

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: P652181

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652181
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-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 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: 4173.9 lumens
Efficiency: N/A
Efficacy: 94.9 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

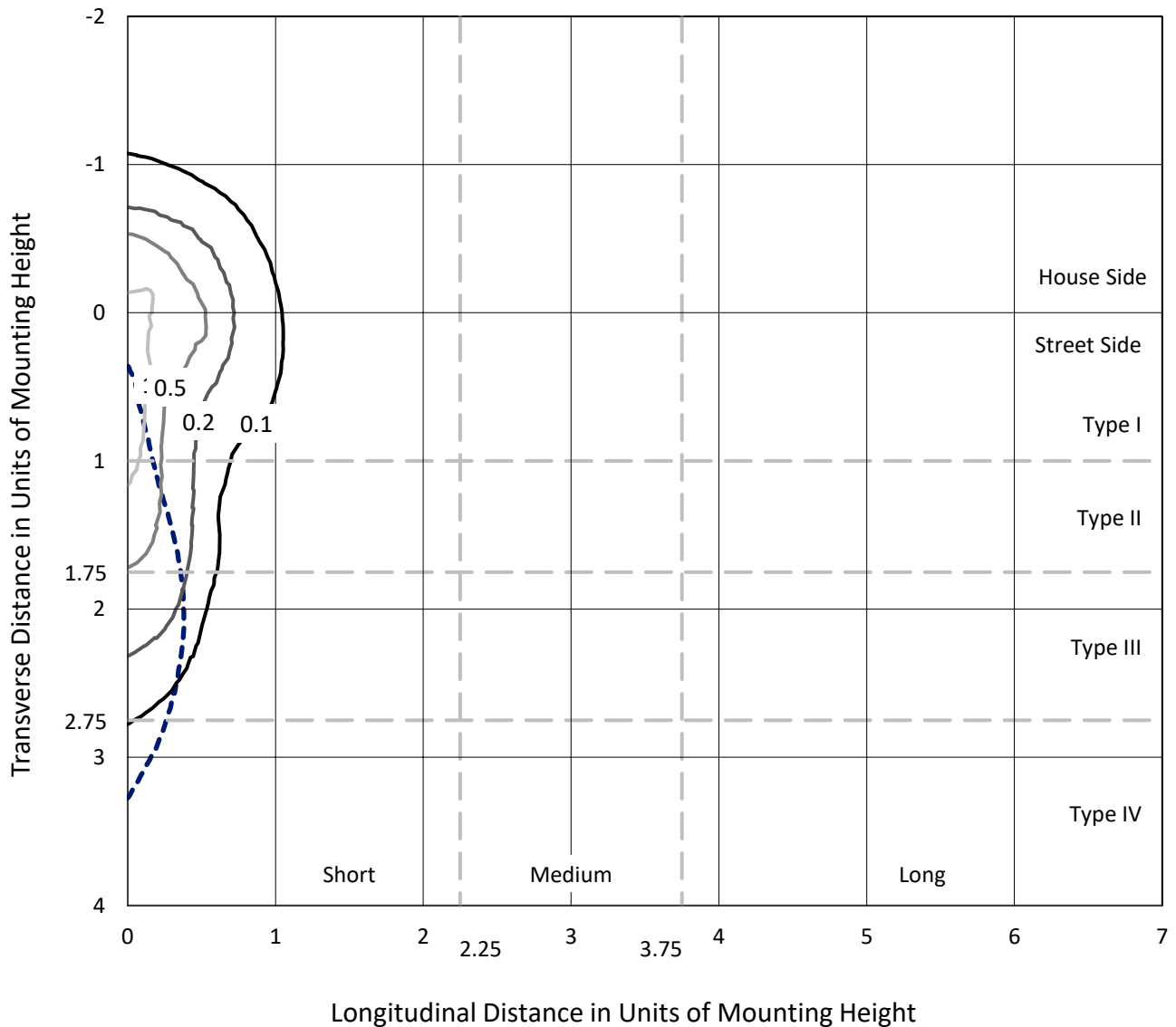
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

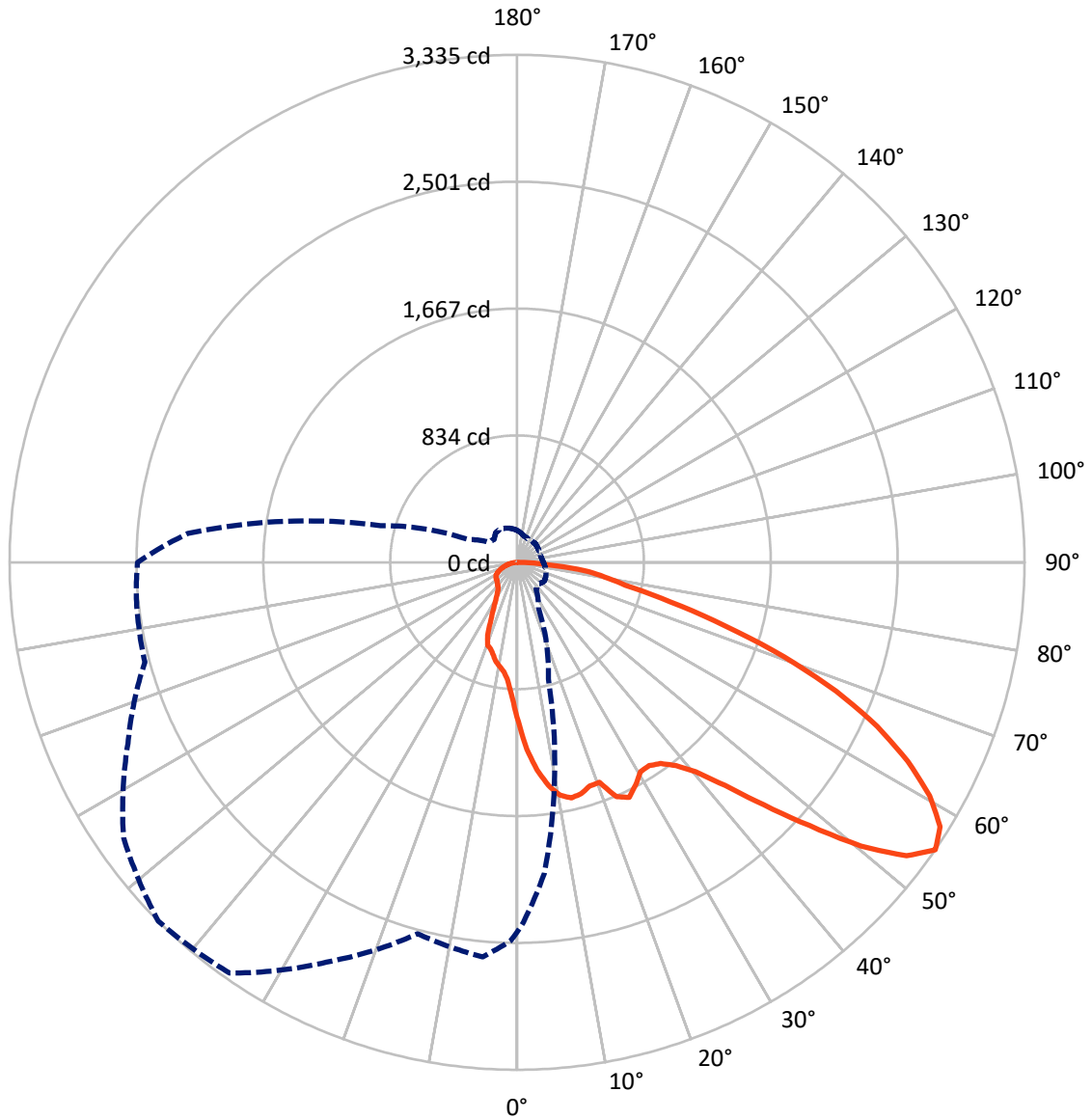
× Max cd
 - - - 1/2 Max cd



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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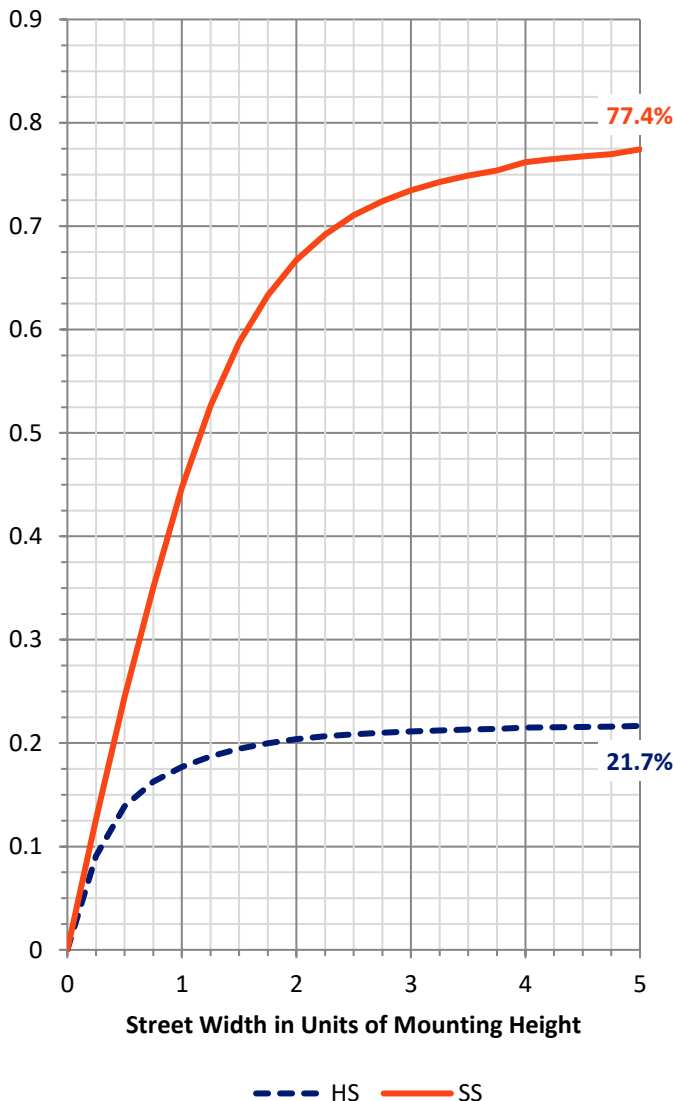
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	913.0	0.0	913.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3260.9	0.0	3260.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	4173.9	0.0	4173.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	2.1
10°-20°	235.5	5.6
20°-30°	406.9	9.7
30°-40°	472.9	11.3
40°-50°	659.7	15.8
50°-60°	895.2	21.4
60°-70°	851.7	20.4
70°-80°	460.1	11.0
80°-90°	103.1	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°	4173.9	100.0
0°-180°	4173.9	100.0

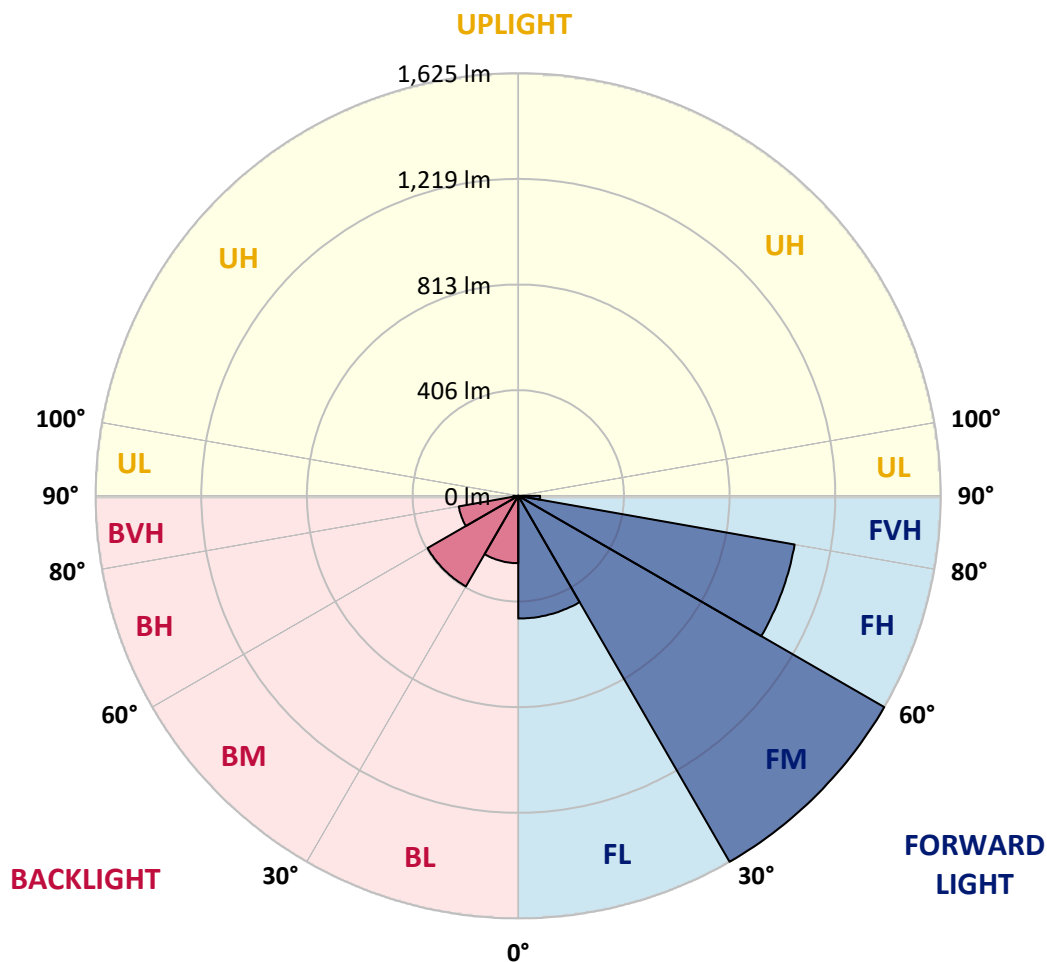


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.1	11.3			
FM (30°-60°)	1625.2	38.9			
FH (60°-80°)	1079.3	25.9			G1/1800
FVH (80°-90°)	84.3	2.0			G1/100
BL (0°-30°)	259.1	6.2	B1/500		
BM (30°-60°)	402.6	9.6	B1/1000		
BH (60°-80°)	232.5	5.6	B1/500		G1/500
