

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: P382724

Luminaire Tested: **GLEON-SA1A-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 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: 3369.4 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

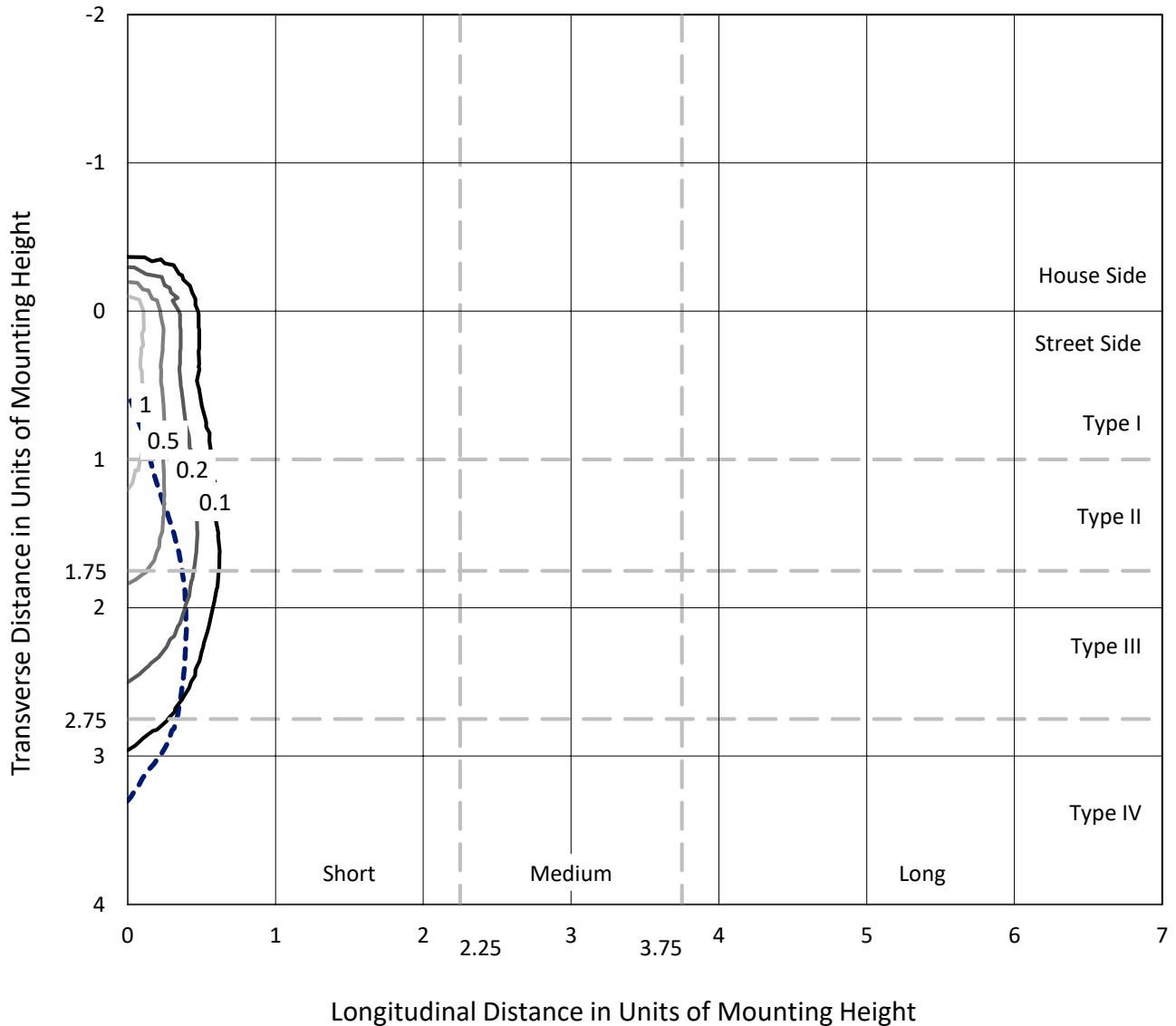
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

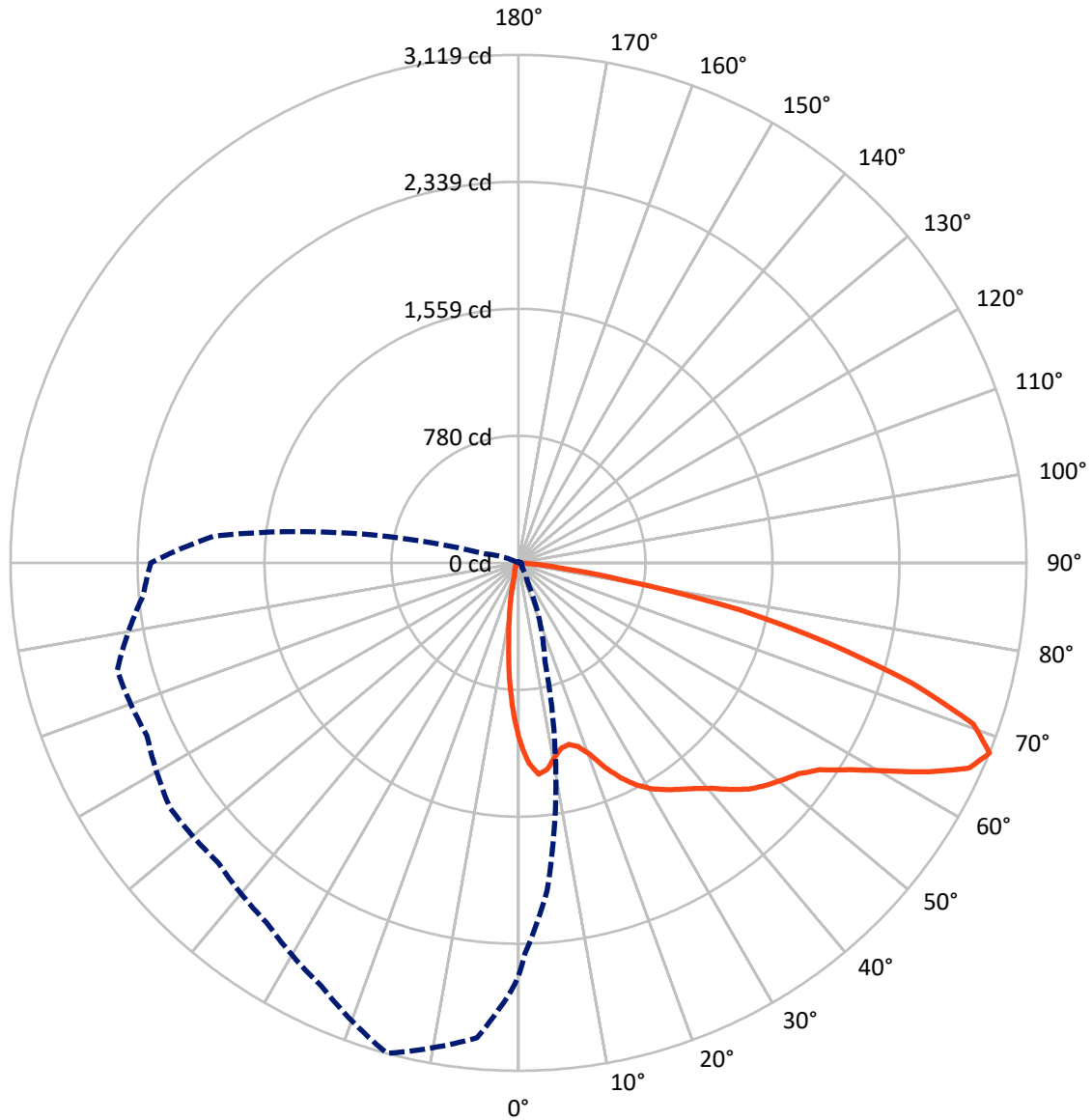
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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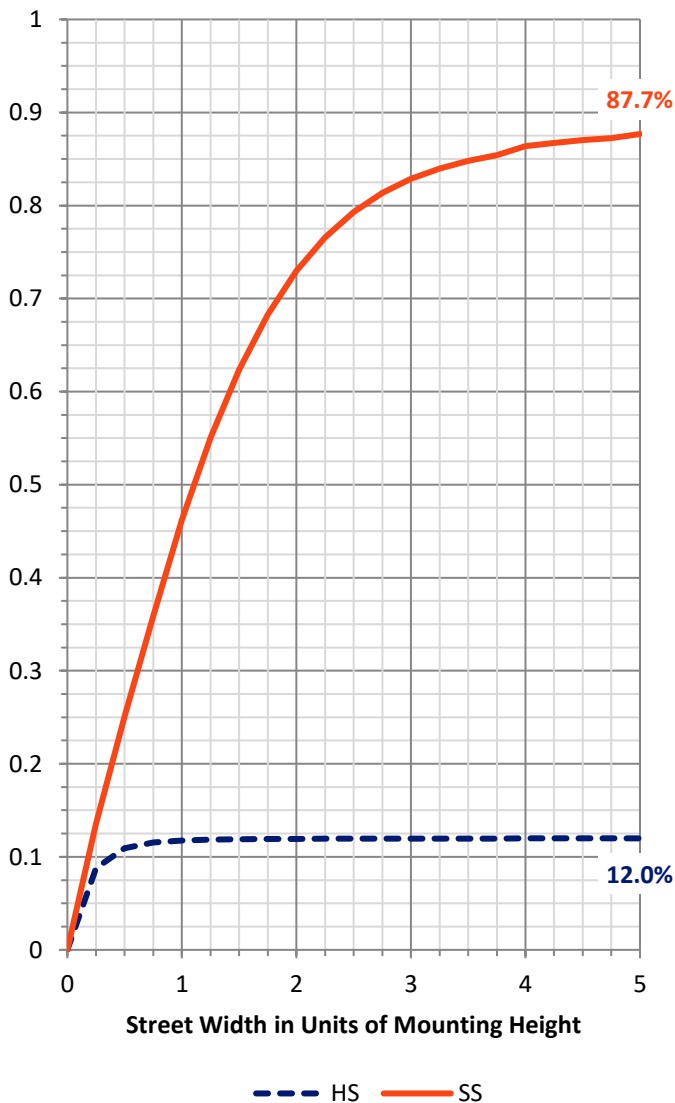
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	407.8	0.0	407.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	2961.6	0.0	2961.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	3369.4	0.0	3369.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	2.5
10°-20°	167.7	5.0
20°-30°	238.1	7.1
30°-40°	351.7	10.4
40°-50°	507.2	15.1
50°-60°	712.0	21.1
60°-70°	830.0	24.6
70°-80°	424.3	12.6
80°-90°	54.2	1.6
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°	3369.4	100.0
0°-180°	3369.4	100.0

Coefficient of Utilization

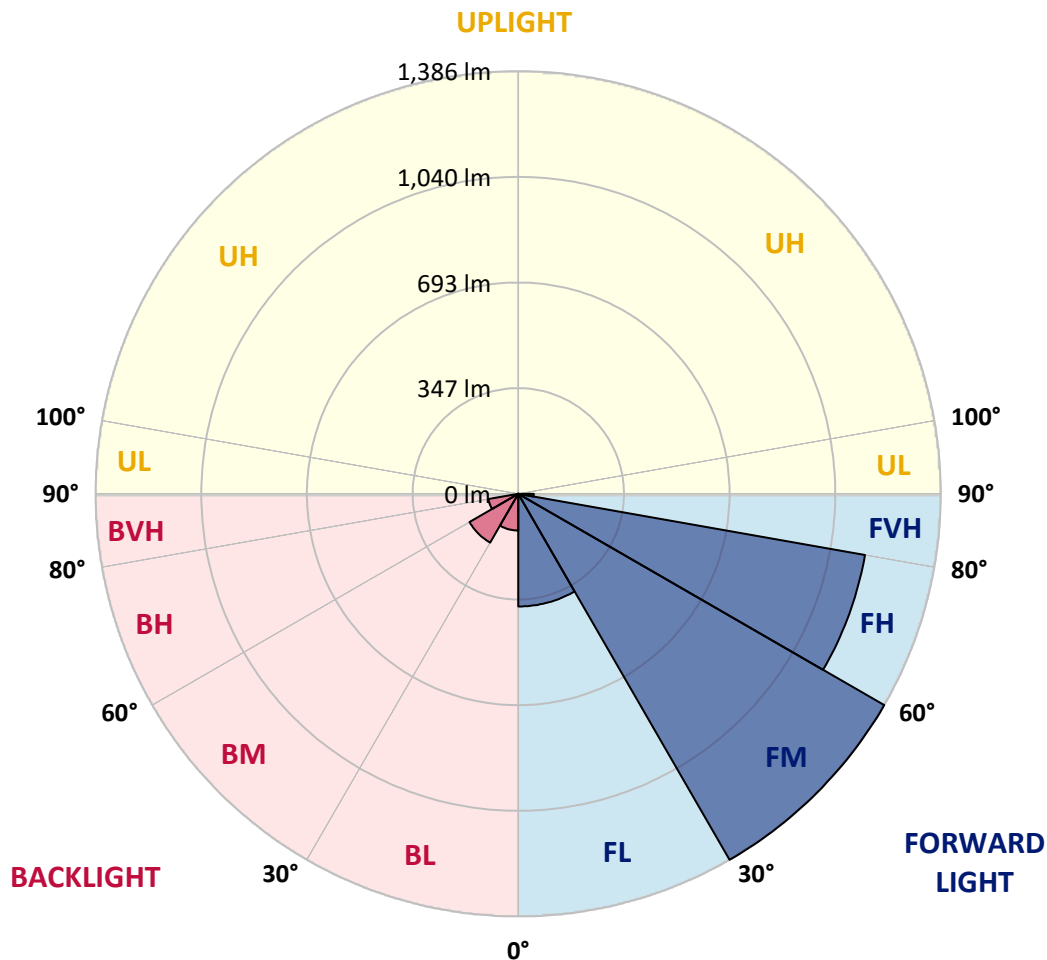


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	369.6	11.0			
FM (30°-60°)	1386.2	41.1			
FH (60°-80°)	1154.9	34.3			G1/1800
FVH (80°-90°)	50.9	1.5			G1/100
BL (0°-30°)	120.5	3.6	B1/500		
BM (30°-60°)	184.7	5.5	B0/220		
BH (60°-80°)	99.4	3.0	B0/110		G0/110
