

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: P526028

Luminaire Tested: **GALN-SA1A-722-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-722-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2533 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

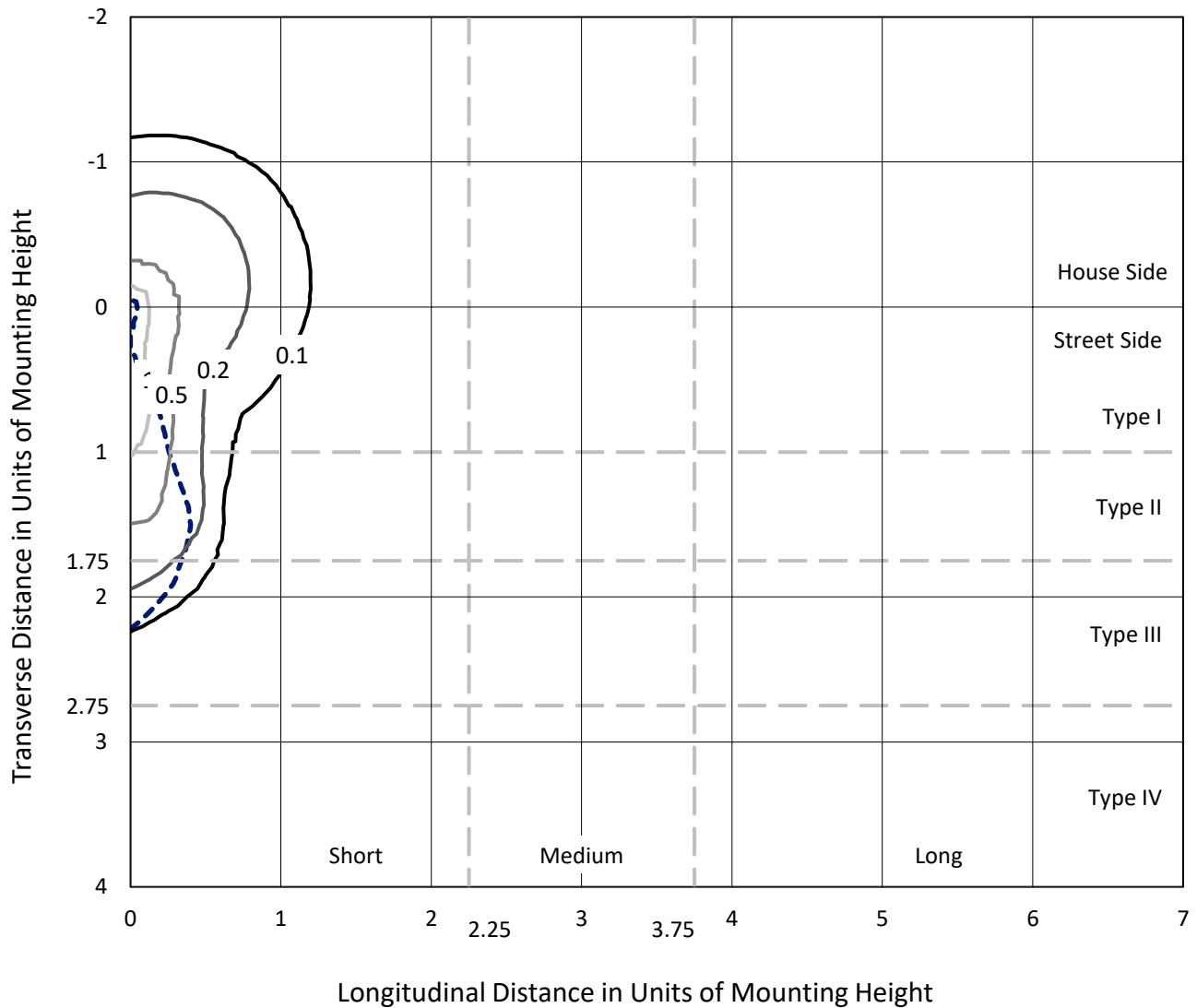
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

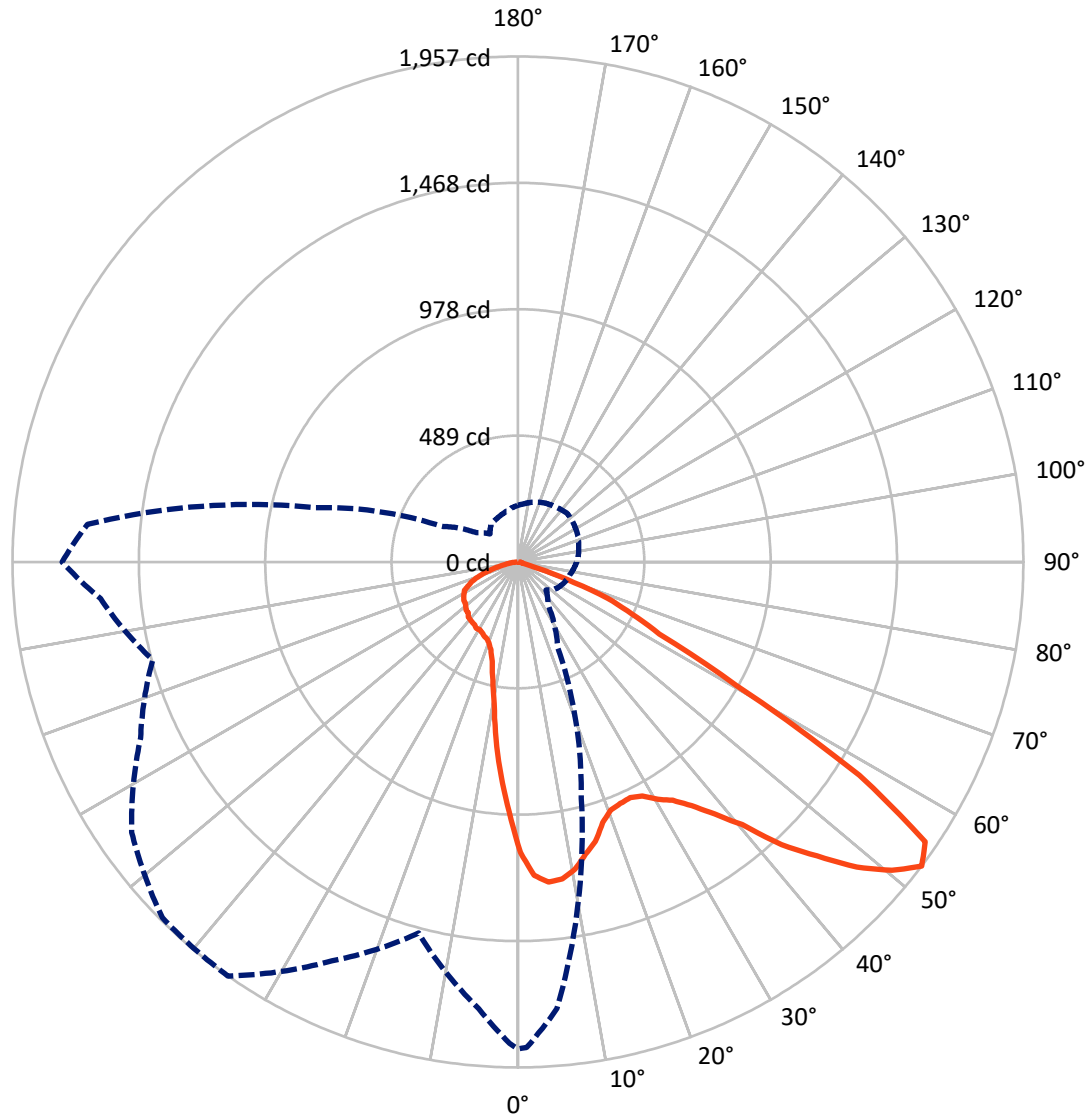
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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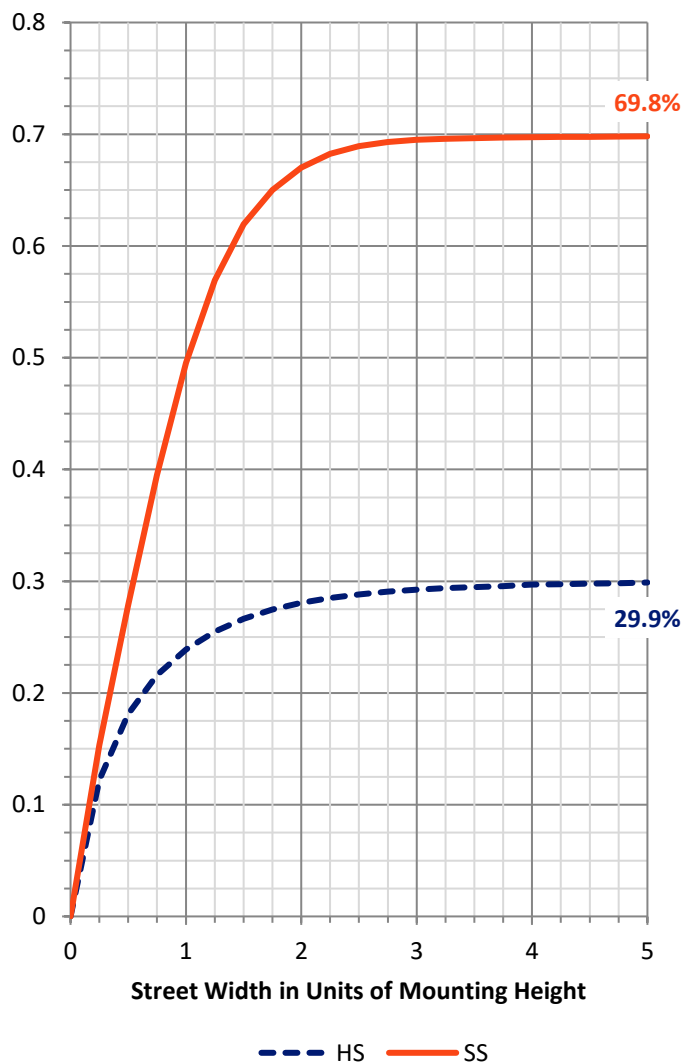
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	763.6	0.0	763.6
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	1769.4	0.0	1769.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	2533.0	0.0	2533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.4
10°-20°	185.9	7.3
20°-30°	280.9	11.1
30°-40°	405.9	16.0
40°-50°	540.2	21.3
50°-60°	604.3	23.9
60°-70°	340.6	13.4
70°-80°	75.9	3.0
80°-90°	13.5	0.5
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°	2533.0	100.0
0°-180°	2533.0	100.0

Coefficient of Utilization

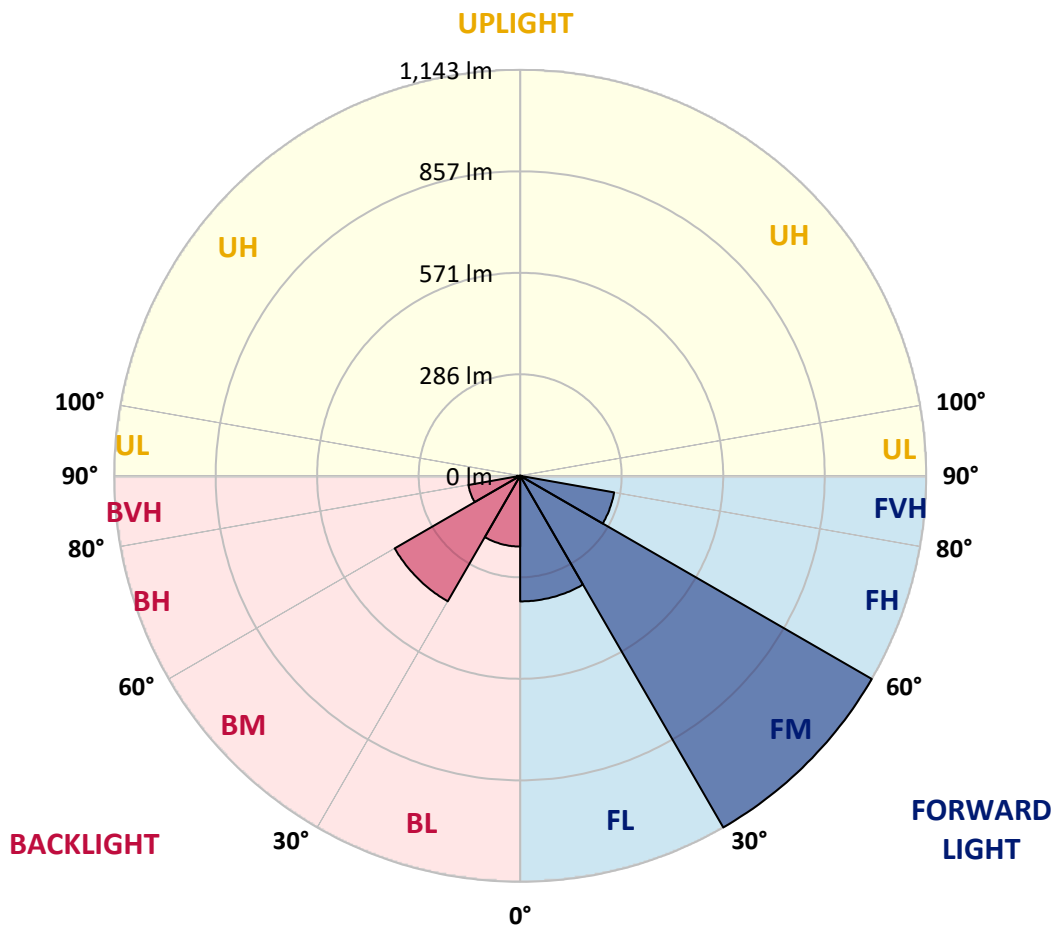


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	353.5	14.0			
FM (30°-60°)	1142.6	45.1			
FH (60°-80°)	268.5	10.6			G0/660
FVH (80°-90°)	4.9	0.2			G0/10
BL (0°-30°)	199.1	7.9	B1/500		
BM (30°-60°)	407.8	16.1	B1/1000		
BH (60°-80°)	148.0	5.8	B1/500		G1/500
