

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: P526417

Luminaire Tested: **GALN-SA1B-760-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526417
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-760-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 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: 3183 lumens
Efficiency: N/A
Efficacy: 72.3 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

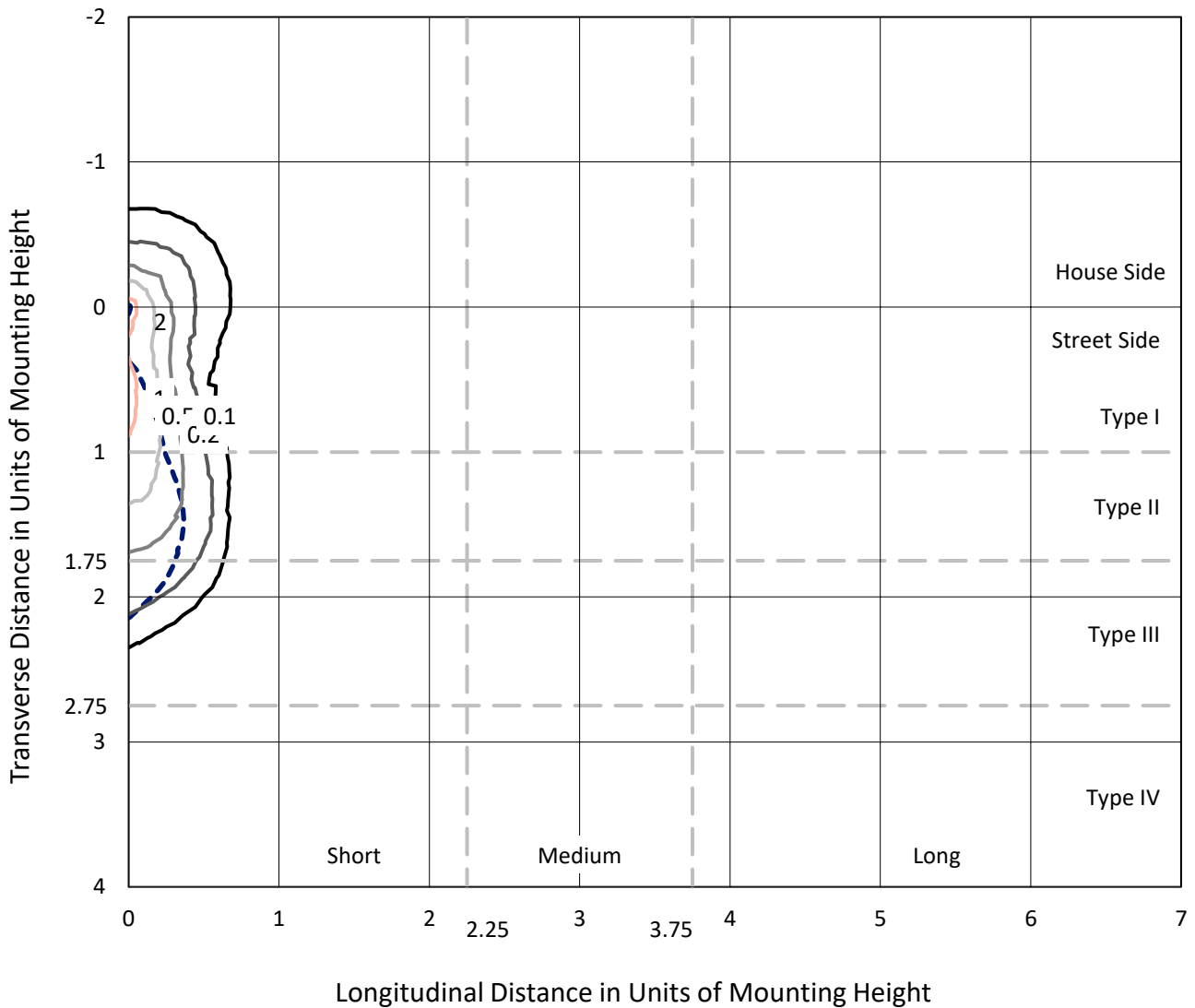
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

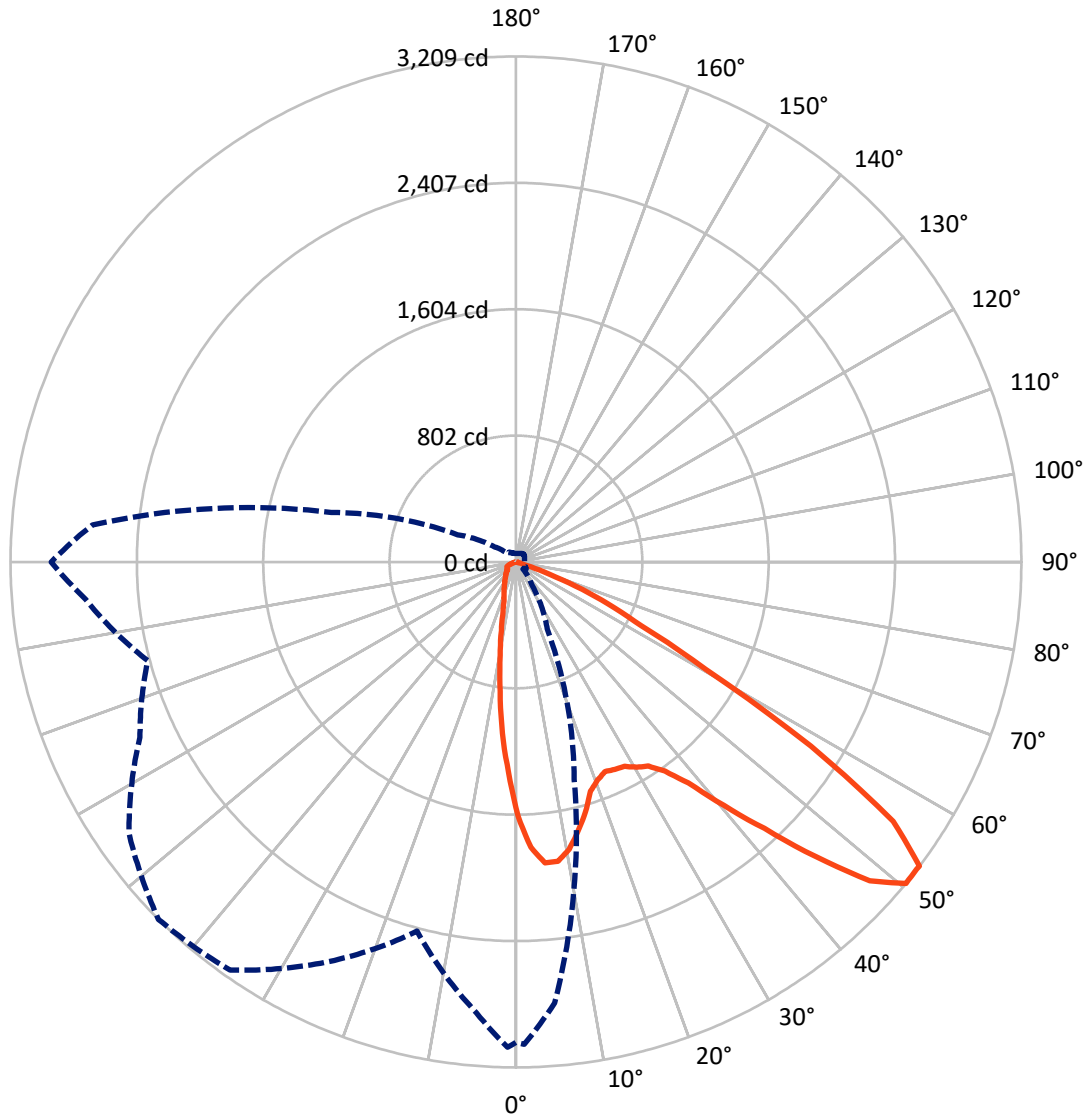
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	637.6	0.0	637.6
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	2545.4	0.0	2545.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	3183.0	0.0	3183.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.7
10°-20°	233.8	7.3
20°-30°	351.3	11.0
30°-40°	527.3	16.6
40°-50°	741.1	23.3
50°-60°	799.4	25.1
60°-70°	371.1	11.7
70°-80°	34.9	1.1
80°-90°	6.4	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°	3183.0	100.0
0°-180°	3183.0	100.0

Coefficient of Utilization



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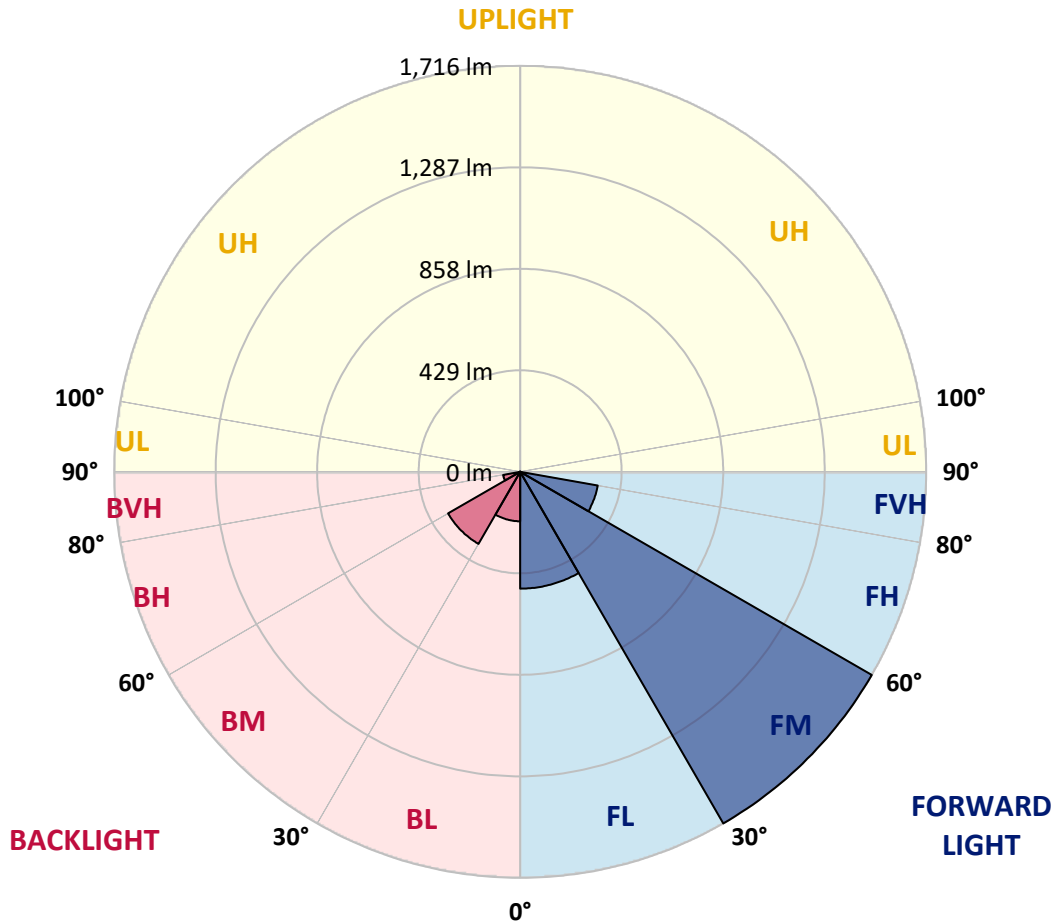
CATALOG NUMBER: GALN-SA1B-760-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.8	15.5			
FM (30°-60°)	1715.9	53.9			
FH (60°-80°)	332.9	10.5			G0/660
FVH (80°-90°)	2.9	0.1			G0/10
BL (0°-30°)	209.0	6.6	B1/500		
BM (30°-60°)	351.8	11.1	B1/1000		
BH (60°-80°)	73.2	2.3	B0/110		G0/110
BVH (80°-90°)	3.5	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°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1678.0	1652.1	1619.2	1592.1	1551.7	1470.2	1448.1	1421.6	1399.5	1369.8	1328.1
