

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: P450436

Luminaire Tested: **GALN-SA1B-727-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450436
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 3458 lumens
Efficiency: N/A
Efficacy: 78.6 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 (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

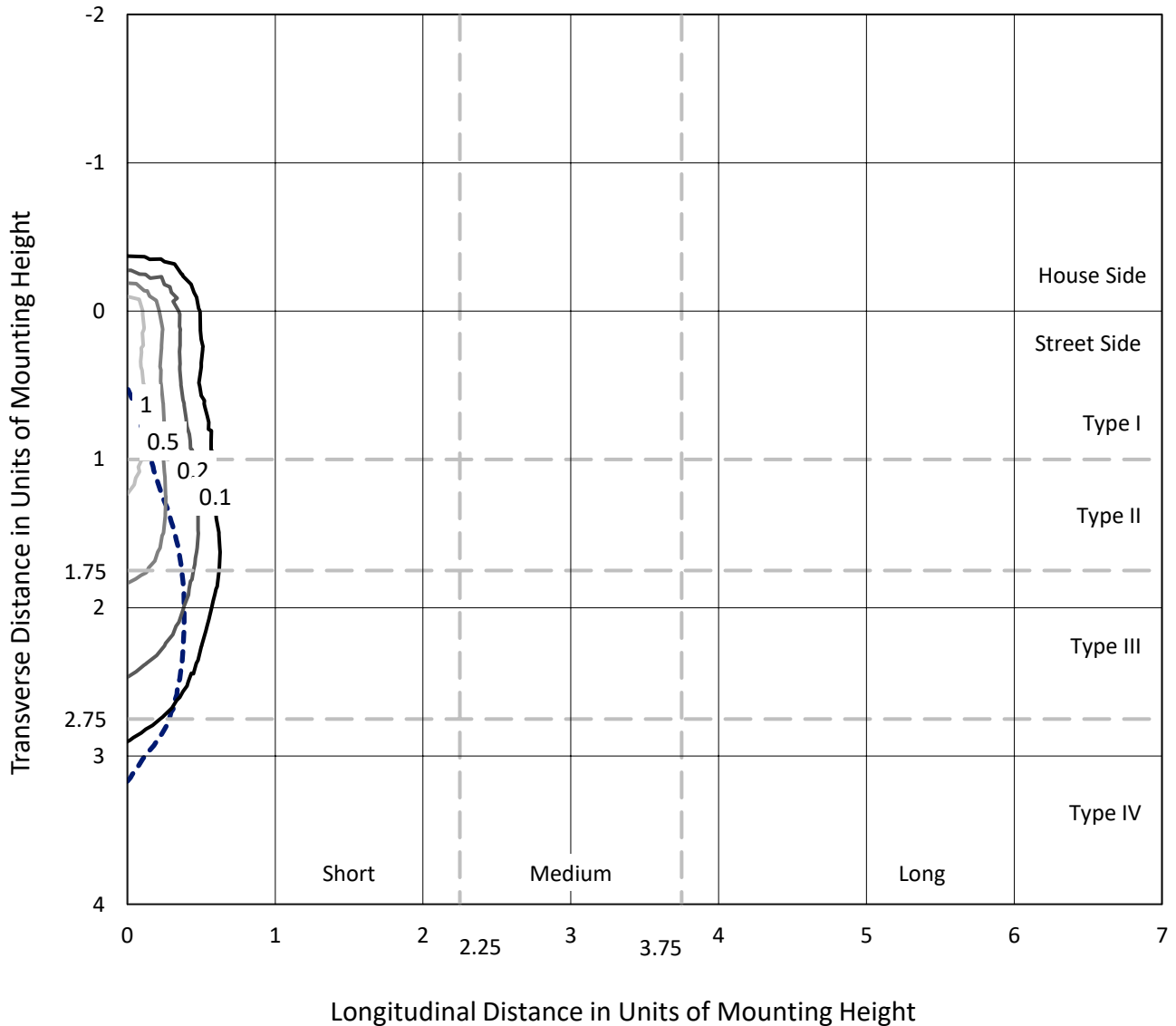




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Iso-Footcandle Lines of Horizontal Illumination

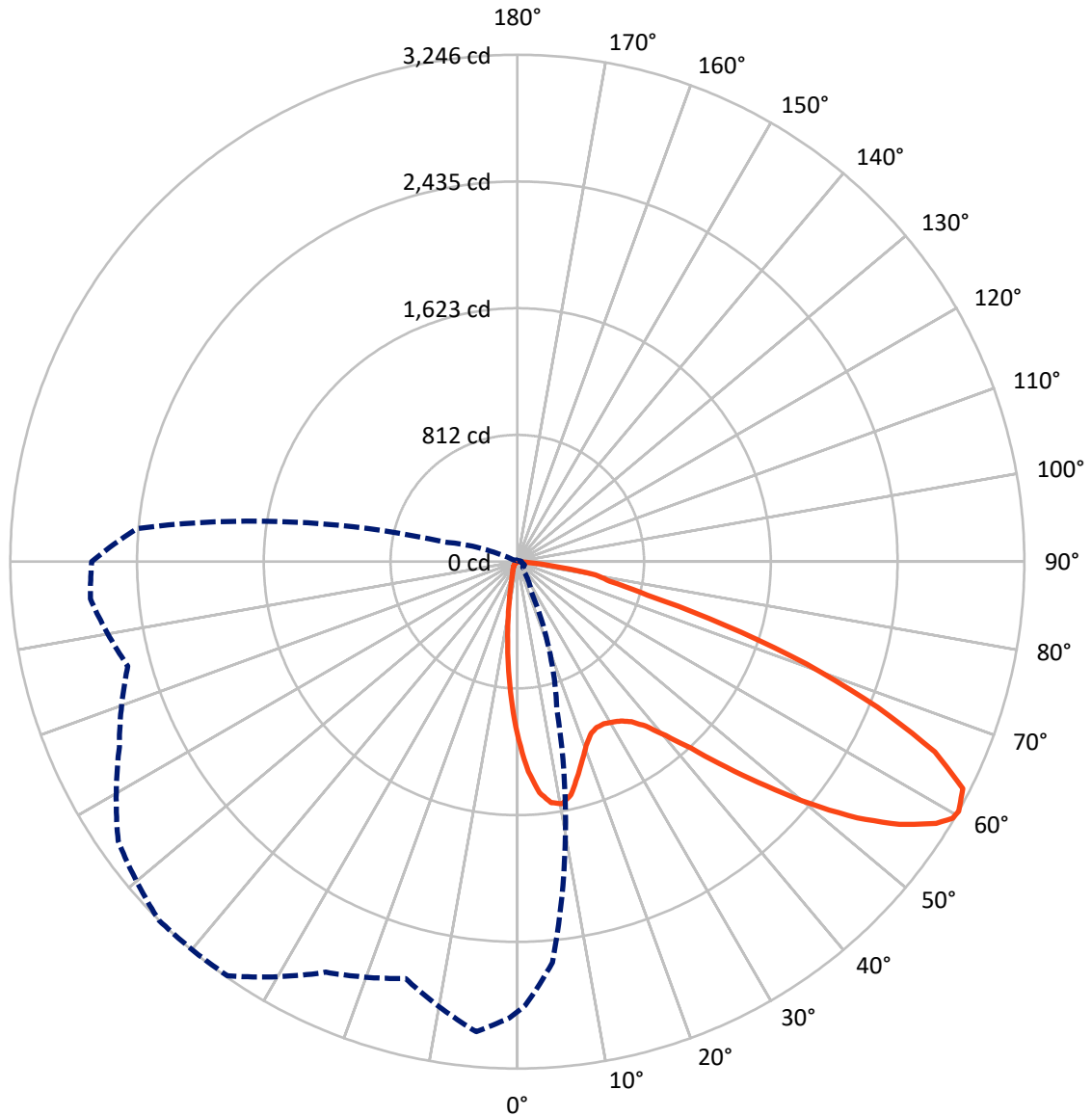
× Max cd
 - - - 1/2 Max cd



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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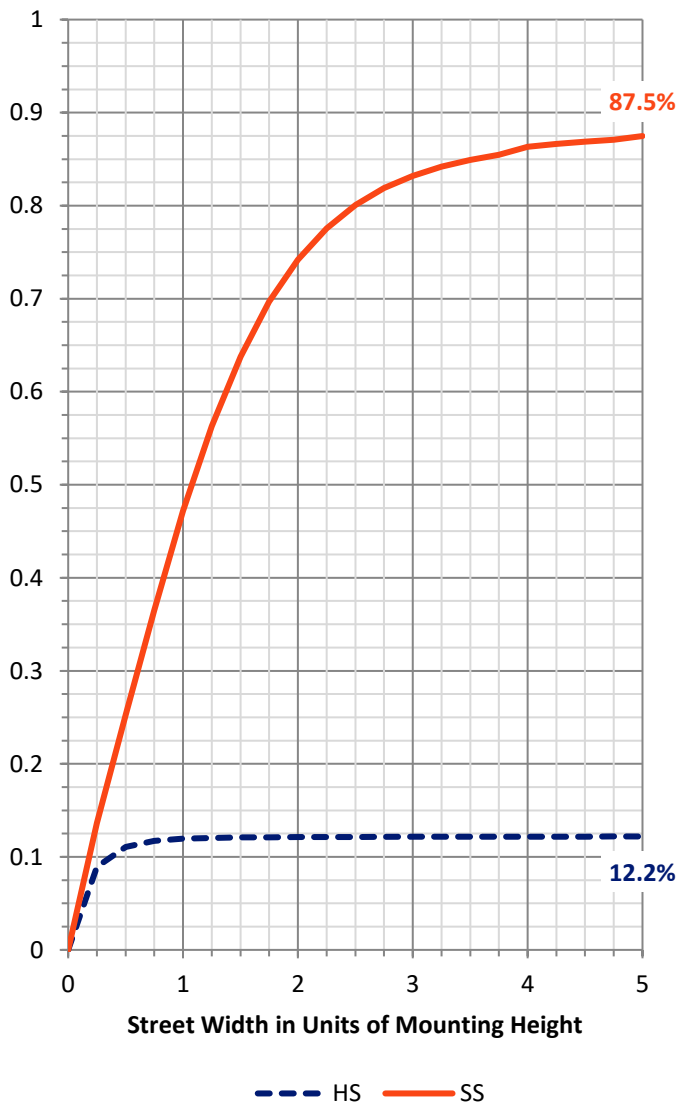
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.5	0.0	426.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3031.5	0.0	3031.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	3458.0	0.0	3458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	2.5
10°-20°	168.8	4.9
20°-30°	247.5	7.2
30°-40°	368.1	10.6
40°-50°	535.8	15.5
50°-60°	772.6	22.3
60°-70°	849.8	24.6
70°-80°	380.6	11.0
80°-90°	49.7	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°	3458.0	100.0
0°-180°	3458.0	100.0

Coefficient of Utilization



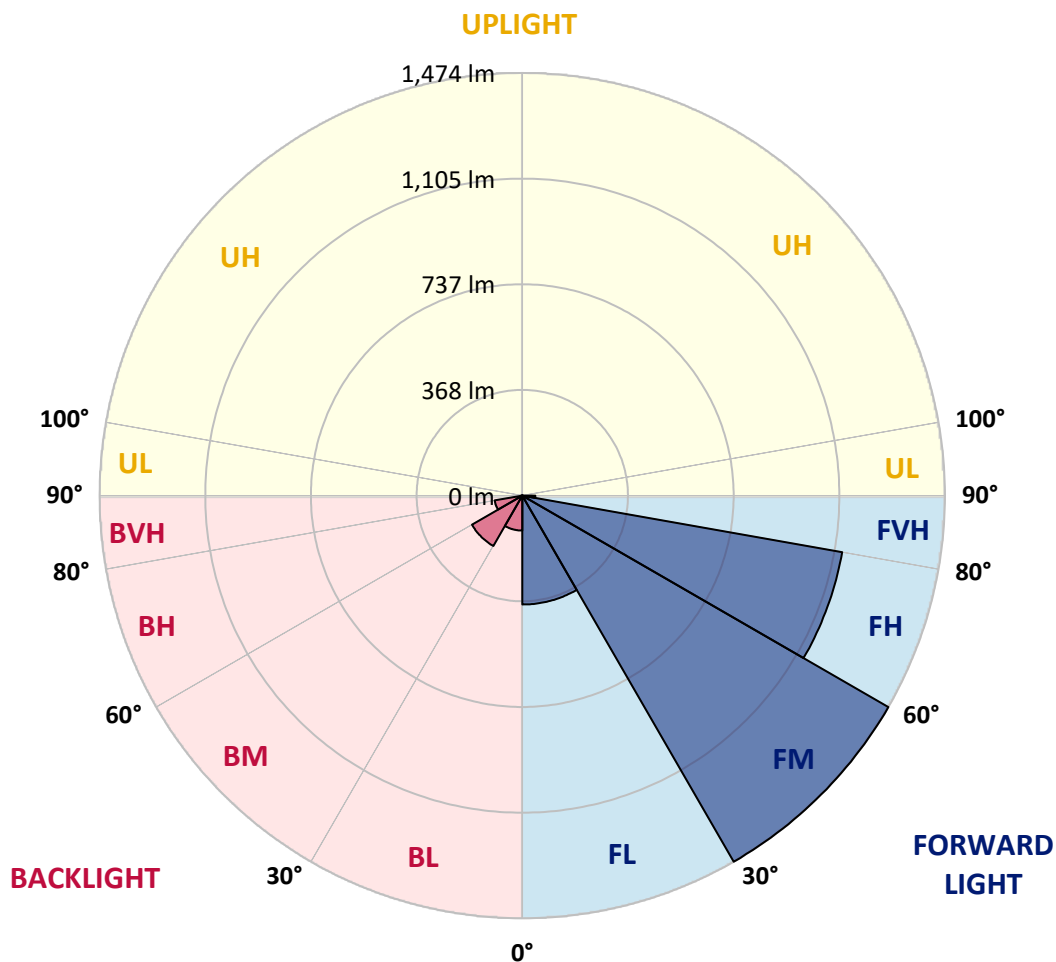
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.5	11.0			
FM (30°-60°)	1473.9	42.6			
FH (60°-80°)	1132.6	32.8			G1/1800
FVH (80°-90°)	45.5	1.3			G1/100