BVH (80°-90°)	3.3	0.1			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	1201.8	1192.6	1182.3	1149.0	1118.0	1082.6	1053.7	1033.6	1008.3	975.6	967.3
5°	1193.2	1183.3	1151.2	1077.0	1012.0	948.8	887.9	852.1	807.7	762.7	751.5
7.5°	1106.5	1096.2	1049.9	948.1	860.7	769.4	690.2	641.2	591.1	549.9	528.0
10°	1016.3	1005.0	953.0	829.5	721.9	639.3	581.2	534.4	487.0	443.0	407.8
12.5°	954.3	939.4	882.9	743.1	649.2	593.2	538.9	482.8	418.7	371.4	332.8
15°	928.2	911.3	851.6	709.7	623.5	557.7	487.0	418.2	343.0	289.0	253.5
17.5°	948.3	926.3	862.3	707.4	591.3	501.7	412.3	331.5	249.9	195.3	170.0
20°	1016.7	987.7	906.5	706.9	552.1	435.1	321.8	230.5	164.7	132.5	119.2
22.5°	1124.2	1086.1	970.0	711.9	511.8	365.3	232.4	156.6	123.7	106.9	99.1
25°	1254.1	1210.0	1061.5	730.0	476.3	297.3	168.9	123.7	104.4	92.1	85.5
27.5°	1377.8	1341.8	1177.1	756.0	448.8	242.3	137.1	104.9	89.2	81.0	75.8
30°	1501.1	1455.9	1295.7	787.0	415.8	205.1	120.5	95.6	79.9	71.4	68.0
32.5°	1590.8	1553.3	1388.6	809.3	380.5	180.8	107.8	87.5	74.7	66.0	61.0
35°	1696.3	1653.9	1468.2	814.3	357.9	165.5	96.9	78.7	64.8	57.0	51.7
37.5°	1810.3	1757.5	1560.2	803.4	340.2	158.0	88.8	74.7	60.5	52.5	46.9
40°	1936.4	1876.7	1648.5	787.7	322.8	155.5	82.5	71.6	57.1	49.0	43.2
42.5°	2069.2	1998.8	1724.9	771.3	311.8	146.7	81.9	68.7	54.6	45.8	40.1
45°	2180.8	2109.4	1803.5	765.9	304.0	137.1	84.6	66.6	52.8	43.2	37.6
47.5°	2269.7	2202.2	1883.9	778.0	299.5	128.4	77.1	69.3	51.9	41.0	35.6
