

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P648220

Luminaire Tested: **GALN-SA1B-835-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3237.7 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

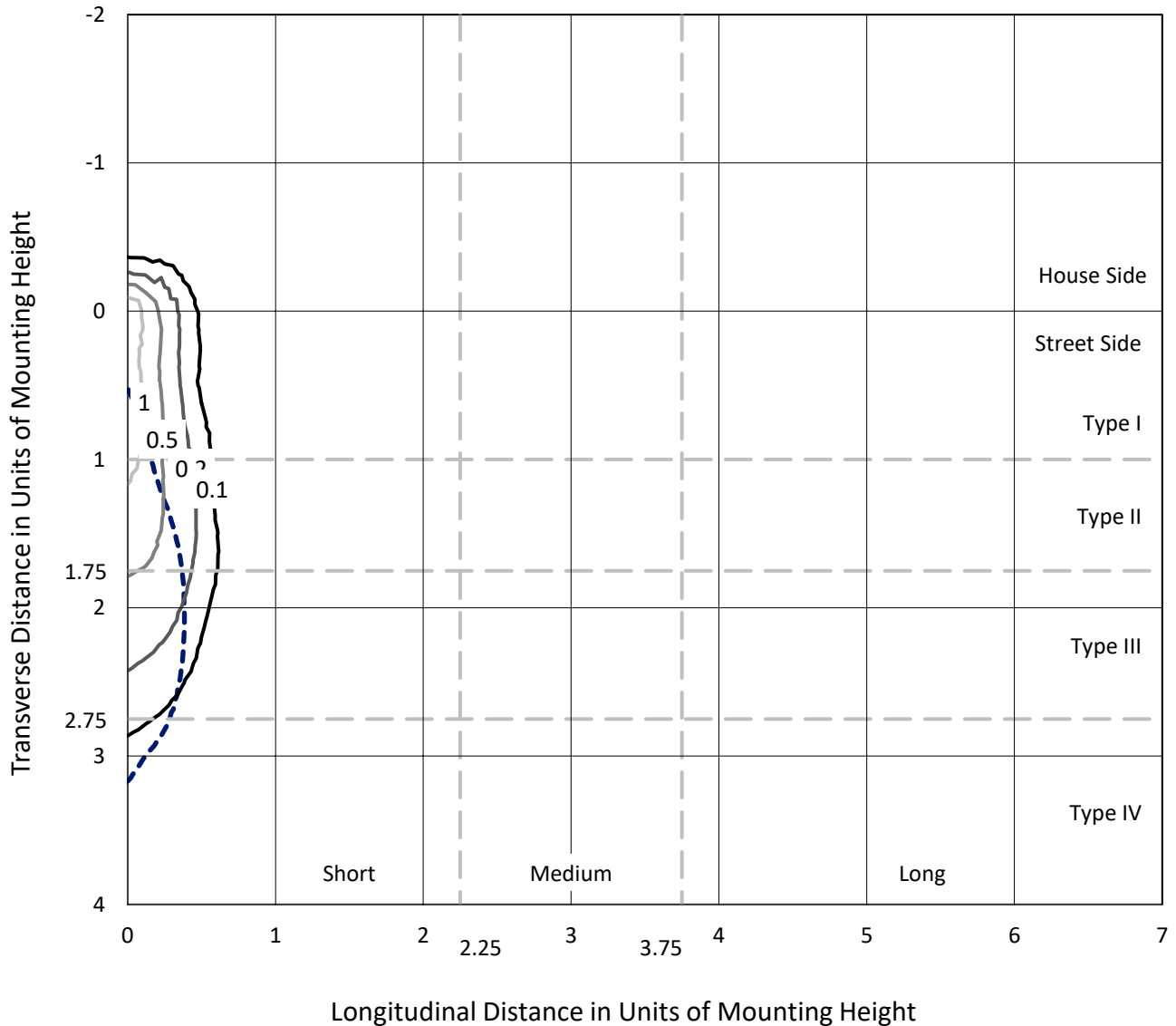
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

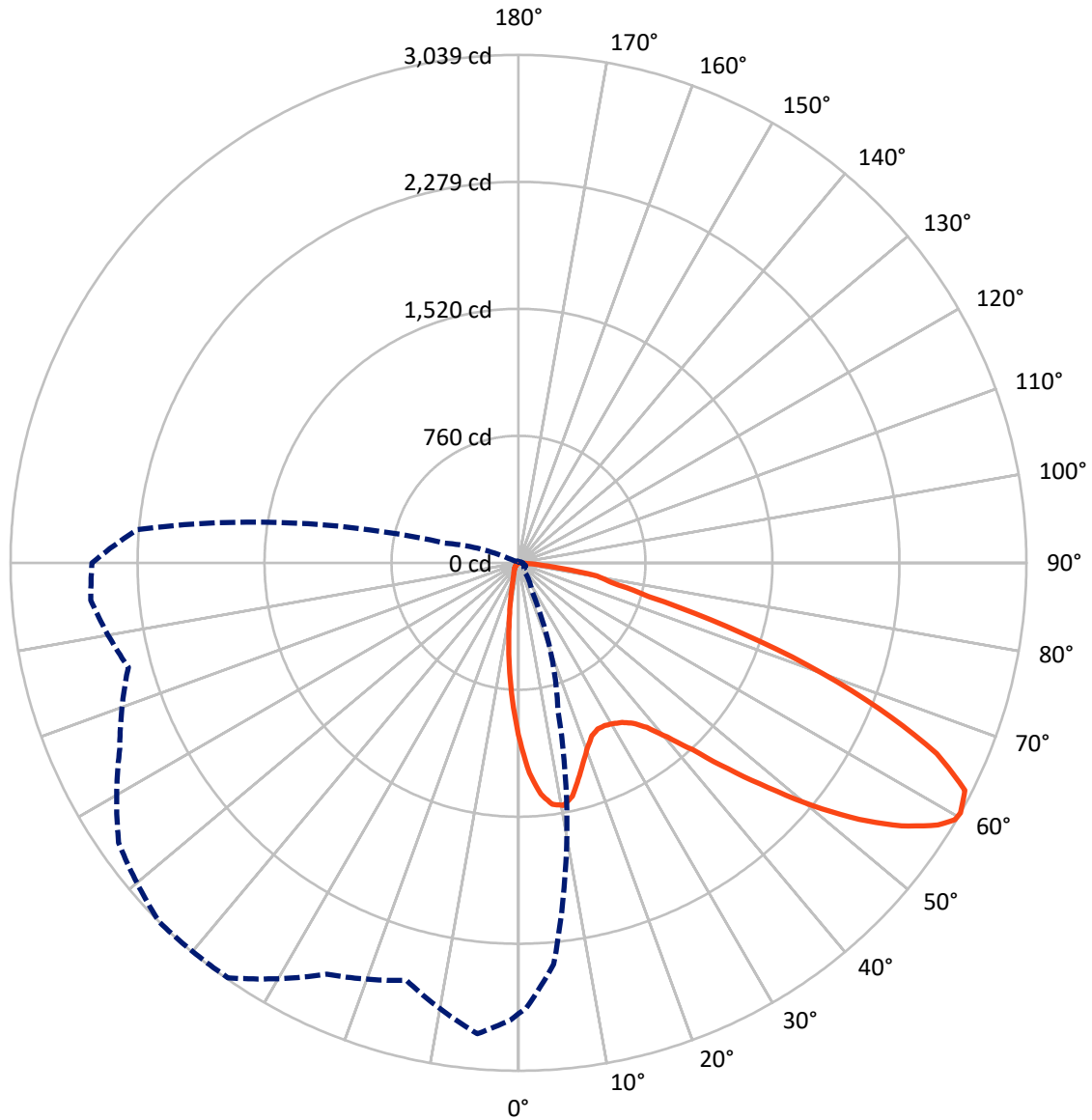
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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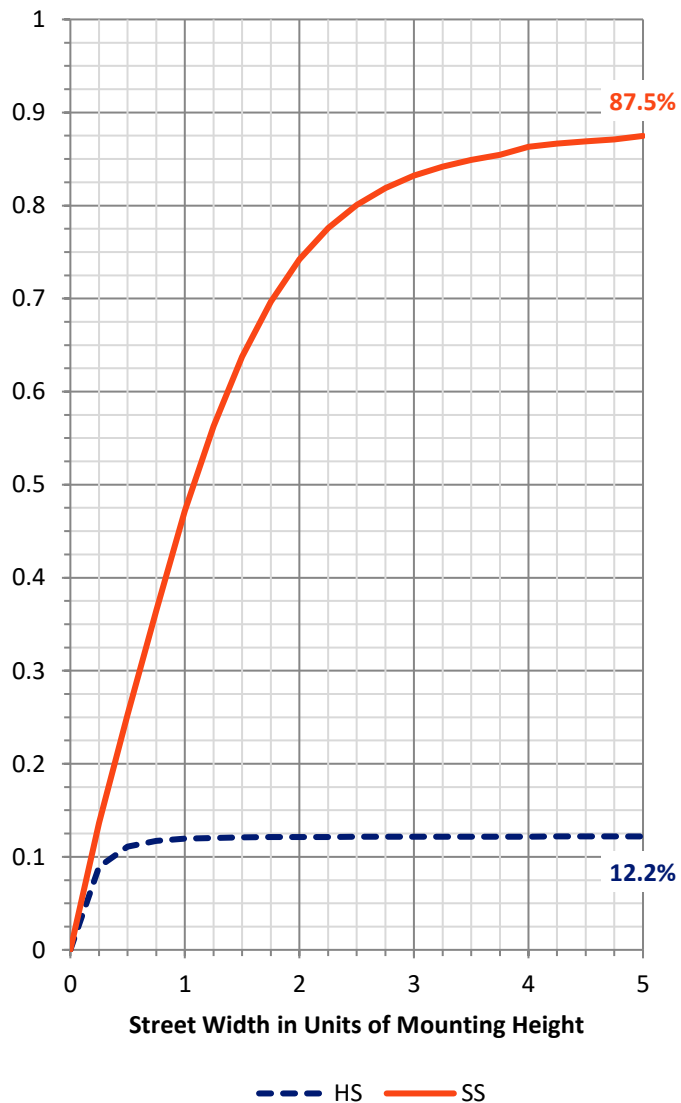
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	399.3	0.0	399.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	2838.4	0.0	2838.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	3237.7	0.0	3237.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.6	2.5
10°-20°	158.1	4.9
20°-30°	231.8	7.2
30°-40°	344.7	10.6
40°-50°	501.6	15.5
50°-60°	723.4	22.3
60°-70°	795.6	24.6
70°-80°	356.4	11.0
80°-90°	46.6	1.4
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°	3237.7	100.0
0°-180°	3237.7	100.0

Coefficient of Utilization

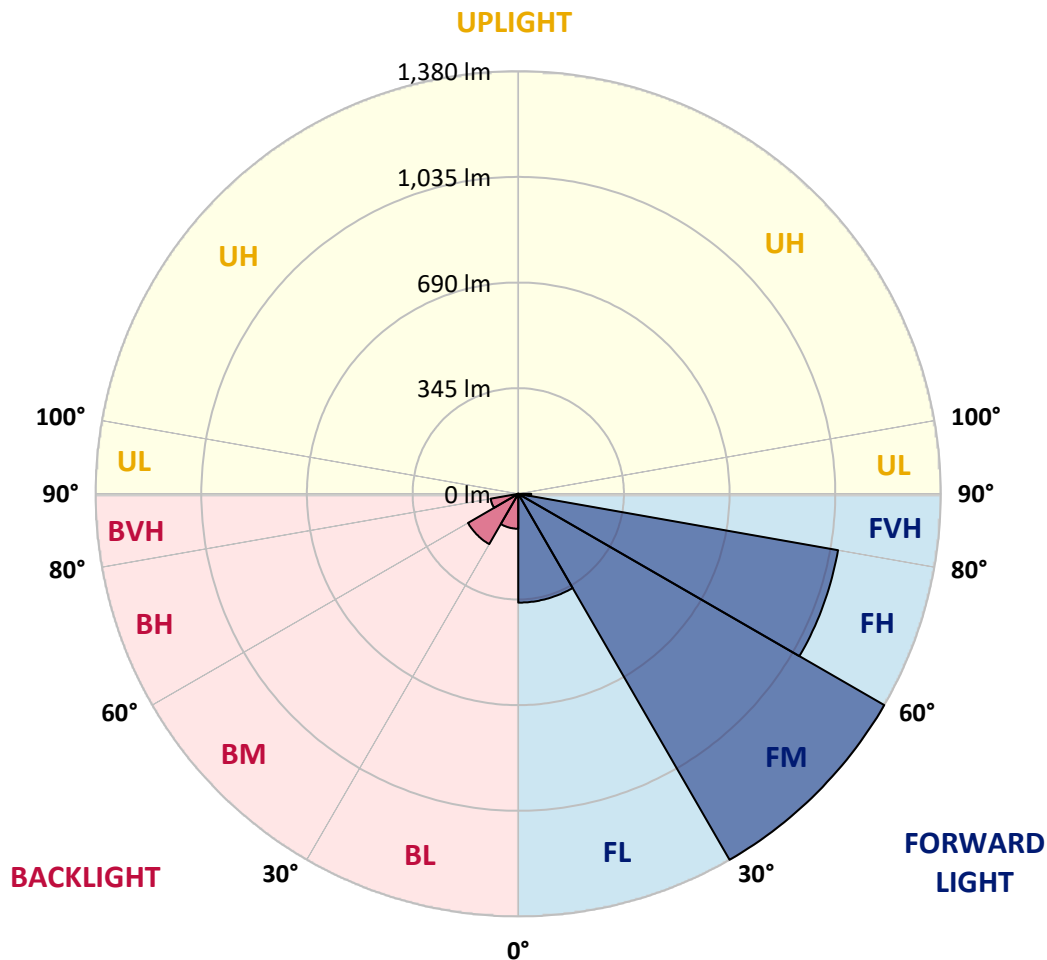


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	355.3	11.0			
FM (30°-60°)	1380.0	42.6			
FH (60°-80°)	1060.4	32.8			G1/1800
FVH (80°-90°)	42.6	1.3			G1/100
BL (0°-30°)	114.1	3.5	B1/500		
BM (30°-60°)	189.7	5.9	B0/220		
BH (60°-80°)	91.6	2.8	B0/110		G0/110
BVH (80°-90°)	4.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1
