

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: P458528

Luminaire Tested: **GALN-SA1A-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458528
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-SA1A-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3716 lumens
Efficiency: N/A
Efficacy: 112.6 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

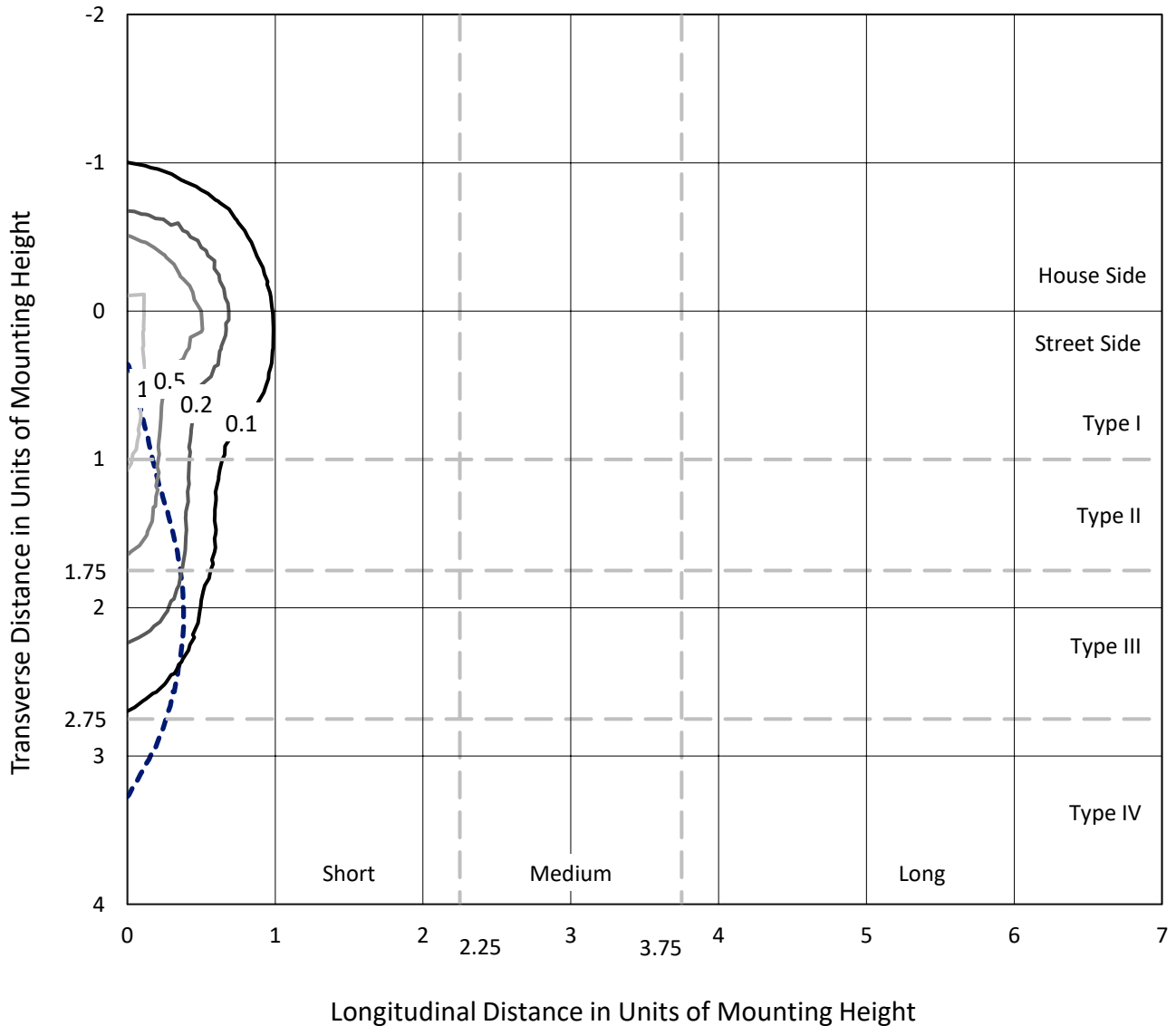
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

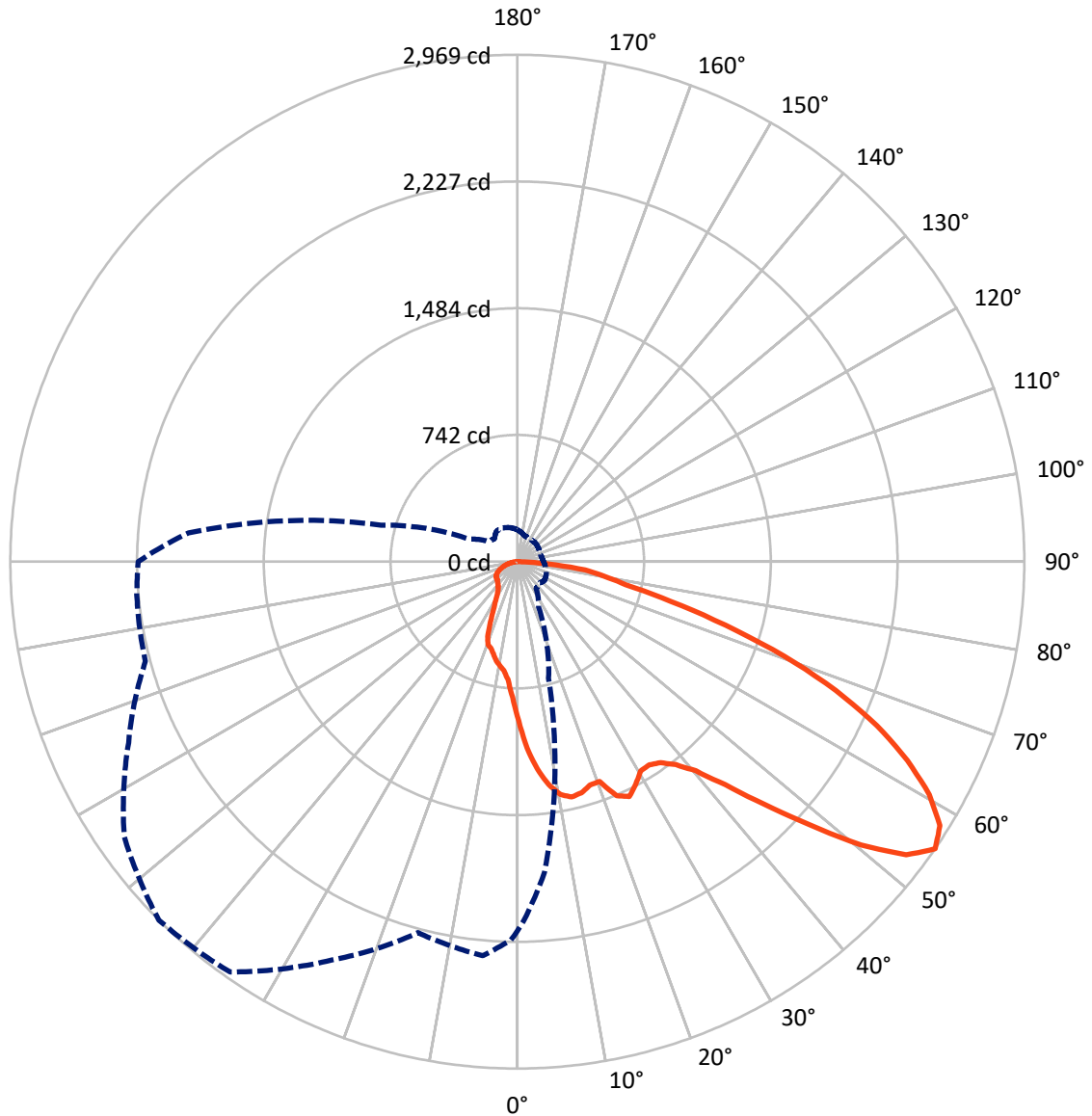
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	812.9	0.0	812.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	2903.1	0.0	2903.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	3716.0	0.0	3716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	2.1
10°-20°	209.7	5.6
20°-30°	362.3	9.7
30°-40°	421.0	11.3
40°-50°	587.4	15.8
50°-60°	797.0	21.4
60°-70°	758.2	20.4
70°-80°	409.6	11.0
80°-90°	91.8	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°	3716.0	100.0
0°-180°	3716.0	100.0

Coefficient of Utilization



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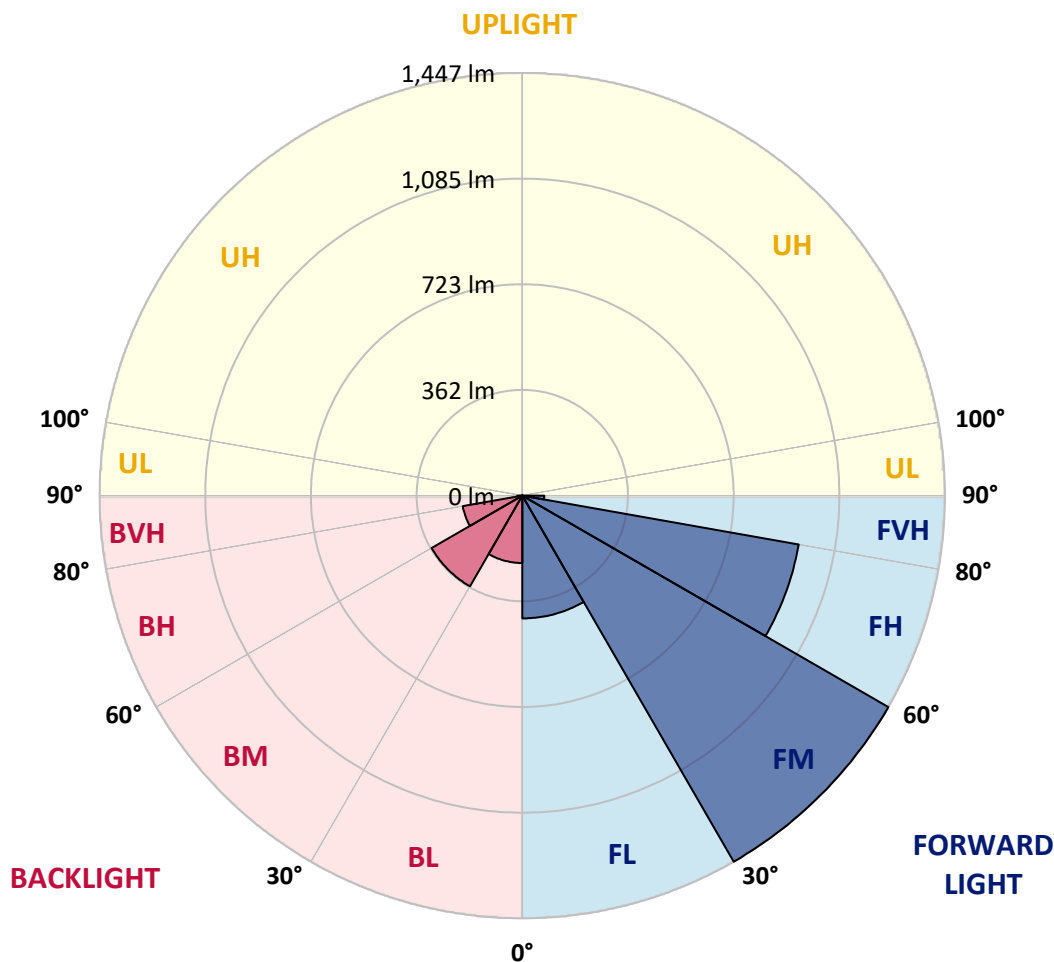
CATALOG NUMBER: GALN-SA1A-735-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.3	11.3			
FM (30°-60°)	1446.9	38.9			
FH (60°-80°)	960.9	25.9			G1/1800
FVH (80°-90°)	75.0	2.0			G1/100
BL (0°-30°)	230.7	6.2	B1/500		
BM (30°-60°)	358.4	9.6	B1/1000		
BH (60°-80°)	207.0	5.6	B1/500		G1/500
BVH (80°-90°)	16.8	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°	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6
2.5°	1036.0	1032.1	1021.1	992.1	963.0	933.3	910.5	882.1	852.4	836.5	816.1
5°	1050.2	1045.8	1019.8	954.6	895.6	833.5	784.0	740.6	723.0	697.0	676.1
7.5°	1016.9	1014.9	976.0	882.3	801.4	720.3	664.1	629.3	597.7	585.9	588.4
