

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: P450262

Luminaire Tested: **GALN-SA1A-740-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450262
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-SA1A-740-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 3323 lumens
Efficiency: N/A
Efficacy: 100.7 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): 33
Input Voltage (V): NR
Input Current (A_{in}): 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

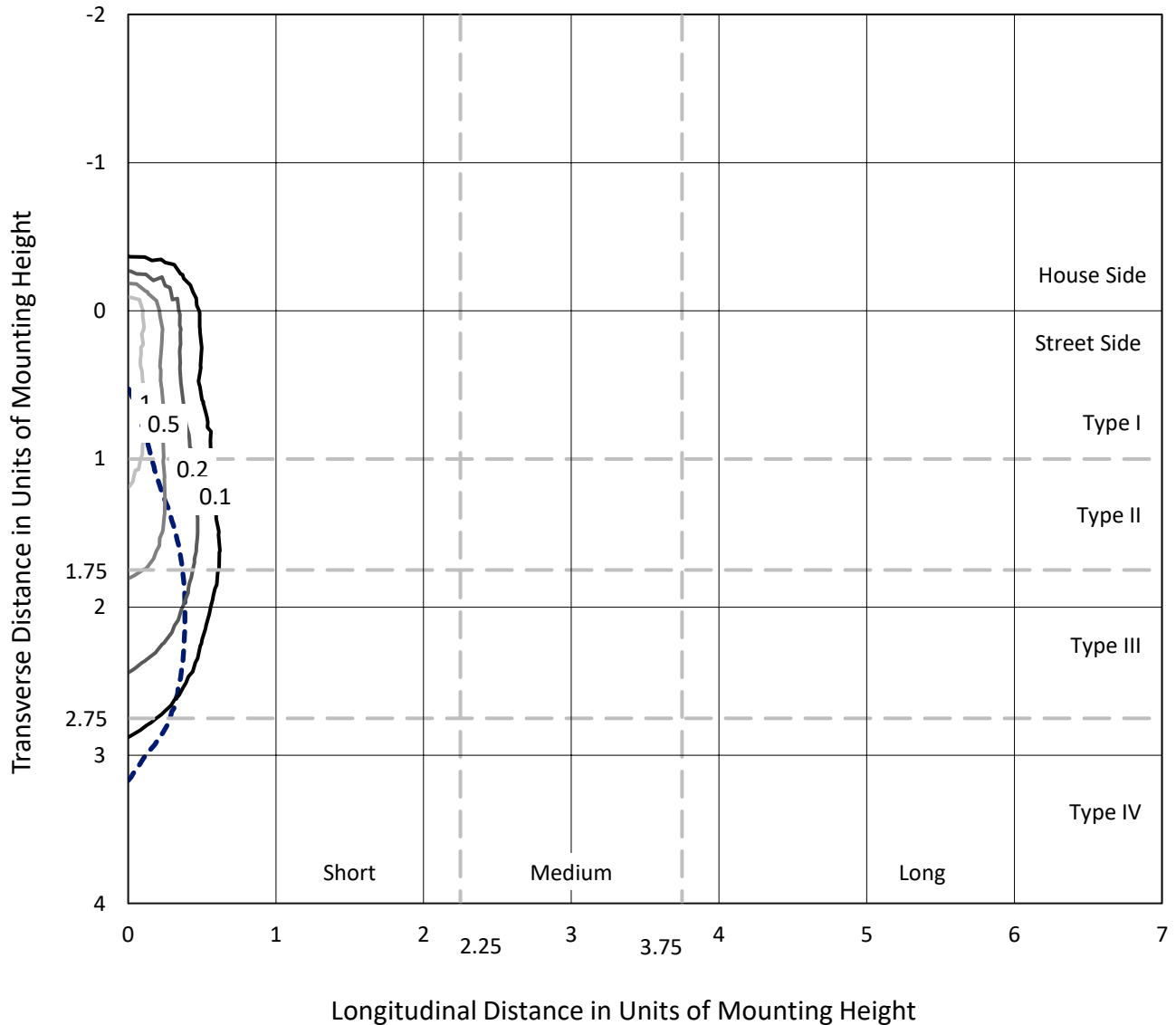




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Iso-Footcandle Lines of Horizontal Illumination

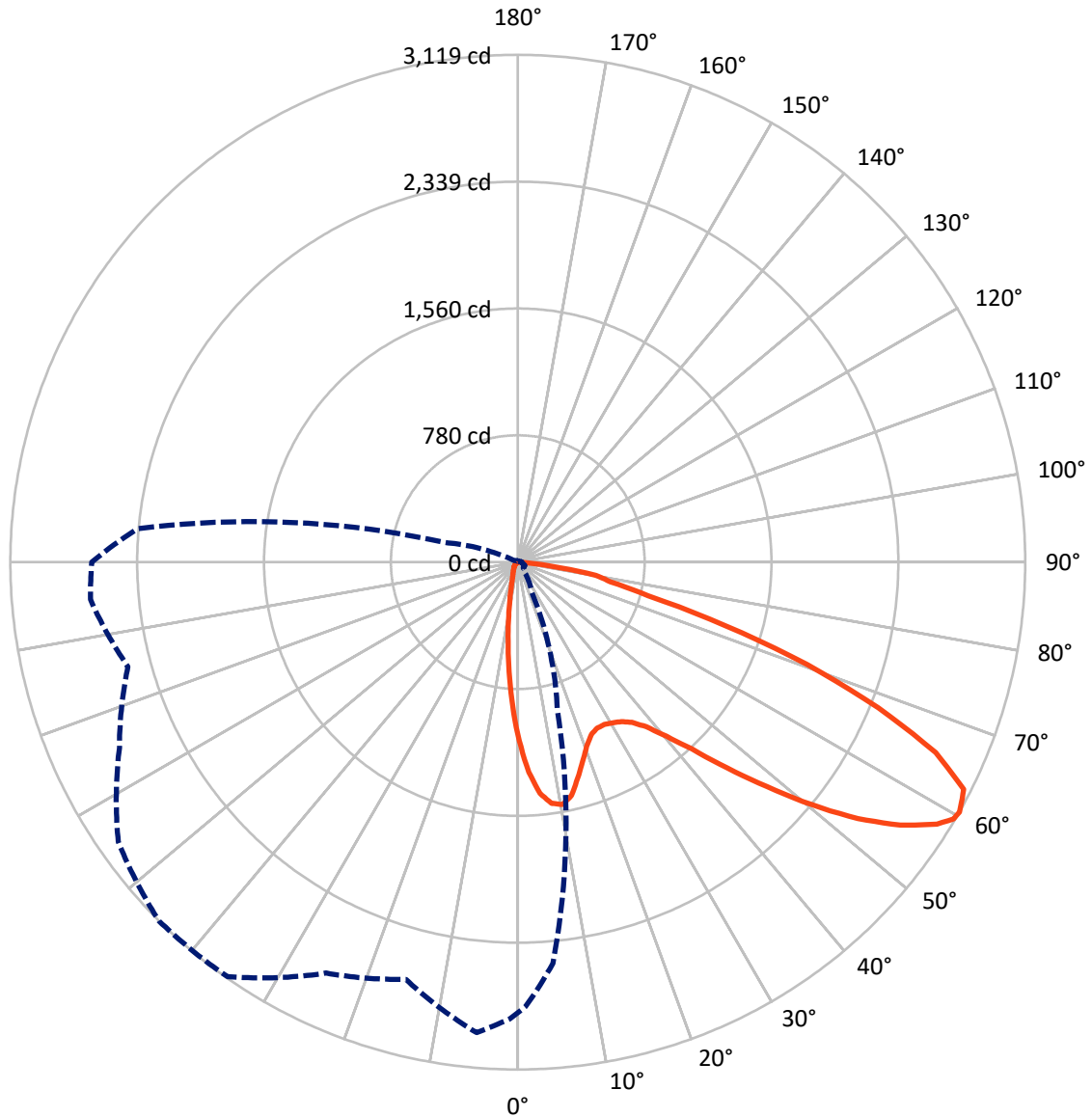
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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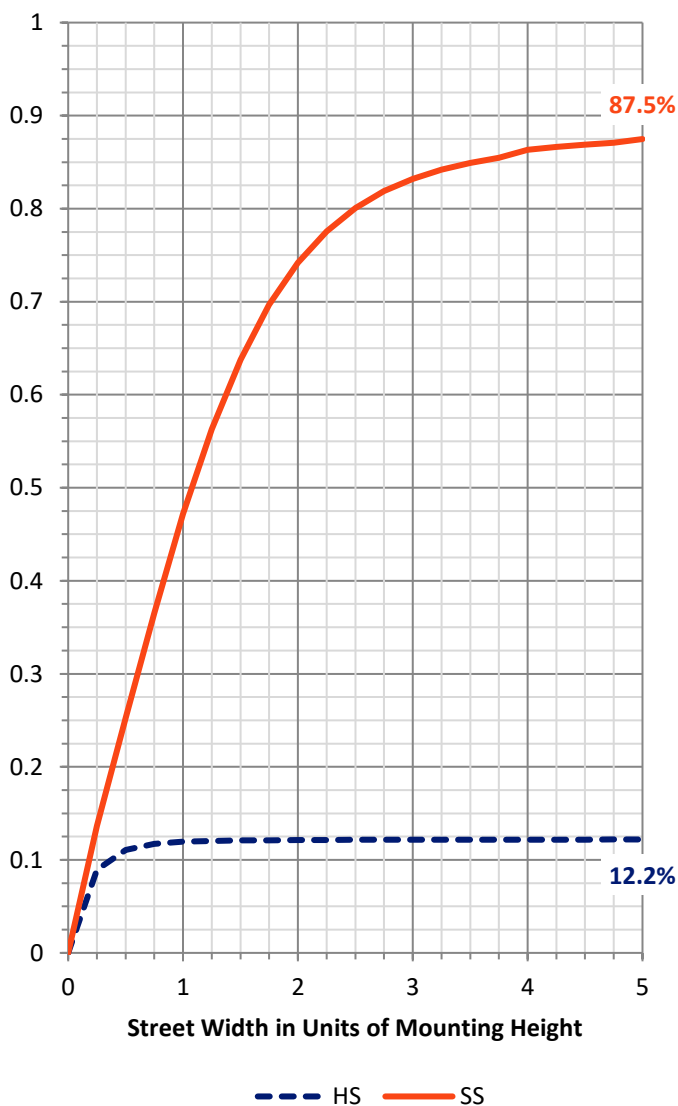
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	409.9	0.0	409.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	2913.1	0.0	2913.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	3323.0	0.0	3323.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	2.5
10°-20°	162.2	4.9
20°-30°	237.9	7.2
30°-40°	353.8	10.6
40°-50°	514.8	15.5
50°-60°	742.4	22.3
60°-70°	816.6	24.6
70°-80°	365.8	11.0
80°-90°	47.8	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°	3323.0	100.0
0°-180°	3323.0	100.0



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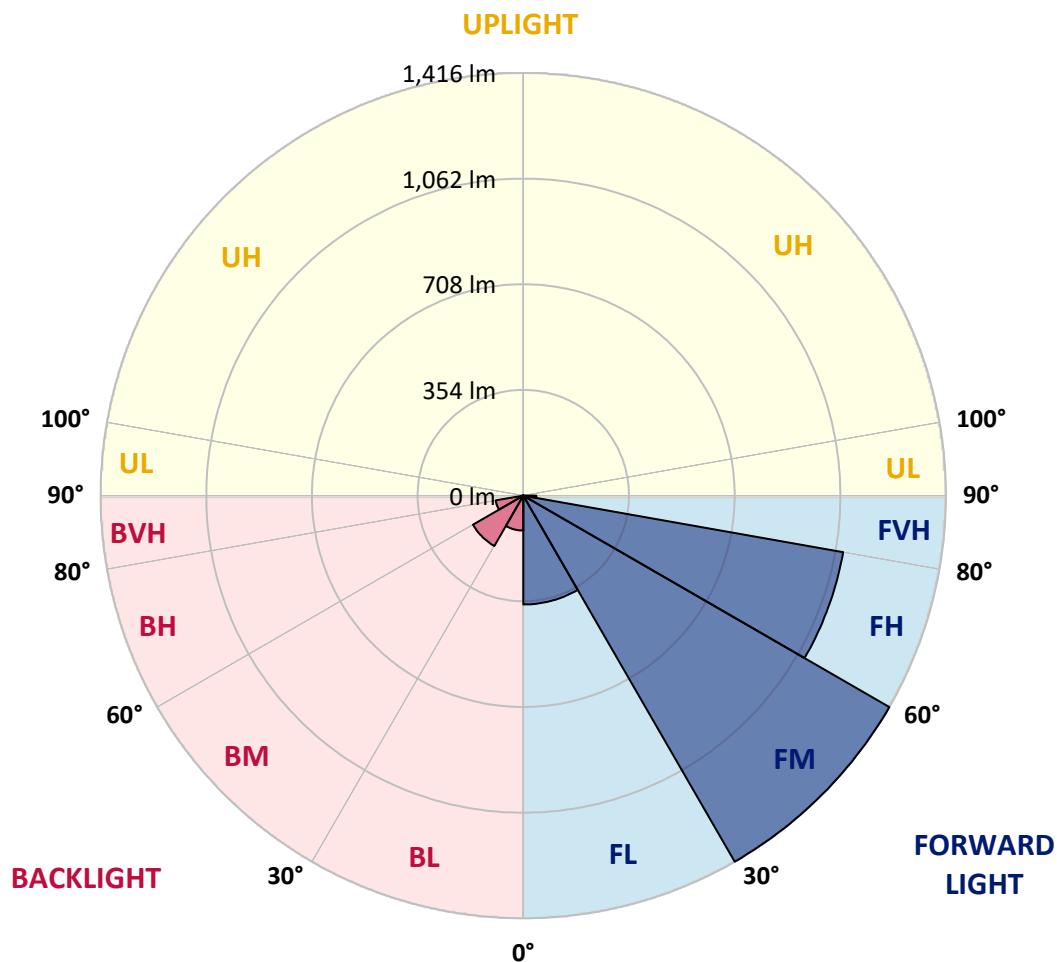
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	364.7	11.0			
