

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: P269011

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269011
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-SLL-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT 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

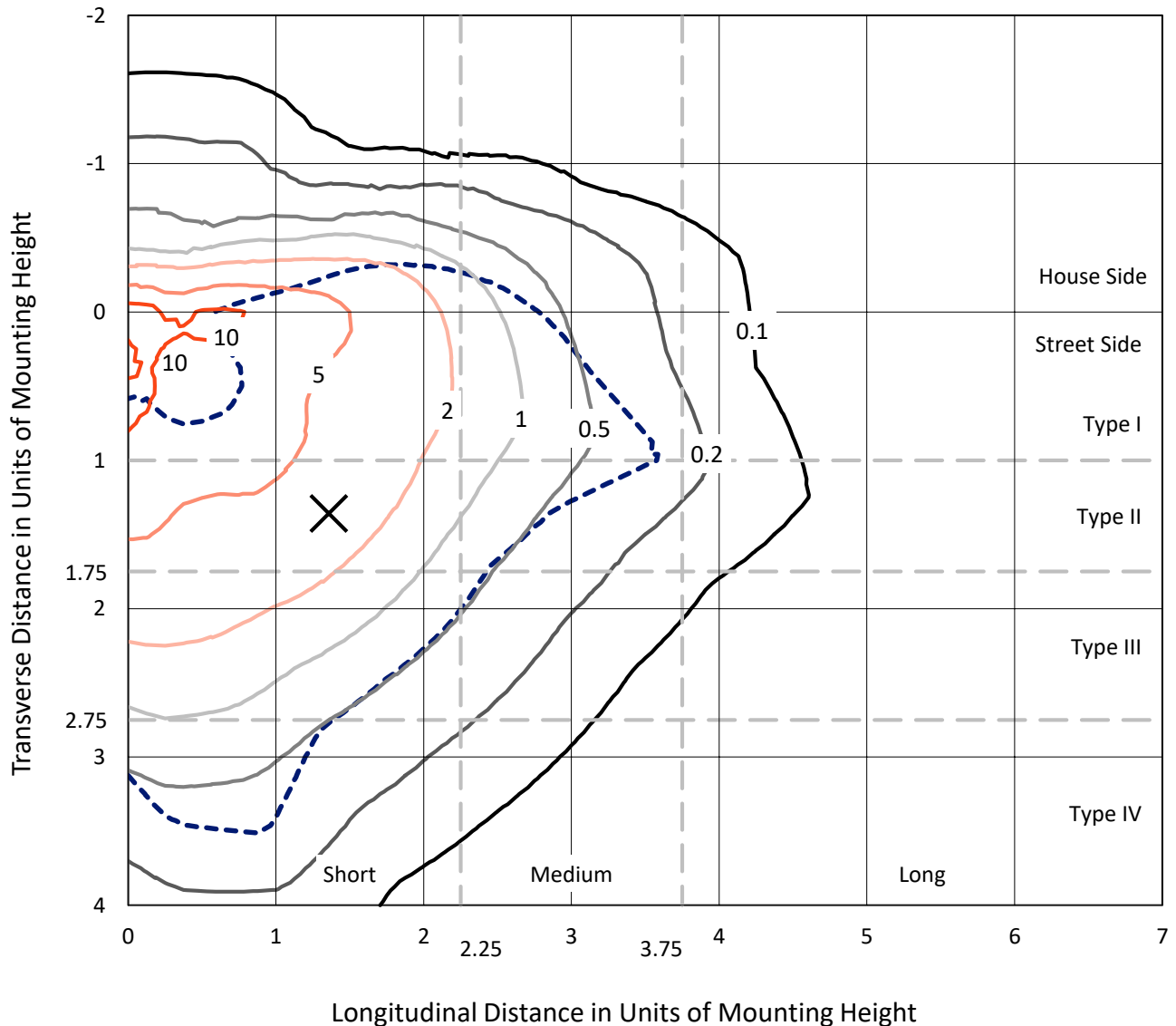
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

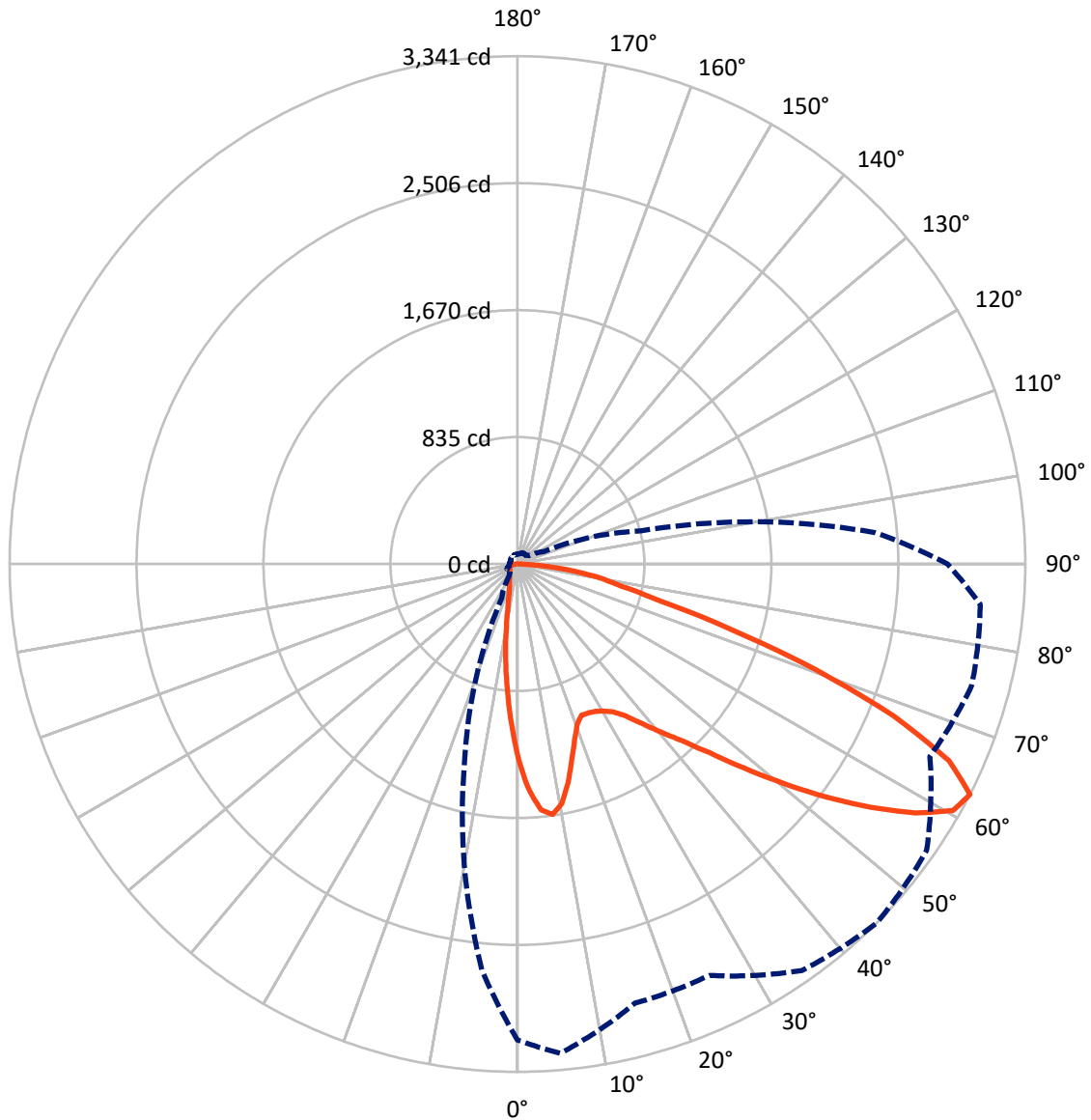
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-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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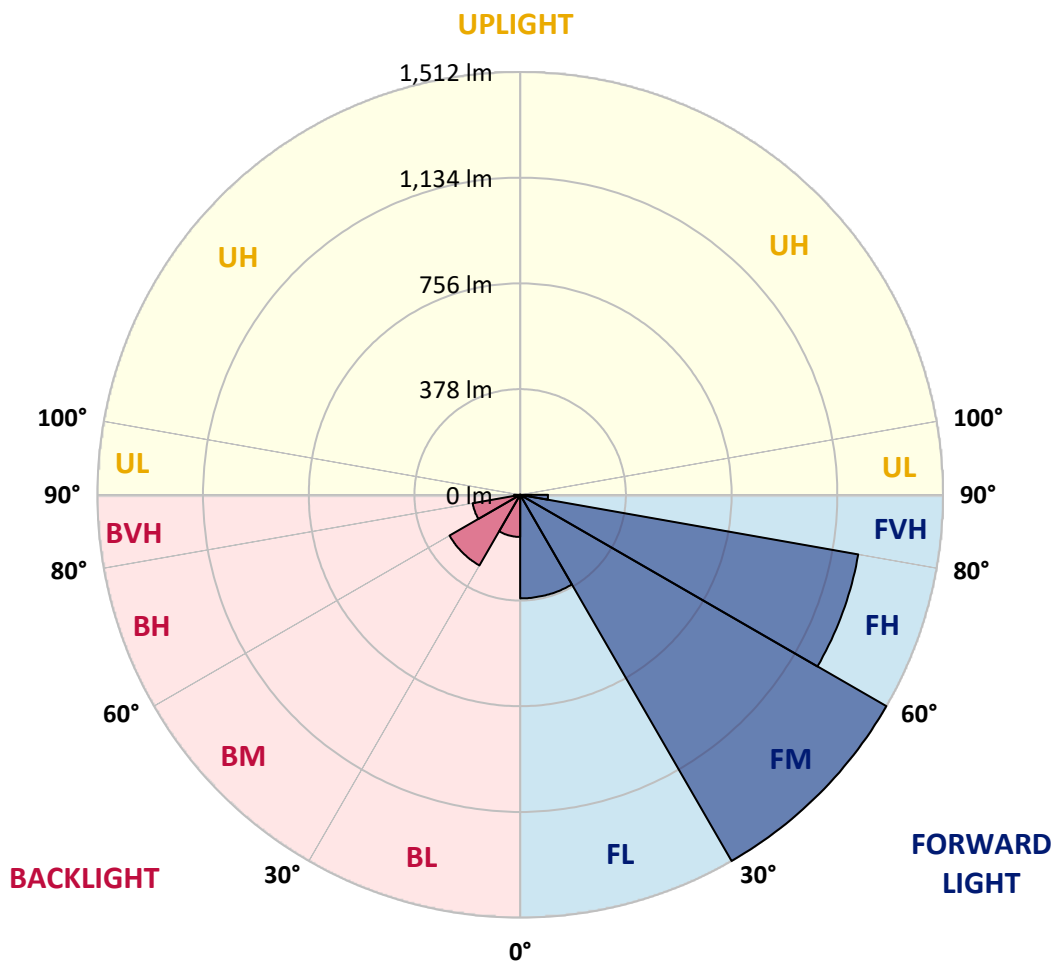
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	1371.5	1413.6	1445.1	1483.3	1492.3	1504.4	1492.4	1471.1	1442.8	1433.4
5°	1269.3	1315.5	1417.5	1507.4	1587.3	1624.6	1634.8	1604.3	1542.3	1461.0	1411.2
7.5°	1140.2	1205.7	1344.0	1476.4	1594.1	1663.7	1662.0	1590.7	1476.8	1344.3	1264.5
10°	1028.7	1103.7	1262.2	1410.2	1535.2	1602.5	1576.5	1485.4	1349.6	1196.9	1110.5
12.5°	966.4	1039.8	1200.7	1349.3	1453.7	1477.0	1457.1	1367.8	1239.8	1085.5	1009.9
15°	955.6	1036.3	1176.2	1297.2	1355.6	1335.3	1311.6	1271.7	1181.2	1049.6	970.7
17.5°	1002.4	1091.3	1204.3	1260.7	1250.8	1215.4	1208.7	1213.3	1191.4	1089.6	998.6
20°	1092.0	1198.6	1271.3	1243.7	1171.1	1122.5	1124.1	1192.1	1256.5	1190.8	1086.9
22.5°	1217.8	1339.4	1367.8	1252.6	1137.4	1079.8	1093.7	1203.6	1360.4	1338.7	1206.2
25°	1380.5	1491.4	1470.9	1285.7	1140.8	1085.1	1096.2	1243.9	1482.9	1486.8	1353.7
