

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: P652178

Luminaire Tested: **GALN-SA1B-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2676.9 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G0

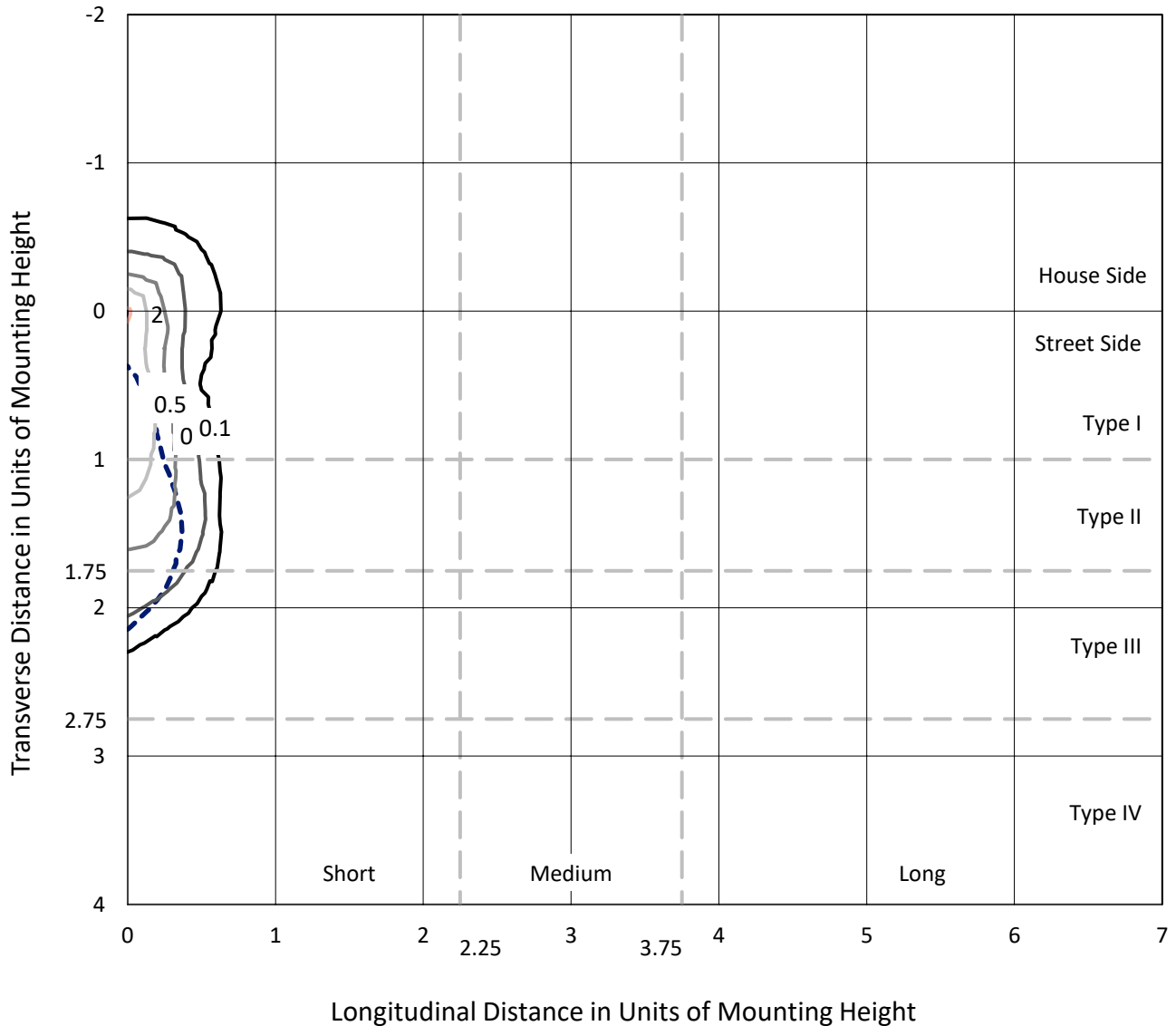
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

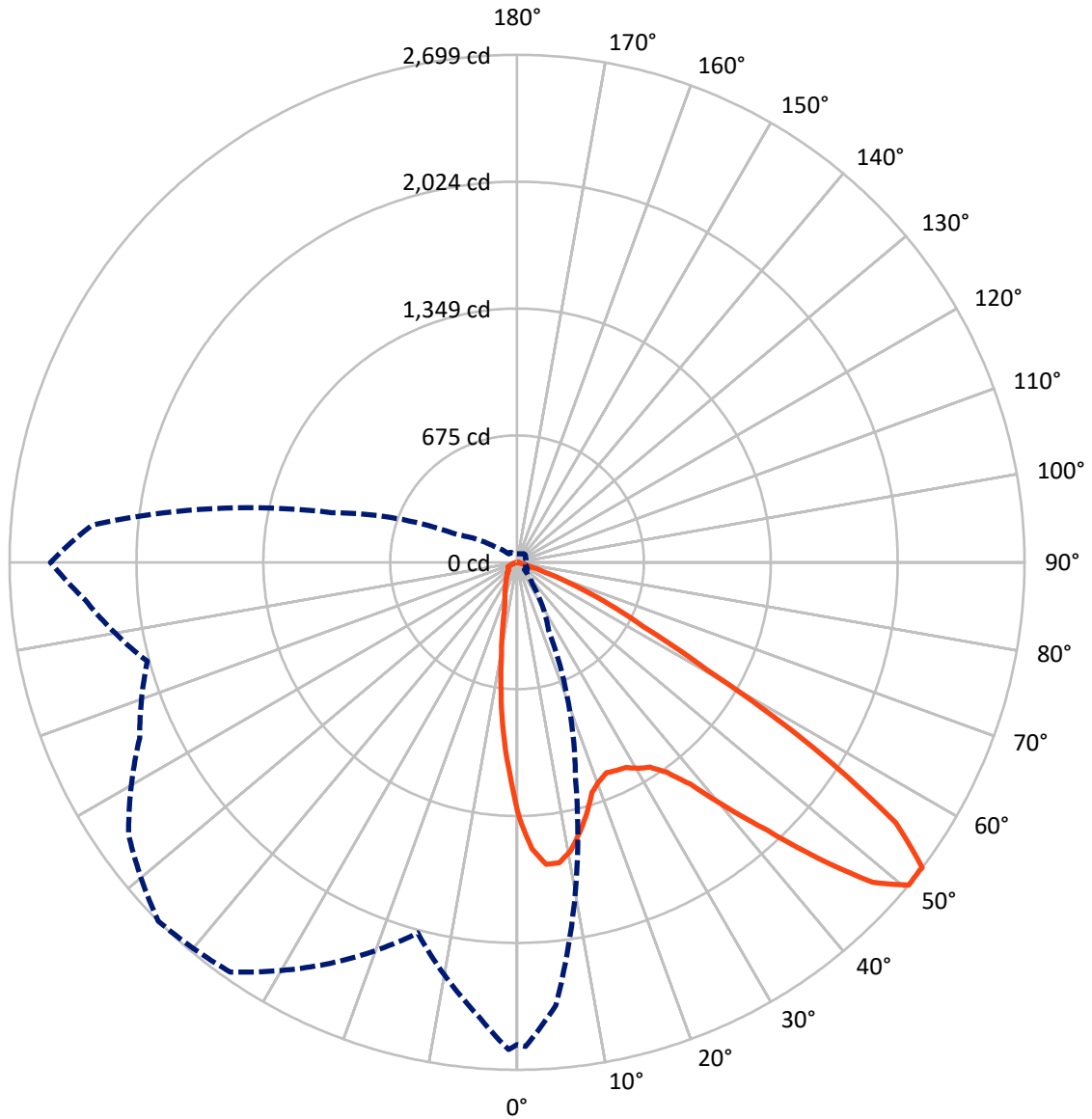
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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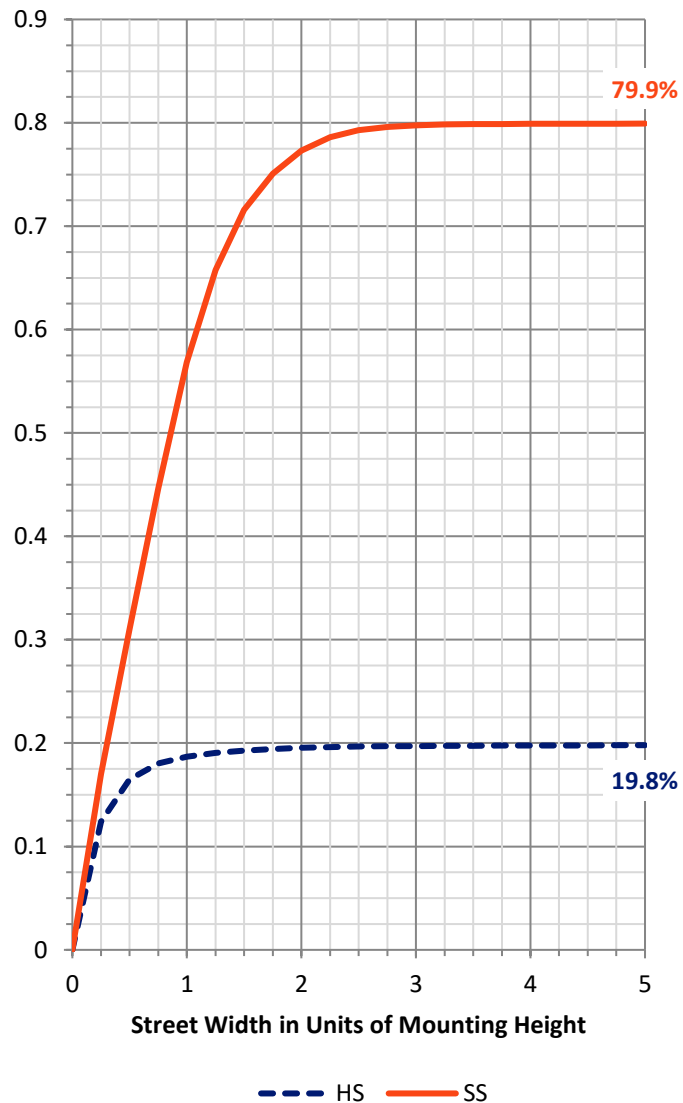
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	536.2	0.0	536.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2140.7	0.0	2140.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	2676.9	0.0	2676.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.7
10°-20°	196.7	7.3
20°-30°	295.4	11.0
30°-40°	443.4	16.6
40°-50°	623.2	23.3
50°-60°	672.3	25.1
60°-70°	312.1	11.7
70°-80°	29.4	1.1
80°-90°	5.4	0.2
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°	2676.9	100.0
0°-180°	2676.9	100.0

Coefficient of Utilization



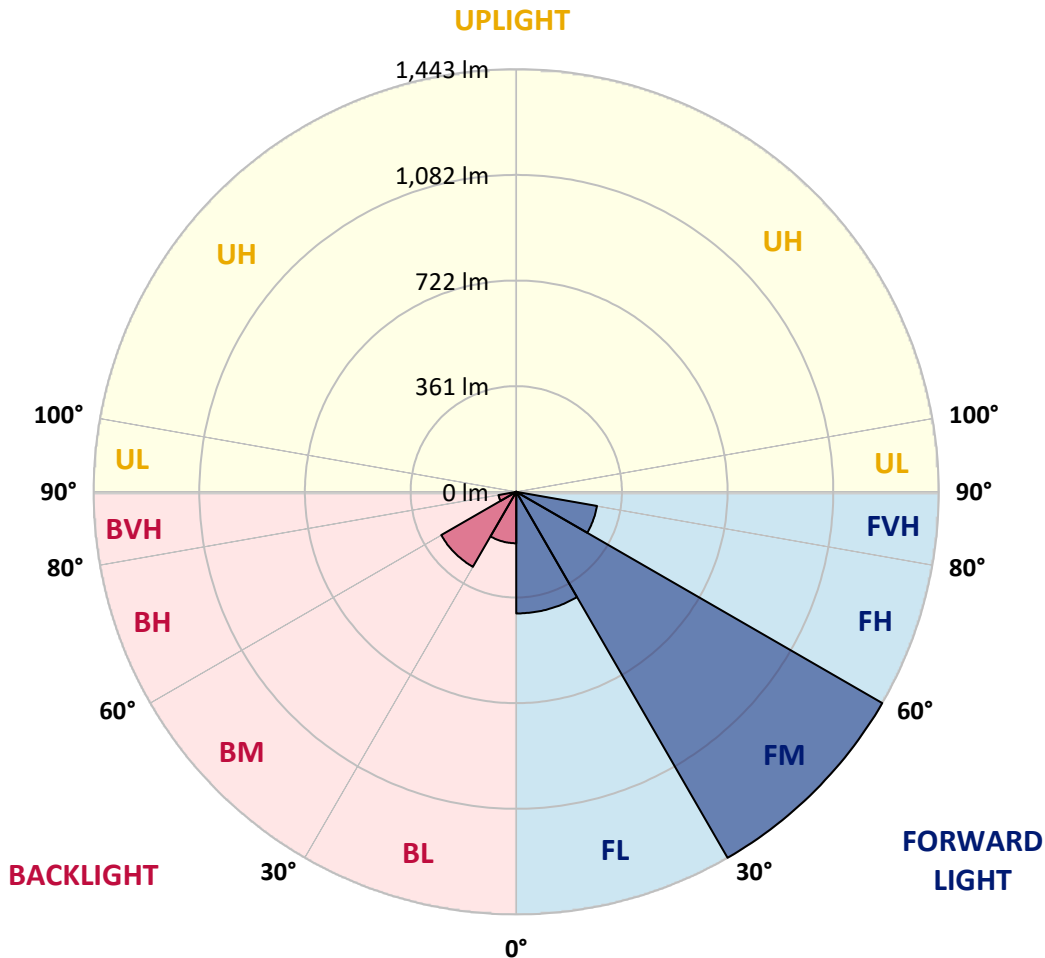
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.3	15.5			
FM (30°-60°)	1443.0	53.9			
FH (60°-80°)	279.9	10.5			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	175.7	6.6	B1/500		
BM (30°-60°)	295.9	11.1	B1/1000		
BH (60°-80°)	61.6	2.3	B0/110		G0/110
BVH (80°-90°)	3.0	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-G0