10°	986.5	978.7	929.9	807.5	713.2	647.2	607.0	572.9	550.6	544.7	546.0
12.5°	961.3	950.7	893.1	757.3	674.7	622.0	570.7	535.2	514.8	520.5	539.6
15°	956.1	941.9	877.7	740.1	653.6	585.7	529.5	488.6	473.4	485.7	516.3
17.5°	989.4	971.6	904.1	745.8	633.5	548.7	479.8	432.9	420.2	439.8	479.8
20°	1096.6	1070.1	986.8	778.4	631.5	530.3	450.8	403.8	409.2	446.4	488.1
22.5°	1294.7	1255.0	1131.4	825.9	641.8	525.6	445.0	420.4	450.1	481.7	509.2
25°	1333.9	1302.8	1157.4	836.7	639.6	522.4	461.6	473.9	507.0	522.7	513.1
27.5°	1356.0	1320.4	1155.7	783.3	571.9	473.9	441.3	461.6	470.0	454.8	428.8
30°	1407.4	1370.4	1184.8	727.1	470.9	351.6	308.2	299.8	305.5	308.4	299.1
32.5°	1478.3	1441.8	1239.8	690.4	407.2	290.8	248.1	236.3	233.6	230.4	226.8
35°	1570.0	1513.8	1293.7	666.8	381.0	268.9	229.7	220.6	217.0	212.5	208.6
37.5°	1663.1	1604.3	1361.8	642.1	363.6	253.7	217.5	213.3	206.9	202.3	196.6
40°	1762.2	1696.2	1423.9	620.5	346.6	243.9	208.6	208.1	199.8	194.4	187.8
42.5°	1848.0	1780.1	1479.3	607.2	333.7	233.6	203.2	204.7	196.1	188.0	179.5
45°	1916.1	1849.5	1530.5	607.2	323.1	223.3	202.3	201.3	192.7	182.6	172.8
47.5°	1976.0	1907.1	1580.5	622.7	316.5	214.8	196.9	198.6	189.8	177.0	167.4
50°	2022.3	1961.5	1647.9	646.7	309.9	207.9	190.0	199.3	187.3	174.1	163.0
52.5°	2081.4	2026.9	1729.1	679.6	304.2	200.3	183.9	199.3	187.1	174.3	162.3
55°	2163.3	2105.9	1826.9	706.8	295.2	193.2	178.5	193.7	186.3	173.1	160.3
57.5°	2220.6	2177.7	1896.0	724.9	282.2	184.1	173.6	188.3	183.1	168.4	154.4
58°	2223.3	2181.4	1906.1	729.1	279.0	182.4	172.3	185.8	181.7	166.5	152.5
60°	2192.4	2156.4	1908.0	723.2	260.8	173.8	166.0	175.8	173.8	154.9	141.9
62.5°	2080.1	2041.7	1828.9	675.4	236.8	163.3	156.2	162.3	157.9	138.8	126.7
