

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: P458556

Luminaire Tested: **GALN-SA1B-735-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458556
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-SA1B-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 3852 lumens
Efficiency: N/A
Efficacy: 87.5 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 (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

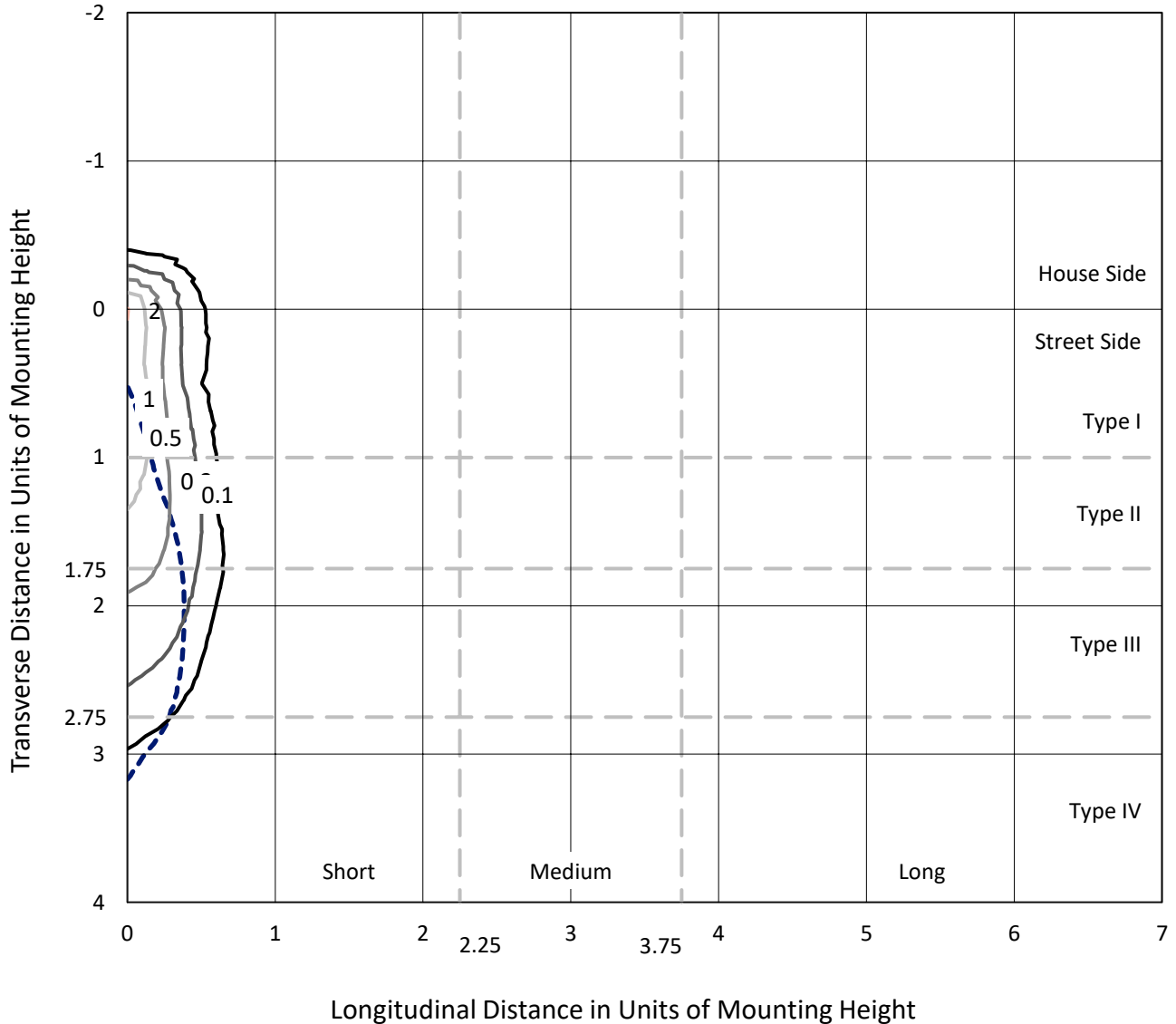




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Iso-Footcandle Lines of Horizontal Illumination

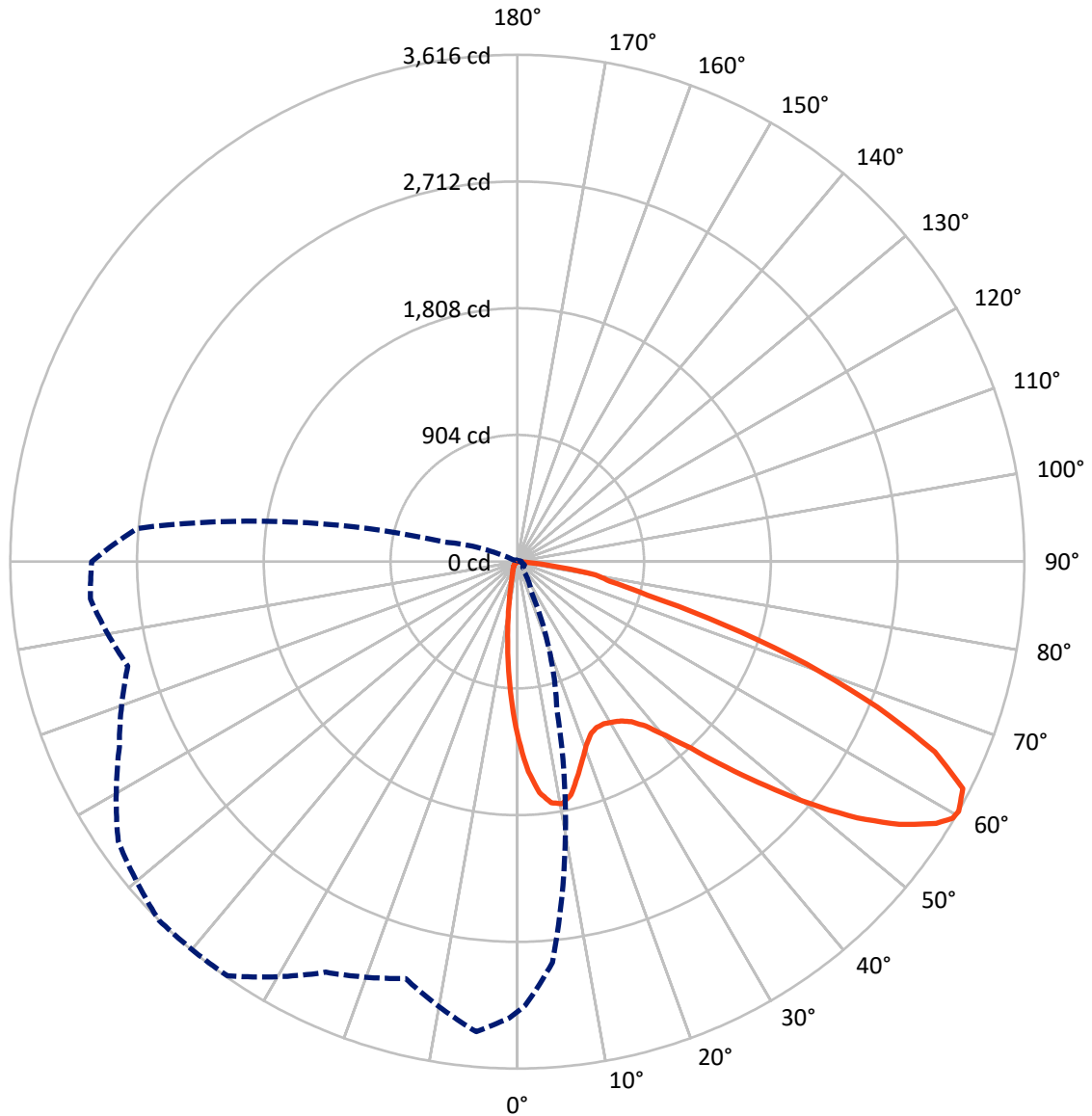
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	475.1	0.0	475.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3376.9	0.0	3376.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	3852.0	0.0	3852.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	2.5
10°-20°	188.1	4.9
20°-30°	275.7	7.2
30°-40°	410.1	10.6
40°-50°	596.8	15.5
50°-60°	860.6	22.3
60°-70°	946.6	24.6
70°-80°	424.0	11.0
80°-90°	55.4	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°	3852.0	100.0
0°-180°	3852.0	100.0



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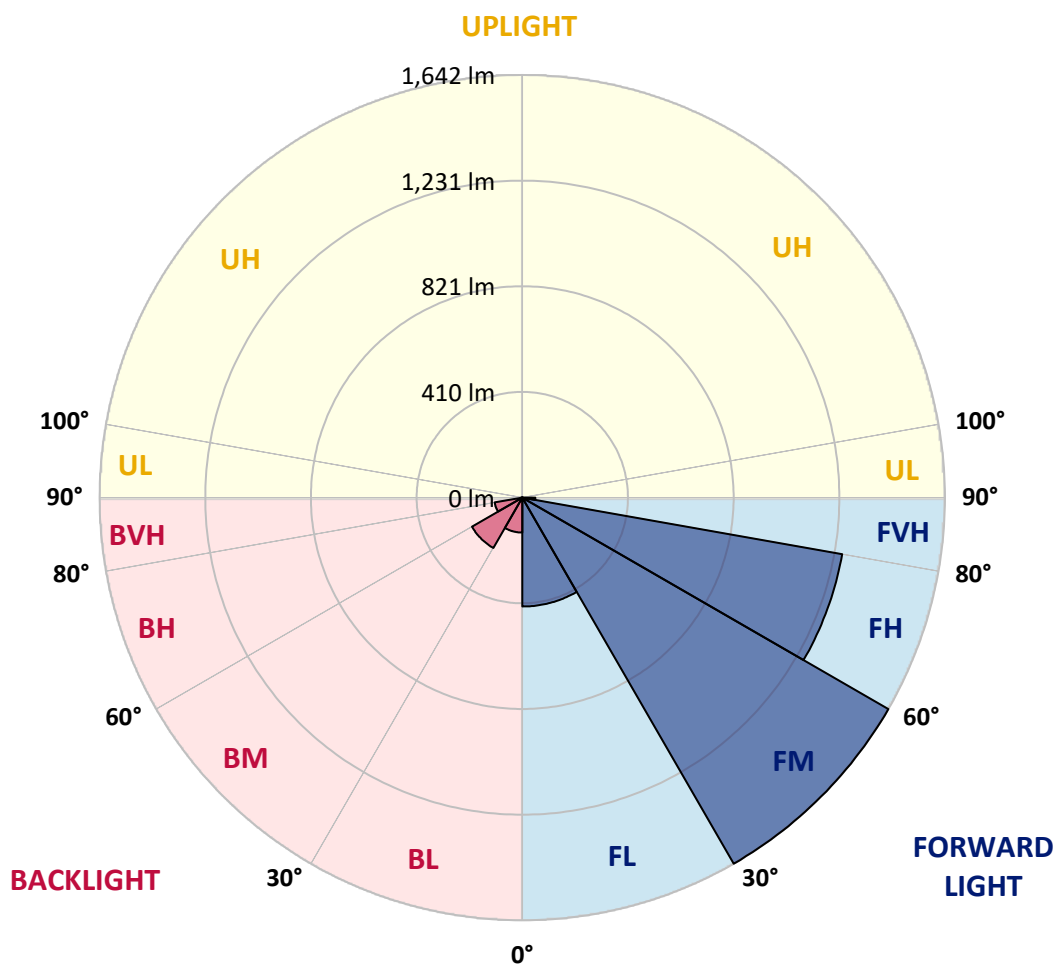
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.7	11.0			
FM (30°-60°)	1641.8	42.6			
FH (60°-80°)	1261.6	32.8			G1/1800
FVH (80°-90°)	50.7	1.3			G1/100
BL (0°-30°)	135.8	3.5	B1/500		
BM (30°-60°)	225.7	5.9	B1/1000		
BH (60°-80°)	109.0	2.8	B0/110		G0/110
BVH (80°-90°)	4.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1
2.5°	1399.6	1393.5	1379.4	1336.7	1299.5	1250.9	1201.7	1163.0	1139.3	1095.7	1075.8