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5
2.5°	1411.2	1389.4	1361.7	1339.0	1305.0	1236.4	1217.9	1195.6	1177.0	1152.0	1116.9
5°	1283.2	1276.3	1263.5	1177.5	1115.3	1032.5	964.5	935.9	898.1	867.3	845.0
7.5°	1185.5	1157.8	1117.4	1030.9	931.6	842.9	767.5	723.3	673.5	656.5	626.2
10°	1080.9	1087.2	1027.7	906.1	786.1	714.3	667.6	625.1	580.0	550.3	507.2
12.5°	1047.4	1026.6	980.9	830.7	728.1	661.3	604.4	551.9	504.0	456.2	414.8
15°	1069.2	1037.3	973.5	814.8	683.6	600.1	529.0	457.8	413.8	352.6	309.7
17.5°	1147.2	1121.7	1036.2	831.7	660.7	541.8	436.1	362.7	295.3	240.1	218.3
20°	1277.3	1241.2	1133.9	853.5	626.7	471.1	353.7	263.4	199.7	176.4	164.1
22.5°	1404.8	1385.1	1249.7	895.5	596.4	408.4	265.6	177.4	149.3	145.0	137.0
25°	1647.5	1588.6	1426.6	971.4	573.1	349.4	200.2	142.9	126.4	123.2	124.3
27.5°	1792.0	1742.6	1590.2	1021.9	547.1	304.4	169.5	131.2	120.0	113.1	110.5
30°	1930.6	1873.2	1671.4	1051.6	491.3	256.5	150.3	125.9	123.2	113.1	109.9
32.5°	2037.3	1981.1	1788.8	1096.2	468.4	225.7	123.7	98.2	91.3	90.3	99.8
35°	2200.9	2140.9	1889.1	1120.6	450.9	209.8	107.3	87.6	79.6	76.4	77.0
37.5°	2353.4	2312.5	1982.2	1130.2	432.4	205.0	96.1	78.6	71.7	69.6	69.0
40°	2480.9	2389.4	2070.3	1140.3	424.4	196.0	89.2	71.7	66.9	63.7	63.7
42.5°	2539.2	2446.3	2169.1	1134.4	422.3	181.7	89.2	65.9	62.1	59.0	58.4
45°	2526.5	2488.8	2213.2	1131.8	422.3	167.3	81.2	64.3	59.0	54.7	53.7
47.5°	2559.4	2510.0	2268.4	1142.9	413.8	157.2	68.5	67.4	55.8	50.5	49.4
