

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: P450233

Luminaire Tested: **GALN-SA1A-730-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450233
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-SA1A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA 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: 3026 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - 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

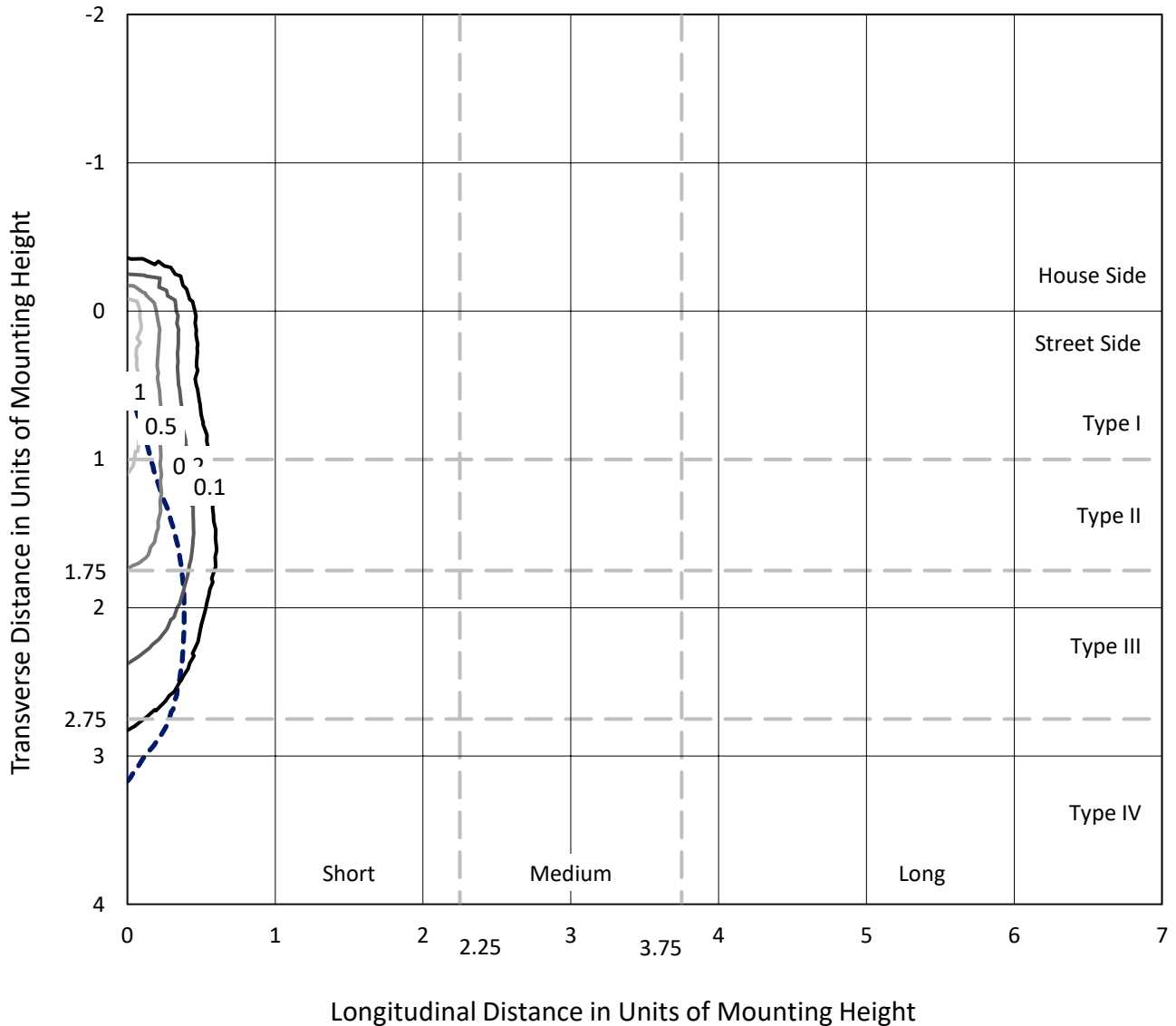




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Iso-Footcandle Lines of Horizontal Illumination

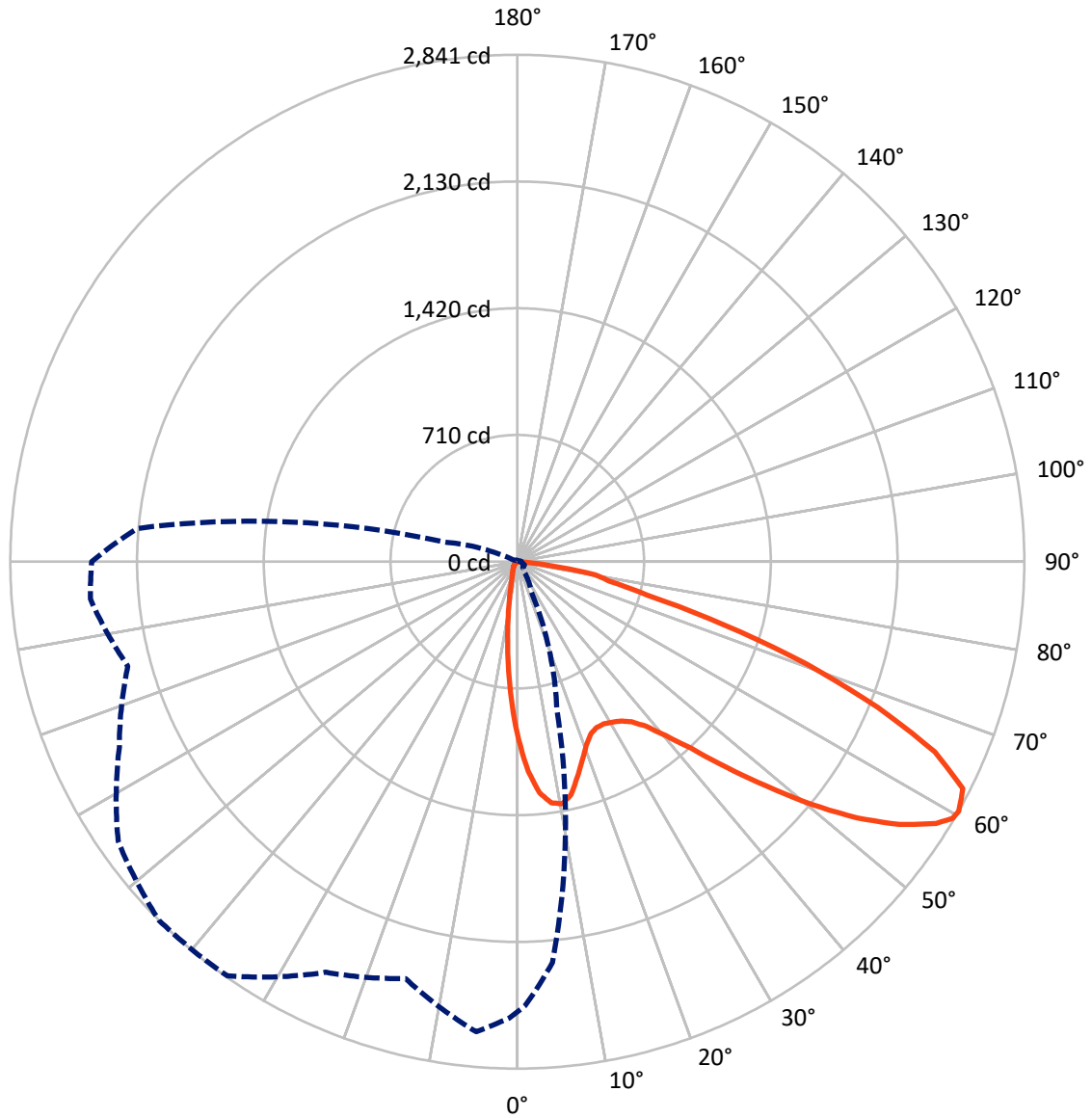
× Max cd
 - - - 1/2 Max cd



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 60-Deg Vertical

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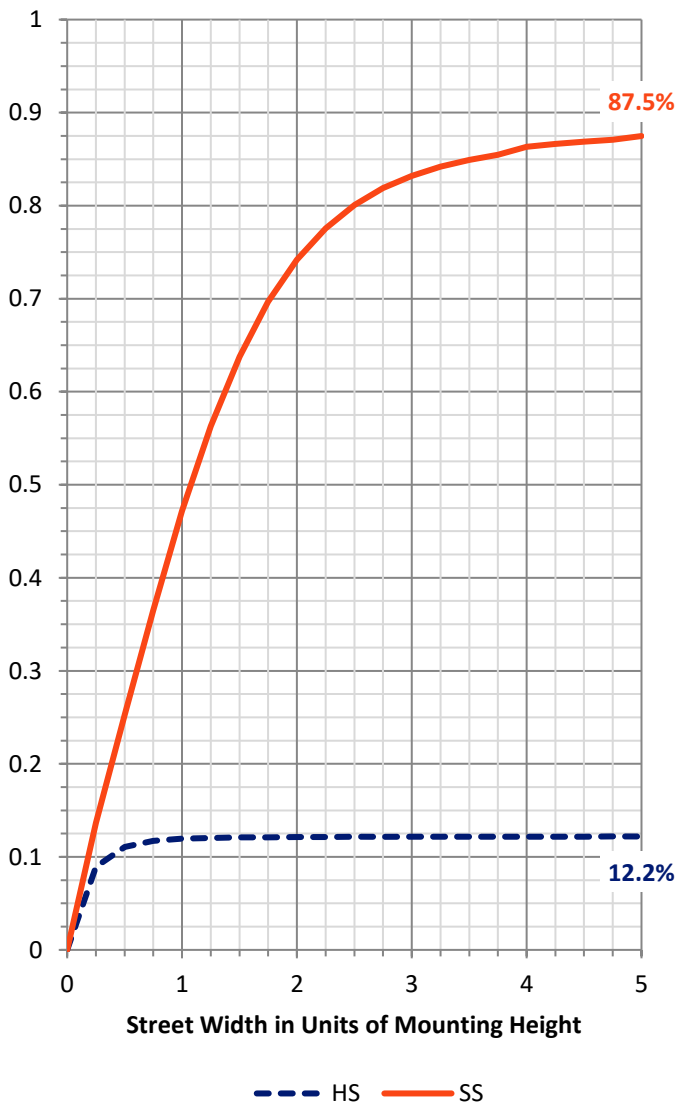
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	373.2	0.0	373.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	2652.8	0.0	2652.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	3026.0	0.0	3026.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	2.5
10°-20°	147.7	4.9
20°-30°	216.6	7.2
30°-40°	322.1	10.6
40°-50°	468.8	15.5
50°-60°	676.1	22.3
60°-70°	743.6	24.6
70°-80°	333.1	11.0
80°-90°	43.5	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°	3026.0	100.0
0°-180°	3026.0	100.0



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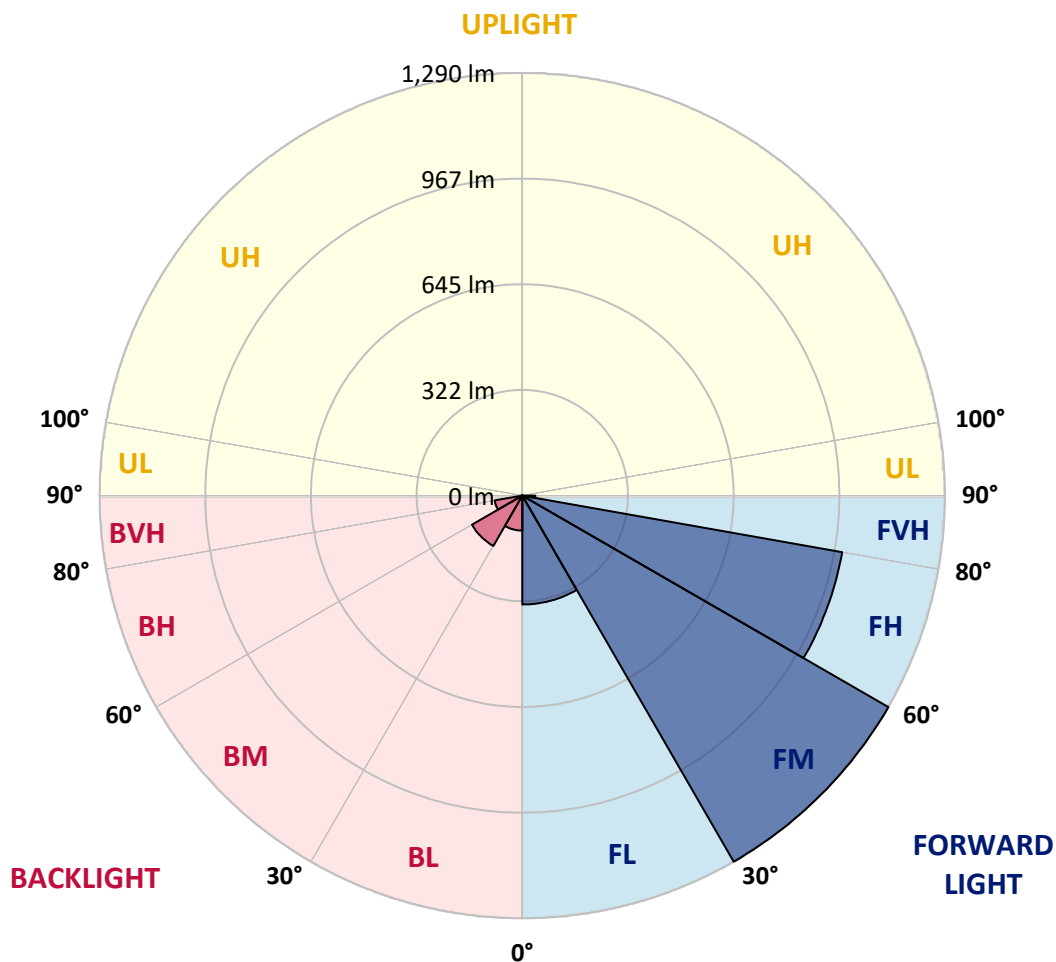