FM	(30°-60°)	1416.4	42.6			
FH	(60°-80°)	1088.4	32.8			G1/1800
FVH	(80°-90°)	43.7	1.3			G1/100
BL	(0°-30°)	117.1	3.5	B1/500		
BM	(30°-60°)	194.7	5.9	B0/220		
BH	(60°-80°)	94.0	2.8	B0/110		G0/110
BVH	(80°-90°)	4.1	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°	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3
2.5°	1207.4	1202.1	1190.0	1153.1	1121.0	1079.1	1036.7	1003.3	982.9	945.2	928.0
5°	1169.8	1172.3	1137.2	1061.4	977.1	919.5	856.6	806.5	751.5	716.6	680.0
7.5°	1071.5	1066.5	1028.3	922.7	820.2	736.8	657.3	592.6	551.9	519.3	492.1
10°	987.4	983.6	934.9	799.0	688.8	626.4	572.6	516.1	472.4	424.6	386.5
12.5°	934.6	926.0	869.9	728.0	638.3	580.2	521.6	462.8	402.4	354.1	307.9
15°	916.9	904.6	842.2	703.5	606.0	532.2	458.7	391.0	321.6	268.3	233.4
17.5°	949.0	928.6	862.1	699.2	567.3	469.6	379.2	291.0	218.8	178.1	156.6
20°	1022.5	999.0	912.6	694.9	524.4	399.4	288.2	205.6	151.3	129.1	117.2
22.5°	1131.6	1099.3	987.4	701.7	484.7	330.9	208.1	145.2	120.2	106.3	98.0
25°	1262.7	1235.7	1082.1	726.0	453.4	277.1	160.9	118.7	101.3	92.7	86.4
27.5°	1406.5	1363.3	1204.6	755.0	424.9	235.4	141.2	106.1	90.2	82.3	79.1
30°	1508.8	1475.2	1307.2	775.2	389.3	204.1	129.1	104.6	90.4	81.1	75.0
32.5°	1609.8	1566.9	1393.1	784.6	363.2	182.4	111.6	91.2	79.3	74.5	68.5
35°	1717.9	1673.0	1478.7	779.5	343.8	168.0	101.3	81.3	67.9	59.9	53.8
37.5°	1827.3	1779.8	1563.8	761.3	331.7	162.2	93.2	77.3	64.2	55.8	49.3
40°	1957.1	1893.7	1643.7	746.4	319.0	159.1	87.9	74.8	61.4	52.5	46.0
