

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: P450437

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4151 lumens
Efficiency: N/A
Efficacy: 94.3 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

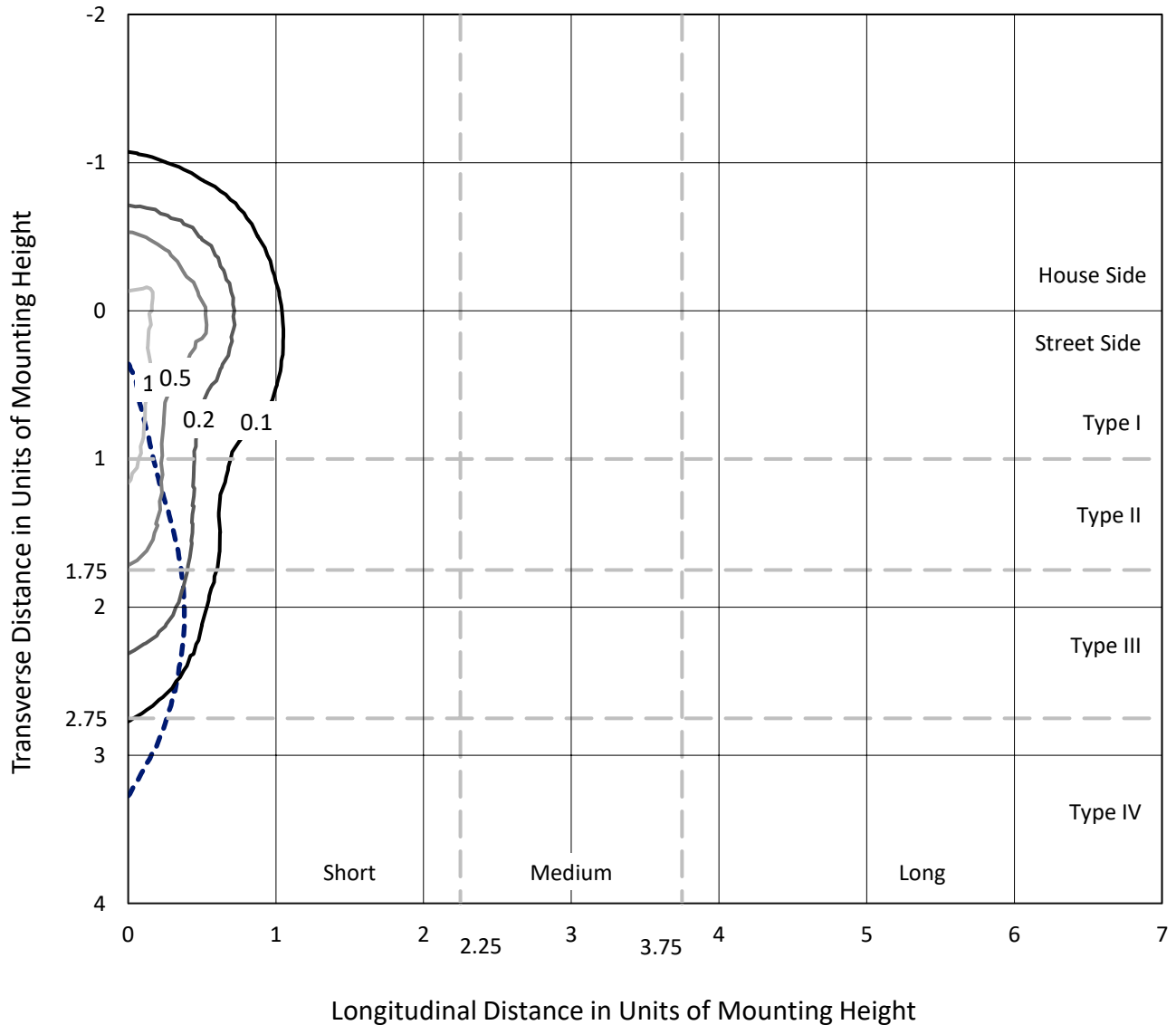
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

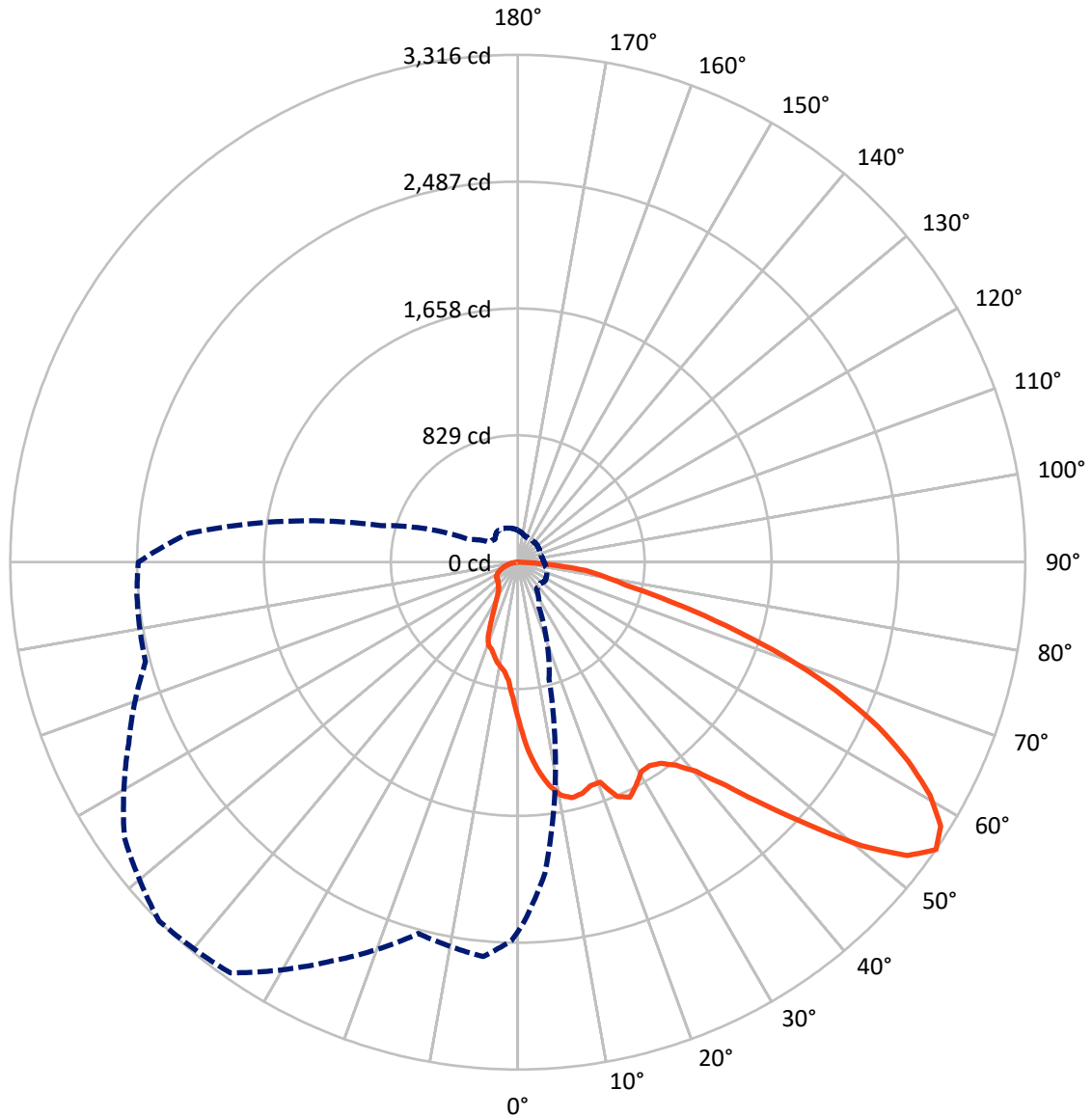
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	908.0	0.0	908.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3243.0	0.0	3243.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	4151.0	0.0	4151.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	2.1
10°-20°	234.2	5.6
20°-30°	404.7	9.7
30°-40°	470.3	11.3
40°-50°	656.1	15.8
50°-60°	890.3	21.4
60°-70°	847.0	20.4
70°-80°	457.6	11.0
80°-90°	102.5	2.5
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°	4151.0	100.0
0°-180°	4151.0	100.0



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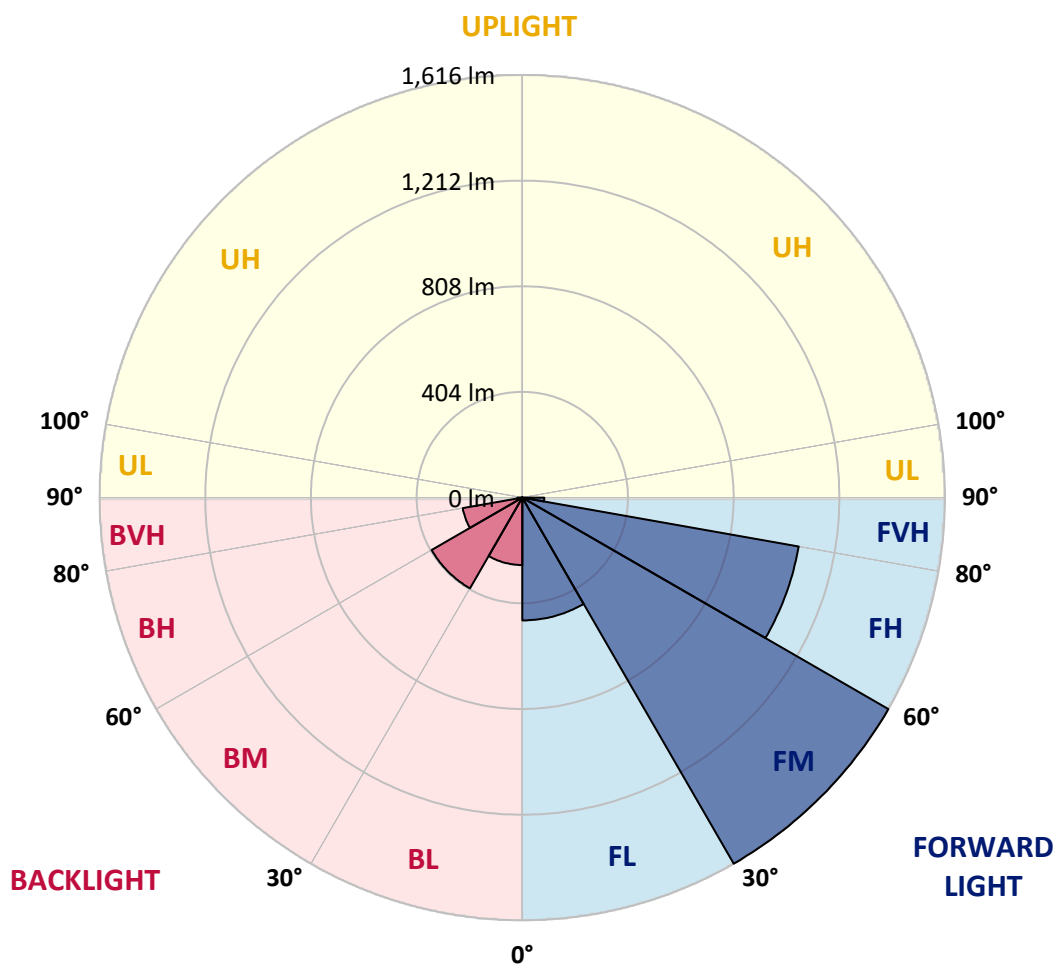
CATALOG NUMBER: GALN-SA1B-727-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.5	11.3			
FM (30°-60°)	1616.3	38.9			
FH (60°-80°)	1073.4	25.9			G1/1800
FVH (80°-90°)	83.8	2.0			G1/100
BL (0°-30°)	257.7	6.2	B1/500		
BM (30°-60°)	400.4	9.6	B1/1000		
BH (60°-80°)	231.2	5.6	B1/500		G1/500
BVH (80°-90°)	18.7	0.5			G1/100
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°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1157.3	1152.9	1140.6	1108.3	1075.7	1042.6	1017.1	985.3	952.2	934.4	911.7
5°	1173.2	1168.3	1139.2	1066.4	1000.4	931.1	875.8	827.3	807.6	778.6	755.3
7.5°	1135.9	1133.8	1090.2	985.6	895.2	804.6	741.9	703.0	667.7	654.5	657.2
10°	1102.0	1093.2	1038.7	902.1	796.6	723.0	678.1	640.0	615.1	608.5	609.9
12.5°	1073.8	1062.0	997.6	845.9	753.6	694.8	637.5	597.8	575.1	581.4	602.8