BVH (80°-90°)	18.8	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°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5
2.5°	1163.7	1159.3	1146.9	1114.4	1081.6	1048.3	1022.7	990.8	957.5	939.6	916.7
5°	1179.7	1174.7	1145.5	1072.3	1005.9	936.2	880.6	831.8	812.1	782.9	759.4
7.5°	1142.2	1140.0	1096.2	991.0	900.1	809.0	746.0	706.9	671.4	658.1	660.9
10°	1108.1	1099.3	1044.4	907.0	801.1	727.0	681.8	643.5	618.5	611.8	613.3
12.5°	1079.7	1067.8	1003.1	850.6	757.8	698.6	641.0	601.1	578.3	584.6	606.1
15°	1074.0	1058.0	985.8	831.3	734.1	657.8	594.8	548.8	531.8	545.5	580.0
17.5°	1111.4	1091.3	1015.5	837.6	711.6	616.3	538.9	486.3	472.0	494.0	538.9
20°	1231.7	1202.0	1108.4	874.3	709.3	595.6	506.4	453.6	459.6	501.4	548.2
22.5°	1454.2	1409.6	1270.8	927.7	720.9	590.4	499.8	472.2	505.5	541.1	572.0
25°	1498.2	1463.3	1300.0	939.8	718.4	586.8	518.5	532.3	569.4	587.1	576.3
27.5°	1523.1	1483.1	1298.1	879.8	642.4	532.3	495.7	518.5	527.9	510.8	481.6
30°	1580.8	1539.3	1330.8	816.7	529.0	394.8	346.2	336.7	343.1	346.4	336.0
32.5°	1660.5	1619.4	1392.5	775.4	457.4	326.6	278.7	265.4	262.4	258.9	254.7
35°	1763.4	1700.3	1453.1	749.0	427.9	302.1	258.0	247.8	243.7	238.8	234.3
37.5°	1868.0	1802.0	1529.6	721.2	408.4	285.0	244.2	239.6	232.4	227.2	220.8
40°	1979.3	1905.2	1599.3	696.9	389.4	274.0	234.3	233.8	224.5	218.3	210.9
42.5°	2075.7	1999.4	1661.6	682.1	374.7	262.4	228.2	229.9	220.3	211.2	201.6
45°	2152.2	2077.4	1719.1	682.1	362.9	250.9	227.2	226.1	216.5	205.1	194.1
47.5°	2219.4	2142.0	1775.3	699.5	355.5	241.2	221.1	223.0	213.1	198.8	188.0
50°	2271.5	2203.2	1851.0	726.4	348.1	233.5	213.4	223.9	210.4	195.5	183.1