BVH (80°-90°)	8.6	0.3			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	1142.9	1161.2	1141.4	1106.2	1081.2	1058.4	1034.6	1029.8	998.6	993.1	970.3
5°	1077.9	1073.9	1049.6	1003.4	952.3	906.1	871.9	838.9	816.5	790.4	788.6
7.5°	999.0	975.5	961.5	891.4	828.3	755.6	724.4	674.1	658.3	634.8	622.7
10°	928.5	911.2	878.5	808.4	720.3	672.2	638.8	611.6	593.3	569.1	538.6
12.5°	893.6	886.6	849.9	741.2	675.9	624.5	601.0	574.6	543.4	504.4	489.4
15°	899.8	876.3	848.4	728.4	638.1	588.5	551.1	518.0	478.0	440.9	419.3
17.5°	946.5	928.5	872.7	736.5	623.8	552.2	484.2	435.4	399.4	366.0	351.0
20°	1038.3	1012.2	949.4	746.7	592.9	501.5	423.7	363.5	324.9	307.3	302.2
22.5°	1139.9	1124.5	1024.3	769.9	568.3	454.5	359.4	299.2	284.9	280.1	289.7
25°	1263.7	1223.7	1140.7	807.7	549.2	414.5	305.1	271.7	264.3	269.1	280.1
27.5°	1357.7	1347.0	1222.2	843.3	523.2	366.4	274.6	252.6	254.8	259.6	269.8
30°	1469.3	1415.3	1301.1	867.9	499.7	333.4	253.3	247.4	249.7	257.7	262.9
32.5°	1536.5	1516.3	1350.7	905.0	472.5	304.7	236.8	231.3	234.6	246.7	258.8
35°	1622.0	1582.0	1412.0	914.5	453.4	293.3	225.1	221.0	228.7	237.2	250.8
37.5°	1721.9	1694.3	1496.8	907.9	443.1	281.6	215.1	213.3	218.8	230.6	246.3
40°	1781.0	1772.5	1541.2	912.0	427.0	271.3	203.8	206.0	217.3	226.5	241.9
42.5°	1837.9	1782.8	1606.9	910.5	416.7	257.4	204.9	202.3	211.1	221.7	236.4
45°	1850.3	1795.6	1622.4	900.2	404.2	243.8	196.4	197.5	208.2	221.4	230.9
47.5°	1842.3	1801.9	1651.0	897.3	392.5	234.2	183.9	197.2	203.4	214.0	227.6