15°	1068.0	1052.1	980.4	826.8	730.1	654.2	591.5	545.8	528.8	542.5	576.7
17.5°	1105.3	1085.3	1010.0	833.1	707.6	612.9	535.9	483.6	469.4	491.3	535.9
20°	1224.9	1195.4	1102.3	869.5	705.4	592.3	503.6	451.0	457.1	498.7	545.2
22.5°	1446.2	1401.9	1263.8	922.6	716.9	587.1	497.0	469.7	502.8	538.1	568.8
25°	1490.0	1455.3	1292.9	934.7	714.5	583.6	515.7	529.4	566.3	583.9	573.2
27.5°	1514.7	1475.0	1290.9	875.0	638.9	529.4	492.9	515.7	525.0	508.0	479.0
30°	1572.2	1530.8	1323.5	812.2	526.1	392.7	344.2	334.9	341.2	344.5	334.1
32.5°	1651.3	1610.5	1384.9	771.2	454.9	324.8	277.1	264.0	261.0	257.4	253.3
35°	1753.8	1691.0	1445.1	744.9	425.6	300.4	256.6	246.5	242.4	237.4	233.0
37.5°	1857.8	1792.1	1521.3	717.2	406.1	283.4	242.9	238.3	231.1	225.9	219.6
40°	1968.5	1894.8	1590.5	693.1	387.2	272.5	233.0	232.5	223.2	217.2	209.8
42.5°	2064.3	1988.5	1652.4	678.3	372.7	261.0	227.0	228.7	219.1	210.0	200.5
45°	2140.4	2066.0	1709.7	678.3	360.9	249.5	225.9	224.8	215.2	204.0	193.1
47.5°	2207.3	2130.3	1765.5	695.6	353.5	239.9	219.9	221.8	212.0	197.7	187.0
50°	2259.0	2191.1	1840.8	722.4	346.2	232.2	212.2	222.6	209.2	194.4	182.1
52.5°	2325.0	2264.2	1931.5	759.1	339.9	223.7	205.4	222.6	209.0	194.7	181.3
55°	2416.5	2352.4	2040.8	789.5	329.7	215.8	199.4	216.3	208.1	193.3	179.1
57.5°	2480.6	2432.6	2118.0	809.8	315.2	205.7	193.9	210.3	204.6	188.1	172.5
58°	2483.6	2436.7	2129.2	814.4	311.6	203.7	192.5	207.6	202.9	185.9	170.3
60°	2449.1	2408.8	2131.4	807.9	291.4	194.2	185.4	196.4	194.2	173.1	158.6
62.5°	2323.6	2280.7	2042.9	754.5	264.5	182.4	174.4	181.3	176.4	155.0	141.6
65°	2145.4	2066.2	1861.1	670.7	245.4	169.8	159.7	160.2	155.0	139.7	127.9
67.5°	1907.9	1819.5	1575.8	565.2	230.9	155.8	142.1	140.8	134.5	124.6	115.0