52.5°	2337.8	2276.7	1942.1	763.3	341.7	225.0	206.5	223.9	210.1	195.8	182.3
55°	2429.8	2365.4	2052.0	793.9	331.5	217.0	200.5	217.6	209.2	194.4	180.1
57.5°	2494.2	2446.0	2129.7	814.3	317.0	206.8	194.9	211.5	205.7	189.1	173.5
58°	2497.3	2450.2	2140.9	819.0	313.4	204.9	193.6	208.7	204.0	187.0	171.3
60°	2462.5	2422.1	2143.1	812.3	293.0	195.2	186.4	197.5	195.2	174.0	159.5
62.5°	2336.5	2293.2	2054.2	758.7	266.0	183.4	175.4	182.3	177.4	155.8	142.4
65°	2157.2	2077.6	1871.4	674.4	246.7	170.7	160.5	161.1	155.8	140.4	128.6
67.5°	1918.5	1829.5	1584.4	568.3	232.1	156.7	142.9	141.5	135.2	125.3	115.6
70°	1624.6	1563.8	1287.6	462.3	215.9	141.3	123.1	122.3	118.4	111.0	102.4
72.5°	1316.8	1239.4	1039.8	370.1	196.0	126.4	104.6	106.3	101.3	96.1	88.4
75°	971.8	921.1	803.7	296.9	169.4	110.2	87.3	87.8	85.6	80.1	74.1
77.5°	639.9	624.8	575.0	194.9	130.3	87.5	71.3	71.9	70.2	65.3	59.0
80°	430.7	420.5	389.6	125.6	87.0	63.3	55.1	55.6	55.3	50.1	41.5
82.5°	265.4	261.0	251.1	84.8	60.3	45.4	36.3	38.0	41.0	35.2	28.3
85°	125.3	125.6	151.7	46.3	35.5	29.2	19.8	21.2	21.2	21.2	16.0
87.5°	16.2	17.1	20.9	19.5	13.0	11.0	7.1	6.1	5.2	6.9	5.0
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°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5
2.5°	908.7	903.1	891.4	888.6	886.9	891.6	879.3	882.5	877.0	892.5	889.9
5°	760.9	761.4	771.0	777.3	779.5	777.3	769.1	754.8	743.8	739.3	740.4
7.5°	655.6	665.3	681.8	700.2	717.0	722.0	717.3	690.0	660.4	641.6	635.5
10°	620.7	633.6	652.6	667.2	682.1	693.9	696.4	675.2	639.9	595.6	578.3