65°	1920.5	1849.7	1666.1	600.4	219.7	152.0	142.9	143.4	138.8	125.0	114.5
67.5°	1708.0	1628.8	1410.6	506.0	206.7	139.5	127.2	126.0	120.4	111.5	103.0
70°	1446.4	1392.2	1146.3	411.6	192.2	125.8	109.6	108.8	105.4	98.8	91.2
72.5°	1172.3	1103.4	925.7	329.5	174.6	112.5	93.2	94.6	90.2	85.6	78.7
75°	865.2	820.0	715.6	264.3	150.8	98.1	77.7	78.2	76.2	71.3	65.9
77.5°	569.7	556.3	511.9	173.6	116.0	78.0	63.5	64.0	62.5	58.1	52.5
80°	383.4	374.4	346.9	111.8	77.5	56.4	49.0	49.5	49.3	44.6	37.0
82.5°	236.3	232.4	223.6	75.5	53.7	40.5	32.4	33.8	36.5	31.4	25.3
85°	111.5	111.8	135.1	41.2	31.6	26.0	17.7	18.9	18.9	18.9	14.2
87.5°	14.5	15.2	18.6	17.4	11.5	9.8	6.4	5.4	4.7	6.1	4.4
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°	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6
2.5°	809.0	804.1	793.6	791.1	789.6	793.8	782.8	785.7	780.8	794.5	792.3
5°	677.4	677.9	686.4	692.1	694.0	692.1	684.7	672.0	662.2	658.2	659.2
7.5°	583.7	592.3	607.0	623.4	638.4	642.8	638.6	614.4	587.9	571.2	565.8
10°	552.6	564.1	581.0	594.0	607.2	617.8	620.0	601.1	569.7	530.3	514.8
12.5°	554.3	570.0	586.2	590.3	589.1	593.3	591.3	588.1	567.5	517.3	491.5
15°	538.1	556.7	568.0	565.8	561.9	558.2	553.1	545.0	537.6	502.3	473.9
17.5°	500.9	520.0	529.3	530.0	530.0	529.0	516.5	513.6	512.6	495.5	478.1
20°	507.7	518.3	514.1	507.2	509.2	515.8	508.5	507.0	512.6	520.2	517.0
22.5°	511.6	508.0	476.6	446.2	439.3	459.9	464.1	480.5	503.3	530.8	548.7
25°	487.4	457.7	401.6	367.2	347.9	367.0	392.0	422.4	456.5	491.8	512.6
27.5°	407.4	384.9	344.7	313.8	296.9	299.8	321.2	348.9	380.5	404.3	419.5
30°	306.9	296.9	276.0	265.5	255.2	252.8	261.8	272.4	286.3	289.3	293.2
32.5°	226.0	224.6	225.8	222.4	220.4	220.1	217.5	219.9	221.4	223.1	219.7
35°	204.5	202.5	199.1	198.1	196.9	197.4	196.1	194.9	195.9	197.4	198.3