5°	1525.8	1517.6	1502.4	1400.1	1326.2	1227.7	1146.9	1112.8	1067.9	1031.3	1004.8
7.5°	1409.6	1376.7	1328.7	1225.8	1107.7	1002.2	912.6	860.1	800.8	780.6	744.6
10°	1285.2	1292.7	1222.0	1077.4	934.7	849.4	793.8	743.3	689.6	654.3	603.1
12.5°	1245.4	1220.7	1166.4	987.7	865.8	786.3	718.7	656.2	599.3	542.5	493.2
15°	1271.3	1233.4	1157.6	968.8	812.8	713.6	629.0	544.4	492.0	419.3	368.2
17.5°	1364.1	1333.8	1232.1	989.0	785.6	644.2	518.5	431.3	351.1	285.5	259.6
20°	1518.8	1475.9	1348.3	1014.9	745.2	560.2	420.6	313.2	237.5	209.7	195.1
22.5°	1670.4	1647.0	1486.0	1064.8	709.2	485.6	315.8	210.9	177.5	172.4	162.9
25°	1959.0	1888.9	1696.3	1155.1	681.4	415.5	238.1	169.9	150.3	146.5	147.8
27.5°	2130.8	2072.0	1890.8	1215.1	650.5	361.9	201.5	156.0	142.7	134.5	131.4
30°	2295.6	2227.4	1987.4	1250.4	584.2	305.0	178.7	149.7	146.5	134.5	130.7
32.5°	2422.5	2355.6	2127.0	1303.5	557.0	268.4	147.1	116.8	108.6	107.4	118.7
35°	2617.0	2545.7	2246.3	1332.5	536.2	249.5	127.6	104.2	94.7	90.9	91.6
37.5°	2798.3	2749.7	2356.9	1343.9	514.1	243.8	114.3	93.5	85.3	82.7	82.1
40°	2949.9	2841.2	2461.7	1355.9	504.6	233.0	106.1	85.3	79.6	75.8	75.8
42.5°	3019.3	2908.8	2579.2	1348.9	502.1	216.0	106.1	78.3	73.9	70.1	69.5
45°	3004.2	2959.3	2631.6	1345.8	502.1	198.9	96.6	76.4	70.1	65.0	63.8
47.5°	3043.3	2984.6	2697.3	1359.0	492.0	186.9	81.5	80.2	66.3	60.0	58.7
50°	3050.3	3061.6	2811.6	1427.9	469.9	171.8	63.8	78.9	63.8	54.3	53.0
52°	3095.7	3025.0	2846.3	1464.5	446.5	160.4	53.7	67.6	61.3	50.5	49.3
52.5°	3033.2	3079.3	2854.5	1477.8	449.0	152.8	51.8	66.3	60.0	50.5	47.4
55°	2963.1	3007.3	2821.0	1506.2	411.8	120.0	40.4	48.0	54.3	44.2	42.3
57.5°	2575.4	2620.2	2451.6	1379.3	335.3	84.6	33.5	36.0	48.0	41.0	39.2