27.5°	1538.3	1641.1	1557.3	1329.4	1154.9	1097.5	1112.3	1307.0	1600.1	1647.3	1522.4
30°	1661.3	1732.8	1591.5	1369.3	1182.3	1121.9	1140.2	1367.0	1653.3	1755.7	1652.3
32.5°	1763.3	1814.5	1646.1	1418.9	1232.8	1160.2	1192.4	1440.1	1730.0	1859.0	1779.3
35°	1893.4	1908.0	1714.0	1473.9	1310.8	1226.6	1266.9	1511.5	1803.2	1963.2	1904.3
37.5°	2046.0	2027.3	1777.9	1549.4	1411.6	1330.8	1364.0	1589.9	1863.4	2081.4	2032.2
40°	2197.0	2151.7	1858.4	1666.5	1558.7	1453.7	1493.1	1673.5	1919.6	2199.7	2157.2
42.5°	2325.4	2258.2	1937.6	1795.4	1695.8	1589.2	1636.2	1758.0	1973.3	2300.7	2265.6
45°	2420.3	2336.9	2013.0	1919.0	1884.6	1769.3	1791.5	1854.6	2031.4	2385.1	2354.8
47.5°	2505.0	2416.0	2098.5	2043.7	2049.7	2003.6	1967.8	1967.0	2100.0	2454.0	2439.2
50°	2618.5	2525.7	2190.2	2172.2	2297.3	2266.8	2187.9	2098.3	2186.7	2532.2	2530.5
52.5°	2775.0	2699.4	2302.3	2310.7	2528.5	2548.8	2451.0	2256.0	2322.3	2675.8	2665.6
55°	2959.8	2915.9	2454.9	2469.9	2812.4	2826.6	2729.7	2453.2	2521.9	2883.6	2855.4
57.5°	3104.3	3094.9	2622.3	2661.0	3024.1	3088.8	2999.6	2681.5	2746.7	3058.5	2988.0
60°	3161.8	3206.8	2800.5	2853.7	3220.1	3291.7	3213.5	2882.1	2946.1	3131.1	2978.9
62.5°	3130.7	3231.4	2990.3	2985.8	3263.8	3340.9	3286.0	2993.7	3093.9	3056.3	2828.1
65°	2987.1	3143.2	3100.4	2951.8	3114.2	3120.5	3102.7	2943.8	3128.7	2819.7	2536.9
67.5°	2674.6	2899.0	2955.5	2660.2	2710.5	2669.3	2639.4	2670.8	2947.0	2465.2	2132.0
70°	2178.4	2516.2	2543.2	2127.6	2104.8	2077.2	2017.8	2189.6	2588.2	2020.5	1691.8