50°	1836.8	1834.6	1675.2	911.2	376.7	219.2	168.9	192.4	198.6	209.3	224.0
52.5°	1885.2	1880.5	1735.8	947.9	364.2	203.0	153.5	180.3	195.3	205.6	219.9
55°	1914.6	1893.7	1839.7	993.1	343.3	181.7	142.8	165.2	187.2	196.4	211.1
57.5°	1722.2	1707.9	1664.2	927.0	308.0	153.8	129.6	149.8	176.2	190.5	205.6
60°	1432.9	1410.5	1298.5	787.9	227.3	119.7	121.5	137.7	173.3	178.8	196.4
62.5°	1351.0	1295.6	1143.3	634.0	174.4	102.8	109.0	126.7	157.9	167.0	184.7
65°	1072.0	1030.9	818.0	457.8	116.7	89.2	99.5	114.2	136.2	154.2	170.3
67.5°	671.1	631.8	436.5	216.6	81.5	76.4	88.8	104.3	122.3	138.4	156.4
70°	350.6	307.7	201.6	78.2	56.2	62.4	74.2	88.8	106.5	119.7	133.6
72.5°	130.7	106.1	65.7	33.8	38.9	47.7	60.2	70.9	83.3	99.5	107.2
75°	20.2	17.3	16.9	20.6	26.4	34.5	43.0	53.6	64.6	74.9	80.0
77.5°	9.5	9.2	10.3	13.6	17.6	24.6	31.2	41.5	50.3	56.9	59.8
80°	6.2	5.9	6.6	9.2	13.2	18.4	25.0	31.9	40.0	45.5	44.8
82.5°	3.7	4.0	4.0	6.2	9.2	13.2	18.0	24.2	29.7	34.5	31.6
85°	2.2	1.8	1.8	3.7	6.2	10.6	15.1	10.3	10.6	10.6	12.1
87.5°	0.7	0.7	0.7	0.4	0.7	0.7	1.1	1.8	2.2	2.6	3.3
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°	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	969.6	981.0	976.9	962.6	973.6	975.5	968.1	993.5	998.2	990.5	992.7
5°	786.0	789.0	795.6	809.5	819.4	831.2	831.2	831.9	822.0	847.0	839.6
7.5°	612.4	614.2	621.9	651.7	660.1	682.5	692.0	685.4	665.6	657.2	664.1
10°	528.7	518.0	515.5	519.1	538.2	547.8	555.8	553.6	550.3	543.7	536.4
12.5°	472.9	465.2	458.9	450.1	451.2	460.4	466.6	461.5	463.0	464.4	466.6
