

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: P631336

Luminaire Tested: GWS-SA1F-740-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631336
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-740-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7977.1 lumens
Efficiency: N/A
Efficacy: 118.7 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

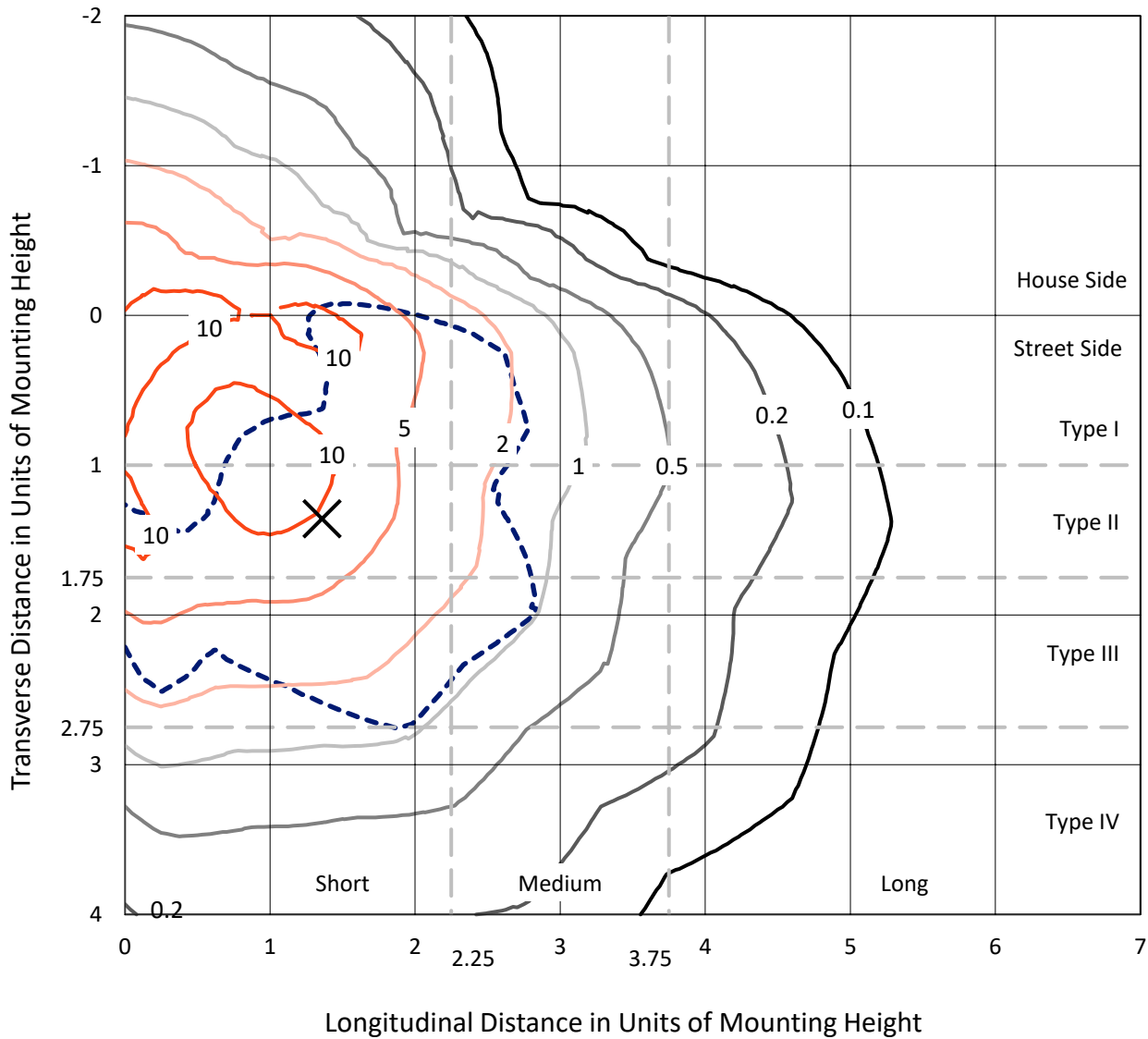
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

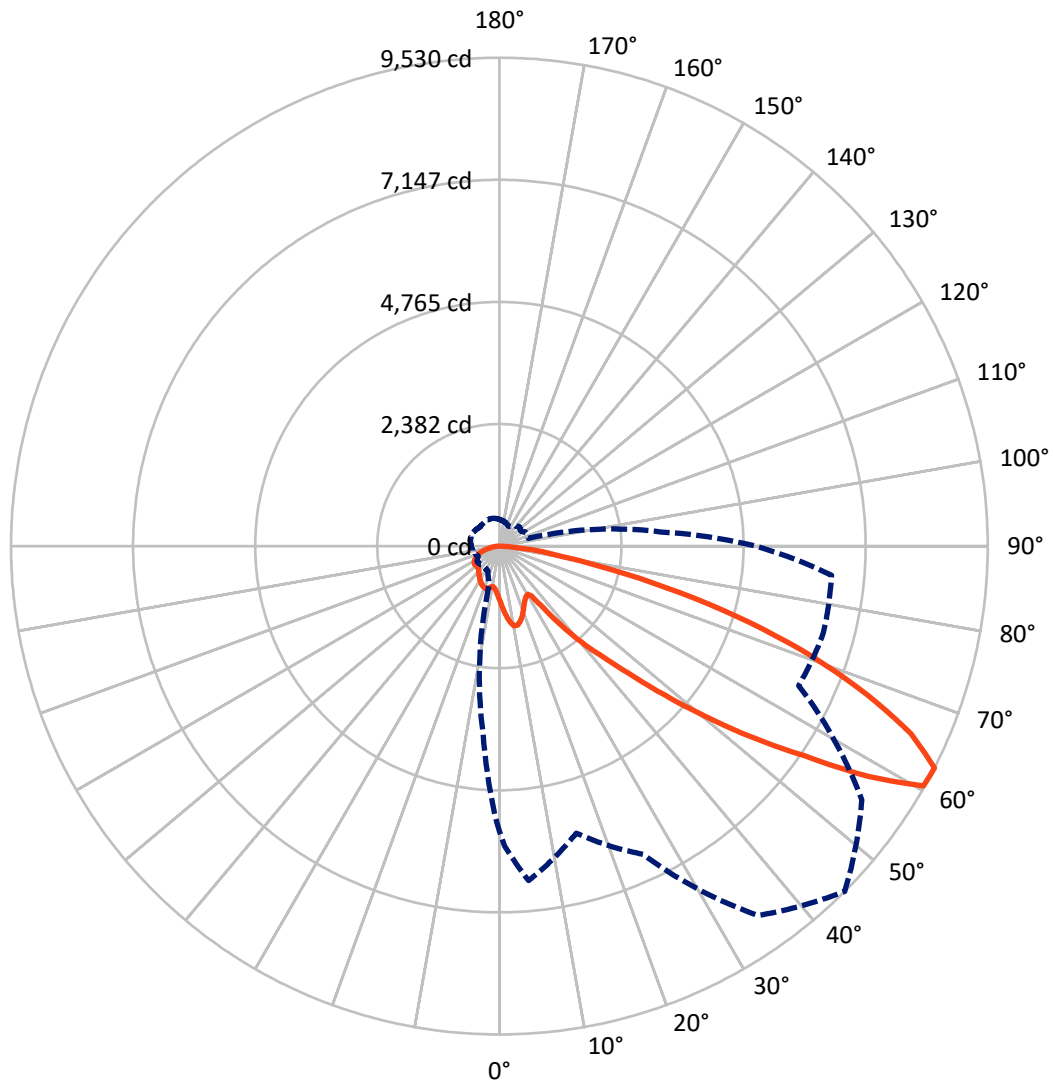
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 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	1903.5	0.0	1903.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6073.6	0.0	6073.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	7977.1	0.0	7977.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	1.3
10°-20°	324.1	4.1
20°-30°	503.5	6.3
30°-40°	683.6	8.6
40°-50°	1083.4	13.6
50°-60°	1911.1	24.0
60°-70°	2126.4	26.7
70°-80°	1078.4	13.5
80°-90°	163.3	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°	7977.1	100.0
0°-180°	7977.1	100.0

Coefficient of Utilization



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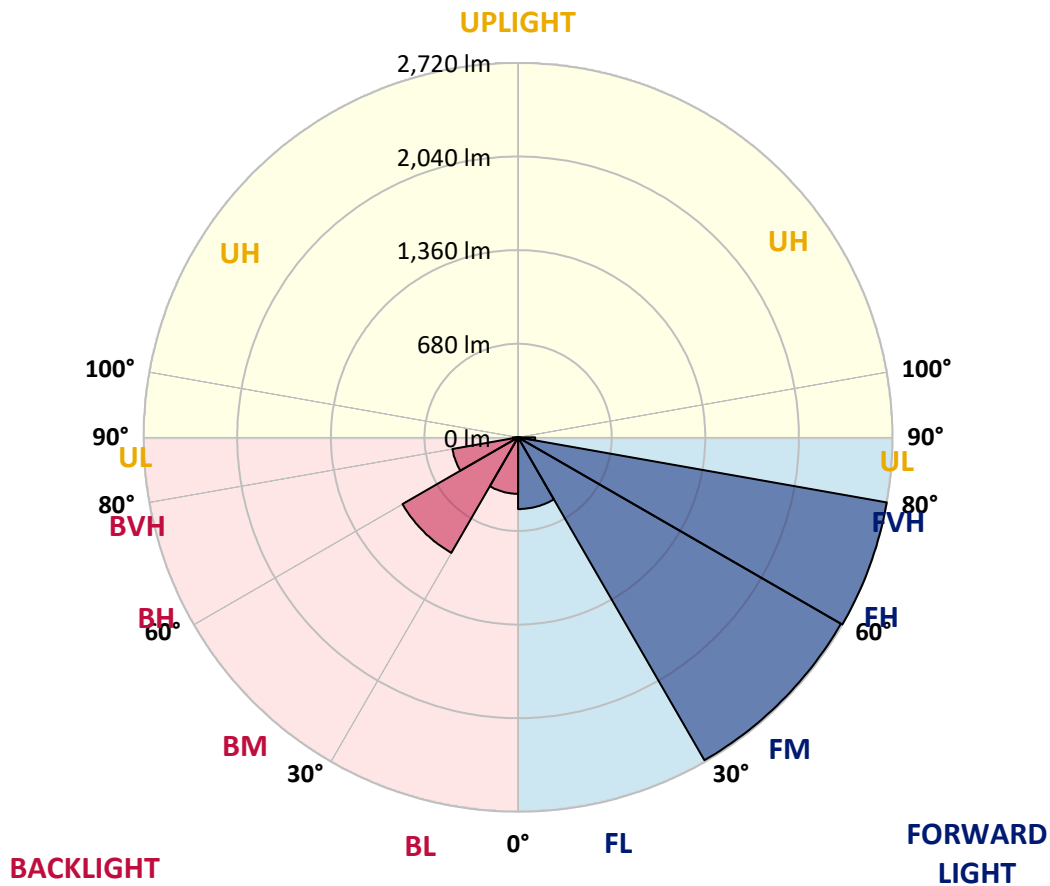
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.8	6.5			
FM (30°-60°)	2708.6	34.0			
FH (60°-80°)	2720.3	34.1			G2/5000
FVH (80°-90°)	123.9	1.6			G2/225
BL (0°-30°)	410.2	5.1	B1/500		
BM (30°-60°)	969.5	12.2	B1/1000		
BH (60°-80°)	484.5	6.1	B1/500		G1/500
BVH (80°-90°)	39.3	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°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	1137.8	1137.2	1148.7	1166.2	1182.5	1189.8	1201.9	1200.7	1191.0	1178.3	1174.1
5°	1227.2	1229.6	1249.6	1288.2	1331.1	1349.2	1357.1	1354.1	1336.5	1314.2	1274.9
