

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: P269015

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SLR-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3845.4 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
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: 25 FT

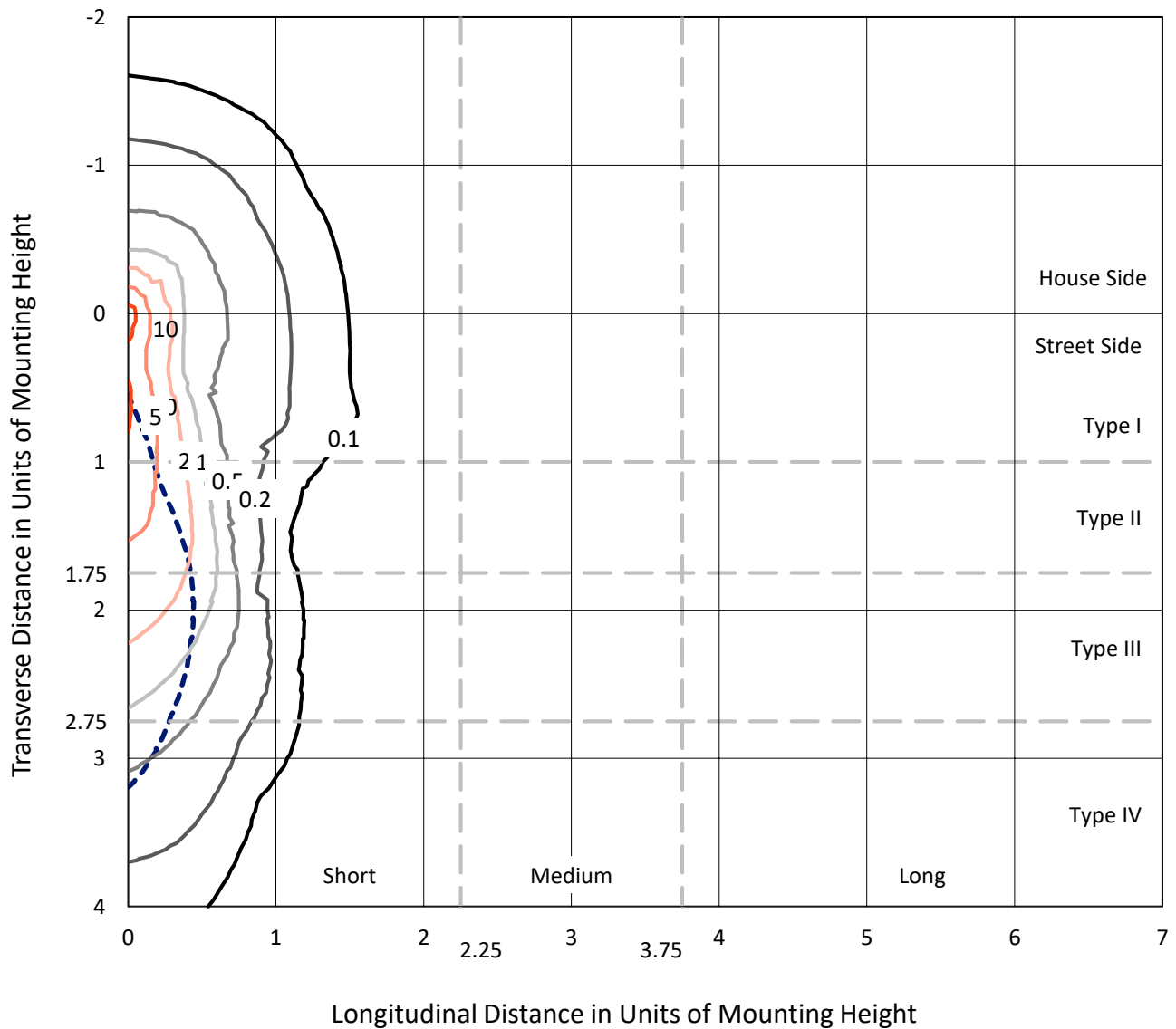


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Iso-Footcandle Lines of Horizontal Illumination

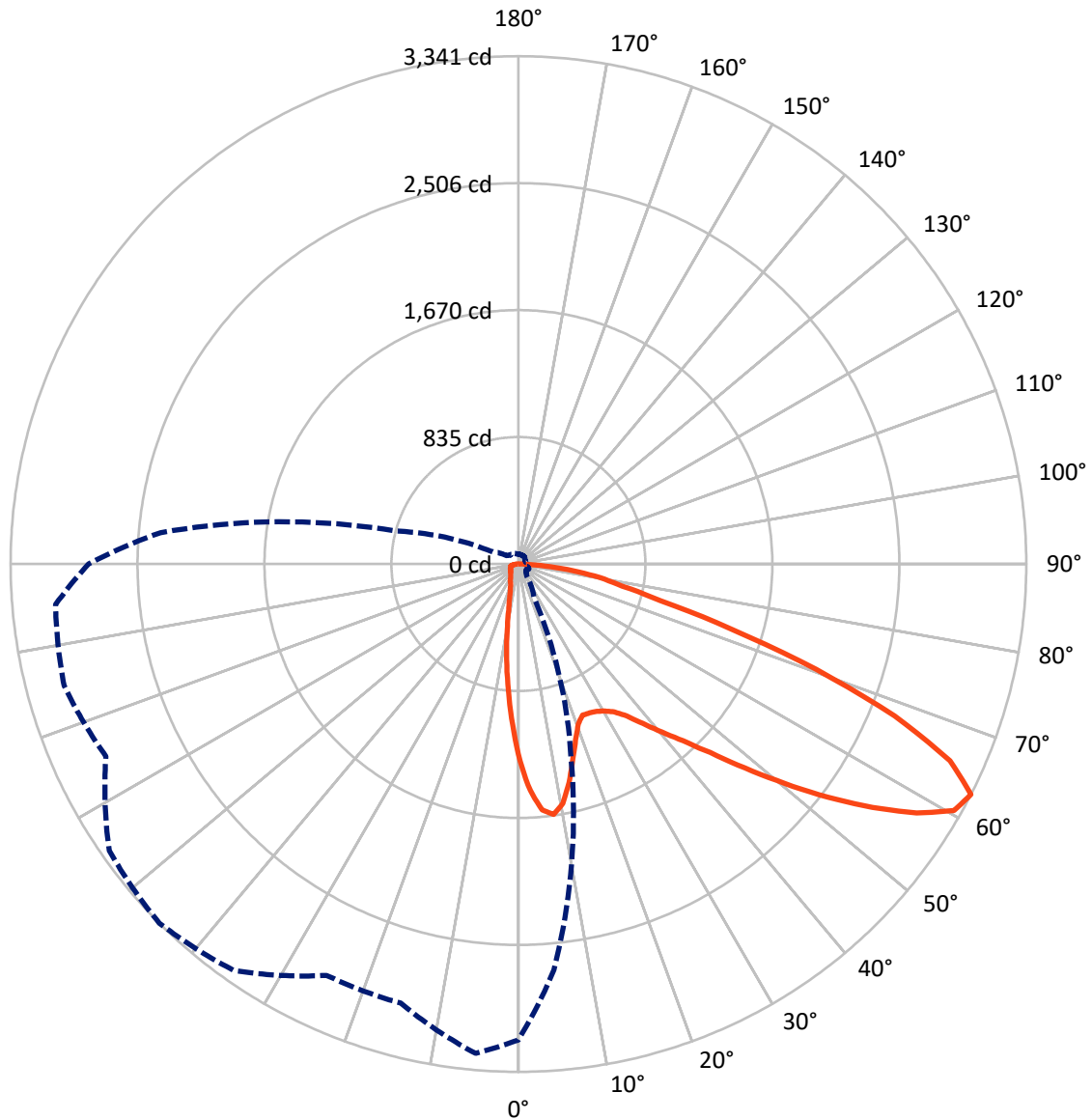
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.4	0.0	636.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3209.1	0.0	3209.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	3845.4	0.0	3845.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	2.5
10°-20°	173.4	4.5
20°-30°	252.9	6.6
30°-40°	389.4	10.1
40°-50°	573.1	14.9
50°-60°	840.7	21.9
60°-70°	939.8	24.4
70°-80°	460.1	12.0
80°-90°	121.5	3.2
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°	3845.4	100.0
0°-180°	3845.4	100.0



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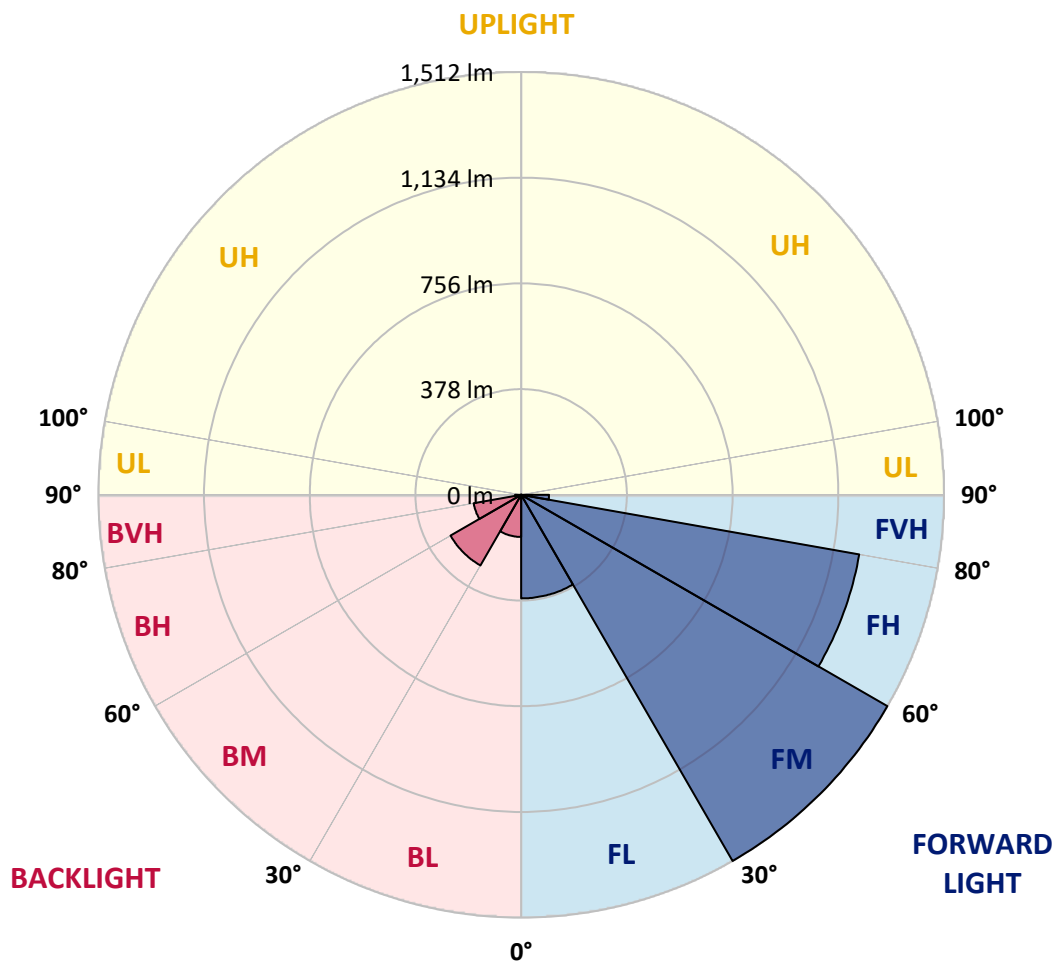
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.3	9.6			
FM (30°-60°)	1511.7	39.3			
FH (60°-80°)	1227.3	31.9			G1/1800
FVH (80°-90°)	99.8	2.6			G1/100
BL (0°-30°)	150.6	3.9	B1/500		
BM (30°-60°)	291.6	7.6	B1/1000		
BH (60°-80°)	172.5	4.5	B1/500		G1/500
BVH (80°-90°)	21.7	0.6			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°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2
2.5°	1350.0	1322.5	1276.9	1229.2	1200.2	1166.4	1139.9	1116.8	1070.3	1061.2	1069.4