42.5°	2063.2	2002.9	1719.2	738.6	310.4	152.1	87.9	72.7	59.6	49.8	42.9
45°	2163.8	2101.1	1800.8	744.9	306.9	143.2	88.9	72.5	58.4	47.7	40.9
47.5°	2247.9	2193.6	1884.6	768.7	302.4	133.6	83.6	76.0	57.6	46.0	38.9
50°	2347.1	2294.6	1995.5	816.7	294.3	124.0	77.0	81.8	57.3	44.5	37.1
52.5°	2487.1	2430.3	2148.6	871.2	281.4	109.4	71.0	81.1	56.3	41.9	35.4
55°	2658.1	2612.1	2325.9	936.6	263.7	93.0	61.4	72.0	53.3	37.6	32.3
57.5°	2767.7	2728.6	2458.8	964.9	236.7	76.0	54.1	60.4	48.8	33.6	28.8
59°	2780.6	2745.2	2486.6	955.6	219.0	69.5	50.5	51.8	47.5	31.3	26.8
60°	2769.7	2733.1	2475.5	937.4	202.6	64.9	47.5	46.0	47.7	30.1	25.3
62.5°	2700.0	2637.4	2367.6	845.2	177.1	59.6	42.2	37.6	42.2	27.0	22.5
65°	2565.4	2471.4	2154.2	715.4	167.0	56.6	35.9	31.6	32.1	23.7	19.5
67.5°	2330.2	2211.8	1870.0	581.2	162.7	56.8	30.3	28.3	24.8	20.2	17.2
70°	1958.4	1840.2	1500.4	478.2	160.7	56.8	25.8	24.2	20.7	16.9	14.9
72.5°	1387.8	1260.5	1012.2	375.6	144.7	56.6	22.0	22.0	16.9	14.1	12.1
75°	784.1	785.1	636.3	265.7	120.2	46.7	17.7	17.4	12.4	10.9	9.1
77.5°	457.0	448.9	428.9	114.2	55.8	21.2	12.4	10.6	8.6	7.8	6.6
80°	234.9	193.2	188.2	41.4	20.0	13.4	8.6	6.1	5.6	5.1	4.5
82.5°	69.5	69.7	62.1	16.7	11.1	8.8	4.3	3.3	3.0	2.8	2.8
85°	4.8	3.0	3.5	5.1	6.8	3.5	0.3	0.8	0.8	1.0	1.3
87.5°	0.5	0.3	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°	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3
2.5°	909.1	920.2	899.5	900.0	882.8	888.4	868.2	874.7	862.9	872.0	898.7