37.5°	193.4	190.5	185.6	183.9	183.9	184.6	182.6	182.2	183.9	188.5	191.0
40°	184.8	181.4	175.8	173.6	175.0	177.0	174.3	173.3	177.5	182.4	186.3
42.5°	176.8	174.1	168.7	166.2	167.4	171.1	167.2	166.5	171.9	177.2	181.9
45°	169.9	167.2	162.3	161.1	161.6	165.0	162.3	162.3	167.4	173.3	177.5
47.5°	164.5	161.1	157.9	156.9	157.4	159.4	158.9	158.9	163.8	169.9	174.1
50°	159.1	156.2	152.0	152.5	153.7	156.4	156.2	156.9	161.8	169.4	173.8
52.5°	156.7	152.2	147.6	148.1	151.8	154.9	154.0	154.7	160.3	174.6	180.9
55°	154.0	148.1	142.7	143.4	147.6	152.2	151.0	152.0	158.6	178.0	186.8
57.5°	148.8	141.9	136.1	136.6	142.7	147.6	145.6	146.8	154.7	174.3	183.6
58°	146.6	140.7	135.1	135.3	141.2	146.6	144.4	145.4	153.5	173.3	182.2
60°	137.3	133.9	129.0	129.2	134.8	139.5	138.3	139.2	147.1	166.2	172.8
62.5°	124.5	122.6	121.4	121.4	124.8	129.2	130.4	131.6	138.8	150.3	156.2
65°	110.8	110.8	111.1	111.1	113.3	118.9	119.6	122.8	129.4	135.1	139.5
67.5°	101.5	101.0	101.5	100.3	101.2	104.7	108.4	111.3	118.2	122.1	123.6
70°	89.5	89.2	89.5	87.8	89.0	91.9	94.4	99.3	106.4	109.3	110.1
72.5°	77.7	77.7	78.2	77.0	77.0	80.2	81.9	87.3	93.9	95.6	95.9
75°	65.5	66.2	66.2	64.5	65.0	66.9	69.1	73.5	79.7	80.9	80.9
77.5°	52.0	54.7	54.7	53.0	53.7	53.9	56.9	59.1	63.7	64.2	62.3
80°	37.8	40.5	42.7	41.2	42.4	40.9	42.7	44.1	48.8	46.6	43.4
82.5°	27.0	28.9	30.6	30.9	29.7	27.0	29.2	29.4	31.6	28.7	27.0
85°	15.0	16.7	18.9	17.9	15.9	14.2	15.0	15.4	15.2	14.5	13.5
87.5°	3.9	4.2	4.7	3.4	3.2	2.7	3.7	3.7	4.2	4.4	4.2
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°	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6
2.5°	794.1	804.8	828.1	845.8	867.4	893.6	924.5	955.6	989.2	999.7	1014.5
5°	657.0	684.0	695.3	727.4	759.2	807.1	858.0	917.1	981.8	1013.0	1042.9