2.5°	1176.5	1171.3	1159.5	1123.5	1092.3	1051.4	1010.1	977.6	957.6	921.0	904.2
5°	1139.7	1142.2	1108.0	1034.2	952.0	895.8	834.6	785.8	732.2	698.2	662.6
7.5°	1044.1	1039.1	1001.9	899.0	799.1	717.9	640.4	577.4	537.8	506.0	479.4
10°	962.1	958.4	910.9	778.5	671.2	610.3	558.0	502.8	460.2	413.7	376.5
12.5°	910.6	902.3	847.6	709.3	621.9	565.3	508.2	450.9	392.0	345.1	300.0
15°	893.4	881.3	820.6	685.4	590.5	518.6	446.9	381.0	313.3	261.4	227.4
17.5°	924.6	904.8	840.0	681.2	552.8	457.5	369.4	283.5	213.1	173.5	152.6
20°	996.3	973.3	889.2	677.1	510.9	389.1	280.8	200.4	147.4	125.7	114.2
22.5°	1102.6	1071.1	962.1	683.7	472.3	322.4	202.8	141.5	117.1	103.6	95.5
25°	1230.3	1204.0	1054.4	707.4	441.8	270.0	156.8	115.6	98.7	90.4	84.2
27.5°	1370.4	1328.3	1173.7	735.6	414.0	229.3	137.6	103.4	87.9	80.3	77.0
30°	1470.1	1437.3	1273.6	755.4	379.3	198.9	125.7	101.9	88.1	79.0	73.1
32.5°	1568.5	1526.6	1357.3	764.4	353.9	177.7	108.8	88.9	77.3	72.6	66.7
35°	1673.8	1630.0	1440.7	759.5	335.0	163.6	98.7	79.2	66.2	58.3	52.5
37.5°	1780.4	1734.1	1523.7	741.8	323.1	158.0	90.8	75.3	62.5	54.4	48.0
40°	1906.9	1845.1	1601.5	727.3	310.9	155.0	85.7	72.8	59.8	51.2	44.8
42.5°	2010.3	1951.5	1675.1	719.7	302.5	148.1	85.7	70.9	58.1	48.5	41.8
45°	2108.2	2047.2	1754.5	725.8	299.0	139.5	86.6	70.6	56.8	46.5	39.9
47.5°	2190.2	2137.3	1836.3	748.9	294.6	130.2	81.4	74.1	56.1	44.8	37.9
50°	2286.9	2235.7	1944.3	795.7	286.7	120.8	75.1	79.7	55.9	43.3	36.2