72.5°	1601.7	1956.9	2040.0	1560.4	1454.7	1460.5	1413.6	1650.0	2104.4	1500.9	1263.0
75°	1095.8	1416.9	1596.0	1088.8	962.1	964.4	958.4	1169.2	1676.1	1044.1	945.1
77.5°	800.5	1012.3	1203.6	732.1	710.6	697.5	694.4	818.0	1285.0	758.0	733.9
80°	642.4	747.8	808.6	507.4	545.6	544.6	526.9	562.5	839.1	554.4	549.0
82.5°	445.6	574.7	655.1	397.6	368.2	362.0	366.2	419.0	593.2	379.1	360.4
85°	235.0	381.8	648.8	352.3	218.6	174.5	216.9	343.2	513.9	200.9	175.9
87.5°	30.1	110.3	429.5	140.6	86.2	46.5	102.9	193.2	329.9	41.1	35.8
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):

	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°	1409.5	1381.5	1344.7	1310.5	1275.4	1240.2	1194.3	1165.6	1145.7	1141.9	1133.5
5°	1375.2	1281.9	1211.3	1150.2	1094.8	1016.6	973.3	937.3	918.1	916.1	911.5
7.5°	1217.5	1088.4	993.0	906.7	828.1	765.0	695.3	662.7	649.4	652.6	655.8
10°	1053.2	908.9	799.5	711.1	642.0	588.7	532.8	494.8	468.6	463.3	462.3
12.5°	933.1	775.0	668.6	606.3	552.7	502.7	443.3	398.7	364.6	353.0	345.2
15°	882.3	709.4	598.0	530.8	471.8	408.2	353.0	306.3	275.1	264.9	259.3
17.5°	893.2	691.2	549.5	463.3	387.9	321.6	252.0	212.0	193.2	188.4	188.4
20°	949.8	687.8	509.2	401.3	307.1	230.1	173.2	150.2	144.2	143.5	145.3
22.5°	1029.3	699.7	479.2	347.4	238.7	168.1	134.8	126.4	123.6	124.2	126.2
25°	1147.7	739.7	457.4	299.3	187.2	137.6	120.3	115.3	113.9	115.6	117.9
27.5°	1288.0	779.5	443.9	263.2	158.1	125.8	114.4	109.1	110.0	112.1	114.2
30°	1411.2	812.3	422.6	237.4	148.9	126.4	114.4	107.2	106.3	106.8	107.3