60°	2289.3	2257.1	2057.5	1150.6	238.1	47.4	26.5	27.8	52.4	37.9	37.3
62.5°	2092.2	2023.4	1719.6	888.6	145.3	31.6	20.8	21.5	40.4	35.4	35.4
65°	1547.9	1470.8	1142.4	537.4	71.4	22.1	15.8	17.1	25.3	30.3	30.3
67.5°	883.5	853.8	552.0	242.5	29.7	13.9	12.0	13.3	19.6	24.6	23.4
70°	406.1	364.4	212.2	51.2	13.9	9.5	9.5	10.7	15.8	18.3	17.1
72.5°	118.7	112.4	51.8	8.2	5.7	5.7	6.3	8.2	12.0	13.9	12.6
75°	8.8	5.7	3.8	2.5	2.5	3.8	5.1	8.2	12.0	13.3	10.7
77.5°	0.6	1.3	0.6	0.6	1.9	3.8	5.7	10.1	15.8	16.4	12.0
80°	0.6	0.6	0.0	0.6	1.9	3.8	6.3	11.4	17.7	18.9	10.1
82.5°	0.0	0.0	0.0	0.6	2.5	5.1	7.6	12.0	16.4	20.2	10.7
85°	0.0	0.0	0.0	0.6	3.8	6.9	8.8	3.2	1.9	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°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1357.8	1341.4	1335.0	1340.7	1338.8	1336.9	1371.7	1364.1	1362.8	1374.2	1371.7
5°	1019.3	990.2	1069.8	1037.6	1071.1	1091.3	1095.1	1097.0	1120.3	1095.7	1127.9
7.5°	726.3	733.8	733.2	754.7	793.2	827.3	847.5	831.7	830.5	827.3	813.4
10°	580.4	567.1	564.6	559.5	571.5	600.6	625.2	605.6	591.7	610.7	605.0
12.5°	474.3	456.0	445.9	425.6	426.3	445.9	445.9	445.9	459.8	470.5	478.7
15°	363.8	348.6	348.6	328.4	324.0	324.6	334.7	336.0	358.1	364.4	367.5
17.5°	254.5	246.3	255.8	264.0	258.9	260.2	264.0	265.2	268.4	265.9	272.2
20°	195.8	194.5	197.0	211.6	222.3	228.6	224.2	217.9	214.1	205.2	205.2
22.5°	166.1	168.6	173.0	185.0	198.9	202.7	197.7	183.1	171.8	170.5	171.1
25°	147.8	150.3	157.3	164.8	172.4	178.7	173.7	162.9	156.6	150.9	150.9
27.5°	136.4	137.7	141.5	147.1	153.5	158.5	156.6	150.9	144.0	141.5	135.8
30°	127.6	129.5	133.9	135.1	140.8	143.4	140.2	138.9	134.5	131.4	129.5
32.5°	123.1	122.5	125.7	126.9	127.6	129.5	125.7	127.6	126.9	121.9	120.0