52.5°	2423.2	2367.9	2093.4	848.9	274.2	106.6	69.1	79.0	54.9	40.9	34.5
55°	2589.9	2545.1	2266.2	912.6	257.0	90.6	59.8	70.2	51.9	36.6	31.5
57.5°	2696.7	2658.5	2395.7	940.1	230.6	74.1	52.7	58.8	47.5	32.7	28.0
59°	2709.3	2674.8	2422.8	931.1	213.4	67.7	49.3	50.4	46.3	30.5	26.1
60°	2698.7	2663.0	2412.0	913.4	197.4	63.3	46.3	44.8	46.5	29.3	24.6
62.5°	2630.7	2569.6	2306.8	823.5	172.5	58.1	41.1	36.6	41.1	26.3	21.9
65°	2499.6	2408.0	2098.8	697.0	162.7	55.1	34.9	30.8	31.2	23.1	18.9
67.5°	2270.4	2155.0	1822.0	566.3	158.5	55.4	29.5	27.6	24.1	19.7	16.8
70°	1908.1	1792.9	1461.9	465.9	156.5	55.4	25.1	23.6	20.2	16.5	14.5
72.5°	1352.2	1228.1	986.2	366.0	141.0	55.1	21.4	21.4	16.5	13.8	11.8
75°	764.0	764.9	620.0	258.9	117.1	45.5	17.2	17.0	12.1	10.6	8.8
77.5°	445.2	437.4	417.9	111.3	54.4	20.7	12.1	10.3	8.4	7.6	6.4
80°	228.9	188.3	183.4	40.3	19.4	13.1	8.4	5.9	5.4	4.9	4.5
82.5°	67.7	68.0	60.5	16.2	10.8	8.6	4.1	3.2	3.0	2.7	2.7
85°	4.7	3.0	3.4	4.9	6.7	3.4	0.2	0.7	0.7	1.0	1.3
87.5°	0.5	0.2	0.0	0.0	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°	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1
2.5°	885.7	896.6	876.4	876.9	860.2	865.6	845.9	852.3	840.7	849.6	875.7
5°	666.5	668.9	652.7	647.5	650.0	660.1	664.0	646.1	653.6	638.7	637.7
7.5°	469.6	472.5	463.2	462.0	479.7	475.5	483.1	464.6	447.2	454.8	440.8
10°	364.7	352.4	333.2	327.8	324.4	326.6	326.6	309.8	307.4	300.8	310.9