7.5°	1308.2	1312.4	1343.2	1401.2	1454.3	1478.5	1497.8	1494.2	1468.8	1427.1	1369.2
10°	1367.3	1372.2	1409.0	1477.3	1536.4	1557.6	1582.3	1583.6	1561.2	1505.0	1445.9
12.5°	1426.5	1431.4	1465.8	1528.0	1566.6	1567.2	1581.7	1589.6	1590.8	1564.8	1505.6
15°	1488.1	1492.4	1523.8	1558.8	1557.0	1523.2	1523.2	1538.3	1571.5	1590.2	1549.1
17.5°	1540.7	1546.1	1570.3	1558.8	1505.0	1444.0	1436.8	1456.1	1514.1	1586.0	1581.7
20°	1584.2	1588.4	1601.7	1525.6	1427.7	1348.0	1334.1	1356.5	1435.0	1560.0	1606.5
22.5°	1625.8	1628.2	1621.0	1482.1	1344.4	1253.2	1236.3	1259.8	1344.4	1514.1	1627.6
25°	1675.4	1672.9	1638.5	1436.8	1268.3	1178.3	1160.8	1187.4	1275.5	1453.1	1650.6
27.5°	1732.7	1723.7	1653.6	1387.9	1209.7	1122.7	1110.7	1139.0	1221.2	1396.9	1668.7
30°	1781.7	1764.1	1656.0	1344.4	1179.5	1099.2	1091.9	1118.5	1194.6	1358.9	1691.7
32.5°	1836.0	1811.8	1669.9	1332.9	1196.4	1156.0	1165.6	1167.4	1201.9	1348.0	1726.1
35°	1913.9	1882.5	1708.0	1366.1	1370.4	1438.6	1473.6	1426.5	1311.2	1372.2	1791.3
37.5°	2031.7	1991.8	1785.3	1509.9	1729.7	1882.5	1967.1	1859.6	1643.3	1463.4	1889.8
40°	2174.8	2124.1	1884.3	1775.6	2065.5	2310.1	2460.5	2302.9	1985.2	1691.1	2028.1
42.5°	2374.7	2321.6	2076.4	2036.5	2376.5	2740.7	2937.0	2702.1	2286.6	1985.2	2249.7
45°	2723.2	2671.9	2428.5	2298.0	2740.7	3271.0	3546.4	3219.7	2592.8	2280.5	2664.0
47.5°	3367.0	3306.6	2951.5	2587.9	3156.2	3959.5	4344.8	3868.9	2911.0	2618.7	3359.8
50°	4140.1	4082.1	3608.0	2931.0	3615.2	4695.7	5231.4	4631.7	3277.6	3030.0	4191.4
52.5°	5070.2	5059.3	4544.7	3364.6	4093.0	5480.8	6215.2	5476.6	3679.3	3583.8	5133.6
55°	5908.4	6014.7	5734.5	4025.9	4710.2	6467.1	7226.9	6398.2	4224.0	4499.4	6237.0
57.5°	6360.2	6645.9	7076.5	5375.2	5607.7	7646.0	8475.2	7523.4	5160.1	6023.8	7260.1