12.5°	622.6	640.3	658.4	663.0	661.7	666.4	664.1	660.6	637.5	581.0	552.1
15°	604.4	625.4	638.0	635.5	631.2	627.0	621.2	612.2	603.8	564.2	532.3
17.5°	562.5	584.1	594.5	595.3	595.3	594.3	580.2	576.9	575.7	556.5	537.0
20°	570.3	582.1	577.4	569.7	572.0	579.4	571.1	569.4	575.7	584.3	580.7
22.5°	574.7	570.5	535.3	501.2	493.4	516.5	521.3	539.8	565.3	596.2	616.3
25°	547.4	514.1	451.0	412.5	390.7	412.3	440.3	474.5	512.8	552.4	575.7
27.5°	457.7	432.4	387.2	352.5	333.5	336.7	360.7	391.8	427.4	454.1	471.1
30°	344.7	333.5	310.1	298.2	286.6	283.9	294.1	306.0	321.6	325.0	329.3
32.5°	253.9	252.2	253.6	249.8	247.6	247.3	244.2	247.0	248.7	250.6	246.7
35°	229.7	227.5	223.6	222.5	221.1	221.7	220.3	218.9	220.0	221.7	222.8
37.5°	217.2	214.0	208.5	206.5	206.5	207.3	205.1	204.6	206.5	211.8	214.5
40°	207.6	203.8	197.5	194.9	196.6	198.8	195.8	194.7	199.4	204.9	209.2
42.5°	198.6	195.5	189.5	186.7	188.0	192.2	187.8	187.0	193.0	199.1	204.3
45°	190.8	187.8	182.3	180.9	181.5	185.4	182.3	182.3	188.0	194.7	199.4
47.5°	184.8	180.9	177.4	176.3	176.8	179.0	178.5	178.5	183.9	190.8	195.5
50°	178.7	175.4	170.7	171.3	172.7	175.7	175.4	176.3	181.7	190.2	195.2
52.5°	175.9	171.0	165.8	166.3	170.5	174.0	172.9	173.8	180.1	196.0	203.2
55°	172.9	166.3	160.3	161.1	165.8	171.0	169.6	170.7	178.1	199.9	209.8
57.5°	167.1	159.5	152.8	153.4	160.3	165.8	163.6	164.9	173.8	195.8	206.2
58°	164.7	158.0	151.7	152.0	158.6	164.7	162.2	163.3	172.4	194.7	204.6
60°	154.2	150.4	144.8	145.2	151.5	156.7	155.3	156.4	165.3	186.7	194.1
62.5°	139.9	137.7	136.3	136.3	140.2	145.2	146.5	147.8	155.8	168.8	175.4