12.5°	288.0	273.0	254.7	230.1	223.9	223.5	214.4	199.6	194.9	189.3	197.6
15°	209.2	203.0	187.8	174.0	160.0	157.3	142.5	130.4	114.5	112.2	111.5
17.5°	147.2	138.0	137.8	130.0	121.8	116.4	102.7	88.9	82.7	82.0	82.0
20°	110.2	107.0	101.9	100.9	98.4	92.3	80.0	72.6	69.7	69.9	70.9
22.5°	92.8	90.6	85.9	83.7	82.7	77.3	68.2	63.3	61.8	61.8	62.0
25°	82.9	81.0	75.8	72.3	71.1	67.2	60.1	56.4	55.1	55.1	55.1
27.5°	75.6	73.1	67.7	64.8	62.5	58.1	53.6	50.0	48.7	48.7	49.0
30°	70.4	67.7	62.8	58.8	55.4	51.4	47.8	44.6	43.1	42.8	43.1
32.5°	63.5	61.1	56.1	53.6	49.7	45.0	42.0	39.2	37.7	37.9	37.7
35°	49.5	48.7	45.3	46.0	43.8	39.9	37.2	34.0	32.3	32.0	32.5
37.5°	45.0	42.0	38.1	38.4	37.7	36.2	31.7	28.3	27.1	27.1	27.3
40°	41.6	38.6	34.2	32.0	32.3	32.3	27.6	23.9	22.6	22.4	22.9
42.5°	38.6	35.7	30.8	27.1	26.1	27.3	23.4	19.7	18.5	17.9	18.5
45°	36.6	33.4	27.8	23.6	20.7	22.2	19.2	16.2	14.8	14.8	14.5
47.5°	34.7	31.7	25.6	20.4	17.2	16.5	15.7	13.1	11.6	11.4	11.6
50°	33.0	30.0	23.1	17.7	14.5	12.8	12.8	10.3	9.3	8.8	9.1
52.5°	31.2	28.0	20.9	15.7	12.5	10.3	9.1	8.4	7.6	7.4	7.6
55°	28.8	25.6	18.7	13.5	10.8	8.6	7.1	6.9	6.4	5.9	6.4
57.5°	25.8	22.9	16.5	11.6	8.6	6.7	5.9	5.6	5.2	4.9	4.9
59°	24.1	21.4	15.3	10.1	7.6	5.9	5.4	5.2	4.7	4.1	4.5
60°	23.1	20.9	14.5	9.3	6.9	5.4	4.9	4.7	4.1	3.9	4.1
62.5°	20.4	18.7	12.8	7.6	5.4	3.9	3.4	3.7	3.4	3.2	3.4
65°	17.9	16.5	10.8	5.9	4.1	2.7	2.4	3.2	3.0	2.7	3.0
67.5°	16.0	14.3	9.1	4.5	3.0	1.5	1.7	2.7	2.7	2.4	2.7