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.1	11.0			
FM	(30°-60°)	1289.8	42.6			
FH	(60°-80°)	991.1	32.8			G1/1800
FVH	(80°-90°)	39.8	1.3			G1/100
BL	(0°-30°)	106.6	3.5	B0/110		
BM	(30°-60°)	177.3	5.9	B0/220		
BH	(60°-80°)	85.6	2.8	B0/110		G0/110
BVH	(80°-90°)	3.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1
2.5°	1099.5	1094.7	1083.6	1050.1	1020.8	982.7	944.0	913.6	895.0	860.7	845.1
5°	1065.2	1067.5	1035.6	966.6	889.7	837.3	780.0	734.5	684.3	652.6	619.2
7.5°	975.8	971.2	936.4	840.3	746.9	671.0	598.5	539.6	502.6	472.9	448.1
10°	899.2	895.7	851.3	727.6	627.3	570.5	521.5	469.9	430.1	386.7	351.9
12.5°	851.1	843.3	792.2	662.9	581.3	528.4	475.0	421.4	366.4	322.5	280.4
15°	835.0	823.7	766.9	640.6	551.8	484.7	417.7	356.1	292.8	244.3	212.5
17.5°	864.2	845.6	785.1	636.7	516.6	427.6	345.3	265.0	199.2	162.2	142.6
20°	931.1	909.7	831.1	632.8	477.5	363.7	262.5	187.2	137.8	117.5	106.7
22.5°	1030.5	1001.1	899.2	639.0	441.4	301.3	189.5	132.3	109.5	96.8	89.2
25°	1149.9	1125.3	985.4	661.1	412.9	252.3	146.5	108.1	92.2	84.4	78.7
27.5°	1280.8	1241.4	1097.0	687.5	386.9	214.4	128.6	96.6	82.1	75.0	72.0
30°	1373.9	1343.3	1190.4	705.9	354.5	185.9	117.5	95.2	82.3	73.8	68.3
32.5°	1465.9	1426.8	1268.6	714.4	330.8	166.1	101.7	83.0	72.2	67.9	62.3
35°	1564.4	1523.4	1346.5	709.8	313.1	153.0	92.2	74.1	61.9	54.5	49.0
37.5°	1664.0	1620.7	1424.1	693.3	302.0	147.7	84.9	70.4	58.4	50.8	44.9
40°	1782.2	1724.5	1496.8	679.7	290.5	144.9	80.0	68.1	55.9	47.8	41.9