15°	412.3	406.8	403.5	390.3	388.8	395.0	397.2	400.2	405.7	406.0	403.5
17.5°	348.0	343.3	350.6	358.0	352.8	353.2	357.2	359.8	358.3	351.7	348.4
20°	304.0	309.1	316.5	323.4	329.0	332.3	333.7	329.7	324.9	311.3	311.0
22.5°	291.1	297.7	304.0	314.6	319.8	328.2	320.5	311.3	304.7	298.1	290.4
25°	281.6	287.1	299.6	303.6	313.5	320.5	315.0	305.8	294.4	284.9	279.0
27.5°	274.6	280.9	288.9	299.9	307.7	311.7	306.2	302.5	290.8	279.4	270.9
30°	270.2	276.8	291.5	300.7	307.3	310.6	301.0	296.6	288.2	278.7	271.3
32.5°	267.3	273.1	285.6	297.4	301.8	301.8	303.3	298.1	286.4	270.2	264.0
35°	257.7	265.8	276.1	289.7	297.7	302.5	295.2	289.3	281.6	265.1	253.7
37.5°	252.2	257.7	270.9	283.8	290.8	295.9	293.0	282.7	272.4	258.8	249.7
40°	246.3	255.2	266.9	279.0	286.7	291.9	289.7	277.6	265.1	252.2	246.0
42.5°	242.3	248.2	260.3	273.9	283.1	293.0	286.4	271.3	262.5	244.9	237.9
45°	239.0	248.5	261.4	266.9	276.5	286.7	275.0	265.8	255.5	242.7	236.8
47.5°	235.0	243.8	252.2	266.9	271.3	276.1	273.9	259.2	250.4	236.4	232.4
50°	233.5	236.8	252.2	260.3	266.5	271.3	265.4	254.4	246.0	231.7	222.8
52.5°	227.6	233.9	243.8	254.4	262.1	268.0	258.5	251.5	240.1	225.1	219.5
55°	220.3	224.0	241.6	252.6	256.6	260.7	257.0	245.6	233.9	218.4	212.9
57.5°	210.7	219.2	233.5	248.9	254.1	256.3	250.4	241.2	226.5	212.9	204.1
60°	200.8	209.6	225.4	237.9	243.0	251.1	242.3	236.8	219.9	204.9	195.3
62.5°	190.9	200.8	212.6	228.4	232.8	236.1	233.9	226.2	212.6	195.7	183.9