70°	13.8	12.3	7.4	3.2	1.5	0.7	1.3	2.0	2.4	2.2	2.4
72.5°	11.4	9.6	5.6	2.2	0.7	0.0	0.7	1.7	2.4	2.2	2.4
75°	8.8	7.1	4.1	1.3	0.0	0.0	0.2	1.5	2.4	2.2	2.4
77.5°	6.4	5.2	2.4	0.2	0.0	0.0	0.2	1.5	2.4	2.2	2.4
80°	4.1	3.7	1.0	0.0	0.0	0.0	0.2	1.5	2.4	2.4	2.7
82.5°	2.7	2.0	0.0	0.0	0.0	0.0	0.5	2.0	2.7	3.0	3.0
85°	1.3	0.0	0.0	0.0	0.0	0.0	1.0	2.4	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.7	3.0	3.7	3.7	3.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1
2.5°	880.1	895.6	917.5	951.3	978.5	1021.7	1054.6	1099.6	1145.1	1158.9	1180.4
5°	647.8	667.7	717.5	762.7	791.2	882.3	939.9	1030.7	1112.2	1151.3	1193.9
7.5°	449.9	473.6	511.5	574.6	634.7	708.8	801.9	905.7	1025.1	1080.9	1141.0
10°	315.8	345.3	398.7	450.6	526.2	596.6	688.4	803.0	934.7	1000.7	1076.0
12.5°	199.4	225.7	296.3	354.6	448.9	530.6	615.3	719.2	871.7	939.4	1018.4
15°	113.9	136.1	169.0	243.9	348.5	456.6	562.1	682.7	839.5	922.9	1008.3
17.5°	84.9	90.8	105.5	147.9	243.2	369.4	513.2	671.7	861.4	959.3	1056.8
20°	71.4	75.3	82.2	99.0	155.0	284.5	465.4	673.6	932.3	1055.3	1147.9
22.5°	64.0	66.5	72.1	82.9	105.9	207.3	409.5	685.2	1018.2	1173.2	1280.0
25°	56.1	59.4	64.2	73.6	88.1	143.8	354.4	711.0	1138.6	1322.9	1423.3
27.5°	50.0	52.9	57.9	66.5	77.3	109.8	290.2	733.2	1265.5	1473.5	1555.7
30°	43.8	46.7	51.7	58.6	68.4	88.9	221.0	746.2	1388.8	1586.4	1649.7
32.5°	38.6	41.1	45.8	51.9	60.1	75.3	174.2	732.7	1483.1	1689.1	1731.4
35°	33.4	36.4	40.3	46.0	53.2	64.2	144.9	685.9	1564.0	1794.6	1809.9