32.5°	1521.8	834.5	397.6	212.9	128.5	112.3	106.8	105.7	101.1	99.4	99.5
35°	1617.0	834.5	382.6	198.4	115.3	99.5	90.6	85.3	83.1	83.4	85.6
37.5°	1709.0	817.8	375.2	190.5	108.1	94.7	86.9	82.3	79.1	78.4	78.8
40°	1790.2	793.6	366.8	187.0	102.5	91.7	84.4	80.6	77.2	76.0	76.4
42.5°	1855.4	773.9	357.4	182.6	99.2	89.7	82.6	79.3	75.5	74.4	74.2
45°	1925.7	767.3	345.2	173.7	100.8	89.8	82.3	78.6	74.7	73.7	73.1
47.5°	2018.5	787.9	332.6	163.2	104.5	90.9	82.9	78.6	74.6	73.7	73.1
50°	2135.5	836.1	316.5	147.7	100.8	93.9	82.6	78.1	74.6	73.7	72.8
52.5°	2285.6	901.2	295.4	130.1	98.8	101.1	82.3	76.7	73.7	72.0	70.5
55°	2468.0	954.4	270.2	115.4	93.9	99.2	81.6	75.3	71.9	69.8	68.5
57.5°	2601.6	973.7	237.8	105.9	87.0	95.9	80.8	73.3	69.8	68.1	66.4
60°	2575.1	936.5	210.6	100.0	83.1	86.6	80.0	71.7	67.8	66.6	65.0
62.5°	2363.5	839.1	193.0	97.2	80.6	79.1	80.8	70.0	66.1	64.9	64.5
65°	2046.2	695.6	185.9	96.6	78.4	74.6	75.1	68.1	64.3	63.2	62.8
67.5°	1687.9	561.4	179.9	98.8	75.6	71.4	69.3	65.5	62.3	61.4	60.5
70°	1331.1	466.9	177.1	97.5	72.4	68.4	65.9	62.8	60.0	59.0	58.3
72.5°	1071.9	394.4	175.7	96.2	67.8	64.0	62.0	59.2	56.2	55.9	55.2
75°	907.1	310.2	160.8	92.2	62.8	59.0	57.5	54.9	52.0	52.0	51.7
77.5°	699.7	224.2	133.8	81.6	57.5	53.3	52.0	50.0	46.7	47.3	47.2
80°	516.9	146.2	104.7	67.6	50.9	46.9	46.4	44.3	40.9	41.6	41.6
82.5°	354.1	95.9	75.3	55.3	43.6	39.7	39.7	37.9	33.9	34.2	35.6
85°	177.8	65.9	56.2	42.8	33.9	31.9	31.9	30.5	26.4	26.6	28.3