42.5°	1878.8	1823.8	1565.5	672.6	282.7	138.5	80.0	66.2	54.3	45.3	39.1
45°	1970.4	1913.3	1639.8	678.3	279.5	130.4	81.0	66.0	53.1	43.5	37.3
47.5°	2047.0	1997.5	1716.2	700.0	275.3	121.7	76.1	69.2	52.4	41.9	35.4
50°	2137.4	2089.5	1817.2	743.7	268.0	112.9	70.2	74.5	52.2	40.5	33.8
52.5°	2264.8	2213.0	1956.6	793.3	256.2	99.6	64.6	73.8	51.3	38.2	32.2
55°	2420.5	2378.7	2118.0	852.9	240.1	84.6	55.9	65.6	48.5	34.3	29.4
57.5°	2520.4	2484.7	2239.0	878.7	215.5	69.2	49.2	55.0	44.4	30.6	26.2
59°	2532.1	2499.9	2264.3	870.2	199.4	63.3	46.0	47.2	43.2	28.5	24.4
60°	2522.2	2488.8	2254.2	853.6	184.5	59.1	43.2	41.9	43.5	27.4	23.0
62.5°	2458.7	2401.7	2156.0	769.7	161.2	54.3	38.4	34.3	38.4	24.6	20.5
65°	2336.1	2250.5	1961.6	651.4	152.0	51.5	32.7	28.8	29.2	21.6	17.7
67.5°	2122.0	2014.1	1702.9	529.3	148.1	51.8	27.6	25.8	22.5	18.4	15.6
70°	1783.4	1675.7	1366.3	435.4	146.3	51.8	23.5	22.1	18.9	15.4	13.6
72.5°	1263.7	1147.8	921.7	342.0	131.8	51.5	20.0	20.0	15.4	12.9	11.0
75°	714.0	714.9	579.4	242.0	109.5	42.6	16.1	15.9	11.3	9.9	8.3
77.5°	416.1	408.7	390.6	104.0	50.8	19.3	11.3	9.7	7.8	7.1	6.0
80°	213.9	176.0	171.4	37.7	18.2	12.2	7.8	5.5	5.1	4.6	4.1
82.5°	63.3	63.5	56.6	15.2	10.1	8.1	3.9	3.0	2.8	2.5	2.5
85°	4.4	2.8	3.2	4.6	6.2	3.2	0.2	0.7	0.7	0.9	1.2
87.5°	0.5	0.2	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°	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1
2.5°	827.8	838.0	819.1	819.6	803.9	809.0	790.6	796.6	785.8	794.0	818.4
5°	622.9	625.2	610.0	605.2	607.5	616.9	620.6	603.8	610.9	596.9	596.0