70°	1615.7	1555.2	1280.5	459.8	214.7	140.5	122.4	121.6	117.8	110.4	101.9
72.5°	1309.6	1232.6	1034.1	368.1	195.0	125.7	104.1	105.7	100.8	95.6	87.9
75°	966.4	916.0	799.4	295.2	168.4	109.5	86.8	87.4	85.2	79.7	73.7
77.5°	636.4	621.4	571.8	193.9	129.5	87.1	70.9	71.5	69.8	64.9	58.6
80°	428.3	418.2	387.5	124.9	86.5	63.0	54.8	55.3	55.0	49.8	41.4
82.5°	264.0	259.6	249.8	84.3	60.0	45.2	36.1	37.8	40.8	35.1	28.2
85°	124.6	124.9	150.9	46.0	35.3	29.0	19.7	21.1	21.1	21.1	15.9
87.5°	16.2	17.0	20.8	19.4	12.9	11.0	7.1	6.0	5.2	6.8	4.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	903.7	898.2	886.5	883.7	882.1	886.7	874.4	877.7	872.2	887.6	885.1
5°	756.7	757.2	766.8	773.1	775.3	773.1	764.9	750.6	739.7	735.3	736.4
7.5°	652.0	661.6	678.1	696.4	713.1	718.0	713.4	686.3	656.7	638.1	632.1
10°	617.3	630.1	649.0	663.5	678.3	690.1	692.6	671.5	636.4	592.3	575.1
12.5°	619.2	636.7	654.8	659.4	658.1	662.7	660.5	657.0	634.0	577.8	549.1
15°	601.1	621.9	634.5	632.1	627.7	623.6	617.8	608.8	600.6	561.1	529.4
17.5°	559.5	580.8	591.2	592.1	592.1	591.0	577.0	573.7	572.6	553.5	534.0
20°	567.2	578.9	574.3	566.6	568.8	576.2	568.0	566.3	572.6	581.1	577.6
22.5°	571.5	567.4	532.4	498.4	490.7	513.7	518.4	536.8	562.2	592.9	612.9
25°	544.4	511.3	448.6	410.2	388.6	410.0	437.9	471.8	509.9	549.4	572.6
27.5°	455.1	430.0	385.0	350.5	331.6	334.9	358.7	389.7	425.0	451.6	468.6
30°	342.9	331.6	308.4	296.6	285.1	282.3	292.5	304.3	319.9	323.1	327.5
32.5°	252.5	250.8	252.2	248.4	246.2	245.9	242.9	245.6	247.3	249.2	245.4
35°	228.4	226.2	222.4	221.3	219.9	220.5	219.1	217.7	218.8	220.5	221.5
37.5°	216.1	212.8	207.3	205.4	205.4	206.2	204.0	203.5	205.4	210.6	213.3
40°	206.5	202.7	196.4	193.9	195.5	197.7	194.7	193.6	198.3	203.7	208.1