7.5°	561.4	575.9	587.6	611.2	649.4	707.5	771.5	845.3	937.0	982.3	1026.2
10°	509.9	511.4	525.9	555.0	588.4	639.6	700.2	782.8	885.0	940.2	991.7
12.5°	475.8	469.5	485.2	515.6	553.3	600.6	656.3	735.0	847.5	904.1	966.4
15°	445.9	435.9	447.7	478.8	516.1	571.7	631.5	714.9	832.8	898.7	967.9
17.5°	446.7	419.0	423.1	449.4	486.4	543.0	615.6	714.1	855.1	931.1	1013.0
20°	501.8	457.5	438.6	443.5	479.3	541.1	622.9	748.5	928.4	1039.2	1126.7
22.5°	556.0	529.3	498.9	488.8	508.5	573.2	669.8	829.6	1087.8	1254.7	1412.8
25°	537.1	559.9	552.3	538.1	542.5	596.2	701.6	896.3	1211.6	1399.6	1548.2
27.5°	429.8	471.2	479.5	479.3	481.0	525.1	631.0	851.4	1227.0	1427.3	1569.2
30°	302.0	305.7	310.1	318.7	326.5	366.0	493.7	747.5	1220.1	1439.8	1582.0
32.5°	217.9	222.8	229.0	240.7	259.4	309.6	432.0	714.4	1256.4	1491.5	1619.3
35°	199.3	204.9	210.8	224.3	242.0	288.5	407.4	700.7	1316.0	1575.4	1686.2
37.5°	193.4	199.8	204.9	214.8	229.0	273.3	385.1	691.3	1377.0	1664.1	1775.9
40°	189.3	196.6	200.8	208.6	218.4	259.4	365.3	684.0	1436.1	1745.3	1848.0
42.5°	185.6	193.2	198.6	204.2	212.3	246.9	347.6	676.6	1487.4	1824.0	1919.8
45°	181.2	190.7	197.6	202.0	209.1	236.3	334.1	670.7	1545.7	1893.8	1992.4
47.5°	177.5	188.0	196.6	201.8	204.5	229.0	323.4	678.8	1615.8	1966.9	2059.8
50°	177.7	187.8	198.6	206.7	199.6	222.8	316.7	711.0	1707.0	2053.7	2113.0
52.5°	185.6	197.8	206.4	208.4	192.7	215.5	313.3	767.1	1814.9	2130.4	2166.7
55°	194.4	207.2	216.5	215.2	189.0	206.2	312.6	826.9	1933.0	2219.9	2236.6
57.5°	191.2	209.9	224.1	217.7	189.3	197.1	309.4	875.2	2031.8	2286.8	2305.7
58°	190.2	208.9	225.1	217.2	188.5	194.4	308.7	879.4	2045.6	2291.5	2315.5
60°	180.7	200.3	224.3	213.5	184.4	187.1	300.6	892.9	2041.9	2267.4	2321.4
62.5°	163.3	179.5	207.4	195.6	171.6	177.2	282.4	876.2	1942.4	2151.7	2235.3