7.5°	438.9	441.6	432.9	431.8	448.3	444.4	451.5	434.3	418.0	425.1	412.0
10°	340.9	329.4	311.4	306.4	303.2	305.2	305.2	289.6	287.3	281.1	290.5
12.5°	269.1	255.1	238.1	215.1	209.3	208.9	200.3	186.5	182.2	176.9	184.7
15°	195.5	189.8	175.5	162.6	149.5	147.0	133.2	121.9	107.0	104.9	104.2
17.5°	137.6	129.0	128.8	121.5	113.9	108.8	95.9	83.0	77.3	76.6	76.6
20°	103.0	100.1	95.2	94.3	92.0	86.3	74.8	67.9	65.1	65.3	66.2
22.5°	86.7	84.6	80.3	78.2	77.3	72.2	63.7	59.1	57.7	57.7	58.0
25°	77.5	75.7	70.8	67.6	66.5	62.8	56.1	52.7	51.5	51.5	51.5
27.5°	70.6	68.3	63.3	60.5	58.4	54.3	50.1	46.7	45.5	45.5	45.8
30°	65.8	63.3	58.7	55.0	51.8	48.1	44.6	41.6	40.3	40.0	40.3
32.5°	59.3	57.0	52.4	50.1	46.5	42.1	39.3	36.6	35.2	35.4	35.2
35°	46.2	45.5	42.3	43.0	40.9	37.3	34.7	31.7	30.1	29.9	30.4
37.5°	42.1	39.3	35.7	35.9	35.2	33.8	29.7	26.5	25.3	25.3	25.5
40°	38.9	36.1	32.0	29.9	30.1	30.1	25.8	22.3	21.2	20.9	21.4
42.5°	36.1	33.4	28.8	25.3	24.4	25.5	21.9	18.4	17.3	16.8	17.3
45°	34.3	31.3	26.0	22.1	19.3	20.7	17.9	15.2	13.8	13.8	13.6
47.5°	32.4	29.7	23.9	19.1	16.1	15.4	14.7	12.2	10.8	10.6	10.8
50°	30.8	28.1	21.6	16.6	13.6	12.0	12.0	9.7	8.7	8.3	8.5
52.5°	29.2	26.2	19.6	14.7	11.7	9.7	8.5	7.8	7.1	6.9	7.1
55°	26.9	23.9	17.5	12.7	10.1	8.1	6.7	6.4	6.0	5.5	6.0
57.5°	24.2	21.4	15.4	10.8	8.1	6.2	5.5	5.3	4.8	4.6	4.6
59°	22.5	20.0	14.3	9.4	7.1	5.5	5.1	4.8	4.4	3.9	4.1
60°	21.6	19.6	13.6	8.7	6.4	5.1	4.6	4.4	3.9	3.7	3.9