42.5°	197.4	194.4	188.4	185.7	187.0	191.1	186.8	185.9	192.0	198.0	203.2
45°	189.8	186.8	181.3	179.9	180.5	184.3	181.3	181.3	187.0	193.6	198.3
47.5°	183.8	179.9	176.4	175.3	175.8	178.0	177.5	177.5	182.9	189.8	194.4
50°	177.7	174.4	169.8	170.3	171.7	174.7	174.4	175.3	180.7	189.2	194.2
52.5°	175.0	170.1	164.9	165.4	169.5	173.1	172.0	172.8	179.1	195.0	202.1
55°	172.0	165.4	159.4	160.2	164.9	170.1	168.7	169.8	177.2	198.8	208.7
57.5°	166.2	158.6	152.0	152.5	159.4	164.9	162.7	164.0	172.8	194.7	205.1
58°	163.8	157.2	150.9	151.2	157.7	163.8	161.3	162.4	171.4	193.6	203.5
60°	153.4	149.5	144.0	144.3	150.6	155.8	154.5	155.5	164.3	185.7	193.1
62.5°	139.1	136.9	135.6	135.6	139.4	144.3	145.7	147.1	155.0	167.9	174.4
65°	123.8	123.8	124.1	124.1	126.5	132.8	133.6	137.2	144.6	150.9	155.8
67.5°	113.4	112.8	113.4	112.0	113.1	116.9	121.0	124.3	132.0	136.4	138.0
70°	100.0	99.7	100.0	98.0	99.4	102.7	105.4	110.9	118.9	122.1	123.0
72.5°	86.8	86.8	87.4	86.0	86.0	89.6	91.5	97.5	104.9	106.8	107.1
75°	73.1	73.9	73.9	72.0	72.6	74.8	77.2	82.2	89.0	90.4	90.4
77.5°	58.1	61.1	61.1	59.2	60.0	60.2	63.5	66.0	71.2	71.7	69.6
80°	42.2	45.2	47.7	46.0	47.4	45.7	47.7	49.3	54.5	52.0	48.5
82.5°	30.1	32.3	34.2	34.5	33.1	30.1	32.6	32.9	35.3	32.0	30.1
85°	16.7	18.6	21.1	20.0	17.8	15.9	16.7	17.3	17.0	16.2	15.1
87.5°	4.4	4.7	5.2	3.8	3.6	3.0	4.1	4.1	4.7	4.9	4.7
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°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	887.0	899.1	925.1	944.8	968.9	998.2	1032.7	1067.5	1105.0	1116.8	1133.2
5°	733.9	764.1	776.6	812.5	848.1	901.5	958.5	1024.5	1096.8	1131.6	1165.0
7.5°	627.1	643.3	656.4	682.7	725.4	790.3	861.8	944.2	1046.7	1097.3	1146.4
10°	569.6	571.3	587.4	620.0	657.2	714.5	782.1	874.4	988.6	1050.2	1107.7