5°	1269.3	1214.1	1128.2	1041.6	983.9	921.9	873.7	835.0	776.0	765.6	778.1
7.5°	1140.2	1074.3	960.6	849.9	768.4	691.1	639.1	597.6	551.5	531.6	533.0
10°	1028.7	954.4	820.1	699.7	632.9	580.7	536.9	494.4	447.7	417.1	408.5
12.5°	966.4	880.9	725.9	618.6	556.6	501.7	454.5	409.1	359.1	327.9	319.0
15°	955.6	862.7	690.5	566.6	488.9	419.4	363.9	313.1	261.6	236.3	231.0
17.5°	1002.4	895.3	679.2	520.2	425.3	339.5	271.2	214.5	172.7	160.0	159.0
20°	1092.0	957.9	677.7	476.7	362.6	261.9	189.0	147.7	129.4	125.8	126.0
22.5°	1217.8	1054.8	695.8	443.9	304.9	195.3	142.0	123.6	116.5	113.0	113.0
25°	1380.5	1188.5	737.8	420.0	254.7	155.9	125.4	114.4	107.5	105.3	105.7
27.5°	1538.3	1318.4	786.3	401.3	221.9	141.7	118.8	108.9	102.9	100.6	101.7
30°	1661.3	1433.9	827.0	375.6	205.3	137.6	121.1	111.0	102.5	99.0	99.2
32.5°	1763.3	1534.9	860.9	357.3	190.5	117.9	104.5	100.0	99.0	94.7	92.5
35°	1893.4	1645.1	883.8	357.6	183.4	105.3	93.1	85.2	79.5	74.6	74.6
37.5°	2046.0	1771.5	908.1	362.6	181.0	97.8	89.0	81.1	75.8	71.2	70.3
40°	2197.0	1895.3	930.4	367.1	179.5	93.5	85.8	78.6	73.8	69.1	67.8
42.5°	2325.4	1997.2	950.1	369.6	174.5	93.1	83.5	77.0	72.4	67.3	65.9
45°	2420.3	2082.6	971.5	373.1	169.3	94.7	83.5	76.7	71.1	66.1	64.9
47.5°	2505.0	2182.8	1007.3	373.1	163.2	91.5	86.2	77.0	70.8	65.8	64.7
50°	2618.5	2320.2	1074.9	364.4	154.5	88.2	90.9	76.0	68.9	64.9	63.6
52.5°	2775.0	2496.3	1182.3	349.4	141.3	81.6	90.3	75.6	67.1	62.8	61.4
55°	2959.8	2684.9	1299.4	331.8	121.4	77.0	87.0	74.6	64.9	60.2	58.7
57.5°	3104.3	2814.7	1381.9	304.9	104.1	74.4	77.2	73.7	62.3	57.5	56.2
60°	3161.8	2809.5	1404.5	268.7	95.6	72.4	67.5	82.5	60.2	55.3	53.9