BL (0°-30°)	121.9	3.5	B1/500		
BM (30°-60°)	202.6	5.9	B0/220		
BH (60°-80°)	97.8	2.8	B0/110		G0/110
BVH (80°-90°)	4.2	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°	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9
2.5°	1256.5	1251.0	1238.3	1200.0	1166.6	1122.9	1078.8	1044.1	1022.8	983.6	965.8
5°	1217.3	1219.9	1183.4	1104.5	1016.7	956.8	891.4	839.3	782.0	745.7	707.6
7.5°	1115.1	1109.8	1070.1	960.2	853.5	766.8	684.0	616.7	574.4	540.4	512.1
10°	1027.5	1023.6	972.8	831.4	716.8	651.9	595.9	537.0	491.5	441.9	402.2
12.5°	972.6	963.6	905.3	757.6	664.2	603.8	542.8	481.6	418.7	368.5	320.4
15°	954.2	941.3	876.4	732.1	630.6	553.8	477.4	406.9	334.6	279.2	242.9
17.5°	987.6	966.3	897.1	727.6	590.4	488.7	394.6	302.8	227.6	185.3	163.0
20°	1064.1	1039.6	949.7	723.1	545.7	415.6	299.9	214.0	157.5	134.3	122.0
22.5°	1177.6	1144.0	1027.5	730.2	504.4	344.3	216.6	151.1	125.1	110.7	102.0
25°	1314.0	1285.9	1126.1	755.5	471.8	288.4	167.4	123.5	105.4	96.5	89.9
27.5°	1463.6	1418.7	1253.6	785.7	442.1	245.0	146.9	110.4	93.8	85.7	82.3
30°	1570.1	1535.1	1360.3	806.7	405.1	212.4	134.3	108.8	94.1	84.4	78.1
32.5°	1675.2	1630.5	1449.7	816.4	378.0	189.8	116.2	94.9	82.5	77.5	71.2
35°	1787.7	1740.9	1538.8	811.2	357.8	174.8	105.4	84.6	70.7	62.3	56.0
37.5°	1901.5	1852.1	1627.4	792.3	345.1	168.8	97.0	80.4	66.8	58.1	51.3
40°	2036.6	1970.7	1710.4	776.8	332.0	165.6	91.5	77.8	63.9	54.7	47.8
42.5°	2147.0	2084.2	1789.0	768.6	323.1	158.2	91.5	75.7	62.0	51.8	44.7