12.5°	531.5	524.4	542.0	575.9	618.1	670.9	733.1	821.0	946.7	1010.0	1079.5
15°	498.1	486.9	500.1	534.8	576.5	638.6	705.4	798.6	930.3	1003.9	1081.2
17.5°	499.0	468.0	472.7	502.0	543.3	606.6	687.6	797.7	955.2	1040.1	1131.6
20°	560.6	511.0	489.9	495.4	535.4	604.4	695.9	836.1	1037.1	1160.9	1258.6
22.5°	621.1	591.2	557.3	546.1	568.0	640.3	748.2	926.7	1215.1	1401.6	1578.2
25°	600.0	625.5	617.0	601.1	606.0	666.0	783.8	1001.2	1353.4	1563.4	1729.4
27.5°	480.1	526.3	535.7	535.4	537.3	586.6	704.9	951.1	1370.6	1594.4	1752.9
30°	337.4	341.5	346.4	356.0	364.8	408.9	551.5	835.0	1363.0	1608.3	1767.2
32.5°	243.5	248.9	255.8	268.9	289.7	345.9	482.5	798.0	1403.5	1666.1	1808.8
35°	222.6	228.9	235.5	250.6	270.3	322.3	455.1	782.7	1470.0	1759.8	1883.6
37.5°	216.1	223.2	228.9	239.9	255.8	305.3	430.2	772.3	1538.2	1858.9	1983.8
40°	211.4	219.6	224.3	233.0	244.0	289.7	408.0	764.1	1604.2	1949.6	2064.3
42.5°	207.3	215.8	221.8	228.1	237.2	275.8	388.3	755.8	1661.5	2037.5	2144.5
45°	202.4	213.1	220.7	225.7	233.6	264.0	373.3	749.3	1726.6	2115.5	2225.6
47.5°	198.3	210.0	219.6	225.4	228.4	255.8	361.2	758.3	1805.0	2197.1	2300.9
50°	198.5	209.8	221.8	230.9	222.9	248.9	353.8	794.2	1906.8	2294.1	2360.3
52.5°	207.3	221.0	230.6	232.8	215.2	240.7	350.0	856.9	2027.3	2379.8	2420.3
55°	217.2	231.4	241.8	240.4	211.1	230.3	349.2	923.7	2159.3	2479.7	2498.4
57.5°	213.6	234.4	250.3	243.2	211.4	220.2	345.6	977.7	2269.7	2554.5	2575.6
58°	212.5	233.3	251.4	242.6	210.6	217.2	344.8	982.3	2285.0	2559.7	2586.5
60°	201.8	223.7	250.6	238.5	205.9	209.0	335.7	997.4	2280.9	2532.9	2593.1
62.5°	182.4	200.5	231.7	218.5	191.7	198.0	315.5	978.8	2169.7	2403.6	2497.0
65°	160.5	173.9	194.7	192.2	171.4	186.8	287.8	905.1	1947.1	2193.8	2292.2