87.5°	54.1	39.7	37.2	30.6	24.3	23.9	22.8	21.7	19.3	19.0	20.1
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):

	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°	1120.5	1108.5	1094.0	1061.7	1051.0	1050.4	1060.1	1049.9	1069.4	1061.2	1070.3
5°	903.7	891.8	875.6	834.5	809.6	792.8	784.7	761.0	778.1	765.6	776.0
7.5°	664.6	667.4	656.7	632.4	578.1	550.9	534.9	520.5	533.0	531.6	551.5
10°	467.2	474.6	466.9	442.7	398.7	383.7	386.6	392.3	408.5	417.1	447.7
12.5°	336.3	335.8	331.0	309.2	280.4	282.0	294.0	303.9	319.0	327.9	359.1
15°	251.2	247.4	245.1	227.5	210.9	214.5	220.4	221.5	231.0	236.3	261.6
17.5°	189.8	191.7	194.0	181.4	168.9	166.5	162.0	156.2	159.0	160.0	172.7
20°	150.7	158.3	164.0	155.1	142.6	135.7	129.7	126.0	126.0	125.8	129.4
22.5°	131.7	137.3	143.3	137.3	125.8	119.8	116.5	113.5	113.0	113.0	116.5
25°	121.4	125.4	131.2	127.0	118.5	114.2	111.0	107.2	105.7	105.3	107.5
27.5°	116.3	117.9	120.9	117.0	110.0	107.7	107.0	103.6	101.7	100.6	102.9
30°	107.5	107.2	107.3	103.6	97.8	97.6	99.2	99.8	99.2	99.0	102.5
32.5°	99.5	98.8	98.5	95.1	89.8	88.6	89.8	91.1	92.5	94.7	99.0
35°	89.4	91.5	92.9	89.8	83.5	79.7	78.2	75.8	74.6	74.6	79.5
37.5°	81.3	86.2	88.2	85.3	78.4	73.1	70.5	70.2	70.3	71.2	75.8
40°	78.6	82.3	83.9	81.1	74.2	69.3	67.8	67.5	67.8	69.1	73.8
42.5°	77.0	79.5	79.3	75.8	70.2	66.8	65.9	65.5	65.9	67.3	72.4
45°	75.5	77.2	75.5	71.4	66.1	64.5	64.7	64.5	64.9	66.1	71.1
47.5°	74.2	74.7	72.8	68.7	63.2	62.8	63.6	64.3	64.7	65.8	70.8
50°	72.4	72.4	70.3	66.1	60.6	60.8	62.0	63.4	63.6	64.9	68.9