60°	6061.8	6385.6	7165.9	6391.0	6497.9	8590.6	9505.6	8469.2	6079.4	7081.9	7202.1
62.5°	5565.4	5855.9	6549.8	5797.9	6635.6	8798.3	9529.7	8634.1	6444.7	6545.0	6505.7
65°	4976.5	5269.5	6004.5	5061.1	6197.7	8304.9	8826.7	8149.1	5788.3	5913.3	5927.8
67.5°	4194.4	4465.0	5213.3	4500.0	5649.3	7580.8	7747.5	7458.2	5330.5	5529.8	5321.4
70°	3133.9	3377.9	4038.6	3656.9	4762.1	6637.4	6502.7	6545.6	4816.5	5014.6	4445.1
72.5°	2141.6	2325.2	2891.7	2873.6	3646.6	5313.6	5125.7	5532.2	4022.9	4285.6	3388.8
75°	1497.8	1640.9	2090.3	2270.2	2756.4	3938.4	3650.3	4140.7	3141.7	3516.8	2472.6
77.5°	919.2	1014.0	1320.2	1682.0	1773.2	2695.4	2267.2	3115.8	2206.2	2565.0	1649.4
80°	459.6	505.5	641.4	1057.5	1175.9	1588.4	1252.0	1808.8	1493.0	1588.4	912.6
82.5°	138.9	153.4	187.8	401.6	609.4	914.4	739.8	1050.9	815.3	744.7	359.4
85°	36.8	41.7	51.9	119.0	213.8	327.9	250.0	509.1	390.8	274.8	135.3
87.5°	3.0	3.0	2.4	2.4	1.2	0.0	0.0	36.2	73.1	41.7	23.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	1152.9	1150.5	1125.8	1107.6	1086.5	1066.0	1044.8	1026.1	1005.0	983.8	977.8
5°	1245.9	1229.0	1176.5	1132.4	1088.9	1050.9	1017.7	983.2	955.4	928.3	918.0
7.5°	1328.1	1298.5	1222.4	1155.4	1095.0	1047.9	998.9	948.8	909.5	870.9	861.2
10°	1402.4	1363.1	1267.1	1182.5	1115.5	1061.7	1004.4	937.3	880.6	833.5	820.8
12.5°	1457.3	1414.5	1305.7	1208.5	1132.4	1072.0	1015.2	956.1	896.3	835.3	821.4
15°	1500.8	1456.1	1337.7	1228.4	1133.0	1055.1	1000.1	979.6	960.9	901.1	875.7
17.5°	1535.8	1488.7	1365.5	1240.5	1116.7	1003.8	956.1	986.3	1034.0	996.5	948.8
20°	1567.9	1520.1	1386.7	1249.0	1080.5	933.1	906.5	970.5	1042.4	1041.2	998.3
22.5°	1602.9	1556.4	1417.5	1253.8	1029.7	861.2	876.9	947.6	1006.2	1023.7	997.1
