718.4	6544.6	8677.7	9399.0	8515.7	6356.4	6455.2	6416.5
65°	4908.3	5197.2	5922.1	4991.7	6112.7	8191.0	8705.7	8037.3	5708.9	5832.2	5846.5
67.5°	4136.9	4403.8	5141.8	4438.3	5571.9	7476.8	7641.2	7355.9	5257.4	5453.9	5248.4
70°	3090.9	3331.6	3983.2	3606.8	4696.8	6546.4	6413.5	6455.8	4750.4	4945.8	4384.1
72.5°	2112.2	2293.3	2852.1	2834.2	3596.6	5240.7	5055.4	5456.3	3967.7	4226.9	3342.3
75°	1477.3	1618.4	2061.6	2239.1	2718.6	3884.3	3600.2	4083.9	3098.7	3468.6	2438.7
77.5°	906.6	1000.1	1302.1	1658.9	1748.9	2658.5	2236.1	3073.0	2176.0	2529.8	1626.8
80°	453.3	498.6	632.6	1043.0	1159.8	1566.6	1234.8	1784.0	1472.5	1566.6	900.1
82.5°	137.0	151.3	185.3	396.1	601.0	901.8	729.7	1036.5	804.2	734.5	354.4
85°	36.3	41.1	51.2	117.3	210.9	323.4	246.6	502.1	385.4	271.0	133.4
87.5°	3.0	3.0	2.4	2.4	1.2	0.0	0.0	35.7	72.1	41.1	23.2
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°	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2
2.5°	1137.1	1134.7	1110.3	1092.5	1071.6	1051.4	1030.5	1012.0	991.2	970.3	964.4
5°	1228.9	1212.2	1160.4	1116.9	1074.0	1036.5	1003.7	969.7	942.3	915.5	905.4
7.5°	1309.9	1280.7	1205.6	1139.5	1079.9	1033.5	985.2	935.8	897.1	859.0	849.4
10°	1383.1	1344.4	1249.7	1166.3	1100.2	1047.2	990.6	924.5	868.5	822.0	809.5
12.5°	1437.3	1395.1	1287.8	1191.9	1116.9	1057.3	1001.3	942.9	884.0	823.8	810.1
15°	1480.2	1436.2	1319.4	1211.6	1117.5	1040.6	986.4	966.2	947.7	888.7	863.7
17.5°	1514.8	1468.3	1346.8	1223.5	1101.4	990.0	942.9	972.7	1019.8	982.9	935.8
20°	1546.4	1499.3	1367.7	1231.8	1065.6	920.3	894.1	957.2	1028.1	1026.9	984.6
22.5°	1580.9	1535.0	1398.0	1236.6	1015.6	849.4	864.9	934.6	992.4	1009.7	983.4
25°	1625.0	1584.5	1440.3	1247.3	959.0	800.6	843.5	905.4	953.7	957.8	942.3
27.5°	1676.2	1645.8	1503.5	1272.3	904.2	775.6	818.4	864.3	908.4	910.2	891.7
30°	1732.2	1711.9	1561.8	1293.2	863.1	767.8	786.3	823.2	851.2	856.0	839.9
32.5°	1803.7	1785.8	1613.7	1279.5	838.7	766.0	756.5	775.6	798.8	798.8	786.3
35°	1902.0	1876.9	1668.5	1227.1	808.9	758.9	724.9	730.3	740.4	742.2	735.1
37.5°	2041.4	2000.3	1723.9	1123.4	760.1	733.3	688.6	682.0	685.6	690.4	688.6
40°	2214.1	2146.8	1804.9	998.9	701.7	683.8	651.1	638.6	635.6	645.1	648.7
42.5°	2431.5	2328.5	1891.8	882.8	648.7	627.2	607.0	596.3	591.5	607.6	617.1
45°	2778.8	2609.0	1975.2	767.8	618.9	579.0	565.3	557.5	559.9	579.0	590.9
47.5°	3378.6	3037.3	2054.5	695.1	616.5	544.4	527.8	529.5	536.1	556.4	570.6
50°	4137.5	3610.9	2107.5	664.8	623.7	523.6	501.6	511.1	521.2	540.9	557.5
52.5°	4910.1	4145.2	2044.3	648.1	623.1	524.2	477.1	505.7	510.5	530.1	548.0
55°	5441.4	4204.8	1766.2	622.5	613.5	548.0	458.1	503.3	506.3	524.2	540.3
57.5°	5643.9	4001.1	1346.8	629.6	584.9	566.5	449.7	486.7	508.1	523.6	540.3
60°	5399.1	3616.9	818.4	648.1	539.1	565.3	455.1	456.3	493.2	519.4	536.1
62.5°	4937.5	3123.7	574.8	595.7	505.7	533.7	467.6	420.5	467.0	498.6	513.5
65°	4408.5	2543.5	438.4	512.9	489.6	484.9	471.8	389.0	431.3	462.2	475.3