62.5°	3130.7	2679.7	1341.1	243.4	93.7	69.6	63.2	76.4	58.6	53.9	51.8
65°	2987.1	2449.8	1172.9	236.6	99.2	66.8	60.5	59.8	56.2	51.8	49.6
67.5°	2674.6	2106.0	939.2	237.2	106.1	64.0	57.8	54.7	53.1	49.4	47.6
70°	2178.4	1665.1	700.0	238.9	109.8	60.8	54.7	51.7	49.6	46.2	44.8
72.5°	1601.7	1283.4	508.6	227.9	110.3	57.3	50.8	48.0	46.2	42.3	41.2
75°	1095.8	981.7	352.9	188.7	96.2	52.2	46.4	43.7	42.5	37.9	37.2
77.5°	800.5	736.9	225.7	140.1	74.2	45.9	40.9	38.8	38.1	33.0	32.1
80°	642.4	583.0	141.3	95.9	54.3	38.4	34.2	33.1	32.3	27.3	26.6
82.5°	445.6	390.5	90.6	62.3	40.9	29.9	27.0	26.6	25.3	20.8	20.1
85°	235.0	212.0	57.5	42.5	29.6	20.5	18.9	18.9	18.1	13.7	13.4
87.5°	30.1	48.9	29.1	22.2	16.3	9.2	9.2	8.9	9.5	7.8	6.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2
2.5°	1049.9	1060.1	1050.4	1051.0	1061.7	1094.0	1108.5	1120.5	1133.5	1141.9	1145.7
5°	761.0	784.7	792.8	809.6	834.5	875.6	891.8	903.7	911.5	916.1	918.1
7.5°	520.5	534.9	550.9	578.1	632.4	656.7	667.4	664.6	655.8	652.6	649.4
10°	392.3	386.6	383.7	398.7	442.7	466.9	474.6	467.2	462.3	463.3	468.6
12.5°	303.9	294.0	282.0	280.4	309.2	331.0	335.8	336.3	345.2	353.0	364.6
15°	221.5	220.4	214.5	210.9	227.5	245.1	247.4	251.2	259.3	264.9	275.1
17.5°	156.2	162.0	166.5	168.9	181.4	194.0	191.7	189.8	188.4	188.4	193.2
20°	126.0	129.7	135.7	142.6	155.1	164.0	158.3	150.7	145.3	143.5	144.2
22.5°	113.5	116.5	119.8	125.8	137.3	143.3	137.3	131.7	126.2	124.2	123.6
25°	107.2	111.0	114.2	118.5	127.0	131.2	125.4	121.4	117.9	115.6	113.9
27.5°	103.6	107.0	107.7	110.0	117.0	120.9	117.9	116.3	114.2	112.1	110.0