35°	92.8	97.9	106.1	113.0	114.9	117.5	116.8	114.3	107.4	101.7	94.7
37.5°	83.4	86.5	90.9	96.6	104.2	107.4	106.1	99.8	91.6	87.8	86.5
40°	77.0	78.9	82.7	86.5	94.1	99.8	95.4	89.7	83.4	80.2	78.3
42.5°	71.4	72.0	73.9	77.7	83.4	92.2	84.6	77.0	74.5	72.6	71.4
45°	65.0	65.0	67.6	69.5	75.8	84.0	76.4	69.5	68.2	66.9	66.3
47.5°	60.0	60.6	61.9	64.4	69.5	75.2	70.1	64.4	61.3	60.6	59.4
50°	53.7	54.3	56.8	59.4	65.7	68.8	65.7	59.4	56.2	54.3	54.3
52°	48.6	50.5	53.0	58.1	62.5	67.6	63.8	56.8	53.0	51.2	49.9
52.5°	48.0	49.3	51.8	57.5	62.5	66.9	63.2	56.2	51.8	50.5	49.3
55°	42.9	44.8	49.3	56.2	61.9	66.9	61.9	55.6	49.3	46.1	44.8
57.5°	41.0	42.3	48.0	56.8	61.3	66.9	61.9	55.6	49.3	43.6	42.3
60°	39.2	41.7	48.0	54.9	60.6	67.6	62.5	54.9	48.0	41.0	41.0
62.5°	37.3	39.2	47.4	53.7	58.1	65.0	60.0	53.7	46.1	39.2	38.5
65°	32.2	35.4	41.7	44.8	49.9	56.2	51.2	46.7	40.4	34.7	34.1
67.5°	24.6	25.9	30.9	34.7	37.9	43.6	41.0	35.4	30.9	26.5	26.5
70°	17.1	18.3	22.1	24.0	27.2	30.3	28.4	24.0	20.8	18.3	17.7
72.5°	12.0	12.6	13.9	15.2	16.4	17.7	17.1	13.9	12.0	11.4	10.7
75°	9.5	10.7	11.4	10.7	10.1	9.5	9.5	8.2	6.9	6.3	6.3
77.5°	9.5	10.1	9.5	8.2	6.9	6.3	5.7	5.1	3.8	3.2	3.8
80°	8.2	8.2	8.2	6.9	6.3	5.7	5.1	4.4	3.8	3.2	3.2
82.5°	8.8	8.8	8.2	6.9	6.9	5.7	5.7	5.1	4.4	3.2	3.2
85°	0.0	0.0	0.0	1.3	3.2	5.7	5.7	5.1	4.4	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.6	1.3	2.5	3.2	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°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1394.4	1418.4	1463.9	1509.3	1537.1	1570.0	1629.3	1660.9	1702.0	1722.2	1762.0
5°	1123.5	1180.3	1200.5	1252.3	1307.9	1363.5	1451.9	1549.1	1630.0	1685.5	1757.5