65°	179.2	186.5	201.2	209.3	212.2	219.9	212.2	209.3	197.2	181.0	171.1
67.5°	161.5	167.8	180.6	188.3	190.5	193.8	193.5	190.2	176.6	165.6	156.8
70°	141.3	146.9	154.9	164.1	165.2	169.2	165.6	164.8	156.0	141.0	136.2
72.5°	113.4	118.6	129.2	133.3	133.6	135.1	133.3	130.7	128.5	112.7	107.9
75°	87.0	89.9	95.1	98.8	98.8	100.6	99.5	96.9	91.0	81.1	76.4
77.5°	60.6	63.5	70.1	72.3	72.0	72.7	69.4	66.8	58.0	52.9	48.8
80°	44.1	45.9	49.2	50.7	51.0	52.1	48.1	45.9	40.8	34.9	33.0
82.5°	31.9	33.0	33.4	35.2	35.2	33.4	32.3	30.1	26.4	22.8	21.3
85°	13.2	13.6	14.0	16.2	16.5	19.8	18.4	17.3	15.1	12.8	11.7
87.5°	3.3	3.7	4.8	4.0	4.8	4.8	5.1	5.9	5.9	4.8	4.8
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°	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	1001.2	1004.1	1041.6	1046.3	1064.7	1083.4	1121.2	1148.4	1170.4	1184.7	1188.8
5°	847.3	866.1	883.3	911.2	936.6	972.5	1014.0	1065.4	1130.0	1163.1	1176.3
7.5°	663.4	685.4	710.4	737.6	774.7	839.3	894.7	954.2	1036.8	1070.9	1122.7
10°	541.5	566.1	599.2	620.1	664.9	726.6	791.2	859.8	938.8	988.0	1047.8
12.5°	478.7	498.9	529.4	573.5	606.9	646.9	695.0	781.6	894.7	941.3	982.4
15°	409.4	431.7	467.0	515.8	555.8	603.6	657.5	751.9	872.3	944.3	979.1
17.5°	352.1	368.2	405.3	447.5	493.4	545.6	623.0	750.4	895.8	988.0	1044.9
20°	312.4	314.6	334.8	370.8	433.2	501.1	601.7	743.1	971.1	1063.2	1135.2
22.5°	287.5	285.3	285.6	316.1	359.8	457.4	568.3	768.0	1056.6	1182.9	1231.4