45°	2251.7	2186.5	1873.9	775.2	319.4	149.0	92.5	75.4	60.7	49.7	42.6
47.5°	2339.2	2282.7	1961.2	799.9	314.6	139.1	87.0	79.1	59.9	47.8	40.5
50°	2442.5	2387.8	2076.6	849.8	306.2	129.1	80.2	85.2	59.7	46.3	38.6
52.5°	2588.1	2529.0	2235.9	906.6	292.8	113.8	73.9	84.4	58.6	43.6	36.8
55°	2766.1	2718.2	2420.4	974.7	274.4	96.7	63.9	74.9	55.5	39.2	33.6
57.5°	2880.2	2839.4	2558.7	1004.1	246.3	79.1	56.3	62.8	50.7	35.0	30.0
59°	2893.6	2856.8	2587.6	994.4	227.9	72.3	52.6	53.9	49.4	32.6	27.9
60°	2882.3	2844.2	2576.0	975.5	210.8	67.6	49.4	47.8	49.7	31.3	26.3
62.5°	2809.7	2744.5	2463.8	879.5	184.3	62.0	43.9	39.2	43.9	28.1	23.4
65°	2669.6	2571.8	2241.7	744.4	173.8	58.9	37.3	32.9	33.4	24.7	20.2
67.5°	2424.9	2301.6	1946.0	604.8	169.3	59.1	31.5	29.4	25.8	21.0	17.9
70°	2038.0	1914.9	1561.4	497.6	167.2	59.1	26.8	25.2	21.6	17.6	15.5
72.5°	1444.2	1311.7	1053.3	390.9	150.6	58.9	22.9	22.9	17.6	14.7	12.6
75°	815.9	817.0	662.1	276.5	125.1	48.6	18.4	18.1	12.9	11.3	9.5
77.5°	475.5	467.1	446.3	118.8	58.1	22.1	12.9	11.0	8.9	8.1	6.8
80°	244.5	201.1	195.8	43.1	20.8	13.9	8.9	6.3	5.8	5.3	4.7
82.5°	72.3	72.5	64.7	17.3	11.6	9.2	4.5	3.4	3.2	2.9	2.9
85°	5.0	3.2	3.7	5.3	7.1	3.7	0.3	0.8	0.8	1.1	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°	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9
2.5°	946.0	957.6	936.0	936.6	918.7	924.5	903.5	910.3	897.9	907.4	935.3
5°	711.8	714.5	697.1	691.6	694.2	705.0	709.2	690.0	698.2	682.1	681.1