5°	1356.0	1358.9	1318.2	1230.4	1132.6	1065.8	992.9	934.9	871.1	830.7	788.2
7.5°	1242.1	1236.2	1192.0	1069.6	950.8	854.1	761.9	686.9	639.8	602.0	570.4
10°	1144.6	1140.2	1083.7	926.2	798.5	726.2	663.8	598.2	547.6	492.2	448.0
12.5°	1083.4	1073.4	1008.4	843.9	739.9	672.6	604.7	536.4	466.4	410.5	356.9
15°	1062.9	1048.6	976.2	815.5	702.5	617.0	531.7	453.3	372.7	311.0	270.6
17.5°	1100.1	1076.4	999.4	810.5	657.7	544.3	439.5	337.3	253.6	206.4	181.5
20°	1185.3	1158.1	1057.9	805.5	607.9	462.9	334.1	238.3	175.4	149.6	135.9
22.5°	1311.8	1274.3	1144.6	813.4	561.9	383.6	241.3	168.4	139.4	123.3	113.6
25°	1463.8	1432.4	1254.4	841.5	525.6	321.2	186.5	137.6	117.4	107.5	100.1
27.5°	1630.4	1580.3	1396.4	875.2	492.5	272.9	163.7	123.0	104.5	95.5	91.6
30°	1749.0	1710.0	1515.3	898.6	451.2	236.6	149.6	121.2	104.8	94.0	87.0
32.5°	1866.1	1816.3	1614.9	909.5	421.1	211.4	129.4	105.7	91.9	86.4	79.4
35°	1991.4	1939.3	1714.1	903.6	398.5	194.7	117.4	94.3	78.8	69.4	62.4
37.5°	2118.2	2063.1	1812.8	882.5	384.5	188.0	108.0	89.6	74.4	64.7	57.1
40°	2268.7	2195.2	1905.3	865.3	369.8	184.5	101.9	86.7	71.2	60.9	53.3
42.5°	2391.7	2321.7	1992.9	856.2	359.9	176.3	101.9	84.3	69.1	57.7	49.8
45°	2508.2	2435.6	2087.4	863.5	355.8	166.0	103.1	84.0	67.6	55.3	47.4
47.5°	2605.7	2542.8	2184.7	891.0	350.5	154.9	96.9	88.1	66.8	53.3	45.1
50°	2720.8	2659.9	2313.2	946.7	341.1	143.8	89.3	94.9	66.5	51.5	43.0
52.5°	2883.0	2817.1	2490.6	1009.9	326.2	126.8	82.3	94.0	65.3	48.6	41.0
55°	3081.2	3028.0	2696.2	1085.7	305.7	107.8	71.2	83.5	61.8	43.6	37.5
57.5°	3208.3	3162.9	2850.2	1118.5	274.4	88.1	62.7	70.0	56.5	38.9	33.4
59°	3223.3	3182.3	2882.4	1107.7	253.9	80.5	58.6	60.0	55.0	36.3	31.0