25°	275.0	269.1	265.4	272.0	311.7	405.7	543.0	801.1	1148.8	1281.7	1341.1
27.5°	268.4	258.1	250.8	251.9	280.9	379.6	527.2	815.4	1240.2	1419.3	1440.3
30°	265.8	253.0	242.3	238.6	257.7	343.3	493.4	840.0	1322.0	1495.0	1513.0
32.5°	256.6	240.8	230.6	227.3	235.0	311.3	469.2	857.6	1394.4	1577.2	1571.0
35°	246.0	232.8	219.9	213.7	219.2	290.8	449.7	849.2	1479.5	1641.1	1637.8
37.5°	244.9	227.6	217.0	206.7	206.3	265.4	423.3	857.3	1533.9	1755.6	1710.5
40°	235.3	224.3	210.4	201.9	197.2	252.6	397.6	838.2	1613.5	1801.9	1757.5
42.5°	235.7	219.2	207.1	197.2	192.4	233.9	380.0	833.0	1641.5	1877.2	1779.5
45°	229.8	213.7	203.4	191.6	189.1	219.5	363.1	809.2	1690.6	1880.8	1752.0
47.5°	224.0	209.6	198.6	184.7	178.8	214.4	349.9	789.3	1664.9	1846.3	1713.8
50°	219.9	203.4	193.1	183.2	166.7	205.6	332.6	784.6	1629.0	1799.7	1642.9
52.5°	212.9	198.3	187.6	179.9	153.5	197.5	326.0	812.5	1673.0	1764.8	1622.4
55°	206.3	191.3	177.7	162.6	142.4	176.2	307.7	838.5	1737.3	1845.2	1715.6
57.5°	199.4	185.0	170.3	152.4	131.8	154.2	288.6	843.3	1616.9	1705.3	1628.6
60°	190.2	171.8	160.8	137.3	120.4	127.8	228.7	743.4	1254.1	1424.1	1426.7
62.5°	179.9	160.1	150.5	123.0	108.7	110.1	186.5	624.9	1017.3	1178.9	1249.0
65°	166.3	147.2	135.8	113.8	100.2	95.5	136.6	457.8	772.8	956.4	1036.0
67.5°	148.7	130.7	116.4	99.1	89.6	81.9	93.3	257.7	456.3	642.1	666.3
70°	130.0	114.5	99.5	85.2	74.5	69.0	68.3	114.2	218.1	345.5	393.2
72.5°	102.4	91.4	79.3	68.7	61.7	53.6	48.8	47.4	73.8	140.6	194.2