7.5°	501.5	504.7	494.7	493.4	512.3	507.8	516.0	496.3	477.6	485.8	470.8
10°	389.6	376.4	355.9	350.1	346.5	348.8	348.8	330.9	328.3	321.2	332.0
12.5°	307.5	291.5	272.1	245.8	239.2	238.7	229.0	213.2	208.2	202.1	211.1
15°	223.4	216.9	200.6	185.8	170.9	168.0	152.2	139.3	122.2	119.9	119.1
17.5°	157.2	147.5	147.2	138.8	130.1	124.3	109.6	94.9	88.3	87.5	87.5
20°	117.8	114.3	108.8	107.8	105.1	98.6	85.4	77.5	74.4	74.7	75.7
22.5°	99.1	96.7	91.7	89.4	88.3	82.5	72.8	67.6	66.0	66.0	66.2
25°	88.6	86.5	81.0	77.3	76.0	71.8	64.1	60.2	58.9	58.9	58.9
27.5°	80.7	78.1	72.3	69.1	66.8	62.0	57.3	53.4	52.0	52.0	52.3
30°	75.2	72.3	67.0	62.8	59.1	54.9	51.0	47.6	46.0	45.7	46.0
32.5°	67.8	65.2	59.9	57.3	53.1	48.1	44.9	41.8	40.2	40.5	40.2
35°	52.8	52.0	48.4	49.2	46.8	42.6	39.7	36.3	34.4	34.2	34.7
37.5°	48.1	44.9	40.7	41.0	40.2	38.6	33.9	30.2	28.9	28.9	29.2
40°	44.4	41.3	36.5	34.2	34.4	34.4	29.4	25.5	24.2	23.9	24.4
42.5°	41.3	38.1	32.9	28.9	27.9	29.2	25.0	21.0	19.7	19.2	19.7
45°	39.2	35.7	29.7	25.2	22.1	23.7	20.5	17.3	15.8	15.8	15.5
47.5°	37.1	33.9	27.3	21.8	18.4	17.6	16.8	13.9	12.4	12.1	12.4
50°	35.2	32.1	24.7	18.9	15.5	13.7	13.7	11.0	10.0	9.5	9.7
52.5°	33.4	30.0	22.3	16.8	13.4	11.0	9.7	8.9	8.1	7.9	8.1
55°	30.8	27.3	20.0	14.5	11.6	9.2	7.6	7.4	6.8	6.3	6.8
57.5°	27.6	24.4	17.6	12.4	9.2	7.1	6.3	6.0	5.5	5.3	5.3
59°	25.8	22.9	16.3	10.8	8.1	6.3	5.8	5.5	5.0	4.5	4.7
60°	24.7	22.3	15.5	10.0	7.4	5.8	5.3	5.0	4.5	4.2	4.5
62.5°	21.8	20.0	13.7	8.1	5.8	4.2	3.7	3.9	3.7	3.4	3.7