67.5°	3857.5	1977.0	356.2	382.4	442.6	438.4	431.3	361.0	389.0	411.0	425.9
70°	3163.6	1383.1	300.8	287.1	379.4	393.1	377.1	325.8	334.8	357.4	369.3
72.5°	2314.2	861.9	247.2	237.1	305.0	343.7	335.4	287.1	291.3	312.7	322.3
75°	1664.3	493.2	198.4	195.4	232.9	294.3	277.6	247.2	252.0	268.1	274.6
77.5°	1057.9	274.6	153.1	157.3	166.8	219.8	237.1	211.5	211.5	221.0	226.4
80°	566.5	157.3	112.0	113.8	116.8	168.0	187.0	163.8	163.8	157.3	163.8
82.5°	231.1	90.5	76.8	71.5	78.0	115.0	131.0	104.2	109.0	98.3	100.7
85°	76.2	45.3	38.1	37.5	36.9	50.6	63.1	51.8	61.9	39.3	41.1
87.5°	10.1	8.3	4.8	3.6	4.2	1.8	3.6	4.2	4.2	3.0	3.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2
2.5°	960.2	955.5	938.2	942.3	939.4	934.6	939.4	930.4	937.6	940.0	954.9
5°	897.7	886.4	869.7	861.3	859.5	854.8	855.4	851.2	852.4	862.5	879.2
7.5°	841.7	831.0	817.9	811.9	806.5	801.2	800.6	800.0	804.7	813.7	829.8
10°	801.2	795.2	789.9	792.2	789.9	787.5	783.3	783.3	791.0	807.1	826.8
12.5°	801.2	800.0	801.2	808.3	807.7	808.3	803.0	805.9	827.4	854.8	882.8
15°	844.1	834.5	834.5	838.1	836.9	836.9	836.9	849.4	898.3	940.6	970.3
17.5°	896.5	868.5	856.6	854.8	854.2	854.2	856.6	883.4	959.6	1004.3	1021.6
20°	932.8	879.8	860.1	852.4	853.0	854.2	861.3	898.3	982.3	1004.9	1000.7
22.5°	939.4	870.9	847.0	835.7	837.5	838.7	849.4	888.7	951.3	954.9	946.5
25°	909.0	845.8	820.2	811.3	813.7	813.1	822.6	851.2	895.9	894.7	889.9
27.5°	863.7	805.9	786.9	780.9	785.1	780.3	783.3	805.3	839.9	838.7	836.9
30°	817.3	767.2	749.9	747.0	752.3	745.2	745.8	764.2	788.1	786.9	786.3
32.5°	770.8	728.5	713.0	713.0	718.4	710.6	711.8	727.9	744.0	739.2	739.2
35°	726.7	696.9	684.4	682.0	686.2	680.8	683.2	698.1	704.1	697.5	693.4
37.5°	688.0	674.9	662.4	654.0	654.6	655.2	662.4	673.7	670.1	660.6	655.2
40°	652.3	652.3	640.3	624.9	623.1	627.2	639.2	651.7	641.5	630.8	624.3
42.5°	626.6	632.0	620.7	605.2	601.6	608.8	621.9	630.8	618.9	607.0	598.0
45°	602.8	615.9	608.2	590.9	586.1	594.5	611.2	614.7	598.6	587.3	580.8
47.5°	586.1	604.0	598.6	582.0	574.8	586.7	604.0	603.4	583.2	571.2	565.9
50°	574.2	596.9	596.3	582.0	574.2	589.1	604.6	596.9	574.8	562.3	556.9
52.5°	564.7	596.3	600.4	592.1	586.7	599.8	609.4	594.5	568.9	555.8	551.6
55°	560.5	598.6	601.6	593.9	589.1	601.0	609.4	599.2	568.9	556.9	553.4
57.5°	561.7	595.7	596.3	585.5	577.2	592.1	605.2	602.2	575.4	561.7	557.5
60°	554.6	579.6	580.8	564.1	554.6	572.4	595.7	593.9	572.4	558.1	550.4
62.5°	530.7	552.8	553.4	537.9	524.2	549.8	575.4	574.8	555.2	540.9	531.9
65°	490.8	514.1	520.0	505.1	494.4	521.8	548.6	547.4	527.8	514.7	505.7
67.5°	441.4	466.4	477.7	467.6	463.4	488.4	513.5	512.9	496.8	484.3	476.5
70°	381.2	402.1	421.1	421.1	418.2	446.8	473.6	471.2	456.3	446.8	440.8
72.5°	331.2	347.3	353.2	359.2	368.1	397.9	420.5	422.3	411.6	406.8	411.6
75°	281.8	291.9	297.2	292.5	308.0	338.9	368.7	371.7	360.4	352.6	354.4
77.5°	231.7	243.0	248.4	237.7	236.5	275.8	312.1	318.7	309.2	297.2	300.8