37.5°	28.0	31.5	35.7	40.9	46.5	59.0	116.4	634.2	1650.7	1926.3	1901.2
40°	23.6	26.9	30.8	36.4	41.6	54.2	89.6	579.1	1744.2	2049.9	2000.9
42.5°	19.2	22.6	27.3	32.5	41.1	47.3	69.4	522.0	1828.1	2157.5	2091.0
45°	15.3	18.2	23.1	29.8	40.9	40.6	53.6	465.7	1891.4	2234.2	2158.2
47.5°	12.1	14.5	19.4	29.0	37.7	34.5	43.1	430.7	1957.8	2303.4	2209.6
50°	9.6	12.1	16.8	30.3	33.0	29.5	36.2	436.4	2022.1	2338.6	2230.8
52.5°	8.1	10.6	14.5	23.9	25.4	25.8	31.7	462.4	2105.0	2376.2	2272.9
55°	7.1	9.3	12.3	16.8	19.7	23.1	29.0	481.4	2216.0	2457.0	2365.7
57.5°	5.6	8.1	11.0	14.3	16.2	20.2	26.9	482.9	2316.4	2560.6	2488.9
59°	5.2	7.4	10.3	13.5	14.5	18.2	25.4	470.3	2320.1	2576.1	2545.5
60°	4.7	7.1	9.9	12.5	13.8	17.2	24.1	455.8	2286.7	2551.5	2568.9
62.5°	3.9	6.2	8.6	10.1	11.8	14.3	20.9	403.2	2124.4	2440.0	2525.6
65°	3.4	5.4	7.4	8.4	9.9	12.3	18.5	322.7	1945.3	2288.9	2401.6
67.5°	3.2	4.9	6.4	7.1	8.6	11.4	16.5	227.9	1713.2	2097.1	2215.3
70°	3.0	4.7	5.6	6.7	7.6	9.6	14.0	132.9	1319.7	1761.0	1885.7
72.5°	3.0	4.5	4.9	5.6	6.7	8.6	13.1	71.9	902.3	1343.3	1504.5
75°	3.0	4.1	4.5	4.9	5.9	7.9	11.6	37.7	583.3	933.3	1151.8
77.5°	3.0	3.9	4.5	4.7	5.6	6.9	10.1	23.6	388.6	653.6	778.5
80°	3.2	3.9	4.1	4.7	5.4	6.4	8.4	15.7	228.4	393.3	473.8
82.5°	3.4	3.9	4.5	4.9	5.6	6.2	7.4	9.9	105.3	260.1	294.3
85°	3.7	4.1	4.7	5.2	5.9	6.2	6.9	7.1	17.2	117.4	158.7
87.5°	3.9	4.5	4.9	5.4	6.4	6.4	6.4	6.4	5.9	12.5	32.0