25°	1647.6	1606.5	1460.4	1264.7	972.4	811.7	855.2	918.0	966.9	971.2	955.4
27.5°	1699.5	1668.7	1524.4	1290.0	916.8	786.3	829.8	876.3	921.0	922.8	904.1
30°	1756.3	1735.8	1583.6	1311.2	875.1	778.5	797.2	834.7	863.0	867.9	851.6
32.5°	1828.8	1810.6	1636.1	1297.3	850.4	776.7	767.0	786.3	809.9	809.9	797.2
35°	1928.4	1903.0	1691.7	1244.1	820.2	769.4	735.0	740.4	750.7	752.5	745.3
37.5°	2069.7	2028.1	1747.8	1139.0	770.6	743.5	698.2	691.5	695.1	700.0	698.2
40°	2244.9	2176.6	1830.0	1012.8	711.5	693.3	660.1	647.4	644.4	654.1	657.7
42.5°	2465.3	2360.8	1918.1	895.1	657.7	636.0	615.4	604.6	599.7	616.0	625.7
45°	2817.4	2645.3	2002.7	778.5	627.5	587.0	573.1	565.3	567.7	587.0	599.1
47.5°	3425.6	3079.5	2083.0	704.8	625.1	552.0	535.1	536.9	543.6	564.1	578.6
50°	4195.0	3661.1	2136.8	674.0	632.3	530.9	508.5	518.2	528.5	548.4	565.3
52.5°	4978.4	4202.9	2072.8	657.1	631.7	531.5	483.8	512.8	517.6	537.5	555.6
55°	5517.1	4263.3	1790.7	631.1	622.1	555.6	464.4	510.3	513.4	531.5	547.8
57.5°	5722.4	4056.7	1365.5	638.4	593.1	574.4	456.0	493.4	515.2	530.9	547.8
60°	5474.2	3667.2	829.8	657.1	546.6	573.1	461.4	462.6	500.1	526.6	543.6
62.5°	5006.1	3167.1	582.8	603.9	512.8	541.1	474.1	426.4	473.5	505.5	520.6
65°	4469.8	2578.9	444.5	520.0	496.4	491.6	478.3	394.4	437.3	468.7	482.0
67.5°	3911.2	2004.5	361.2	387.7	448.7	444.5	437.3	366.0	394.4	416.7	431.8
70°	3207.6	1402.4	305.0	291.1	384.7	398.6	382.3	330.4	339.4	362.4	374.4
72.5°	2346.3	873.9	250.6	240.4	309.2	348.5	340.0	291.1	295.3	317.1	326.7
75°	1687.4	500.1	201.1	198.1	236.1	298.4	281.4	250.6	255.5	271.8	278.4
77.5°	1072.6	278.4	155.2	159.4	169.1	222.9	240.4	214.4	214.4	224.1	229.5
80°	574.4	159.4	113.5	115.4	118.4	170.3	189.6	166.1	166.1	159.4	166.1
82.5°	234.3	91.8	77.9	72.5	79.1	116.6	132.9	105.7	110.5	99.7	102.1