80°	167.4	182.3	191.2	184.1	181.7	199.0	249.0	256.1	247.2	237.7	243.0
82.5°	102.5	110.8	113.2	120.3	135.2	142.4	160.2	184.1	177.5	169.2	184.1
85°	40.5	48.2	53.6	60.8	70.9	84.0	98.9	117.9	107.2	103.6	122.1
87.5°	2.4	0.6	0.0	1.2	10.1	19.7	42.3	58.4	48.8	52.4	63.1
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°	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2	1044.2
2.5°	966.8	982.3	1003.1	1020.4	1042.4	1063.3	1084.7	1106.2	1117.5	1122.2
5°	898.3	926.9	960.2	997.1	1040.0	1085.3	1131.2	1178.2	1208.0	1210.4
7.5°	857.2	898.3	944.1	990.6	1043.6	1106.2	1178.8	1251.5	1281.9	1290.2
10°	870.3	916.1	952.5	996.0	1054.3	1132.4	1218.1	1303.3	1338.5	1348.6
12.5°	922.7	931.6	942.9	982.9	1054.3	1155.0	1258.6	1359.9	1397.4	1407.0
15°	966.2	923.3	903.0	945.3	1040.0	1174.7	1301.5	1413.5	1458.8	1467.7
17.5°	969.7	895.9	851.8	889.9	1015.0	1188.4	1342.6	1473.1	1511.2	1519.5
20°	933.4	866.7	809.5	832.7	981.1	1194.3	1372.4	1516.6	1554.1	1562.4
22.5°	892.3	842.9	780.9	779.7	940.0	1200.9	1408.2	1557.7	1598.2	1603.5
25°	853.6	810.1	757.7	741.0	892.3	1213.4	1456.4	1619.6	1650.6	1652.4
27.5°	808.3	775.0	739.2	723.1	850.6	1237.2	1527.9	1693.5	1711.9	1709.0
30°	767.2	742.2	726.1	721.4	824.4	1255.1	1595.8	1766.2	1767.3	1757.2
32.5°	723.7	714.2	714.2	729.7	803.0	1250.9	1651.2	1837.0	1825.7	1810.8
35°	685.0	686.8	699.3	735.6	767.2	1209.2	1704.2	1925.8	1909.1	1887.7
37.5°	648.1	661.8	679.7	714.8	720.2	1147.3	1766.2	2051.5	2030.6	2003.8
40°	616.5	637.4	658.2	675.5	670.1	1059.1	1852.5	2199.2	2176.0	2145.0
42.5°	591.5	611.8	635.0	636.8	638.6	967.4	1944.3	2380.3	2376.1	2342.2
45°	575.4	588.5	610.6	607.6	636.8	866.1	2028.8	2656.7	2711.5	2685.9
47.5°	564.7	574.8	577.2	589.7	652.3	775.6	2137.8	3197.5	3350.0	3320.8
50°	558.7	568.9	542.1	590.9	654.6	717.2	2288.6	3876.6	4122.0	4083.3
52.5°	558.1	555.8	515.3	603.4	641.5	681.4	2367.2	4372.2	4916.6	5000.6
55°	559.3	529.5	501.6	607.0	615.3	668.3	2103.9	4610.5	5649.9	5827.4
57.5°	548.6	501.0	509.3	592.7	565.9	703.5	1555.3	4525.3	5943.0	6273.0
60°	528.4	473.6	523.6	554.0	515.3	643.3	1071.0	4145.2	5639.2	5978.7
62.5°	499.2	454.5	521.8	503.9	496.8	526.6	736.2	3613.3	5157.3	5489.1
65°	466.4	439.0	493.8	455.7	459.9	405.1	520.6	3012.9	4581.9	4908.3
67.5°	431.3	429.5	452.7	405.6	388.4	321.1	379.4	2414.8	3842.6	4136.9
70°	391.4	404.5	411.6	360.4	315.1	252.0	281.8	1688.7	2834.8	3090.9
72.5°	351.4	352.6	362.8	313.3	235.9	201.9	211.5	1022.8	1925.8	2112.2
75°	310.9	299.6	309.2	254.9	175.7	165.6	163.2	632.0	1330.1	1477.3
77.5°	267.5	254.9	242.4	191.8	141.2	128.1	125.1	354.4	816.1	906.6
80°	217.4	200.7	181.1	140.6	103.1	91.7	91.1	172.7	406.8	453.3
82.5°	169.2	137.6	132.2	87.6	63.7	56.0	59.6	66.1	122.7	137.0
85°	118.5	100.1	70.3	35.1	28.6	23.2	22.6	19.7	32.8	36.3
87.5°	66.1	43.5	22.6	4.2	4.8	5.4	4.2	3.0	3.0	3.0
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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