5°	684.0	686.6	669.9	664.6	667.1	677.5	681.5	663.1	670.9	655.5	654.5
7.5°	482.0	485.0	475.4	474.1	492.3	488.0	495.9	476.9	459.0	466.8	452.4
10°	374.4	361.7	342.0	336.5	332.9	335.2	335.2	318.0	315.5	308.7	319.0
12.5°	295.5	280.1	261.4	236.2	229.9	229.4	220.0	204.9	200.1	194.2	202.8
15°	214.7	208.4	192.7	178.6	164.2	161.4	146.3	133.9	117.5	115.2	114.4
17.5°	151.1	141.7	141.5	133.4	125.0	119.5	105.3	91.2	84.9	84.1	84.1
20°	113.2	109.9	104.6	103.6	101.0	94.7	82.1	74.5	71.5	71.7	72.7
22.5°	95.2	93.0	88.2	85.9	84.9	79.3	70.0	64.9	63.4	63.4	63.7
25°	85.1	83.1	77.8	74.3	73.0	69.0	61.6	57.8	56.6	56.6	56.6
27.5°	77.5	75.0	69.5	66.4	64.2	59.6	55.1	51.3	50.0	50.0	50.3
30°	72.2	69.5	64.4	60.4	56.8	52.8	49.0	45.7	44.2	44.0	44.2
32.5°	65.2	62.6	57.6	55.1	51.0	46.2	43.2	40.2	38.6	38.9	38.6
35°	50.8	50.0	46.5	47.2	45.0	40.9	38.1	34.9	33.1	32.8	33.3
37.5°	46.2	43.2	39.2	39.4	38.6	37.1	32.6	29.0	27.8	27.8	28.0
40°	42.7	39.7	35.1	32.8	33.1	33.1	28.3	24.5	23.2	23.0	23.5
42.5°	39.7	36.6	31.6	27.8	26.8	28.0	24.0	20.2	18.9	18.4	18.9
45°	37.6	34.4	28.5	24.2	21.2	22.7	19.7	16.7	15.2	15.2	14.9
47.5°	35.6	32.6	26.3	21.0	17.7	16.9	16.2	13.4	11.9	11.6	11.9
50°	33.8	30.8	23.7	18.2	14.9	13.1	13.1	10.6	9.6	9.1	9.3
52.5°	32.1	28.8	21.5	16.2	12.9	10.6	9.3	8.6	7.8	7.6	7.8
55°	29.6	26.3	19.2	13.9	11.1	8.8	7.3	7.1	6.6	6.1	6.6
57.5°	26.5	23.5	16.9	11.9	8.8	6.8	6.1	5.8	5.3	5.1	5.1
59°	24.8	22.0	15.7	10.4	7.8	6.1	5.6	5.3	4.8	4.3	4.5
60°	23.7	21.5	14.9	9.6	7.1	5.6	5.1	4.8	4.3	4.0	4.3