65°	124.5	124.5	124.7	124.7	127.2	133.6	134.4	137.9	145.4	151.7	156.7
67.5°	114.0	113.5	114.0	112.6	113.7	117.6	121.7	125.1	132.7	137.2	138.8
70°	100.5	100.2	100.5	98.6	100.0	103.3	106.1	111.5	119.5	122.8	123.6
72.5°	87.3	87.3	87.8	86.5	86.5	90.1	92.0	98.1	105.5	107.4	107.6
75°	73.5	74.3	74.3	72.4	73.0	75.2	77.6	82.6	89.5	90.8	90.8
77.5°	58.4	61.4	61.4	59.5	60.3	60.6	63.9	66.4	71.6	72.2	70.0
80°	42.4	45.4	47.9	46.3	47.6	46.0	47.9	49.5	54.8	52.3	48.8
82.5°	30.3	32.5	34.4	34.7	33.3	30.3	32.8	33.1	35.5	32.2	30.3
85°	16.8	18.8	21.2	20.1	17.9	16.0	16.8	17.3	17.1	16.2	15.1
87.5°	4.4	4.7	5.2	3.9	3.6	3.0	4.1	4.1	4.7	5.0	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°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5
2.5°	891.9	904.0	930.1	950.0	974.2	1003.7	1038.4	1073.4	1111.1	1122.9	1139.5
5°	738.0	768.3	781.0	817.0	852.8	906.5	963.8	1030.1	1102.8	1137.8	1171.4
7.5°	630.6	646.8	660.0	686.5	729.4	794.7	866.6	949.5	1052.4	1103.4	1152.7
10°	572.7	574.4	590.6	623.4	660.9	718.4	786.4	879.3	994.1	1056.0	1113.8
12.5°	534.5	527.3	545.0	579.1	621.5	674.7	737.1	825.5	951.9	1015.5	1085.5
15°	500.9	489.6	502.8	537.8	579.6	642.2	709.3	803.0	935.4	1009.5	1087.2
17.5°	501.7	470.6	475.2	504.8	546.3	609.9	691.5	802.1	960.5	1045.9	1137.8
20°	563.6	513.9	492.7	498.1	538.3	607.7	699.7	840.7	1042.8	1167.2	1265.5
22.5°	624.5	594.5	560.4	549.1	571.1	643.8	752.3	931.8	1221.8	1409.3	1586.9
25°	603.3	628.9	620.4	604.4	609.4	669.7	788.1	1006.8	1360.8	1572.1	1738.9
27.5°	482.7	529.2	538.6	538.3	540.3	589.8	708.8	956.3	1378.2	1603.2	1762.6