50°	2375.8	2299.4	1997.2	814.3	292.9	119.5	69.8	79.4	51.9	39.6	33.8
52.5°	2508.9	2433.3	2123.6	870.4	279.8	107.4	62.7	79.5	52.4	37.6	31.6
55°	2676.4	2621.5	2304.2	932.0	258.9	89.5	54.3	68.3	50.4	34.2	29.5
57.5°	2837.0	2792.1	2468.8	974.2	230.9	70.0	47.2	55.1	46.1	30.0	26.4
59°	2880.9	2831.9	2529.1	976.1	210.1	61.0	43.8	45.5	45.2	28.1	24.4
60°	2880.9	2828.8	2546.5	965.9	194.9	56.0	41.5	40.5	47.0	26.8	23.3
62.5°	2828.7	2755.6	2490.0	896.8	159.0	47.7	36.2	33.5	42.3	24.1	20.6
65°	2720.1	2613.7	2297.5	771.8	141.8	43.8	31.3	27.5	29.3	21.2	18.1
67.5°	2539.1	2394.8	2019.9	623.5	134.9	42.7	27.0	23.3	22.2	18.2	15.8
70°	2220.3	2060.3	1682.9	490.2	129.0	42.1	22.6	19.7	17.9	15.3	13.4
72.5°	1616.0	1449.1	1194.8	383.2	125.5	43.1	18.2	16.4	14.7	12.0	10.3
75°	924.4	815.0	671.6	253.2	106.9	41.2	14.1	13.7	10.5	8.7	7.2
77.5°	477.6	463.1	402.4	97.3	51.2	18.1	9.2	8.0	6.2	5.3	4.3
80°	206.1	203.8	176.3	28.1	13.6	10.1	5.3	3.4	2.9	2.2	1.8
82.5°	71.2	71.2	62.7	9.4	6.1	4.9	0.7	0.0	0.0	0.0	0.0
85°	14.3	16.1	11.4	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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°	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	957.3	938.0	936.7	924.6	909.4	902.5	898.6	905.6	914.1	915.2	928.1
5°	743.1	722.8	731.3	709.7	714.0	709.7	702.7	704.0	707.8	695.8	710.7
7.5°	521.9	506.5	516.3	510.5	518.1	521.2	516.8	510.5	491.7	489.4	502.4