7.5°	819.7	833.0	911.3	946.0	1037.0	1138.0	1258.6	1381.1	1483.5	1574.4	1629.3
10°	614.5	663.1	712.4	778.7	851.9	956.1	1071.7	1206.8	1339.5	1430.4	1499.9
12.5°	493.9	532.4	598.1	669.4	759.7	828.6	944.8	1078.6	1250.4	1339.5	1431.0
15°	373.9	423.1	497.6	571.5	666.9	739.5	857.0	1025.6	1246.6	1369.1	1448.1
17.5°	277.2	310.7	377.7	460.4	557.6	659.9	818.5	1019.9	1288.9	1434.8	1516.3
20°	212.2	223.6	265.9	339.8	445.2	579.1	755.9	1044.5	1414.0	1594.6	1677.3
22.5°	171.8	176.8	193.2	244.4	346.7	508.4	726.3	1061.6	1554.8	1786.0	1896.5
25°	149.7	148.4	159.1	181.2	270.9	442.1	688.4	1126.0	1727.2	2010.8	2109.9
27.5°	136.4	136.4	141.5	157.3	224.8	399.1	664.4	1172.1	1900.9	2208.4	2262.1
30°	129.5	130.7	145.3	150.3	186.9	348.0	624.6	1218.8	2067.0	2334.8	2408.6
32.5°	120.0	114.9	111.8	124.4	157.3	301.9	584.8	1238.4	2201.5	2489.5	2552.6
35°	92.2	89.7	93.5	102.9	135.1	262.7	540.6	1260.5	2356.2	2668.8	2681.5
37.5°	83.4	82.7	85.3	93.5	113.7	228.6	509.0	1254.8	2474.3	2817.2	2783.1
40°	77.0	77.0	78.9	85.9	101.7	204.6	476.2	1249.8	2588.6	2984.0	2884.2
42.5°	72.0	72.0	75.2	79.6	96.6	188.8	451.5	1242.8	2684.6	3086.3	2943.5
45°	65.0	66.9	72.0	76.4	97.9	178.1	433.2	1216.3	2717.5	3085.0	2915.1
47.5°	60.0	62.5	67.6	73.9	88.4	174.9	420.6	1193.0	2706.1	3009.2	2826.1
50°	54.3	57.5	64.4	75.2	75.2	168.6	407.3	1213.8	2697.9	2950.5	2740.8
52°	50.5	53.0	61.9	73.3	65.7	155.4	399.1	1254.2	2731.4	2942.9	2702.9
52.5°	49.9	51.8	60.0	72.0	62.5	152.8	393.4	1263.7	2742.1	2924.0	2728.8
55°	44.2	46.7	54.9	56.2	51.2	125.7	375.1	1285.2	2689.0	2886.7	2704.2
57.5°	41.7	42.9	48.6	46.1	44.2	94.7	322.7	1251.7	2388.4	2564.0	2516.0
60°	38.5	39.8	45.5	36.0	37.3	66.3	242.5	1086.9	1917.9	2136.5	2223.0