50°	2565.3	2574.8	2364.6	1200.9	395.2	144.5	53.7	66.4	53.7	45.7	44.6
52°	2603.5	2544.0	2393.7	1231.6	375.5	134.9	45.2	56.9	51.6	42.5	41.5
52.5°	2550.9	2589.7	2400.6	1242.8	377.6	128.5	43.6	55.8	50.5	42.5	39.9
55°	2492.0	2529.1	2372.5	1266.7	346.3	100.9	34.0	40.4	45.7	37.2	35.6
57.5°	2165.9	2203.6	2061.8	1160.0	282.0	71.1	28.2	30.3	40.4	34.5	33.0
60°	1925.3	1898.2	1730.4	967.7	200.2	39.9	22.3	23.4	44.1	31.9	31.4
62.5°	1759.5	1701.7	1446.2	747.3	122.2	26.6	17.5	18.1	34.0	29.8	29.8
65°	1301.8	1236.9	960.8	452.0	60.0	18.6	13.3	14.4	21.3	25.5	25.5
67.5°	743.0	718.0	464.2	203.9	25.0	11.7	10.1	11.2	16.5	20.7	19.7
70°	341.5	306.5	178.5	43.1	11.7	8.0	8.0	9.0	13.3	15.4	14.4
72.5°	99.8	94.5	43.6	6.9	4.8	4.8	5.3	6.9	10.1	11.7	10.6
75°	7.4	4.8	3.2	2.1	2.1	3.2	4.3	6.9	10.1	11.2	9.0
77.5°	0.5	1.1	0.5	0.5	1.6	3.2	4.8	8.5	13.3	13.8	10.1
80°	0.5	0.5	0.0	0.5	1.6	3.2	5.3	9.6	14.9	15.9	8.5
82.5°	0.0	0.0	0.0	0.5	2.1	4.3	6.4	10.1	13.8	17.0	9.0
85°	0.0	0.0	0.0	0.5	3.2	5.8	7.4	2.7	1.6	0.0	0.0
87.5°	0.0	0.0	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°	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5
2.5°	1141.9	1128.1	1122.7	1127.5	1125.9	1124.3	1153.6	1147.2	1146.1	1155.7	1153.6
5°	857.2	832.8	899.7	872.6	900.8	917.8	921.0	922.6	942.2	921.5	948.6
7.5°	610.8	617.1	616.6	634.7	667.1	695.8	712.7	699.5	698.5	695.8	684.1
10°	488.1	476.9	474.8	470.5	480.6	505.1	525.8	509.3	497.6	513.6	508.8
12.5°	398.9	383.5	375.0	357.9	358.5	375.0	375.0	375.0	386.7	395.7	402.6