67.5°	144.0	155.0	168.1	164.6	154.2	171.7	258.0	780.5	1697.3	1941.9	2065.7
70°	127.3	135.8	142.4	139.9	136.7	156.9	231.4	633.4	1458.0	1702.5	1822.5
72.5°	110.4	118.3	123.8	120.2	118.3	141.3	209.8	491.6	1151.6	1404.6	1558.8
75°	92.3	100.2	104.1	100.0	98.9	124.6	177.7	367.2	864.0	1082.8	1215.9
77.5°	71.5	80.0	84.9	83.5	84.1	102.4	143.5	251.4	617.8	738.0	878.2
80°	50.1	59.4	62.7	61.3	65.2	78.0	101.3	159.7	426.1	479.0	577.8
82.5°	30.9	39.7	40.3	41.6	44.4	57.8	76.4	97.2	267.6	276.6	348.3
85°	15.6	18.9	20.3	22.5	24.9	35.3	43.5	60.2	172.3	130.4	194.7
87.5°	5.2	5.5	6.6	8.2	10.1	14.5	18.6	24.6	42.7	23.6	60.2
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°	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7	1041.7
2.5°	1166.3	1189.6	1206.6	1222.2	1207.1	1205.8	1191.0	1167.2	1157.3	1157.3
5°	1235.1	1289.6	1333.7	1361.9	1349.8	1320.8	1272.9	1211.8	1178.9	1173.2
7.5°	1254.0	1361.6	1443.5	1472.5	1452.2	1388.2	1296.4	1193.5	1146.4	1135.9
10°	1242.5	1382.4	1502.6	1548.6	1520.4	1423.5	1298.3	1172.1	1114.0	1102.0
12.5°	1230.4	1385.2	1513.6	1580.1	1561.8	1452.0	1312.3	1158.1	1091.0	1073.8
15°	1239.2	1386.2	1500.2	1568.9	1580.7	1486.2	1335.3	1168.3	1086.4	1068.0
17.5°	1294.5	1407.1	1481.0	1536.6	1577.9	1532.8	1400.8	1216.7	1128.0	1105.3
20°	1410.1	1456.9	1492.0	1534.9	1601.5	1627.8	1534.7	1349.8	1244.9	1224.9
22.5°	1744.7	1736.2	1664.5	1663.7	1760.1	1865.5	1859.2	1620.4	1462.7	1446.2
25°	1870.1	1830.7	1726.9	1701.7	1744.2	1906.8	1883.3	1675.7	1530.0	1490.0
27.5°	1821.1	1723.4	1655.2	1649.4	1635.5	1789.1	1845.8	1698.2	1553.6	1514.7
30°	1818.1	1674.3	1576.8	1588.4	1601.8	1748.6	1866.6	1768.5	1613.8	1572.2
32.5°	1825.5	1681.2	1582.6	1584.8	1624.8	1754.6	1889.6	1845.2	1693.0	1651.3
35°	1855.4	1720.1	1619.3	1614.1	1676.5	1794.0	1928.8	1965.7	1801.1	1753.8