52.5°	70.0	69.8	68.5	64.5	58.6	59.2	59.2	60.8	61.4	62.8	67.1
55°	68.1	67.6	67.1	63.2	56.7	57.8	57.1	57.8	58.7	60.2	64.9
57.5°	66.4	65.5	65.5	62.2	55.2	55.5	54.1	54.9	56.2	57.5	62.3
60°	64.7	63.8	64.3	60.6	52.8	52.5	51.8	53.4	53.9	55.3	60.2
62.5°	62.8	62.2	62.3	59.0	51.2	50.0	50.0	51.7	51.8	53.9	58.6
65°	61.4	60.5	60.2	57.3	49.2	48.0	48.6	49.2	49.6	51.8	56.2
67.5°	59.8	58.1	58.1	55.9	47.2	45.9	47.2	46.9	47.6	49.4	53.1
70°	57.9	55.5	55.9	54.7	45.0	43.6	44.6	44.3	44.8	46.2	49.6
72.5°	54.9	53.1	53.4	53.1	42.8	40.9	41.2	41.2	41.2	42.3	46.2
75°	51.2	49.6	50.9	52.0	40.3	37.4	37.9	37.9	37.2	37.9	42.5
77.5°	46.5	45.6	49.9	48.4	37.4	33.9	33.9	33.3	32.1	33.0	38.1
80°	41.4	40.9	46.2	40.7	34.0	29.4	28.9	27.8	26.6	27.3	32.3
82.5°	36.1	35.6	38.6	31.1	29.4	24.3	23.3	21.4	20.1	20.8	25.3
85°	29.6	29.6	29.9	23.4	22.4	18.7	17.3	14.8	13.4	13.7	18.1
87.5°	21.1	21.7	20.1	16.1	13.4	10.4	9.5	8.1	6.7	7.8	9.5
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):

	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°	1116.8	1139.9	1166.4	1200.2	1229.2	1276.9	1322.5	1350.0
5°	835.0	873.7	921.9	983.9	1041.6	1128.2	1214.1	1269.3
7.5°	597.6	639.1	691.1	768.4	849.9	960.6	1074.3	1140.2
10°	494.4	536.9	580.7	632.9	699.7	820.1	954.4	1028.7
12.5°	409.1	454.5	501.7	556.6	618.6	725.9	880.9	966.4
15°	313.1	363.9	419.4	488.9	566.6	690.5	862.7	955.6
17.5°	214.5	271.2	339.5	425.3	520.2	679.2	895.3	1002.4
20°	147.7	189.0	261.9	362.6	476.7	677.7	957.9	1092.0