62.5°	21.0	19.2	13.1	7.8	5.6	4.0	3.5	3.8	3.5	3.3	3.5
65°	18.4	16.9	11.1	6.1	4.3	2.8	2.5	3.3	3.0	2.8	3.0
67.5°	16.4	14.7	9.3	4.5	3.0	1.5	1.8	2.8	2.8	2.5	2.8
70°	14.1	12.6	7.6	3.3	1.5	0.8	1.3	2.0	2.5	2.3	2.5
72.5°	11.6	9.9	5.8	2.3	0.8	0.0	0.8	1.8	2.5	2.3	2.5
75°	9.1	7.3	4.3	1.3	0.0	0.0	0.3	1.5	2.5	2.3	2.5
77.5°	6.6	5.3	2.5	0.3	0.0	0.0	0.3	1.5	2.5	2.3	2.5
80°	4.3	3.8	1.0	0.0	0.0	0.0	0.3	1.5	2.5	2.5	2.8
82.5°	2.8	2.0	0.0	0.0	0.0	0.0	0.5	2.0	2.8	3.0	3.0
85°	1.3	0.0	0.0	0.0	0.0	0.0	1.0	2.5	3.3	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.8	3.0	3.8	3.8	3.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3
2.5°	903.3	919.2	941.7	976.3	1004.3	1048.5	1082.4	1128.6	1175.3	1189.5	1211.5
5°	664.8	685.3	736.3	782.8	812.1	905.6	964.7	1057.9	1141.5	1181.7	1225.4
7.5°	461.8	486.0	524.9	589.8	651.5	727.5	823.0	929.6	1052.1	1109.4	1171.0
10°	324.1	354.4	409.2	462.5	540.1	612.3	706.5	824.2	959.4	1027.1	1104.4
12.5°	204.6	231.6	304.1	364.0	460.7	544.6	631.5	738.1	894.7	964.2	1045.3
15°	117.0	139.7	173.5	250.3	357.7	468.6	576.9	700.7	861.6	947.2	1034.9
17.5°	87.1	93.2	108.4	151.8	249.6	379.2	526.7	689.3	884.1	984.6	1084.7
20°	73.3	77.3	84.4	101.5	159.1	292.0	477.7	691.4	956.8	1083.1	1178.1
22.5°	65.7	68.2	74.0	85.1	108.6	212.7	420.3	703.2	1045.0	1204.1	1313.8
25°	57.6	60.9	65.9	75.5	90.4	147.5	363.7	729.8	1168.5	1357.7	1460.8
27.5°	51.3	54.3	59.4	68.2	79.3	112.7	297.8	752.5	1298.9	1512.3	1596.7