65°	19.2	17.6	11.6	6.3	4.5	2.9	2.6	3.4	3.2	2.9	3.2
67.5°	17.1	15.2	9.7	4.7	3.2	1.6	1.8	2.9	2.9	2.6	2.9
70°	14.7	13.1	7.9	3.4	1.6	0.8	1.3	2.1	2.6	2.4	2.6
72.5°	12.1	10.3	6.0	2.4	0.8	0.0	0.8	1.8	2.6	2.4	2.6
75°	9.5	7.6	4.5	1.3	0.0	0.0	0.3	1.6	2.6	2.4	2.6
77.5°	6.8	5.5	2.6	0.3	0.0	0.0	0.3	1.6	2.6	2.4	2.6
80°	4.5	3.9	1.1	0.0	0.0	0.0	0.3	1.6	2.6	2.6	2.9
82.5°	2.9	2.1	0.0	0.0	0.0	0.0	0.5	2.1	2.9	3.2	3.2
85°	1.3	0.0	0.0	0.0	0.0	0.0	1.1	2.6	3.4	3.4	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.8	3.2	3.9	3.9	3.9
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°	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9
2.5°	940.0	956.6	979.9	1016.0	1045.1	1091.1	1126.4	1174.5	1223.1	1237.8	1260.7
5°	691.8	713.1	766.2	814.6	845.1	942.4	1003.9	1100.9	1187.9	1229.7	1275.1
7.5°	480.5	505.7	546.2	613.8	677.9	757.0	856.4	967.3	1094.8	1154.5	1218.6
10°	337.3	368.8	425.8	481.3	562.0	637.2	735.2	857.7	998.3	1068.8	1149.2
12.5°	212.9	241.0	316.5	378.8	479.5	566.7	657.2	768.1	931.1	1003.3	1087.7
15°	121.7	145.4	180.6	260.5	372.2	487.6	600.4	729.2	896.6	985.7	1076.9
17.5°	90.7	97.0	112.8	158.0	259.7	394.6	548.1	717.3	920.0	1024.6	1128.7
20°	76.2	80.4	87.8	105.7	165.6	303.9	497.1	719.4	995.7	1127.1	1226.0
22.5°	68.3	71.0	77.0	88.6	113.0	221.3	437.4	731.8	1087.5	1253.1	1367.1
25°	59.9	63.3	68.6	78.6	94.1	153.5	378.5	759.4	1216.0	1412.9	1520.1
27.5°	53.4	56.5	61.8	71.0	82.5	117.2	309.9	783.1	1351.6	1573.7	1661.5