85°	77.3	45.9	38.7	38.0	37.4	51.3	64.0	52.5	62.8	39.9	41.7
87.5°	10.3	8.5	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°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	973.6	968.7	951.2	955.4	952.4	947.6	952.4	943.4	950.6	953.0	968.1
5°	910.2	898.7	881.8	873.3	871.5	866.7	867.3	863.0	864.3	874.5	891.4
7.5°	853.4	842.5	829.2	823.2	817.7	812.3	811.7	811.1	815.9	825.0	841.3
10°	812.3	806.3	800.8	803.3	800.8	798.4	794.2	794.2	802.0	818.4	838.3
12.5°	812.3	811.1	812.3	819.6	819.0	819.6	814.1	817.1	838.9	866.7	895.1
15°	855.8	846.1	846.1	849.8	848.5	848.5	848.5	861.2	910.8	953.6	983.8
17.5°	908.9	880.6	868.5	866.7	866.1	866.1	868.5	895.7	973.0	1018.3	1035.8
20°	945.8	892.0	872.1	864.3	864.9	866.1	873.3	910.8	995.9	1018.9	1014.6
22.5°	952.4	883.0	858.8	847.3	849.2	850.4	861.2	901.1	964.5	968.1	959.7
25°	921.6	857.6	831.6	822.6	825.0	824.4	834.1	863.0	908.3	907.1	902.3
27.5°	875.7	817.1	797.8	791.8	796.0	791.2	794.2	816.5	851.6	850.4	848.5
30°	828.6	777.9	760.4	757.4	762.8	755.5	756.1	774.9	799.0	797.8	797.2
32.5°	781.5	738.6	722.9	722.9	728.4	720.5	721.7	738.0	754.3	749.5	749.5
35°	736.8	706.6	693.9	691.5	695.8	690.3	692.7	707.8	713.9	707.2	703.0
37.5°	697.6	684.3	671.6	663.1	663.7	664.3	671.6	683.1	679.4	669.8	664.3
40°	661.3	661.3	649.2	633.5	631.7	636.0	648.0	660.7	650.5	639.6	632.9
42.5°	635.4	640.8	629.3	613.6	610.0	617.2	630.5	639.6	627.5	615.4	606.4
45°	611.2	624.5	616.6	599.1	594.3	602.7	619.7	623.3	607.0	595.5	588.9
47.5°	594.3	612.4	607.0	590.1	582.8	594.9	612.4	611.8	591.3	579.2	573.8
50°	582.2	605.2	604.6	590.1	582.2	597.3	613.0	605.2	582.8	570.1	564.7
52.5°	572.5	604.6	608.8	600.3	594.9	608.2	617.8	602.7	576.8	563.5	559.3
55°	568.3	607.0	610.0	602.1	597.3	609.4	617.8	607.6	576.8	564.7	561.1