60°	3210.7	3168.2	2869.5	1086.6	234.8	75.3	55.0	53.3	55.3	34.8	29.3
62.5°	3129.9	3057.2	2744.5	979.7	205.3	69.1	48.9	43.6	48.9	31.3	26.1
65°	2973.8	2864.9	2497.1	829.2	193.5	65.6	41.6	36.6	37.2	27.5	22.5
67.5°	2701.2	2563.9	2167.7	673.8	188.6	65.9	35.1	32.8	28.7	23.4	19.9
70°	2270.2	2133.1	1739.3	554.3	186.2	65.9	29.9	28.1	24.0	19.6	17.3
72.5°	1608.7	1461.1	1173.3	435.4	167.8	65.6	25.5	25.5	19.6	16.4	14.1
75°	908.9	910.1	737.6	308.0	139.4	54.2	20.5	20.2	14.3	12.6	10.5
77.5°	529.7	520.3	497.2	132.4	64.7	24.6	14.3	12.3	10.0	9.1	7.6
80°	272.3	224.0	218.1	48.0	23.1	15.5	10.0	7.0	6.4	5.9	5.3
82.5°	80.5	80.8	72.0	19.3	12.9	10.2	5.0	3.8	3.5	3.2	3.2
85°	5.6	3.5	4.1	5.9	7.9	4.1	0.3	0.9	0.9	1.2	1.5
87.5°	0.6	0.3	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°	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1
2.5°	1053.8	1066.7	1042.7	1043.3	1023.4	1029.8	1006.4	1014.0	1000.2	1010.8	1041.8
5°	792.9	795.9	776.5	770.4	773.3	785.3	790.0	768.6	777.7	759.8	758.7
7.5°	558.7	562.2	551.1	549.6	570.7	565.7	574.8	552.8	532.0	541.1	524.4
10°	433.9	419.3	396.5	390.0	385.9	388.6	388.6	368.6	365.7	357.8	369.8
12.5°	342.6	324.7	303.1	273.8	266.5	265.9	255.0	237.5	231.9	225.2	235.1
15°	248.9	241.6	223.4	207.0	190.3	187.1	169.5	155.2	136.2	133.5	132.6
17.5°	175.1	164.3	164.0	154.6	144.9	138.5	122.1	105.7	98.4	97.5	97.5
20°	131.2	127.4	121.2	120.1	117.1	109.8	95.2	86.4	82.9	83.2	84.3
22.5°	110.4	107.8	102.2	99.6	98.4	91.9	81.1	75.3	73.5	73.5	73.8
25°	98.7	96.3	90.2	86.1	84.6	79.9	71.4	67.1	65.6	65.6	65.6
27.5°	89.9	87.0	80.5	77.0	74.4	69.1	63.8	59.4	58.0	58.0	58.3
30°	83.7	80.5	74.7	70.0	65.9	61.2	56.8	53.0	51.2	50.9	51.2