30°	46.8	49.9	55.2	62.6	73.1	94.9	236.0	797.0	1483.3	1694.4	1762.0
32.5°	41.3	43.9	48.9	55.5	64.1	80.4	186.1	782.5	1584.0	1804.0	1849.2
35°	35.7	38.9	43.1	49.2	56.8	68.6	154.8	732.6	1670.5	1916.8	1933.1
37.5°	30.0	33.6	38.1	43.6	49.7	63.1	124.3	677.4	1763.0	2057.4	2030.6
40°	25.2	28.7	32.9	38.9	44.4	57.8	95.7	618.5	1862.9	2189.4	2137.1
42.5°	20.5	24.2	29.2	34.7	43.9	50.5	74.1	557.5	1952.5	2304.2	2233.3
45°	16.3	19.5	24.7	31.8	43.6	43.4	57.3	497.3	2020.1	2386.2	2305.0
47.5°	12.9	15.5	20.8	31.0	40.2	36.8	46.0	460.0	2091.1	2460.1	2360.0
50°	10.3	12.9	17.9	32.3	35.2	31.5	38.6	466.1	2159.7	2497.7	2382.6
52.5°	8.7	11.3	15.5	25.5	27.1	27.6	33.9	493.9	2248.2	2537.9	2427.5
55°	7.6	10.0	13.1	17.9	21.0	24.7	31.0	514.2	2366.8	2624.1	2526.6
57.5°	6.0	8.7	11.8	15.2	17.3	21.6	28.7	515.7	2474.0	2734.8	2658.3
59°	5.5	7.9	11.0	14.5	15.5	19.5	27.1	502.3	2478.0	2751.4	2718.8
60°	5.0	7.6	10.5	13.4	14.7	18.4	25.8	486.8	2442.2	2725.1	2743.7
62.5°	4.2	6.6	9.2	10.8	12.6	15.2	22.3	430.6	2269.0	2606.0	2697.5
65°	3.7	5.8	7.9	8.9	10.5	13.1	19.7	344.6	2077.7	2444.6	2565.0
67.5°	3.4	5.3	6.8	7.6	9.2	12.1	17.6	243.4	1829.8	2239.8	2366.0
70°	3.2	5.0	6.0	7.1	8.1	10.3	15.0	141.9	1409.5	1880.8	2014.0
72.5°	3.2	4.7	5.3	6.0	7.1	9.2	13.9	76.8	963.6	1434.7	1606.9
75°	3.2	4.5	4.7	5.3	6.3	8.4	12.4	40.2	623.0	996.8	1230.2
77.5°	3.2	4.2	4.7	5.0	6.0	7.4	10.8	25.2	415.1	698.2	831.4
80°	3.4	4.2	4.5	5.0	5.8	6.8	8.9	16.8	243.9	420.1	506.0
82.5°	3.7	4.2	4.7	5.3	6.0	6.6	7.9	10.5	112.5	277.8	314.4