62.5°	19.1	17.5	12.0	7.1	5.1	3.7	3.2	3.5	3.2	3.0	3.2
65°	16.8	15.4	10.1	5.5	3.9	2.5	2.3	3.0	2.8	2.5	2.8
67.5°	15.0	13.3	8.5	4.1	2.8	1.4	1.6	2.5	2.5	2.3	2.5
70°	12.9	11.5	6.9	3.0	1.4	0.7	1.2	1.8	2.3	2.1	2.3
72.5°	10.6	9.0	5.3	2.1	0.7	0.0	0.7	1.6	2.3	2.1	2.3
75°	8.3	6.7	3.9	1.2	0.0	0.0	0.2	1.4	2.3	2.1	2.3
77.5°	6.0	4.8	2.3	0.2	0.0	0.0	0.2	1.4	2.3	2.1	2.3
80°	3.9	3.5	0.9	0.0	0.0	0.0	0.2	1.4	2.3	2.3	2.5
82.5°	2.5	1.8	0.0	0.0	0.0	0.0	0.5	1.8	2.5	2.8	2.8
85°	1.2	0.0	0.0	0.0	0.0	0.0	0.9	2.3	3.0	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.8	3.5	3.5	3.5
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°	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1
2.5°	822.6	837.1	857.5	889.0	914.6	954.8	985.6	1027.7	1070.3	1083.2	1103.2
5°	605.4	624.1	670.5	712.8	739.5	824.6	878.5	963.3	1039.5	1076.0	1115.8
7.5°	420.5	442.6	478.0	537.1	593.2	662.5	749.4	846.5	958.0	1010.3	1066.4
10°	295.1	322.7	372.6	421.2	491.8	557.6	643.4	750.6	873.6	935.3	1005.7
12.5°	186.3	210.9	276.9	331.5	419.6	495.9	575.1	672.1	814.7	878.0	951.8
15°	106.5	127.2	158.0	228.0	325.7	426.7	525.4	638.1	784.6	862.6	942.4
17.5°	79.4	84.9	98.7	138.2	227.3	345.3	479.6	627.7	805.1	896.6	987.7
20°	66.7	70.4	76.8	92.5	144.9	265.9	435.0	629.6	871.3	986.3	1072.8
22.5°	59.8	62.1	67.4	77.5	98.9	193.7	382.8	640.4	951.6	1096.5	1196.3
25°	52.4	55.4	60.0	68.8	82.3	134.3	331.2	664.5	1064.1	1236.4	1330.2
27.5°	46.7	49.5	54.1	62.1	72.2	102.6	271.2	685.2	1182.8	1377.1	1454.0