10°	393.3	375.9	365.5	354.6	357.1	362.0	360.4	355.8	343.8	344.5	356.9
12.5°	316.1	296.6	276.0	249.4	242.8	246.5	242.8	240.1	228.6	229.5	240.5
15°	239.8	223.8	202.2	180.8	169.2	170.3	160.1	153.0	145.7	137.1	143.8
17.5°	161.9	152.1	145.7	139.4	125.5	122.3	109.4	95.5	90.0	86.1	88.9
20°	114.6	109.4	106.8	106.5	98.5	94.5	81.9	73.3	70.5	69.8	71.5
22.5°	95.8	91.9	88.3	86.2	82.2	77.6	68.0	63.7	61.8	60.8	62.1
25°	83.3	80.5	76.6	73.1	71.5	66.6	59.7	56.5	55.2	54.3	54.9
27.5°	74.1	71.5	67.1	64.8	63.5	59.2	53.3	50.8	49.7	49.3	49.2
30°	66.7	64.4	60.2	57.7	55.4	51.5	48.1	45.5	44.3	44.1	43.8
32.5°	59.3	57.5	54.8	52.2	49.8	46.3	43.2	41.2	39.4	39.1	38.9
35°	50.1	48.2	46.8	46.6	44.3	41.0	38.8	36.1	34.7	34.2	34.3
37.5°	44.5	42.0	38.8	39.9	39.3	36.9	33.8	31.1	29.7	29.3	29.3
40°	41.0	38.3	34.7	32.7	34.7	34.2	29.3	26.6	25.2	25.1	24.8
42.5°	37.6	34.9	30.8	27.6	28.6	30.0	25.3	22.8	21.4	21.1	20.6
45°	35.3	32.4	27.8	24.1	22.2	25.2	21.7	18.5	17.7	17.0	16.8
47.5°	33.1	30.4	25.1	20.9	17.7	18.2	17.4	15.2	14.3	13.6	13.4
50°	31.1	28.2	22.6	17.9	14.7	13.4	14.1	12.0	11.2	10.5	10.2
52.5°	28.9	26.2	20.1	15.5	12.3	10.5	10.7	9.4	8.7	8.1	8.0
55°	27.1	24.4	18.1	13.6	10.9	8.7	7.6	7.4	6.9	6.5	6.4
57.5°	24.8	22.2	15.9	11.5	9.2	7.0	5.9	5.9	5.8	5.4	5.3
59°	23.3	21.1	14.7	10.3	8.5	6.1	5.3	5.4	5.3	4.9	4.8
60°	22.2	20.1	13.7	9.6	8.0	5.6	4.8	5.1	4.9	4.7	4.5
62.5°	19.7	18.2	11.8	8.0	7.0	4.5	4.0	4.3	4.3	4.2	4.0