65°	143.7	155.7	174.3	172.1	153.5	167.2	257.7	810.2	1743.1	1963.9	2052.0
67.5°	129.0	138.8	150.5	147.3	138.0	153.7	230.9	698.7	1519.5	1738.4	1849.2
70°	114.0	121.6	127.5	125.3	122.3	140.5	207.2	567.0	1305.2	1524.1	1631.5
72.5°	98.8	105.9	110.8	107.6	105.9	126.5	187.8	440.1	1030.9	1257.4	1395.4
75°	82.6	89.7	93.2	89.5	88.5	111.5	159.1	328.8	773.5	969.3	1088.5
77.5°	64.0	71.6	76.0	74.8	75.3	91.7	128.5	225.1	553.1	660.7	786.2
80°	44.9	53.2	56.1	54.9	58.3	69.9	90.7	142.9	381.5	428.8	517.3
82.5°	27.7	35.5	36.0	37.3	39.7	51.7	68.4	87.0	239.5	247.6	311.8
85°	14.0	16.9	18.1	20.1	22.3	31.6	39.0	53.9	154.2	116.7	174.3
87.5°	4.7	4.9	5.9	7.4	9.1	13.0	16.7	22.1	38.2	21.1	53.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6	932.6
2.5°	1044.1	1065.0	1080.2	1094.1	1080.6	1079.4	1066.2	1044.9	1036.0	1036.0
5°	1105.7	1154.4	1193.9	1219.2	1208.4	1182.4	1139.5	1084.8	1055.4	1050.2
7.5°	1122.6	1218.9	1292.2	1318.2	1300.1	1242.7	1160.6	1068.4	1026.2	1016.9
10°	1112.3	1237.5	1345.2	1386.4	1361.1	1274.3	1162.3	1049.3	997.3	986.5
12.5°	1101.5	1240.0	1355.0	1414.5	1398.1	1299.8	1174.8	1036.8	976.7	961.3
15°	1109.3	1241.0	1343.0	1404.5	1415.0	1330.5	1195.4	1045.8	972.5	956.1
17.5°	1158.8	1259.6	1325.8	1375.6	1412.6	1372.1	1254.0	1089.2	1009.8	989.4
20°	1262.3	1304.2	1335.6	1374.1	1433.7	1457.2	1373.9	1208.4	1114.5	1096.6
22.5°	1561.9	1554.3	1490.1	1489.3	1575.6	1670.0	1664.4	1450.6	1309.4	1294.7
25°	1674.2	1638.9	1545.9	1523.4	1561.4	1707.0	1685.9	1500.1	1369.7	1333.9
27.5°	1630.3	1542.8	1481.7	1476.6	1464.1	1601.6	1652.3	1520.2	1390.8	1356.0
30°	1627.6	1498.9	1411.6	1421.9	1433.9	1565.3	1671.0	1583.2	1444.7	1407.4
32.5°	1634.2	1505.0	1416.8	1418.7	1454.5	1570.7	1691.6	1651.9	1515.6	1478.3