30°	99.8	99.2	97.6	97.8	103.6	107.3	107.2	107.5	107.3	106.8	106.3
32.5°	91.1	89.8	88.6	89.8	95.1	98.5	98.8	99.5	99.5	99.4	101.1
35°	75.8	78.2	79.7	83.5	89.8	92.9	91.5	89.4	85.6	83.4	83.1
37.5°	70.2	70.5	73.1	78.4	85.3	88.2	86.2	81.3	78.8	78.4	79.1
40°	67.5	67.8	69.3	74.2	81.1	83.9	82.3	78.6	76.4	76.0	77.2
42.5°	65.5	65.9	66.8	70.2	75.8	79.3	79.5	77.0	74.2	74.4	75.5
45°	64.5	64.7	64.5	66.1	71.4	75.5	77.2	75.5	73.1	73.7	74.7
47.5°	64.3	63.6	62.8	63.2	68.7	72.8	74.7	74.2	73.1	73.7	74.6
50°	63.4	62.0	60.8	60.6	66.1	70.3	72.4	72.4	72.8	73.7	74.6
52.5°	60.8	59.2	59.2	58.6	64.5	68.5	69.8	70.0	70.5	72.0	73.7
55°	57.8	57.1	57.8	56.7	63.2	67.1	67.6	68.1	68.5	69.8	71.9
57.5°	54.9	54.1	55.5	55.2	62.2	65.5	65.5	66.4	66.4	68.1	69.8
60°	53.4	51.8	52.5	52.8	60.6	64.3	63.8	64.7	65.0	66.6	67.8
62.5°	51.7	50.0	50.0	51.2	59.0	62.3	62.2	62.8	64.5	64.9	66.1
65°	49.2	48.6	48.0	49.2	57.3	60.2	60.5	61.4	62.8	63.2	64.3
67.5°	46.9	47.2	45.9	47.2	55.9	58.1	58.1	59.8	60.5	61.4	62.3
70°	44.3	44.6	43.6	45.0	54.7	55.9	55.5	57.9	58.3	59.0	60.0
72.5°	41.2	41.2	40.9	42.8	53.1	53.4	53.1	54.9	55.2	55.9	56.2
75°	37.9	37.9	37.4	40.3	52.0	50.9	49.6	51.2	51.7	52.0	52.0
77.5°	33.3	33.9	33.9	37.4	48.4	49.9	45.6	46.5	47.2	47.3	46.7
80°	27.8	28.9	29.4	34.0	40.7	46.2	40.9	41.4	41.6	41.6	40.9
82.5°	21.4	23.3	24.3	29.4	31.1	38.6	35.6	36.1	35.6	34.2	33.9
85°	14.8	17.3	18.7	22.4	23.4	29.9	29.6	29.6	28.3	26.6	26.4
87.5°	8.1	9.5	10.4	13.4	16.1	20.1	21.7	21.1	20.1	19.0	19.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2
2.5°	1165.6	1194.3	1240.2	1275.4	1310.5	1344.7	1381.5	1409.5	1433.4	1442.8	1471.1