65°	17.2	15.6	10.1	6.7	6.5	3.8	3.2	3.8	4.0	3.6	3.4
67.5°	15.0	13.4	8.8	5.4	6.1	3.1	2.4	3.2	4.3	3.4	3.1
70°	12.8	11.2	6.9	4.3	6.4	2.0	2.0	2.9	5.1	3.6	2.9
72.5°	9.9	8.7	4.8	3.2	6.9	1.4	1.4	2.4	5.8	4.0	2.7
75°	6.9	5.6	2.9	2.0	5.6	0.9	0.9	2.2	5.4	3.6	2.5
77.5°	4.0	3.1	0.9	0.2	2.9	0.0	0.2	1.6	3.8	2.2	1.1
80°	1.4	0.7	0.0	0.0	1.8	0.0	0.0	0.0	0.3	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	931.5	953.0	972.3	1001.5	1036.2	1076.0	1110.3	1147.2	1181.9	1196.2	1206.2
5°	713.7	740.3	771.5	814.4	871.6	942.0	1007.8	1082.5	1162.6	1202.6	1240.3
7.5°	504.6	531.7	570.3	616.0	685.2	768.9	855.1	958.1	1066.6	1130.0	1192.4
10°	362.8	396.2	432.2	494.7	564.9	644.4	733.1	848.1	969.1	1039.3	1114.5
12.5°	247.0	285.0	339.5	409.4	492.0	569.8	647.0	756.6	897.1	966.7	1047.3
15°	148.1	169.2	227.0	307.9	409.1	506.2	590.6	700.6	850.3	935.6	1019.4
17.5°	91.3	101.1	132.5	198.9	305.2	428.0	543.7	681.6	857.0	960.8	1050.5
20°	72.8	76.6	86.6	117.5	202.2	341.8	490.8	677.8	911.8	1039.5	1135.7
22.5°	63.3	66.9	73.6	85.4	127.2	255.9	440.7	681.2	990.3	1157.4	1269.8
25°	55.7	58.9	65.3	75.0	93.2	180.3	387.1	696.9	1092.6	1303.8	1423.2
27.5°	49.8	52.5	58.4	67.4	79.9	125.8	326.2	715.9	1213.9	1453.6	1571.3
30°	44.3	46.8	52.1	60.4	69.4	96.7	259.5	728.8	1335.4	1571.3	1677.2
32.5°	39.8	41.5	46.3	53.3	60.4	77.1	197.3	726.8	1425.6	1669.3	1753.4
35°	34.9	36.7	40.9	46.9	52.5	63.7	155.2	687.9	1504.2	1771.1	1840.5