85°	3.9	4.5	5.0	5.5	6.3	6.6	7.4	7.6	18.4	125.4	169.5
87.5°	4.2	4.7	5.3	5.8	6.8	6.8	6.8	6.8	6.3	13.4	34.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9	1142.9
2.5°	1289.6	1319.3	1340.1	1345.3	1330.3	1323.5	1304.6	1275.1	1257.3	1256.5
5°	1359.0	1428.6	1477.0	1485.2	1456.2	1407.4	1349.3	1274.3	1230.5	1217.3
7.5°	1347.2	1469.1	1546.9	1558.2	1509.6	1416.3	1303.8	1183.1	1135.3	1115.1
10°	1298.5	1447.3	1558.5	1576.4	1511.4	1380.0	1237.0	1102.4	1043.0	1027.5
12.5°	1257.0	1407.4	1506.2	1530.9	1481.7	1350.6	1197.1	1050.7	987.0	972.6
15°	1238.9	1360.0	1420.5	1433.1	1425.0	1332.2	1192.9	1042.8	970.0	954.2
17.5°	1257.0	1319.8	1327.4	1340.3	1358.5	1330.3	1233.3	1085.6	1007.0	987.6
20°	1304.6	1284.9	1253.3	1258.8	1300.4	1338.0	1305.4	1180.5	1084.8	1064.1
22.5°	1385.5	1276.2	1204.7	1200.0	1252.5	1363.5	1411.0	1309.0	1198.1	1177.6
25°	1484.9	1298.0	1186.8	1176.6	1233.9	1400.8	1525.9	1466.5	1345.3	1314.0
27.5°	1593.2	1343.2	1186.8	1176.8	1232.3	1433.9	1624.2	1605.8	1497.8	1463.6
30°	1652.6	1380.5	1203.9	1192.6	1251.7	1453.1	1676.8	1729.6	1612.4	1570.1
32.5°	1705.7	1432.3	1237.3	1216.0	1292.5	1481.5	1723.8	1834.8	1703.6	1675.2
35°	1754.6	1487.8	1283.3	1258.6	1346.1	1520.4	1775.9	1945.2	1830.6	1787.7
37.5°	1808.5	1552.2	1355.0	1334.0	1435.7	1596.1	1837.7	2090.3	1955.4	1901.5
40°	1867.1	1626.8	1473.1	1464.1	1578.2	1681.8	1915.7	2245.1	2097.9	2036.6
42.5°	1926.8	1712.8	1617.6	1632.4	1739.6	1801.9	1995.9	2364.2	2214.6	2147.0