57.5°	569.5	603.9	604.6	593.7	585.2	600.3	613.6	610.6	583.4	569.5	565.3
60°	562.3	587.6	588.9	571.9	562.3	580.4	603.9	602.1	580.4	565.9	558.0
62.5°	538.1	560.5	561.1	545.4	531.5	557.4	583.4	582.8	562.9	548.4	539.3
65°	497.7	521.2	527.2	512.1	501.3	529.1	556.2	555.0	535.1	521.8	512.8
67.5°	447.5	472.9	484.4	474.1	469.9	495.2	520.6	520.0	503.7	491.0	483.2
70°	386.5	407.7	427.0	427.0	424.0	453.0	480.1	477.7	462.6	453.0	446.9
72.5°	335.8	352.1	358.1	364.2	373.2	403.4	426.4	428.2	417.3	412.5	417.3
75°	285.7	295.9	301.4	296.5	312.2	343.6	373.8	376.9	365.4	357.5	359.4
77.5°	234.9	246.4	251.8	241.0	239.8	279.6	316.5	323.1	313.4	301.4	305.0
80°	169.7	184.8	193.9	186.6	184.2	201.7	252.5	259.7	250.6	241.0	246.4
82.5°	103.9	112.3	114.8	122.0	137.1	144.3	162.5	186.6	180.0	171.5	186.6
85°	41.1	48.9	54.4	61.6	71.9	85.2	100.3	119.6	108.7	105.1	123.8
87.5°	2.4	0.6	0.0	1.2	10.3	19.9	42.9	59.2	49.5	53.1	64.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	980.2	995.9	1017.1	1034.6	1056.9	1078.1	1099.8	1121.5	1133.0	1137.8
5°	910.8	939.7	973.6	1011.0	1054.5	1100.4	1146.9	1194.6	1224.8	1227.2
7.5°	869.1	910.8	957.3	1004.4	1058.1	1121.5	1195.2	1268.9	1299.7	1308.2
10°	882.4	928.9	965.7	1009.8	1069.0	1148.1	1235.1	1321.4	1357.1	1367.3
12.5°	935.5	944.6	956.1	996.5	1069.0	1171.1	1276.1	1378.8	1416.9	1426.5
15°	979.6	936.1	915.6	958.5	1054.5	1191.0	1319.6	1433.2	1479.1	1488.1
17.5°	983.2	908.3	863.6	902.3	1029.1	1204.9	1361.3	1493.6	1532.2	1540.7
20°	946.4	878.7	820.8	844.3	994.7	1210.9	1391.5	1537.7	1575.7	1584.2
22.5°	904.7	854.6	791.8	790.6	953.0	1217.6	1427.7	1579.3	1620.4	1625.8
25°	865.5	821.4	768.2	751.3	904.7	1230.2	1476.7	1642.1	1673.5	1675.4