30°	339.3	343.4	348.3	358.0	366.8	411.1	554.6	839.6	1370.5	1617.2	1776.9
32.5°	244.8	250.3	257.2	270.4	291.3	347.8	485.2	802.4	1411.2	1675.3	1818.7
35°	223.9	230.2	236.8	252.0	271.8	324.1	457.7	787.0	1478.1	1769.5	1893.9
37.5°	217.2	224.5	230.2	241.2	257.2	307.0	432.6	776.5	1546.7	1869.2	1994.8
40°	212.6	220.8	225.6	234.3	245.3	291.3	410.3	768.3	1613.0	1960.3	2075.7
42.5°	208.5	217.0	223.0	229.3	238.4	277.3	390.5	760.0	1670.6	2048.7	2156.4
45°	203.5	214.2	221.9	226.9	234.9	265.4	375.3	753.4	1736.2	2127.1	2237.9
47.5°	199.4	211.2	220.8	226.6	229.7	257.2	363.2	762.5	1814.9	2209.2	2313.6
50°	199.7	210.9	223.0	232.1	224.1	250.3	355.7	798.5	1917.4	2306.7	2373.4
52.5°	208.5	222.2	231.9	234.1	216.5	242.0	351.9	861.6	2038.5	2392.9	2433.7
55°	218.3	232.7	243.1	241.8	212.3	231.6	351.1	928.8	2171.2	2493.4	2512.2
57.5°	214.8	235.7	251.7	244.6	212.6	221.4	347.5	983.0	2282.2	2568.6	2589.8
58°	213.7	234.6	252.8	244.0	211.8	218.3	346.7	987.8	2297.6	2573.8	2600.8
60°	202.9	225.0	252.0	239.9	207.1	210.1	337.6	1002.9	2293.5	2546.8	2607.4
62.5°	183.4	201.6	233.0	219.8	192.8	199.1	317.2	984.1	2181.7	2416.9	2510.7
65°	161.4	174.8	195.8	193.3	172.4	187.8	289.4	910.0	1957.8	2205.9	2304.8
67.5°	144.8	155.8	169.0	165.5	155.0	172.7	259.4	784.8	1706.7	1952.6	2077.1
70°	128.1	136.6	143.2	140.7	137.4	157.8	232.7	636.9	1466.0	1711.9	1832.5
72.5°	111.0	118.9	124.5	120.9	118.9	142.1	210.9	494.3	1157.9	1412.4	1567.4
75°	92.8	100.8	104.6	100.5	99.4	125.3	178.7	369.3	868.8	1088.8	1222.6
77.5°	71.9	80.4	85.4	84.0	84.5	103.0	144.3	252.8	621.2	742.1	883.0