45°	1980.9	1822.7	1805.6	1878.4	1927.8	1919.1	2055.3	2448.0	2316.3	2251.7
47.5°	2049.3	1982.8	2033.0	2145.2	2146.5	2046.6	2100.3	2516.6	2403.9	2339.2
50°	2125.8	2171.8	2326.6	2440.9	2410.2	2172.0	2152.8	2597.9	2494.3	2442.5
52.5°	2214.3	2383.4	2597.9	2724.8	2653.1	2308.7	2240.4	2685.6	2637.8	2588.1
55°	2317.4	2527.7	2868.3	2969.5	2897.3	2478.5	2373.4	2804.7	2800.0	2766.1
57.5°	2433.8	2680.1	3025.0	3162.0	3097.6	2677.8	2559.2	2917.0	2899.1	2880.2
59°	2525.8	2758.5	3094.1	3236.1	3197.2	2817.3	2684.1	2986.9	2922.0	2893.6
60°	2581.6	2811.6	3119.6	3246.1	3237.1	2900.4	2763.2	3021.1	2921.7	2882.3
62.5°	2746.9	2904.3	3109.9	3201.6	3236.6	3059.7	2995.3	3058.6	2867.5	2809.7
65°	2805.8	2873.6	2948.8	2937.5	2967.4	3051.6	3143.6	3017.4	2751.9	2669.6
67.5°	2691.2	2536.3	2562.9	2487.5	2472.7	2713.0	3083.4	2815.5	2525.6	2424.9
70°	2268.5	1943.1	1929.7	1964.4	1869.2	2196.5	2768.7	2426.7	2152.0	2038.0
72.5°	1785.6	1373.2	1260.2	1387.9	1385.0	1675.7	2300.0	1722.0	1453.9	1444.2
75°	1404.2	956.0	839.1	859.8	899.8	1213.1	1831.9	1093.5	895.3	815.9
77.5°	942.6	677.4	631.9	606.4	649.5	778.9	1159.0	593.0	502.1	475.5
80°	543.3	492.1	558.8	507.3	530.5	490.8	576.5	272.1	225.8	244.5
82.5°	353.5	280.2	298.6	221.9	303.3	306.0	185.1	80.4	68.1	72.3
85°	221.1	131.4	73.9	52.6	104.6	192.4	57.8	5.0	5.8	5.0
87.5°	57.3	21.8	9.2	13.7	16.8	15.0	13.4	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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