30°	45.0	48.0	53.0	60.1	70.2	91.2	226.8	765.9	1425.4	1628.3	1693.2
32.5°	39.7	42.2	47.0	53.3	61.6	77.3	178.8	752.0	1522.2	1733.6	1777.0
35°	34.4	37.4	41.4	47.2	54.6	65.9	148.8	704.0	1605.3	1841.9	1857.6
37.5°	28.8	32.3	36.6	41.9	47.7	60.6	119.5	650.9	1694.2	1977.1	1951.3
40°	24.2	27.5	31.6	37.4	42.7	55.6	91.9	594.4	1790.2	2103.9	2053.6
42.5°	19.7	23.2	28.0	33.3	42.2	48.5	71.2	535.8	1876.3	2214.3	2146.1
45°	15.7	18.7	23.7	30.6	41.9	41.7	55.1	477.9	1941.2	2293.1	2215.0
47.5°	12.4	14.9	20.0	29.8	38.6	35.4	44.2	442.0	2009.4	2364.1	2267.8
50°	9.9	12.4	17.2	31.1	33.8	30.3	37.1	447.9	2075.4	2400.2	2289.6
52.5°	8.3	10.9	14.9	24.5	26.0	26.5	32.6	474.6	2160.5	2438.8	2332.7
55°	7.3	9.6	12.6	17.2	20.2	23.7	29.8	494.1	2274.4	2521.7	2428.0
57.5°	5.8	8.3	11.4	14.7	16.7	20.7	27.5	495.6	2377.5	2628.0	2554.5
59°	5.3	7.6	10.6	13.9	14.9	18.7	26.0	482.7	2381.2	2644.0	2612.6
60°	4.8	7.3	10.1	12.9	14.1	17.7	24.8	467.8	2346.9	2618.7	2636.6
62.5°	4.0	6.3	8.8	10.4	12.1	14.7	21.5	413.8	2180.4	2504.3	2592.2
65°	3.5	5.6	7.6	8.6	10.1	12.6	18.9	331.2	1996.5	2349.2	2464.9
67.5°	3.3	5.1	6.6	7.3	8.8	11.6	16.9	233.9	1758.3	2152.4	2273.6
70°	3.0	4.8	5.8	6.8	7.8	9.9	14.4	136.4	1354.4	1807.3	1935.4
72.5°	3.0	4.5	5.1	5.8	6.8	8.8	13.4	73.8	926.0	1378.7	1544.1
75°	3.0	4.3	4.5	5.1	6.1	8.1	11.9	38.6	598.7	957.9	1182.2
77.5°	3.0	4.0	4.5	4.8	5.8	7.1	10.4	24.2	398.9	670.9	799.0
80°	3.3	4.0	4.3	4.8	5.6	6.6	8.6	16.2	234.4	403.7	486.3
82.5°	3.5	4.0	4.5	5.1	5.8	6.3	7.6	10.1	108.1	267.0	302.1