80°	50.4	59.8	63.1	61.6	65.5	78.5	101.8	160.5	428.5	481.6	581.0
82.5°	31.1	39.9	40.5	41.9	44.6	58.1	76.9	97.7	269.0	278.1	350.3
85°	15.7	19.0	20.4	22.5	25.1	35.5	43.8	60.6	173.2	131.1	195.8
87.5°	5.2	5.5	6.6	8.2	10.2	14.6	18.8	24.8	43.0	23.7	60.6
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°	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5	1047.5
2.5°	1172.8	1196.2	1213.2	1229.0	1213.8	1212.4	1197.6	1173.6	1163.7	1163.7
5°	1241.9	1296.7	1341.1	1369.4	1357.3	1328.1	1279.9	1218.4	1185.5	1179.7
7.5°	1260.9	1369.1	1451.4	1480.7	1460.2	1395.8	1303.6	1200.0	1152.7	1142.2
10°	1249.3	1390.0	1510.9	1557.2	1528.9	1431.3	1305.5	1178.6	1120.2	1108.1
12.5°	1237.2	1392.8	1522.0	1588.8	1570.4	1460.0	1319.5	1164.5	1097.1	1079.7
15°	1246.0	1393.9	1508.4	1577.5	1589.4	1494.4	1342.7	1174.7	1092.4	1074.0
17.5°	1301.6	1414.8	1489.2	1545.1	1586.6	1541.2	1408.5	1223.4	1134.3	1111.4
20°	1417.8	1464.9	1500.2	1543.4	1610.3	1636.8	1543.2	1357.3	1251.8	1231.7
22.5°	1754.3	1745.8	1673.7	1672.8	1769.8	1875.8	1869.5	1629.4	1470.7	1454.2
25°	1880.5	1840.8	1736.4	1711.1	1753.8	1917.4	1893.7	1684.9	1538.4	1498.2
27.5°	1831.2	1732.9	1664.3	1658.5	1644.5	1799.0	1855.9	1707.6	1562.2	1523.1
30°	1828.2	1683.6	1585.5	1597.1	1610.6	1758.2	1876.9	1778.3	1622.7	1580.8
32.5°	1835.6	1690.5	1591.3	1593.3	1633.7	1764.2	1900.0	1855.4	1702.3	1660.5
35°	1865.6	1729.5	1628.3	1623.0	1685.8	1803.9	1939.3	1976.5	1811.1	1763.4
37.5°	1914.0	1807.5	1695.7	1694.3	1785.4	1875.5	1988.4	2098.8	1919.2	1868.0
40°	1985.3	1898.6	1815.7	1808.3	1920.9	1992.0	2052.0	2229.1	2045.1	1979.3