15°	306.0	293.2	293.2	276.2	272.5	273.0	281.5	282.6	301.2	306.5	309.1
17.5°	214.0	207.1	215.1	222.0	217.7	218.8	222.0	223.0	225.7	223.6	228.9
20°	164.7	163.6	165.7	178.0	187.0	192.3	188.6	183.3	180.1	172.6	172.6
22.5°	139.7	141.8	145.5	155.6	167.3	170.5	166.3	154.0	144.5	143.4	143.9
25°	124.3	126.4	132.3	138.6	145.0	150.3	146.1	137.0	131.7	126.9	126.9
27.5°	114.7	115.8	119.0	123.7	129.1	133.3	131.7	126.9	121.1	119.0	114.2
30°	107.3	108.9	112.6	113.6	118.4	120.6	117.9	116.8	113.1	110.5	108.9
32.5°	103.5	103.0	105.7	106.7	107.3	108.9	105.7	107.3	106.7	102.5	100.9
35°	78.0	82.3	89.2	95.0	96.6	98.8	98.2	96.1	90.3	85.5	79.6
37.5°	70.1	72.7	76.4	81.2	87.6	90.3	89.2	83.9	77.0	73.8	72.7
40°	64.8	66.4	69.6	72.7	79.1	83.9	80.2	75.4	70.1	67.4	65.9
42.5°	60.0	60.6	62.1	65.3	70.1	77.5	71.1	64.8	62.7	61.1	60.0
45°	54.7	54.7	56.9	58.4	63.7	70.6	64.3	58.4	57.4	56.3	55.8
47.5°	50.5	51.0	52.1	54.2	58.4	63.2	59.0	54.2	51.6	51.0	50.0
50°	45.2	45.7	47.8	50.0	55.3	57.9	55.3	50.0	47.3	45.7	45.7
52°	40.9	42.5	44.6	48.9	52.6	56.9	53.7	47.8	44.6	43.1	42.0
52.5°	40.4	41.5	43.6	48.4	52.6	56.3	53.2	47.3	43.6	42.5	41.5
55°	36.1	37.7	41.5	47.3	52.1	56.3	52.1	46.8	41.5	38.8	37.7
57.5°	34.5	35.6	40.4	47.8	51.6	56.3	52.1	46.8	41.5	36.7	35.6
60°	33.0	35.1	40.4	46.2	51.0	56.9	52.6	46.2	40.4	34.5	34.5
62.5°	31.4	33.0	39.9	45.2	48.9	54.7	50.5	45.2	38.8	33.0	32.4
65°	27.1	29.8	35.1	37.7	42.0	47.3	43.1	39.3	34.0	29.2	28.7