37.5°	29.7	32.0	36.0	41.4	45.2	56.0	125.5	641.2	1583.8	1887.2	1937.7
40°	25.2	27.5	30.9	36.9	39.3	53.2	96.4	584.3	1673.3	2017.2	2044.3
42.5°	20.9	23.0	26.6	31.8	37.1	45.8	71.4	519.1	1759.4	2128.3	2141.5
45°	17.0	19.0	22.8	27.9	39.6	38.0	55.2	449.4	1828.8	2220.7	2225.0
47.5°	13.4	15.3	19.3	26.4	36.9	30.4	39.4	394.6	1887.0	2292.8	2281.5
50°	10.3	12.0	16.1	30.2	32.2	25.1	29.8	376.4	1939.3	2337.5	2308.2
52.5°	8.1	9.6	13.2	28.2	25.1	20.8	25.1	393.5	2010.7	2374.6	2323.2
55°	6.5	8.0	10.3	16.1	17.0	17.5	21.4	409.4	2134.2	2461.4	2411.8
57.5°	5.4	6.9	8.5	11.4	12.9	14.8	19.0	411.2	2279.6	2605.7	2558.8
59°	4.9	6.2	7.6	10.1	11.4	13.6	17.9	401.6	2330.8	2658.3	2634.8
60°	4.7	5.9	7.2	9.2	10.5	12.8	17.2	392.6	2333.1	2656.3	2667.2
62.5°	4.0	5.3	6.4	7.8	8.9	10.9	15.5	358.8	2238.6	2569.3	2647.7
65°	3.5	4.7	5.8	6.7	7.6	9.8	14.1	297.3	2077.2	2429.0	2514.4
67.5°	3.2	4.0	5.3	5.9	6.9	8.7	12.5	212.0	1875.6	2257.4	2312.8
70°	2.9	3.8	4.8	5.4	6.2	7.5	10.7	121.8	1583.8	2006.2	2045.6
72.5°	2.7	3.6	4.3	5.1	5.6	6.7	9.8	57.3	1159.7	1607.1	1710.0
75°	2.4	3.4	4.0	4.8	5.3	6.1	8.3	27.5	771.3	1163.0	1280.0
77.5°	1.4	2.7	3.6	4.3	4.7	5.3	6.9	15.8	492.3	805.0	948.1
80°	0.0	0.9	2.7	3.6	4.0	4.5	5.3	12.5	263.3	459.9	551.9
82.5°	0.0	0.0	2.0	2.9	2.7	3.1	4.0	7.8	118.8	300.6	338.7
85°	0.0	0.0	0.7	2.2	2.0	1.4	2.7	2.7	26.0	152.1	189.8
87.5°	0.0	0.0	0.0	0.2	0.9	0.7	1.1	0.3	0.2	11.4	45.9