62.5°	37.3	36.6	42.9	29.1	31.6	48.0	171.1	883.5	1477.8	1758.8	1908.5
65°	32.8	32.2	30.9	24.6	27.2	37.3	102.3	576.6	1041.4	1330.6	1412.7
67.5°	25.3	26.5	22.7	19.6	22.7	29.1	56.8	258.3	546.3	798.2	864.6
70°	17.7	18.9	18.3	17.1	20.2	24.0	32.8	88.4	226.1	419.3	462.3
72.5°	10.7	13.3	13.9	14.5	17.7	20.8	23.4	28.4	60.0	148.4	184.4
75°	6.3	8.8	10.7	12.6	14.5	17.7	19.6	20.2	20.8	27.8	44.8
77.5°	4.4	6.3	9.5	12.0	14.5	17.7	20.8	22.1	20.8	19.6	20.8
80°	3.8	6.3	8.8	11.4	15.2	18.3	20.8	20.8	20.2	17.7	18.9
82.5°	3.8	6.3	9.5	12.0	14.5	17.7	20.2	20.8	18.9	17.7	18.3
85°	4.4	6.9	10.1	12.6	15.8	14.5	13.3	10.7	10.1	8.2	8.8
87.5°	4.4	6.3	6.3	6.9	7.6	7.6	7.6	6.9	5.7	5.1	5.1
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°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1763.9	1814.4	1812.5	1813.7	1806.2	1755.0	1730.4	1667.9	1685.5	1678.0
5°	1831.4	1881.3	1924.3	1919.2	1861.1	1791.6	1688.7	1591.4	1564.9	1525.8
7.5°	1763.9	1883.8	1923.6	1917.9	1832.1	1743.0	1578.8	1481.6	1435.5	1409.6
10°	1656.5	1795.4	1844.7	1854.8	1796.7	1661.5	1510.6	1354.6	1330.0	1285.2
12.5°	1595.2	1696.3	1726.6	1753.7	1733.5	1632.5	1458.8	1309.2	1275.1	1245.4
15°	1545.3	1605.3	1618.0	1648.9	1660.9	1606.6	1486.0	1358.4	1274.4	1271.3
17.5°	1591.4	1566.8	1520.7	1530.2	1568.1	1607.2	1556.1	1455.7	1374.2	1364.1
20°	1667.9	1559.2	1455.0	1478.4	1510.0	1630.0	1662.2	1591.4	1544.7	1518.8
22.5°	1755.6	1572.5	1434.2	1445.6	1505.6	1681.1	1834.0	1794.8	1707.6	1670.4
25°	1917.9	1609.1	1450.6	1458.2	1540.3	1752.5	1989.3	2018.4	1966.6	1959.0
27.5°	2076.5	1703.9	1486.6	1469.6	1558.0	1822.0	2083.4	2239.4	2148.5	2130.8
30°	2157.3	1780.9	1540.3	1511.2	1631.2	1864.3	2140.2	2383.4	2303.8	2295.6