85°	3.8	4.3	4.8	5.3	6.1	6.3	7.1	7.3	17.7	120.5	162.9
87.5°	4.0	4.5	5.1	5.6	6.6	6.6	6.6	6.6	6.1	12.9	32.8
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°	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3	1098.3
2.5°	1239.2	1267.8	1287.7	1292.8	1278.4	1271.8	1253.6	1225.4	1208.2	1207.4
5°	1305.9	1372.9	1419.4	1427.2	1399.4	1352.4	1296.6	1224.6	1182.4	1169.8
7.5°	1294.6	1411.8	1486.5	1497.4	1450.7	1361.0	1252.9	1136.9	1091.0	1071.5
10°	1247.8	1390.8	1497.7	1514.8	1452.4	1326.1	1188.7	1059.4	1002.3	987.4
12.5°	1207.9	1352.4	1447.4	1471.1	1423.9	1297.9	1150.3	1009.6	948.5	934.6
15°	1190.5	1306.9	1365.0	1377.2	1369.3	1280.2	1146.3	1002.1	932.1	916.9
17.5°	1207.9	1268.3	1275.6	1288.0	1305.4	1278.4	1185.2	1043.2	967.7	949.0
20°	1253.6	1234.7	1204.4	1209.7	1249.6	1285.7	1254.4	1134.4	1042.5	1022.5
22.5°	1331.4	1226.4	1157.7	1153.1	1203.6	1310.2	1355.9	1257.9	1151.3	1131.6
25°	1426.9	1247.3	1140.5	1130.6	1185.7	1346.1	1466.3	1409.2	1292.8	1262.7
27.5°	1531.0	1290.8	1140.5	1130.9	1184.2	1377.9	1560.8	1543.1	1439.3	1406.5
30°	1588.1	1326.6	1156.9	1146.0	1202.9	1396.4	1611.3	1662.1	1549.4	1508.8
32.5°	1639.1	1376.4	1189.0	1168.5	1242.0	1423.6	1656.5	1763.1	1637.1	1609.8
35°	1686.1	1429.7	1233.2	1209.4	1293.6	1461.0	1706.6	1869.2	1759.1	1717.9
37.5°	1737.9	1491.6	1302.1	1281.9	1379.7	1533.8	1765.9	2008.7	1879.1	1827.3
40°	1794.2	1563.3	1415.6	1407.0	1516.6	1616.1	1840.9	2157.4	2016.0	1957.1
42.5°	1851.5	1645.9	1554.5	1568.6	1671.7	1731.6	1918.0	2271.9	2128.1	2063.2