67.5°	20.7	21.8	26.0	29.2	31.9	36.7	34.5	29.8	26.0	22.3	22.3
70°	14.4	15.4	18.6	20.2	22.9	25.5	23.9	20.2	17.5	15.4	14.9
72.5°	10.1	10.6	11.7	12.8	13.8	14.9	14.4	11.7	10.1	9.6	9.0
75°	8.0	9.0	9.6	9.0	8.5	8.0	8.0	6.9	5.8	5.3	5.3
77.5°	8.0	8.5	8.0	6.9	5.8	5.3	4.8	4.3	3.2	2.7	3.2
80°	6.9	6.9	6.9	5.8	5.3	4.8	4.3	3.7	3.2	2.7	2.7
82.5°	7.4	7.4	6.9	5.8	5.8	4.8	4.8	4.3	3.7	2.7	2.7
85°	0.0	0.0	0.0	1.1	2.7	4.8	4.8	4.3	3.7	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.5	1.1	2.1	2.7	3.2	3.2	3.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5
2.5°	1172.7	1192.9	1231.1	1269.3	1292.7	1320.4	1370.2	1396.8	1431.4	1448.4	1481.8
5°	944.9	992.6	1009.6	1053.2	1099.9	1146.7	1221.0	1302.8	1370.8	1417.5	1478.1
7.5°	689.4	700.6	766.4	795.6	872.1	957.1	1058.5	1161.5	1247.6	1324.1	1370.2
10°	516.8	557.7	599.1	654.9	716.4	804.1	901.3	1014.9	1126.5	1203.0	1261.4
12.5°	415.4	447.7	503.0	563.0	638.9	696.9	794.6	907.1	1051.6	1126.5	1203.5
15°	314.4	355.8	418.5	480.6	560.9	621.9	720.7	862.5	1048.4	1151.4	1217.9
17.5°	233.1	261.3	317.6	387.2	468.9	555.0	688.4	857.7	1084.0	1206.7	1275.2
20°	178.5	188.0	223.6	285.8	374.4	487.0	635.7	878.4	1189.2	1341.1	1410.6
22.5°	144.5	148.7	162.5	205.5	291.6	427.6	610.8	892.8	1307.6	1502.0	1595.0
25°	125.9	124.8	133.8	152.4	227.8	371.8	578.9	947.0	1452.6	1691.1	1774.4
27.5°	114.7	114.7	119.0	132.3	189.1	335.6	558.8	985.7	1598.7	1857.3	1902.4
30°	108.9	109.9	122.2	126.4	157.2	292.7	525.3	1025.0	1738.3	1963.6	2025.6