22.5°	123.6	142.0	195.3	304.9	443.9	695.8	1054.8	1217.8
25°	114.4	125.4	155.9	254.7	420.0	737.8	1188.5	1380.5
27.5°	108.9	118.8	141.7	221.9	401.3	786.3	1318.4	1538.3
30°	111.0	121.1	137.6	205.3	375.6	827.0	1433.9	1661.3
32.5°	100.0	104.5	117.9	190.5	357.3	860.9	1534.9	1763.3
35°	85.2	93.1	105.3	183.4	357.6	883.8	1645.1	1893.4
37.5°	81.1	89.0	97.8	181.0	362.6	908.1	1771.5	2046.0
40°	78.6	85.8	93.5	179.5	367.1	930.4	1895.3	2197.0
42.5°	77.0	83.5	93.1	174.5	369.6	950.1	1997.2	2325.4
45°	76.7	83.5	94.7	169.3	373.1	971.5	2082.6	2420.3
47.5°	77.0	86.2	91.5	163.2	373.1	1007.3	2182.8	2505.0
50°	76.0	90.9	88.2	154.5	364.4	1074.9	2320.2	2618.5
52.5°	75.6	90.3	81.6	141.3	349.4	1182.3	2496.3	2775.0
55°	74.6	87.0	77.0	121.4	331.8	1299.4	2684.9	2959.8
57.5°	73.7	77.2	74.4	104.1	304.9	1381.9	2814.7	3104.3
60°	82.5	67.5	72.4	95.6	268.7	1404.5	2809.5	3161.8
62.5°	76.4	63.2	69.6	93.7	243.4	1341.1	2679.7	3130.7
65°	59.8	60.5	66.8	99.2	236.6	1172.9	2449.8	2987.1
67.5°	54.7	57.8	64.0	106.1	237.2	939.2	2106.0	2674.6
70°	51.7	54.7	60.8	109.8	238.9	700.0	1665.1	2178.4
72.5°	48.0	50.8	57.3	110.3	227.9	508.6	1283.4	1601.7
75°	43.7	46.4	52.2	96.2	188.7	352.9	981.7	1095.8
77.5°	38.8	40.9	45.9	74.2	140.1	225.7	736.9	800.5
80°	33.1	34.2	38.4	54.3	95.9	141.3	583.0	642.4
82.5°	26.6	27.0	29.9	40.9	62.3	90.6	390.5	445.6
85°	18.9	18.9	20.5	29.6	42.5	57.5	212.0	235.0
87.5°	8.9	9.2	9.2	16.3	22.2	29.1	48.9	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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