30°	40.9	43.7	48.3	54.7	63.9	83.0	206.6	697.4	1298.0	1482.7	1541.8
32.5°	36.1	38.4	42.8	48.5	56.1	70.4	162.9	684.8	1386.1	1578.6	1618.2
35°	31.3	34.0	37.7	43.0	49.7	60.0	135.5	641.1	1461.8	1677.3	1691.6
37.5°	26.2	29.4	33.4	38.2	43.5	55.2	108.8	592.8	1542.8	1800.4	1776.9
40°	22.1	25.1	28.8	34.0	38.9	50.6	83.7	541.2	1630.2	1915.9	1870.1
42.5°	17.9	21.2	25.5	30.4	38.4	44.2	64.9	487.9	1708.6	2016.4	1954.3
45°	14.3	17.0	21.6	27.8	38.2	38.0	50.1	435.2	1767.7	2088.1	2017.1
47.5°	11.3	13.6	18.2	27.1	35.2	32.2	40.3	402.5	1829.8	2152.8	2065.1
50°	9.0	11.3	15.6	28.3	30.8	27.6	33.8	407.8	1889.9	2185.7	2084.9
52.5°	7.6	9.9	13.6	22.3	23.7	24.2	29.7	432.2	1967.4	2220.9	2124.3
55°	6.7	8.7	11.5	15.6	18.4	21.6	27.1	449.9	2071.1	2296.3	2211.0
57.5°	5.3	7.6	10.4	13.3	15.2	18.9	25.1	451.3	2165.0	2393.2	2326.2
59°	4.8	6.9	9.7	12.7	13.6	17.0	23.7	439.6	2168.4	2407.6	2379.1
60°	4.4	6.7	9.2	11.7	12.9	16.1	22.5	426.0	2137.1	2384.6	2401.0
62.5°	3.7	5.8	8.1	9.4	11.0	13.3	19.6	376.8	1985.6	2280.4	2360.5
65°	3.2	5.1	6.9	7.8	9.2	11.5	17.3	301.6	1818.1	2139.2	2244.6
67.5°	3.0	4.6	6.0	6.7	8.1	10.6	15.4	213.0	1601.2	1960.0	2070.4
70°	2.8	4.4	5.3	6.2	7.1	9.0	13.1	124.2	1233.4	1645.8	1762.4
72.5°	2.8	4.1	4.6	5.3	6.2	8.1	12.2	67.2	843.3	1255.5	1406.1
75°	2.8	3.9	4.1	4.6	5.5	7.4	10.8	35.2	545.2	872.2	1076.5
77.5°	2.8	3.7	4.1	4.4	5.3	6.4	9.4	22.1	363.2	610.9	727.6
80°	3.0	3.7	3.9	4.4	5.1	6.0	7.8	14.7	213.5	367.6	442.8
82.5°	3.2	3.7	4.1	4.6	5.3	5.8	6.9	9.2	98.4	243.1	275.1