75°	73.4	64.2	57.3	50.3	45.2	40.8	37.1	33.8	30.8	35.2	48.5
77.5°	46.3	43.0	37.4	35.6	32.7	31.6	30.1	28.3	26.1	24.6	24.6
80°	31.2	29.0	27.2	26.8	25.7	25.3	25.7	23.9	21.7	19.8	20.6
82.5°	20.9	20.6	20.2	19.8	20.2	20.6	21.3	20.9	19.1	18.0	18.4
85°	12.5	13.2	14.0	14.7	16.2	14.3	11.7	9.9	8.8	8.1	7.7
87.5°	4.8	6.6	5.9	5.5	5.9	5.5	5.1	4.8	4.0	3.7	3.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	1215.6	1222.9	1229.2	1227.7	1214.8	1197.6	1190.6	1155.0	1147.7	1142.9
5°	1232.1	1274.7	1283.9	1278.4	1244.9	1202.7	1161.6	1109.5	1079.0	1077.9
7.5°	1201.6	1254.1	1270.6	1283.1	1238.7	1165.3	1094.8	1016.6	997.5	999.0
10°	1124.2	1207.9	1248.6	1261.5	1210.4	1146.9	1049.3	970.0	929.2	928.5
12.5°	1081.2	1146.9	1158.3	1176.3	1161.2	1097.0	1022.8	934.0	894.3	893.6
15°	1043.0	1086.3	1089.7	1115.0	1123.1	1079.7	1029.8	935.1	903.1	899.8
17.5°	1076.4	1046.3	1033.8	1037.2	1061.0	1076.8	1070.2	997.5	964.8	946.5
20°	1098.8	1031.6	993.8	997.5	1025.8	1083.4	1130.4	1087.8	1036.0	1038.3
22.5°	1158.7	1033.8	974.7	970.7	1015.5	1117.9	1198.3	1202.0	1152.1	1139.9
25°	1248.3	1059.2	968.9	967.8	1010.7	1155.0	1277.6	1337.1	1286.1	1263.7
27.5°	1320.2	1098.8	987.2	990.9	1025.8	1185.1	1345.2	1424.1	1385.2	1357.7
30°	1383.4	1139.9	1012.9	996.0	1066.2	1200.9	1374.2	1523.2	1492.0	1469.3
32.5°	1409.4	1198.3	1053.7	1025.8	1099.6	1220.0	1434.4	1619.4	1592.6	1536.5
35°	1453.5	1231.0	1075.7	1073.5	1157.9	1265.9	1462.7	1682.9	1671.9	1622.0
37.5°	1488.7	1264.0	1153.9	1129.7	1238.0	1343.0	1508.2	1770.7	1745.3	1721.9