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°	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5	1097.5
2.5°	1240.7	1252.6	1272.5	1281.9	1277.3	1257.7	1234.2	1210.3	1196.2	1201.8
5°	1317.0	1377.9	1413.0	1424.6	1405.1	1361.1	1303.5	1227.5	1200.6	1193.2
7.5°	1317.0	1431.5	1504.0	1516.7	1473.3	1387.0	1278.9	1160.3	1120.8	1106.5
10°	1270.8	1426.6	1527.6	1547.9	1487.2	1358.1	1213.3	1078.0	1031.1	1016.3
12.5°	1218.6	1386.3	1492.8	1520.8	1470.9	1329.3	1167.8	1022.3	967.1	954.3
15°	1186.5	1336.9	1425.0	1445.2	1424.1	1312.6	1157.0	1005.5	940.7	928.2
17.5°	1198.0	1298.6	1330.3	1342.1	1356.3	1306.7	1186.5	1042.2	960.1	948.3
20°	1241.2	1258.1	1241.8	1256.6	1294.9	1312.5	1256.8	1130.9	1032.4	1016.7
22.5°	1314.7	1237.3	1191.1	1197.0	1243.6	1331.5	1364.4	1257.7	1144.0	1124.2
25°	1400.2	1254.1	1163.0	1157.7	1205.6	1356.5	1462.8	1395.6	1276.0	1254.1
27.5°	1507.8	1292.1	1157.3	1152.0	1192.4	1380.0	1544.5	1531.9	1415.1	1377.8
30°	1590.8	1329.5	1174.4	1162.2	1205.6	1396.2	1610.1	1647.6	1525.9	1501.1
32.5°	1650.3	1373.6	1202.2	1184.6	1243.0	1424.3	1660.8	1753.6	1628.3	1590.8
35°	1695.7	1421.4	1247.0	1218.1	1294.4	1466.9	1708.2	1866.4	1737.3	1696.3
37.5°	1738.2	1488.6	1317.0	1282.6	1375.0	1535.6	1758.3	1994.5	1859.3	1810.3
40°	1797.3	1564.8	1425.1	1394.4	1510.5	1629.1	1820.8	2127.9	1998.0	1936.4
42.5°	1856.6	1646.5	1535.7	1544.0	1679.6	1742.7	1901.6	2269.1	2135.0	2069.2
45°	1910.7	1730.8	1693.3	1731.6	1836.5	1867.5	1981.9	2350.7	2244.3	2180.8