5°	937.3	973.3	1016.6	1094.8	1150.2	1211.3	1281.9	1375.2	1411.2	1461.0	1542.3
7.5°	662.7	695.3	765.0	828.1	906.7	993.0	1088.4	1217.5	1264.5	1344.3	1476.8
10°	494.8	532.8	588.7	642.0	711.1	799.5	908.9	1053.2	1110.5	1196.9	1349.6
12.5°	398.7	443.3	502.7	552.7	606.3	668.6	775.0	933.1	1009.9	1085.5	1239.8
15°	306.3	353.0	408.2	471.8	530.8	598.0	709.4	882.3	970.7	1049.6	1181.2
17.5°	212.0	252.0	321.6	387.9	463.3	549.5	691.2	893.2	998.6	1089.6	1191.4
20°	150.2	173.2	230.1	307.1	401.3	509.2	687.8	949.8	1086.9	1190.8	1256.5
22.5°	126.4	134.8	168.1	238.7	347.4	479.2	699.7	1029.3	1206.2	1338.7	1360.4
25°	115.3	120.3	137.6	187.2	299.3	457.4	739.7	1147.7	1353.7	1486.8	1482.9
27.5°	109.1	114.4	125.8	158.1	263.2	443.9	779.5	1288.0	1522.4	1647.3	1600.1
30°	107.2	114.4	126.4	148.9	237.4	422.6	812.3	1411.2	1652.3	1755.7	1653.3
32.5°	105.7	106.8	112.3	128.5	212.9	397.6	834.5	1521.8	1779.3	1859.0	1730.0
35°	85.3	90.6	99.5	115.3	198.4	382.6	834.5	1617.0	1904.3	1963.2	1803.2
37.5°	82.3	86.9	94.7	108.1	190.5	375.2	817.8	1709.0	2032.2	2081.4	1863.4
40°	80.6	84.4	91.7	102.5	187.0	366.8	793.6	1790.2	2157.2	2199.7	1919.6
42.5°	79.3	82.6	89.7	99.2	182.6	357.4	773.9	1855.4	2265.6	2300.7	1973.3
45°	78.6	82.3	89.8	100.8	173.7	345.2	767.3	1925.7	2354.8	2385.1	2031.4
47.5°	78.6	82.9	90.9	104.5	163.2	332.6	787.9	2018.5	2439.2	2454.0	2100.0
50°	78.1	82.6	93.9	100.8	147.7	316.5	836.1	2135.5	2530.5	2532.2	2186.7
52.5°	76.7	82.3	101.1	98.8	130.1	295.4	901.2	2285.6	2665.6	2675.8	2322.3
55°	75.3	81.6	99.2	93.9	115.4	270.2	954.4	2468.0	2855.4	2883.6	2521.9