35°	1660.9	1539.8	1449.6	1444.9	1500.8	1606.0	1726.6	1759.7	1612.4	1570.0
37.5°	1704.1	1609.2	1509.7	1508.4	1589.6	1669.8	1770.3	1868.6	1708.7	1663.1
40°	1767.6	1690.3	1616.6	1609.9	1710.2	1773.5	1826.9	1984.5	1820.8	1762.2
42.5°	1844.3	1787.7	1757.5	1783.8	1880.1	1889.9	1915.2	2091.7	1916.1	1848.0
45°	1915.4	1912.7	1954.6	2024.2	2080.4	2021.6	2007.3	2163.5	1990.2	1916.1
47.5°	2000.0	2073.0	2199.5	2301.5	2360.4	2174.8	2086.0	2210.3	2044.1	1976.0
50°	2085.8	2265.0	2467.0	2609.2	2621.7	2341.2	2140.2	2254.4	2093.1	2022.3
52.5°	2176.0	2418.2	2687.1	2852.4	2828.1	2486.1	2192.7	2284.4	2143.6	2081.4
55°	2254.4	2512.1	2810.2	2968.8	2933.3	2574.4	2249.3	2316.7	2215.7	2163.3
57.5°	2298.3	2520.0	2779.6	2918.1	2879.6	2557.2	2275.3	2340.7	2261.8	2220.6
58°	2304.7	2509.4	2752.4	2888.7	2849.4	2542.8	2275.0	2339.8	2264.7	2223.3
60°	2299.1	2441.0	2651.1	2772.5	2731.3	2452.0	2265.7	2321.4	2227.5	2192.4
62.5°	2246.8	2322.4	2476.3	2564.6	2552.8	2310.3	2227.5	2252.0	2114.0	2080.1
65°	2178.2	2160.6	2252.5	2315.0	2323.8	2204.2	2189.5	2102.0	1968.4	1920.5
67.5°	2094.9	1977.2	1976.9	2012.5	2027.2	2040.9	2110.3	1938.9	1758.5	1708.0
70°	1953.4	1694.5	1616.6	1658.5	1646.2	1762.2	1968.8	1710.0	1505.5	1446.4
72.5°	1694.0	1344.7	1219.9	1273.8	1242.9	1381.9	1722.7	1407.2	1244.9	1172.3
75°	1373.1	1005.9	877.2	926.7	907.6	1048.3	1433.4	1022.1	892.9	865.2
77.5°	1066.2	728.8	654.1	647.2	661.4	780.1	1051.5	690.1	588.6	569.7
80°	685.0	521.7	526.1	517.3	524.6	491.8	638.4	440.3	398.6	383.4
82.5°	450.8	363.6	433.4	400.1	380.0	330.7	418.7	288.3	244.7	236.3
85°	307.2	267.7	243.7	186.3	219.4	254.7	314.0	155.2	123.1	111.5
87.5°	138.8	93.2	68.4	42.2	66.7	77.0	152.5	18.1	14.0	14.5
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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