32.5°	75.5	72.6	66.8	63.8	59.1	53.6	50.1	46.6	44.8	45.1	44.8
35°	58.9	58.0	53.9	54.8	52.1	47.4	44.2	40.4	38.4	38.1	38.7
37.5°	53.6	50.1	45.4	45.7	44.8	43.0	37.8	33.7	32.2	32.2	32.5
40°	49.5	46.0	40.7	38.1	38.4	38.4	32.8	28.4	26.9	26.6	27.2
42.5°	46.0	42.5	36.6	32.2	31.0	32.5	27.8	23.4	22.0	21.4	22.0
45°	43.6	39.8	33.1	28.1	24.6	26.4	22.8	19.3	17.6	17.6	17.3
47.5°	41.3	37.8	30.5	24.3	20.5	19.6	18.7	15.5	13.8	13.5	13.8
50°	39.2	35.7	27.5	21.1	17.3	15.2	15.2	12.3	11.1	10.5	10.8
52.5°	37.2	33.4	24.9	18.7	14.9	12.3	10.8	10.0	9.1	8.8	9.1
55°	34.3	30.5	22.3	16.1	12.9	10.2	8.5	8.2	7.6	7.0	7.6
57.5°	30.7	27.2	19.6	13.8	10.2	7.9	7.0	6.7	6.1	5.9	5.9
59°	28.7	25.5	18.2	12.0	9.1	7.0	6.4	6.1	5.6	5.0	5.3
60°	27.5	24.9	17.3	11.1	8.2	6.4	5.9	5.6	5.0	4.7	5.0
62.5°	24.3	22.3	15.2	9.1	6.4	4.7	4.1	4.4	4.1	3.8	4.1
65°	21.4	19.6	12.9	7.0	5.0	3.2	2.9	3.8	3.5	3.2	3.5
67.5°	19.0	17.0	10.8	5.3	3.5	1.8	2.0	3.2	3.2	2.9	3.2
70°	16.4	14.6	8.8	3.8	1.8	0.9	1.5	2.3	2.9	2.6	2.9
72.5°	13.5	11.4	6.7	2.6	0.9	0.0	0.9	2.0	2.9	2.6	2.9
75°	10.5	8.5	5.0	1.5	0.0	0.0	0.3	1.8	2.9	2.6	2.9
77.5°	7.6	6.1	2.9	0.3	0.0	0.0	0.3	1.8	2.9	2.6	2.9
80°	5.0	4.4	1.2	0.0	0.0	0.0	0.3	1.8	2.9	2.9	3.2
82.5°	3.2	2.3	0.0	0.0	0.0	0.0	0.6	2.3	3.2	3.5	3.5
85°	1.5	0.0	0.0	0.0	0.0	0.0	1.2	2.9	3.8	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	2.0	3.5	4.4	4.4	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1
2.5°	1047.1	1065.5	1091.6	1131.7	1164.2	1215.5	1254.7	1308.3	1362.4	1378.8	1404.3
5°	770.7	794.4	853.5	907.4	941.4	1049.7	1118.2	1226.3	1323.2	1369.8	1420.4
7.5°	535.3	563.4	608.5	683.7	755.2	843.3	954.0	1077.5	1219.6	1286.0	1357.5
10°	375.7	410.8	474.4	536.1	626.0	709.8	819.0	955.4	1112.1	1190.6	1280.2