45°	1903.6	1751.5	1735.1	1805.1	1852.6	1844.2	1975.1	2352.5	2225.9	2163.8
47.5°	1969.3	1905.4	1953.6	2061.5	2062.7	1966.7	2018.3	2418.4	2310.0	2247.9
50°	2042.8	2087.0	2235.8	2345.6	2316.1	2087.2	2068.8	2496.4	2396.9	2347.1
52.5°	2127.9	2290.3	2496.4	2618.4	2549.5	2218.6	2152.9	2580.8	2534.8	2487.1
55°	2226.9	2429.0	2756.4	2853.6	2784.1	2381.8	2280.7	2695.2	2690.7	2658.1
57.5°	2338.8	2575.5	2906.9	3038.5	2976.6	2573.2	2459.3	2803.1	2785.9	2767.7
59°	2427.2	2650.8	2973.3	3109.7	3072.4	2707.4	2579.3	2870.3	2807.9	2780.6
60°	2480.8	2701.8	2997.8	3119.3	3110.8	2787.2	2655.3	2903.1	2807.6	2769.7
62.5°	2639.7	2791.0	2988.5	3076.7	3110.2	2940.2	2878.4	2939.2	2755.6	2700.0
65°	2696.2	2761.4	2833.7	2822.8	2851.6	2932.4	3020.8	2899.6	2644.5	2565.4
67.5°	2586.1	2437.3	2462.8	2390.3	2376.2	2607.1	2963.0	2705.6	2427.0	2330.2
70°	2179.9	1867.2	1854.3	1887.7	1796.2	2110.7	2660.6	2332.0	2068.0	1958.4
72.5°	1715.9	1319.6	1211.0	1333.7	1330.9	1610.3	2210.2	1654.8	1397.1	1387.8
75°	1349.4	918.7	806.3	826.3	864.6	1165.7	1760.4	1050.8	860.4	784.1
77.5°	905.8	650.9	607.2	582.7	624.2	748.4	1113.7	569.9	482.5	457.0
80°	522.1	472.9	537.0	487.5	509.7	471.6	553.9	261.4	217.0	234.9
82.5°	339.7	269.3	287.0	213.2	291.5	294.0	177.8	77.3	65.4	69.5
85°	212.4	126.3	71.0	50.5	100.5	184.9	55.6	4.8	5.6	4.8
87.5°	55.1	21.0	8.8	13.1	16.2	14.4	12.9	0.8	0.3	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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