27.5°	819.6	785.7	749.5	733.2	862.4	1254.4	1549.1	1717.0	1735.8	1732.7
30°	777.9	752.5	736.2	731.4	835.9	1272.5	1618.0	1790.7	1791.9	1781.7
32.5°	733.8	724.1	724.1	739.8	814.1	1268.3	1674.1	1862.6	1851.1	1836.0
35°	694.5	696.4	709.0	745.9	777.9	1226.0	1727.9	1952.6	1935.7	1913.9
37.5°	657.1	671.0	689.1	724.7	730.2	1163.2	1790.7	2080.0	2058.9	2031.7
40°	625.1	646.2	667.4	684.9	679.4	1073.8	1878.3	2229.8	2206.2	2174.8
42.5°	599.7	620.3	643.8	645.6	647.4	980.8	1971.3	2413.4	2409.2	2374.7
45°	583.4	596.7	619.0	616.0	645.6	878.1	2057.1	2693.6	2749.2	2723.2
47.5°	572.5	582.8	585.2	597.9	661.3	786.3	2167.6	3242.0	3396.6	3367.0
50°	566.5	576.8	549.6	599.1	663.7	727.2	2320.4	3930.5	4179.3	4140.1
52.5°	565.9	563.5	522.4	611.8	650.5	690.9	2400.1	4433.0	4985.0	5070.2
55°	567.1	536.9	508.5	615.4	623.9	677.6	2133.2	4674.6	5728.5	5908.4
57.5°	556.2	507.9	516.4	600.9	573.8	713.3	1576.9	4588.2	6025.6	6360.2
60°	535.7	480.1	530.9	561.7	522.4	652.3	1085.9	4202.9	5717.6	6061.8
62.5°	506.1	460.8	529.1	510.9	503.7	533.9	746.5	3663.6	5229.0	5565.4
65°	472.9	445.1	500.7	462.0	466.2	410.7	527.9	3054.8	4645.6	4976.5
67.5°	437.3	435.4	459.0	411.3	393.8	325.5	384.7	2448.4	3896.1	4194.4
70°	396.8	410.1	417.3	365.4	319.5	255.5	285.7	1712.2	2874.2	3133.9
72.5°	356.3	357.5	367.8	317.7	239.2	204.7	214.4	1037.0	1952.6	2141.6
75°	315.3	303.8	313.4	258.5	178.2	167.9	165.5	640.8	1348.6	1497.8
77.5°	271.2	258.5	245.8	194.5	143.1	129.8	126.8	359.4	827.4	919.2
80°	220.4	203.5	183.6	142.5	104.5	93.0	92.4	175.1	412.5	459.6
82.5°	171.5	139.5	134.1	88.8	64.6	56.8	60.4	67.0	124.4	138.9
85°	120.2	101.5	71.3	35.6	29.0	23.6	23.0	19.9	33.2	36.8
87.5°	67.0	44.1	23.0	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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