32.5°	100.9	96.6	94.0	104.6	132.3	253.9	491.8	1041.5	1851.5	2093.7	2146.7
35°	77.5	75.4	78.6	86.5	113.6	220.9	454.6	1060.1	1981.6	2244.5	2255.1
37.5°	70.1	69.6	71.7	78.6	95.6	192.3	428.1	1055.3	2080.9	2369.3	2340.6
40°	64.8	64.8	66.4	72.2	85.5	172.1	400.5	1051.1	2177.0	2509.5	2425.6
42.5°	60.6	60.6	63.2	66.9	81.2	158.8	379.7	1045.2	2257.7	2595.6	2475.5
45°	54.7	56.3	60.6	64.3	82.3	149.8	364.3	1022.9	2285.4	2594.5	2451.6
47.5°	50.5	52.6	56.9	62.1	74.3	147.1	353.7	1003.3	2275.8	2530.7	2376.8
50°	45.7	48.4	54.2	63.2	63.2	141.8	342.5	1020.8	2268.9	2481.4	2305.0
52°	42.5	44.6	52.1	61.6	55.3	130.7	335.6	1054.8	2297.1	2475.0	2273.1
52.5°	42.0	43.6	50.5	60.6	52.6	128.5	330.8	1062.8	2306.1	2459.1	2294.9
55°	37.2	39.3	46.2	47.3	43.1	105.7	315.5	1080.9	2261.4	2427.7	2274.2
57.5°	35.1	36.1	40.9	38.8	37.2	79.6	271.4	1052.7	2008.6	2156.3	2116.0
60°	32.4	33.5	38.3	30.3	31.4	55.8	203.9	914.1	1613.0	1796.8	1869.5
62.5°	31.4	30.8	36.1	24.5	26.6	40.4	143.9	743.0	1242.8	1479.2	1605.0
65°	27.6	27.1	26.0	20.7	22.9	31.4	86.0	484.9	875.8	1119.0	1188.1
67.5°	21.3	22.3	19.1	16.5	19.1	24.5	47.8	217.2	459.4	671.3	727.1
70°	14.9	15.9	15.4	14.4	17.0	20.2	27.6	74.3	190.2	352.6	388.8
72.5°	9.0	11.2	11.7	12.2	14.9	17.5	19.7	23.9	50.5	124.8	155.1
75°	5.3	7.4	9.0	10.6	12.2	14.9	16.5	17.0	17.5	23.4	37.7
77.5°	3.7	5.3	8.0	10.1	12.2	14.9	17.5	18.6	17.5	16.5	17.5
80°	3.2	5.3	7.4	9.6	12.8	15.4	17.5	17.5	17.0	14.9	15.9