12.5°	237.2	268.5	352.5	421.9	534.1	631.3	732.0	855.6	1037.1	1117.7	1211.7
15°	135.6	161.9	201.2	290.2	414.6	543.2	668.8	812.3	998.8	1098.0	1199.6
17.5°	101.0	108.0	125.6	176.0	289.3	439.5	610.5	799.1	1024.8	1141.4	1257.3
20°	84.9	89.6	97.8	117.7	184.5	338.5	553.7	801.4	1109.2	1255.6	1365.7
22.5°	76.1	79.1	85.8	98.7	125.9	246.5	487.2	815.2	1211.4	1395.8	1522.9
25°	66.8	70.6	76.4	87.6	104.8	171.0	421.6	845.9	1354.5	1573.9	1693.3
27.5°	59.4	63.0	68.8	79.1	91.9	130.6	345.2	872.3	1505.6	1753.1	1850.9
30°	52.1	55.6	61.5	69.7	81.4	105.7	262.9	887.8	1652.3	1887.5	1962.7
32.5°	46.0	48.9	54.5	61.8	71.4	89.6	207.3	871.7	1764.5	2009.6	2059.9
35°	39.8	43.3	48.0	54.8	63.2	76.4	172.5	816.1	1860.8	2135.2	2153.3
37.5°	33.4	37.5	42.5	48.6	55.3	70.3	138.5	754.6	1963.9	2291.8	2262.0
40°	28.1	31.9	36.6	43.3	49.5	64.4	106.6	689.0	2075.1	2438.8	2380.6
42.5°	22.8	26.9	32.5	38.7	48.9	56.2	82.6	621.1	2175.0	2566.8	2487.7
45°	18.2	21.7	27.5	35.4	48.6	48.3	63.8	554.0	2250.3	2658.1	2567.7
47.5°	14.3	17.3	23.1	34.6	44.8	41.0	51.2	512.4	2329.3	2740.4	2628.9
50°	11.4	14.3	19.9	36.0	39.2	35.1	43.0	519.2	2405.7	2782.3	2654.0
52.5°	9.7	12.6	17.3	28.4	30.2	30.7	37.8	550.2	2504.4	2827.1	2704.1
55°	8.5	11.1	14.6	19.9	23.4	27.5	34.6	572.7	2636.5	2923.1	2814.5
57.5°	6.7	9.7	13.2	17.0	19.3	24.0	31.9	574.5	2755.9	3046.4	2961.2
59°	6.1	8.8	12.3	16.1	17.3	21.7	30.2	559.6	2760.3	3064.8	3028.5
60°	5.6	8.5	11.7	14.9	16.4	20.5	28.7	542.3	2720.5	3035.6	3056.4
62.5°	4.7	7.3	10.2	12.0	14.1	17.0	24.9	479.6	2527.5	2902.9	3004.8
65°	4.1	6.4	8.8	10.0	11.7	14.6	22.0	383.9	2314.4	2723.1	2857.2
67.5°	3.8	5.9	7.6	8.5	10.2	13.5	19.6	271.1	2038.3	2495.0	2635.6