85°	3.5	3.9	4.4	4.8	5.5	5.8	6.4	6.7	16.1	109.7	148.4
87.5°	3.7	4.1	4.6	5.1	6.0	6.0	6.0	6.0	5.5	11.7	29.9
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°	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1	1000.1
2.5°	1128.5	1154.5	1172.7	1177.3	1164.1	1158.2	1141.6	1115.8	1100.2	1099.5
5°	1189.2	1250.2	1292.5	1299.6	1274.3	1231.5	1180.7	1115.1	1076.7	1065.2
7.5°	1178.9	1285.6	1353.7	1363.6	1321.0	1239.4	1140.9	1035.3	993.5	975.8
10°	1136.3	1266.5	1363.8	1379.4	1322.6	1207.6	1082.5	964.7	912.7	899.2
12.5°	1100.0	1231.5	1318.0	1339.6	1296.6	1181.9	1047.5	919.4	863.7	851.1
15°	1084.1	1190.1	1243.0	1254.1	1247.0	1165.8	1043.8	912.5	848.8	835.0
17.5°	1100.0	1154.9	1161.6	1172.9	1188.8	1164.1	1079.3	950.0	881.2	864.2
20°	1141.6	1124.3	1096.7	1101.6	1137.9	1170.8	1142.3	1033.0	949.3	931.1
22.5°	1212.4	1116.8	1054.2	1050.1	1096.1	1193.1	1234.8	1145.5	1048.4	1030.5
25°	1299.4	1135.8	1038.5	1029.6	1079.7	1225.8	1335.3	1283.3	1177.3	1149.9
27.5°	1394.2	1175.4	1038.5	1029.8	1078.3	1254.8	1421.3	1405.2	1310.7	1280.8
30°	1446.1	1208.1	1053.5	1043.6	1095.4	1271.6	1467.3	1513.5	1411.0	1373.9
32.5°	1492.6	1253.4	1082.7	1064.1	1131.0	1296.4	1508.5	1605.6	1490.8	1465.9
35°	1535.4	1301.9	1123.0	1101.3	1177.9	1330.4	1554.0	1702.2	1601.9	1564.4
37.5°	1582.6	1358.3	1185.8	1167.4	1256.4	1396.7	1608.1	1829.1	1711.1	1664.0
40°	1633.8	1423.6	1289.0	1281.2	1381.1	1471.7	1676.4	1964.6	1835.8	1782.2
42.5°	1686.1	1498.8	1415.6	1428.4	1522.3	1576.8	1746.6	2068.8	1937.9	1878.8