42.5°	2071.6	2008.0	1974.1	2003.5	2111.8	2122.8	2151.1	2349.4	2152.2	2075.7
45°	2151.4	2148.4	2195.4	2273.6	2336.7	2270.6	2254.6	2430.1	2235.4	2152.2
47.5°	2246.4	2328.5	2470.5	2585.1	2651.2	2442.8	2343.0	2482.7	2296.0	2219.4
50°	2342.8	2544.1	2771.0	2930.7	2944.8	2629.7	2403.9	2532.3	2351.0	2271.5
52.5°	2444.1	2716.2	3018.3	3203.9	3176.6	2792.5	2462.9	2565.8	2407.8	2337.8
55°	2532.3	2821.6	3156.5	3334.6	3294.7	2891.6	2526.4	2602.2	2488.8	2429.8
57.5°	2581.5	2830.5	3122.0	3277.6	3234.4	2872.4	2555.6	2629.1	2540.5	2494.2
58°	2588.7	2818.6	3091.5	3244.6	3200.5	2856.0	2555.4	2628.0	2543.8	2497.3
60°	2582.4	2741.8	2977.8	3114.1	3067.8	2754.2	2544.9	2607.4	2502.0	2462.5
62.5°	2523.7	2608.5	2781.4	2880.6	2867.4	2595.0	2502.0	2529.5	2374.5	2336.5
65°	2446.6	2426.8	2530.1	2600.3	2610.1	2475.8	2459.3	2360.9	2210.9	2157.2
67.5°	2352.9	2220.8	2220.5	2260.4	2277.0	2292.4	2370.4	2177.9	1975.2	1918.5
70°	2194.1	1903.4	1815.7	1862.8	1849.0	1979.3	2211.4	1920.7	1691.0	1624.6
72.5°	1902.8	1510.4	1370.2	1430.8	1396.1	1552.2	1935.0	1580.6	1398.3	1316.8
75°	1542.3	1129.8	985.2	1040.9	1019.4	1177.5	1610.0	1148.0	1002.9	971.8
77.5°	1197.6	818.6	734.7	727.0	742.9	876.2	1181.0	775.1	661.1	639.9
80°	769.3	586.0	591.0	581.0	589.3	552.4	717.0	494.6	447.7	430.7
82.5°	506.4	408.4	486.9	449.4	426.8	371.5	470.3	323.9	274.8	265.4
85°	345.1	300.7	273.7	209.2	246.4	286.1	352.7	174.3	138.3	125.3
87.5°	155.8	104.6	76.9	47.3	74.9	86.5	171.3	20.4	15.7	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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