70°	3.5	5.6	6.7	7.9	9.1	11.4	16.7	158.1	1570.1	2095.1	2243.5
72.5°	3.5	5.3	5.9	6.7	7.9	10.2	15.5	85.5	1073.4	1598.2	1790.0
75°	3.5	5.0	5.3	5.9	7.0	9.4	13.8	44.8	694.0	1110.3	1370.4
77.5°	3.5	4.7	5.3	5.6	6.7	8.2	12.0	28.1	462.3	777.7	926.2
80°	3.8	4.7	5.0	5.6	6.4	7.6	10.0	18.7	271.7	467.9	563.7
82.5°	4.1	4.7	5.3	5.9	6.7	7.3	8.8	11.7	125.3	309.5	350.2
85°	4.4	5.0	5.6	6.1	7.0	7.3	8.2	8.5	20.5	139.7	188.9
87.5°	4.7	5.3	5.9	6.4	7.6	7.6	7.6	7.6	7.0	14.9	38.1
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°	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1	1273.1
2.5°	1436.5	1469.6	1492.7	1498.6	1481.9	1474.3	1453.2	1420.4	1400.5	1399.6
5°	1513.8	1591.4	1645.3	1654.4	1622.2	1567.7	1503.0	1419.5	1370.6	1356.0
7.5°	1500.7	1636.5	1723.2	1735.8	1681.6	1577.7	1452.3	1317.9	1264.6	1242.1
10°	1446.5	1612.2	1736.1	1756.0	1683.7	1537.3	1378.0	1228.0	1161.9	1144.6
12.5°	1400.2	1567.7	1677.8	1705.3	1650.6	1504.5	1333.5	1170.4	1099.5	1083.4
15°	1380.0	1515.0	1582.3	1596.4	1587.3	1484.0	1328.8	1161.6	1080.5	1062.9
17.5°	1400.2	1470.2	1478.7	1493.0	1513.2	1481.9	1373.9	1209.3	1121.8	1100.1
20°	1453.2	1431.3	1396.1	1402.3	1448.5	1490.4	1454.1	1315.0	1208.4	1185.3
22.5°	1543.4	1421.6	1342.0	1336.7	1395.2	1518.8	1571.8	1458.2	1334.6	1311.8
25°	1654.1	1445.9	1322.0	1310.6	1374.5	1560.4	1699.8	1633.6	1498.6	1463.8
27.5°	1774.7	1496.3	1322.0	1310.9	1372.7	1597.3	1809.3	1788.8	1668.4	1630.4
30°	1840.9	1537.8	1341.1	1328.5	1394.4	1618.7	1867.8	1926.7	1796.1	1749.0
32.5°	1900.0	1595.5	1378.3	1354.5	1439.8	1650.3	1920.3	2043.8	1897.7	1866.1
35°	1954.5	1657.3	1429.5	1402.0	1499.5	1693.6	1978.2	2166.8	2039.1	1991.4