40°	1515.9	1323.1	1227.0	1258.9	1336.4	1413.1	1550.0	1776.2	1849.2	1781.0
42.5°	1490.9	1376.0	1347.0	1423.4	1496.8	1493.1	1554.8	1818.8	1873.5	1837.9
45°	1484.7	1465.6	1536.8	1606.2	1623.1	1559.6	1520.7	1771.8	1866.1	1850.3
47.5°	1469.6	1553.7	1677.8	1790.9	1765.2	1604.0	1479.9	1763.3	1870.5	1842.3
50°	1464.5	1572.8	1782.1	1892.2	1876.8	1642.6	1460.8	1709.0	1839.3	1836.8
52.5°	1464.1	1612.1	1825.4	1947.3	1956.8	1703.5	1486.9	1736.5	1863.6	1885.2
55°	1480.6	1599.6	1819.9	1916.8	1913.1	1676.3	1489.8	1754.9	1893.3	1914.6
57.5°	1396.6	1432.9	1501.9	1578.7	1558.8	1388.5	1330.5	1622.4	1737.6	1722.2
60°	1206.0	1092.2	1014.4	1010.7	972.2	918.9	1088.9	1448.0	1448.0	1432.9
62.5°	1056.2	717.0	616.0	587.4	614.9	676.3	1050.4	1408.3	1368.3	1351.0
65°	923.7	547.4	445.3	437.3	485.0	577.5	949.8	1199.8	1129.3	1072.0
67.5°	594.4	400.9	331.2	316.8	374.5	424.0	632.2	737.9	693.5	671.1
70°	383.3	261.0	184.3	172.9	195.3	261.4	403.8	430.3	365.7	350.6
72.5°	181.4	112.7	64.6	53.2	59.8	99.9	159.7	171.8	142.8	130.7
75°	57.6	41.5	26.4	22.8	21.7	25.7	36.7	28.3	20.6	20.2
77.5°	25.7	24.6	20.9	17.6	15.4	12.8	10.6	8.8	9.2	9.5
80°	21.3	19.5	17.3	15.4	12.8	9.9	7.7	5.9	5.9	6.2
82.5°	18.7	16.9	15.1	12.8	11.0	8.1	5.9	4.0	3.7	3.7
85°	8.1	9.5	10.3	11.0	8.8	6.6	4.0	2.6	2.2	2.2
87.5°	3.3	2.9	2.6	2.2	1.8	1.8	1.5	1.1	0.7	0.7
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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