57.5°	73.3	80.8	95.9	87.0	105.9	237.8	973.7	2601.6	2988.0	3058.5	2746.7
60°	71.7	80.0	86.6	83.1	100.0	210.6	936.5	2575.1	2978.9	3131.1	2946.1
62.5°	70.0	80.8	79.1	80.6	97.2	193.0	839.1	2363.5	2828.1	3056.3	3093.9
65°	68.1	75.1	74.6	78.4	96.6	185.9	695.6	2046.2	2536.9	2819.7	3128.7
67.5°	65.5	69.3	71.4	75.6	98.8	179.9	561.4	1687.9	2132.0	2465.2	2947.0
70°	62.8	65.9	68.4	72.4	97.5	177.1	466.9	1331.1	1691.8	2020.5	2588.2
72.5°	59.2	62.0	64.0	67.8	96.2	175.7	394.4	1071.9	1263.0	1500.9	2104.4
75°	54.9	57.5	59.0	62.8	92.2	160.8	310.2	907.1	945.1	1044.1	1676.1
77.5°	50.0	52.0	53.3	57.5	81.6	133.8	224.2	699.7	733.9	758.0	1285.0
80°	44.3	46.4	46.9	50.9	67.6	104.7	146.2	516.9	549.0	554.4	839.1
82.5°	37.9	39.7	39.7	43.6	55.3	75.3	95.9	354.1	360.4	379.1	593.2
85°	30.5	31.9	31.9	33.9	42.8	56.2	65.9	177.8	175.9	200.9	513.9
87.5°	21.7	22.8	23.9	24.3	30.6	37.2	39.7	54.1	35.8	41.1	329.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2	1299.2
2.5°	1492.4	1504.4	1492.3	1483.3	1445.1	1413.6	1371.5	1350.0
5°	1604.3	1634.8	1624.6	1587.3	1507.4	1417.5	1315.5	1269.3
7.5°	1590.7	1662.0	1663.7	1594.1	1476.4	1344.0	1205.7	1140.2
10°	1485.4	1576.5	1602.5	1535.2	1410.2	1262.2	1103.7	1028.7
12.5°	1367.8	1457.1	1477.0	1453.7	1349.3	1200.7	1039.8	966.4
15°	1271.7	1311.6	1335.3	1355.6	1297.2	1176.2	1036.3	955.6
17.5°	1213.3	1208.7	1215.4	1250.8	1260.7	1204.3	1091.3	1002.4
20°	1192.1	1124.1	1122.5	1171.1	1243.7	1271.3	1198.6	1092.0
22.5°	1203.6	1093.7	1079.8	1137.4	1252.6	1367.8	1339.4	1217.8
25°	1243.9	1096.2	1085.1	1140.8	1285.7	1470.9	1491.4	1380.5