37.5°	1903.6	1797.6	1686.4	1685.0	1775.7	1865.2	1977.5	2087.3	1908.8	1857.8
40°	1974.5	1888.2	1805.8	1798.4	1910.4	1981.1	2040.8	2216.8	2033.9	1968.5
42.5°	2060.2	1996.9	1963.3	1992.6	2100.2	2111.1	2139.3	2336.5	2140.4	2064.3
45°	2139.6	2136.6	2183.4	2261.2	2323.9	2258.2	2242.3	2416.8	2223.1	2140.4
47.5°	2234.1	2315.7	2457.0	2570.9	2636.7	2429.4	2330.2	2469.1	2283.4	2207.3
50°	2329.9	2530.1	2755.8	2914.6	2928.6	2615.3	2390.7	2518.4	2338.2	2259.0
52.5°	2430.7	2701.3	3001.7	3186.3	3159.2	2777.1	2449.3	2551.8	2394.6	2325.0
55°	2518.4	2806.2	3139.2	3316.4	3276.7	2875.7	2512.6	2587.9	2475.1	2416.5
57.5°	2567.4	2814.9	3105.0	3259.7	3216.7	2856.6	2541.6	2614.8	2526.6	2480.6
58°	2574.5	2803.2	3074.6	3226.8	3183.0	2840.4	2541.4	2613.7	2529.9	2483.6
60°	2568.2	2726.8	2961.5	3097.0	3051.0	2739.1	2531.0	2593.1	2488.2	2449.1
62.5°	2509.9	2594.2	2766.2	2864.8	2851.6	2580.8	2488.2	2515.6	2361.4	2323.6
65°	2433.2	2413.5	2516.2	2586.0	2595.9	2462.2	2445.8	2348.0	2198.8	2145.4
67.5°	2340.1	2208.6	2208.4	2248.1	2264.5	2279.8	2357.3	2165.9	1964.4	1907.9
70°	2182.1	1892.9	1805.8	1852.6	1838.9	1968.5	2199.3	1910.1	1681.7	1615.7
72.5°	1892.3	1502.1	1362.7	1422.9	1388.4	1543.7	1924.4	1571.9	1390.6	1309.6
75°	1533.9	1123.6	979.8	1035.2	1013.8	1171.0	1601.2	1141.7	997.4	966.4
77.5°	1191.0	814.2	730.6	723.0	738.9	871.4	1174.6	770.9	657.5	636.4
80°	765.1	582.8	587.7	577.8	586.0	549.4	713.1	491.8	445.3	428.3
82.5°	503.6	406.1	484.2	446.9	424.5	369.4	467.7	322.1	273.3	264.0
85°	343.1	299.0	272.2	208.1	245.1	284.5	350.8	173.3	137.5	124.6
87.5°	155.0	104.1	76.4	47.1	74.5	86.0	170.3	20.3	15.6	16.2
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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