82.5°	3.2	5.3	8.0	10.1	12.2	14.9	17.0	17.5	15.9	14.9	15.4
85°	3.7	5.8	8.5	10.6	13.3	12.2	11.2	9.0	8.5	6.9	7.4
87.5°	3.7	5.3	5.3	5.8	6.4	6.4	6.4	5.8	4.8	4.3	4.3
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°	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5	1357.5
2.5°	1483.4	1525.9	1524.3	1525.3	1519.0	1476.0	1455.3	1402.7	1417.5	1411.2
5°	1540.2	1582.2	1618.3	1614.0	1565.2	1506.7	1420.2	1338.4	1316.1	1283.2
7.5°	1483.4	1584.3	1617.7	1613.0	1540.8	1465.9	1327.8	1246.0	1207.3	1185.5
10°	1393.1	1509.9	1551.4	1559.9	1511.0	1397.3	1270.4	1139.2	1118.5	1080.9
12.5°	1341.6	1426.6	1452.1	1474.9	1457.9	1372.9	1226.9	1101.0	1072.4	1047.4
15°	1299.6	1350.1	1360.7	1386.7	1396.8	1351.2	1249.7	1142.4	1071.8	1069.2
17.5°	1338.4	1317.7	1278.9	1286.9	1318.8	1351.7	1308.7	1224.2	1155.7	1147.2
20°	1402.7	1311.3	1223.7	1243.3	1269.9	1370.8	1397.9	1338.4	1299.1	1277.3
22.5°	1476.5	1322.5	1206.2	1215.7	1266.2	1413.8	1542.4	1509.4	1436.1	1404.8
25°	1613.0	1353.3	1220.0	1226.3	1295.4	1473.9	1673.0	1697.5	1653.9	1647.5
27.5°	1746.3	1433.0	1250.2	1235.9	1310.3	1532.3	1752.1	1883.3	1806.9	1792.0
30°	1814.3	1497.7	1295.4	1270.9	1371.8	1567.9	1799.9	2004.4	1937.5	1930.6
32.5°	1918.4	1556.7	1330.5	1299.1	1406.4	1611.9	1889.1	2136.6	2071.9	2037.3
35°	1962.0	1620.9	1407.4	1370.8	1505.1	1673.5	1934.9	2254.6	2234.4	2200.9
37.5°	2045.8	1690.0	1498.2	1496.1	1624.6	1753.7	2017.1	2415.0	2411.2	2353.4