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°	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1
2.5°	1207.5	1235.3	1254.7	1259.6	1245.6	1239.2	1221.5	1193.9	1177.2	1176.5
5°	1272.5	1337.6	1382.9	1390.5	1363.4	1317.7	1263.3	1193.1	1152.0	1139.7
7.5°	1261.3	1375.6	1448.4	1459.0	1413.5	1326.1	1220.7	1107.8	1063.0	1044.1
10°	1215.8	1355.1	1459.2	1476.0	1415.2	1292.1	1158.2	1032.2	976.6	962.1
12.5°	1176.9	1317.7	1410.3	1433.4	1387.3	1264.5	1120.8	983.7	924.2	910.6
15°	1159.9	1273.4	1330.0	1341.8	1334.2	1247.3	1116.9	976.3	908.2	893.4
17.5°	1176.9	1235.7	1242.9	1254.9	1271.9	1245.6	1154.8	1016.5	942.9	924.6
20°	1221.5	1203.0	1173.5	1178.6	1217.6	1252.7	1222.2	1105.3	1015.7	996.3
22.5°	1297.3	1194.9	1127.9	1123.5	1172.7	1276.6	1321.2	1225.6	1121.8	1102.6
25°	1390.3	1215.3	1111.2	1101.6	1155.2	1311.5	1428.7	1373.1	1259.6	1230.3
27.5°	1491.7	1257.7	1111.2	1101.8	1153.8	1342.5	1520.7	1503.5	1402.4	1370.4
30°	1547.3	1292.6	1127.2	1116.6	1172.0	1360.5	1570.0	1619.4	1509.7	1470.1
32.5°	1597.0	1341.0	1158.4	1138.6	1210.1	1387.1	1614.0	1717.9	1595.0	1568.5
35°	1642.8	1393.0	1201.5	1178.4	1260.3	1423.5	1662.8	1821.3	1713.9	1673.8
37.5°	1693.2	1453.3	1268.7	1249.0	1344.3	1494.4	1720.6	1957.1	1830.8	1780.4
40°	1748.1	1523.2	1379.3	1370.9	1477.7	1574.6	1793.7	2102.0	1964.2	1906.9
42.5°	1804.0	1603.7	1514.6	1528.3	1628.8	1687.1	1868.8	2213.5	2073.5	2010.3
45°	1854.7	1706.5	1690.6	1758.8	1805.0	1796.9	1924.4	2292.1	2168.8	2108.2