45°	1733.4	1595.0	1580.0	1643.7	1687.0	1679.4	1798.5	2142.2	2027.0	1970.4
47.5°	1793.3	1735.1	1779.0	1877.2	1878.4	1791.0	1837.9	2202.2	2103.6	2047.0
50°	1860.2	1900.4	2035.9	2136.0	2109.1	1900.7	1883.9	2273.3	2182.7	2137.4
52.5°	1937.7	2085.6	2273.3	2384.4	2321.6	2020.3	1960.5	2350.1	2308.3	2264.8
55°	2027.9	2211.9	2510.0	2598.6	2535.3	2168.9	2076.9	2454.3	2450.2	2420.5
57.5°	2129.8	2345.3	2647.1	2766.9	2710.6	2343.2	2239.5	2552.6	2536.9	2520.4
59°	2210.3	2413.9	2707.6	2831.8	2797.8	2465.4	2348.8	2613.7	2556.9	2532.1
60°	2259.0	2460.3	2729.9	2840.5	2832.7	2538.1	2418.0	2643.6	2556.7	2522.2
62.5°	2403.7	2541.5	2721.4	2801.7	2832.3	2677.5	2621.1	2676.5	2509.3	2458.7
65°	2455.3	2514.6	2580.4	2570.5	2596.7	2670.3	2750.8	2640.4	2408.1	2336.1
67.5°	2355.0	2219.5	2242.7	2176.7	2163.8	2374.1	2698.2	2463.8	2210.1	2122.0
70°	1985.1	1700.3	1688.6	1719.0	1635.7	1922.1	2422.8	2123.6	1883.2	1783.4
72.5°	1562.5	1201.6	1102.7	1214.5	1212.0	1466.4	2012.7	1506.9	1272.3	1263.7
75°	1228.8	836.6	734.2	752.4	787.4	1061.6	1603.0	956.9	783.5	714.0
77.5°	824.9	592.8	553.0	530.7	568.4	681.6	1014.2	518.9	439.3	416.1
80°	475.5	430.6	489.0	443.9	464.2	429.5	504.4	238.1	197.6	213.9
82.5°	309.4	245.2	261.3	194.1	265.4	267.7	161.9	70.4	59.6	63.3
85°	193.4	115.0	64.6	46.0	91.5	168.4	50.6	4.4	5.1	4.4
87.5°	50.1	19.1	8.1	12.0	14.7	13.1	11.7	0.7	0.2	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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