27.5°	1307.0	1112.3	1097.5	1154.9	1329.4	1557.3	1641.1	1538.3
30°	1367.0	1140.2	1121.9	1182.3	1369.3	1591.5	1732.8	1661.3
32.5°	1440.1	1192.4	1160.2	1232.8	1418.9	1646.1	1814.5	1763.3
35°	1511.5	1266.9	1226.6	1310.8	1473.9	1714.0	1908.0	1893.4
37.5°	1589.9	1364.0	1330.8	1411.6	1549.4	1777.9	2027.3	2046.0
40°	1673.5	1493.1	1453.7	1558.7	1666.5	1858.4	2151.7	2197.0
42.5°	1758.0	1636.2	1589.2	1695.8	1795.4	1937.6	2258.2	2325.4
45°	1854.6	1791.5	1769.3	1884.6	1919.0	2013.0	2336.9	2420.3
47.5°	1967.0	1967.8	2003.6	2049.7	2043.7	2098.5	2416.0	2505.0
50°	2098.3	2187.9	2266.8	2297.3	2172.2	2190.2	2525.7	2618.5
52.5°	2256.0	2451.0	2548.8	2528.5	2310.7	2302.3	2699.4	2775.0
55°	2453.2	2729.7	2826.6	2812.4	2469.9	2454.9	2915.9	2959.8
57.5°	2681.5	2999.6	3088.8	3024.1	2661.0	2622.3	3094.9	3104.3
60°	2882.1	3213.5	3291.7	3220.1	2853.7	2800.5	3206.8	3161.8
62.5°	2993.7	3286.0	3340.9	3263.8	2985.8	2990.3	3231.4	3130.7
65°	2943.8	3102.7	3120.5	3114.2	2951.8	3100.4	3143.2	2987.1
67.5°	2670.8	2639.4	2669.3	2710.5	2660.2	2955.5	2899.0	2674.6
70°	2189.6	2017.8	2077.2	2104.8	2127.6	2543.2	2516.2	2178.4
72.5°	1650.0	1413.6	1460.5	1454.7	1560.4	2040.0	1956.9	1601.7
75°	1169.2	958.4	964.4	962.1	1088.8	1596.0	1416.9	1095.8
77.5°	818.0	694.4	697.5	710.6	732.1	1203.6	1012.3	800.5
80°	562.5	526.9	544.6	545.6	507.4	808.6	747.8	642.4
82.5°	419.0	366.2	362.0	368.2	397.6	655.1	574.7	445.6
85°	343.2	216.9	174.5	218.6	352.3	648.8	381.8	235.0
87.5°	193.2	102.9	46.5	86.2	140.6	429.5	110.3	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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