47.5°	1959.0	1836.2	1849.9	1951.9	2014.9	1980.3	2042.0	2421.0	2325.7	2269.7
50°	2014.9	1972.5	2056.3	2200.6	2220.3	2082.5	2096.5	2504.4	2420.9	2375.8
52.5°	2076.2	2116.1	2284.9	2412.1	2405.7	2193.4	2151.4	2597.7	2551.3	2508.9
55°	2145.8	2232.2	2486.1	2610.0	2604.6	2317.2	2242.4	2713.1	2714.7	2676.4
57.5°	2249.1	2332.1	2622.8	2770.1	2779.2	2460.3	2396.6	2842.4	2862.6	2837.0
59°	2323.2	2397.0	2676.9	2837.0	2874.0	2570.9	2509.3	2917.4	2904.2	2880.9
60°	2378.1	2438.1	2703.7	2872.0	2929.1	2646.0	2592.5	2961.5	2909.1	2880.9
62.5°	2514.0	2527.8	2752.1	2911.6	2992.5	2812.6	2826.5	3036.6	2874.8	2828.7
65°	2577.3	2584.5	2751.4	2840.7	2931.2	2942.4	3038.8	3038.8	2791.0	2720.1
67.5°	2550.8	2516.2	2614.9	2605.7	2696.1	2865.3	3118.5	2927.4	2630.8	2539.1
70°	2335.3	2202.0	2158.1	2162.1	2231.2	2492.3	2960.6	2599.5	2327.5	2220.3
72.5°	1943.1	1623.4	1515.0	1638.7	1656.8	1915.4	2523.0	1957.6	1716.5	1616.0
75°	1562.9	1144.3	968.2	1098.7	1129.3	1401.7	1951.7	1219.2	1002.6	924.4
77.5°	1122.8	821.4	694.7	685.6	725.2	889.0	1384.9	613.6	511.8	477.6
80°	637.8	540.7	582.1	549.2	569.2	555.9	658.0	269.1	220.4	206.1
82.5°	385.0	319.6	346.1	288.1	364.6	317.5	253.5	86.2	74.9	71.2
85°	250.5	174.7	91.0	61.0	125.7	202.9	56.6	23.5	18.1	14.3
87.5°	86.4	44.5	4.5	2.0	13.4	37.8	2.0	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

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