37.5°	2014.5	1729.0	1509.4	1486.0	1599.3	1777.9	2047.0	2328.4	2178.2	2118.2
40°	2079.8	1812.2	1640.9	1631.0	1758.0	1873.4	2134.0	2500.9	2336.9	2268.7
42.5°	2146.3	1908.0	1802.0	1818.4	1937.8	2007.2	2223.3	2633.5	2466.9	2391.7
45°	2206.6	2030.3	2011.3	2092.4	2147.5	2137.8	2289.5	2726.9	2580.2	2508.2
47.5°	2282.8	2208.7	2264.6	2389.6	2391.1	2279.8	2339.6	2803.4	2677.8	2605.7
50°	2368.0	2419.2	2591.7	2719.0	2684.8	2419.5	2398.1	2893.8	2778.5	2720.8
52.5°	2466.6	2654.9	2893.8	3035.3	2955.3	2571.8	2495.6	2991.6	2938.4	2883.0
55°	2581.4	2815.7	3195.2	3307.9	3227.4	2760.9	2643.8	3124.3	3119.0	3081.2
57.5°	2711.1	2985.5	3369.7	3522.2	3450.5	2982.9	2850.8	3249.3	3229.4	3208.3
59°	2813.6	3072.8	3446.7	3604.8	3561.5	3138.3	2989.9	3327.2	3254.9	3223.3
60°	2875.7	3131.9	3475.1	3615.9	3606.0	3230.9	3078.0	3365.3	3254.6	3210.7
62.5°	3059.9	3235.3	3464.2	3566.4	3605.4	3408.3	3336.6	3407.1	3194.3	3129.9
65°	3125.5	3201.0	3284.8	3272.2	3305.5	3399.2	3501.7	3361.2	3065.4	2973.8
67.5°	2997.8	2825.3	2854.9	2770.9	2754.5	3022.1	3434.7	3136.3	2813.3	2701.2
70°	2527.0	2164.5	2149.5	2188.2	2082.2	2446.7	3084.2	2703.2	2397.2	2270.2
72.5°	1989.1	1529.6	1403.7	1546.0	1542.8	1866.7	2562.1	1918.2	1619.5	1608.7
75°	1564.2	1065.0	934.7	957.8	1002.3	1351.3	2040.6	1218.1	997.3	908.9
77.5°	1050.0	754.6	703.9	675.5	723.5	867.6	1291.0	660.6	559.3	529.7
80°	605.2	548.1	622.5	565.1	590.9	546.7	642.1	303.1	251.5	272.3
82.5°	393.8	312.1	332.6	247.1	337.9	340.8	206.1	89.6	75.8	80.5
85°	246.3	146.4	82.3	58.6	116.5	214.3	64.4	5.6	6.4	5.6
87.5°	63.8	24.3	10.2	15.2	18.7	16.7	14.9	0.9	0.3	0.6
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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