40°	2052.8	1765.4	1641.6	1708.6	1809.5	1893.4	2089.4	2459.6	2520.1	2480.9
42.5°	2063.4	1897.6	1889.7	1945.0	2031.5	2013.4	2092.1	2470.2	2562.6	2539.2
45°	2068.2	2029.9	2141.9	2244.0	2280.0	2170.6	2067.1	2450.0	2584.9	2526.5
47.5°	2029.9	2143.5	2346.0	2542.9	2553.6	2267.3	2056.5	2429.3	2598.2	2559.4
50°	2035.2	2214.8	2522.2	2698.6	2659.8	2352.9	2040.0	2416.5	2591.3	2565.3
52°	2022.5	2216.4	2547.2	2695.4	2668.3	2305.6	2011.8	2367.7	2584.9	2603.5
52.5°	2036.8	2206.8	2521.2	2697.5	2662.4	2328.9	2008.1	2394.8	2588.7	2550.9
55°	1987.5	2093.1	2368.8	2443.7	2438.3	2113.9	1893.9	2305.0	2491.5	2492.0
57.5°	1796.2	1814.3	1857.9	1856.3	1831.8	1661.8	1619.9	2119.7	2221.1	2165.9
60°	1582.7	1328.3	1211.0	1163.1	1136.0	1108.4	1433.0	1939.1	1948.7	1925.3
62.5°	1367.6	921.0	764.8	751.5	757.9	858.8	1385.1	1867.4	1810.0	1759.5
65°	1103.6	671.3	555.6	538.0	600.1	709.0	1121.2	1431.9	1343.7	1301.8
67.5°	693.1	489.7	375.5	342.5	417.5	488.1	736.6	899.7	800.9	743.0
70°	411.1	273.5	170.0	152.4	171.6	260.2	412.7	448.8	371.2	341.5
72.5°	162.0	100.4	47.3	40.4	42.0	91.3	151.9	148.2	112.1	99.8
75°	43.6	30.3	16.5	13.3	11.2	17.0	24.5	15.9	5.8	7.4
77.5°	20.2	18.1	14.4	11.2	8.5	6.4	3.2	1.1	1.1	0.5
80°	17.5	15.4	13.3	11.2	8.5	5.3	2.7	0.5	0.5	0.5
82.5°	16.5	14.4	12.2	10.1	8.0	5.3	2.7	0.5	0.0	0.0
85°	6.9	9.0	10.1	9.6	8.5	5.3	2.7	0.5	0.0	0.0
87.5°	3.7	3.2	2.7	2.1	1.6	1.1	1.1	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

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