47.5°	1918.7	1856.4	1903.5	2008.6	2009.8	1916.2	1966.4	2356.3	2250.7	2190.2
50°	1990.3	2033.4	2178.4	2285.4	2256.6	2033.7	2015.7	2432.4	2335.4	2286.9
52.5°	2073.3	2231.6	2432.4	2551.2	2484.1	2161.6	2097.7	2514.5	2469.7	2423.2
55°	2169.8	2366.6	2685.6	2780.4	2712.7	2320.7	2222.2	2626.0	2621.6	2589.9
57.5°	2278.8	2509.4	2832.3	2960.5	2900.2	2507.2	2396.1	2731.1	2714.4	2696.7
59°	2364.9	2582.7	2897.0	3029.9	2993.5	2637.8	2513.1	2796.6	2735.8	2709.3
60°	2417.1	2632.4	2920.9	3039.3	3030.9	2715.6	2587.2	2828.6	2735.6	2698.7
62.5°	2571.9	2719.4	2911.8	2997.7	3030.4	2864.8	2804.5	2863.8	2684.9	2630.7
65°	2627.0	2690.5	2760.9	2750.4	2778.4	2857.2	2943.3	2825.1	2576.5	2499.6
67.5°	2519.7	2374.8	2399.6	2329.0	2315.2	2540.1	2886.9	2636.1	2364.7	2270.4
70°	2124.0	1819.3	1806.7	1839.2	1750.2	2056.5	2592.4	2272.1	2015.0	1908.1
72.5°	1671.9	1285.7	1179.9	1299.5	1296.8	1569.0	2153.5	1612.3	1361.2	1352.2
75°	1314.7	895.1	785.6	805.1	842.4	1135.8	1715.2	1023.9	838.3	764.0
77.5°	882.6	634.2	591.6	567.8	608.2	729.2	1085.2	555.2	470.1	445.2
80°	508.7	460.7	523.3	475.0	496.7	459.5	539.7	254.7	211.4	228.9
82.5°	331.1	262.4	279.6	207.7	284.0	286.5	173.3	75.3	63.7	67.7
85°	206.9	123.1	69.1	49.3	98.0	180.2	54.2	4.7	5.4	4.7
87.5°	53.6	20.4	8.6	12.8	15.7	14.0	12.5	0.7	0.2	0.5
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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