32.5°	2281.1	1851.0	1582.0	1544.7	1672.3	1916.7	2246.3	2540.6	2463.6	2422.5
35°	2332.9	1927.4	1673.5	1630.0	1789.7	1989.9	2300.7	2680.8	2656.8	2617.0
37.5°	2432.6	2009.5	1781.5	1779.0	1931.8	2085.3	2398.5	2871.6	2867.1	2798.3
40°	2440.9	2099.2	1952.0	2031.6	2151.6	2251.4	2484.4	2924.6	2996.6	2949.9
42.5°	2453.5	2256.4	2247.0	2312.7	2415.6	2394.1	2487.6	2937.2	3047.1	3019.3
45°	2459.2	2413.7	2546.9	2668.2	2711.1	2581.0	2457.9	2913.2	3073.6	3004.2
47.5°	2413.7	2548.8	2789.5	3023.7	3036.4	2696.0	2445.3	2888.6	3089.4	3043.3
50°	2420.0	2633.5	2999.1	3208.8	3162.7	2797.7	2425.7	2873.4	3081.2	3050.3
52°	2404.9	2635.4	3028.8	3205.0	3172.8	2741.5	2392.2	2815.3	3073.6	3095.7
52.5°	2421.9	2624.0	2997.9	3207.5	3165.8	2769.2	2387.8	2847.6	3078.1	3033.2
55°	2363.2	2488.8	2816.6	2905.7	2899.3	2513.5	2252.0	2740.8	2962.5	2963.1
57.5°	2135.8	2157.3	2209.1	2207.2	2178.1	1976.0	1926.2	2520.4	2641.0	2575.4
60°	1881.9	1579.4	1439.9	1383.0	1350.8	1318.0	1703.9	2305.7	2317.1	2289.3
62.5°	1626.2	1095.1	909.4	893.6	901.2	1021.2	1647.0	2220.4	2152.2	2092.2
65°	1312.3	798.2	660.6	639.7	713.6	843.1	1333.2	1702.6	1597.8	1547.9
67.5°	824.1	582.3	446.5	407.3	496.4	580.4	875.9	1069.8	952.3	883.5
70°	488.8	325.2	202.1	181.2	204.0	309.4	490.7	533.6	441.4	406.1
72.5°	192.6	119.4	56.2	48.0	49.9	108.6	180.6	176.2	133.3	118.7
75°	51.8	36.0	19.6	15.8	13.3	20.2	29.1	18.9	6.9	8.8
77.5°	24.0	21.5	17.1	13.3	10.1	7.6	3.8	1.3	1.3	0.6
80°	20.8	18.3	15.8	13.3	10.1	6.3	3.2	0.6	0.6	0.6
82.5°	19.6	17.1	14.5	12.0	9.5	6.3	3.2	0.6	0.0	0.0
85°	8.2	10.7	12.0	11.4	10.1	6.3	3.2	0.6	0.0	0.0
87.5°	4.4	3.8	3.2	2.5	1.9	1.3	1.3	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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