

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: P191279

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191279
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-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 4527.6 lumens
Efficiency: N/A
Efficacy: 102.9 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 - G2

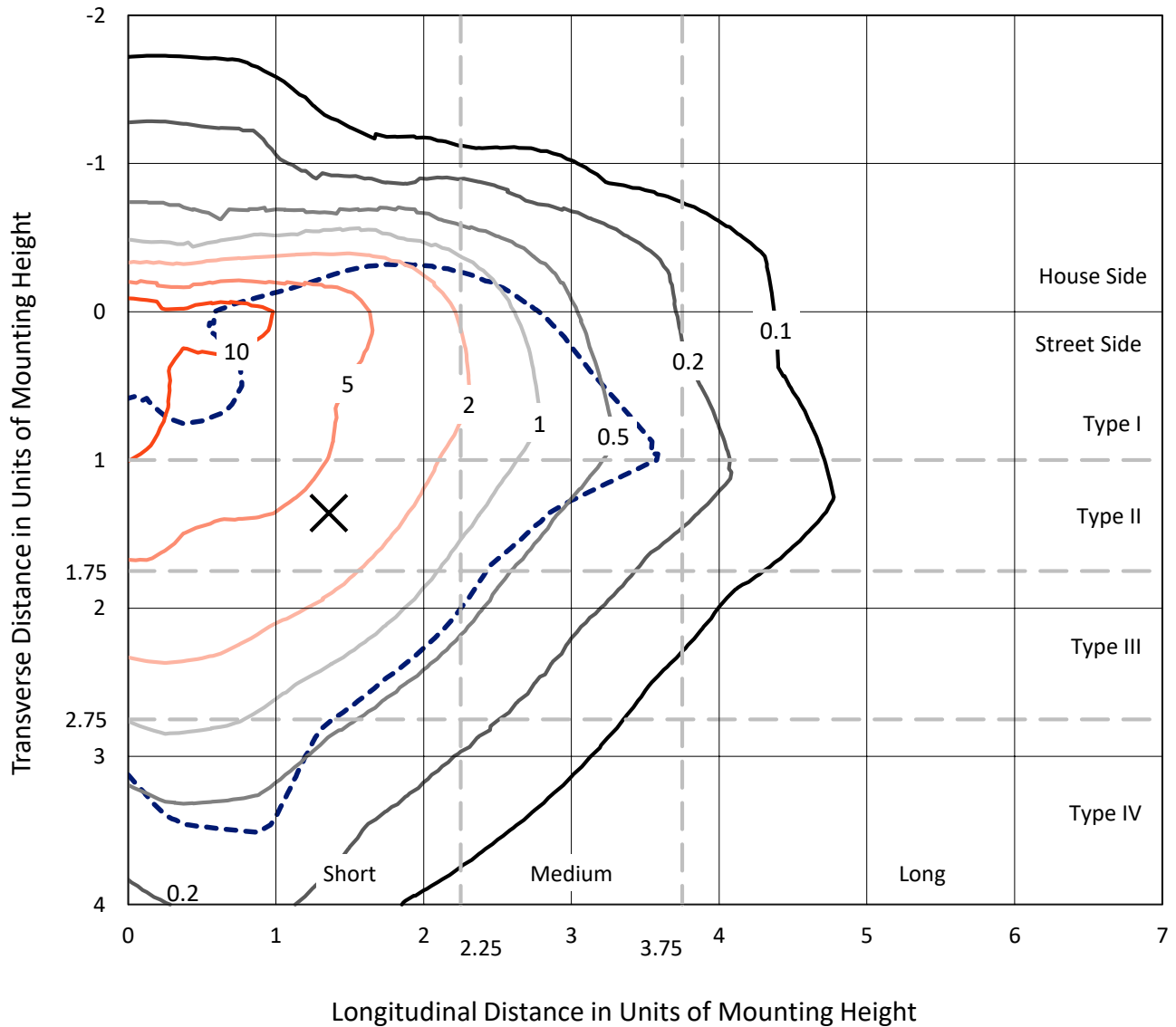
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

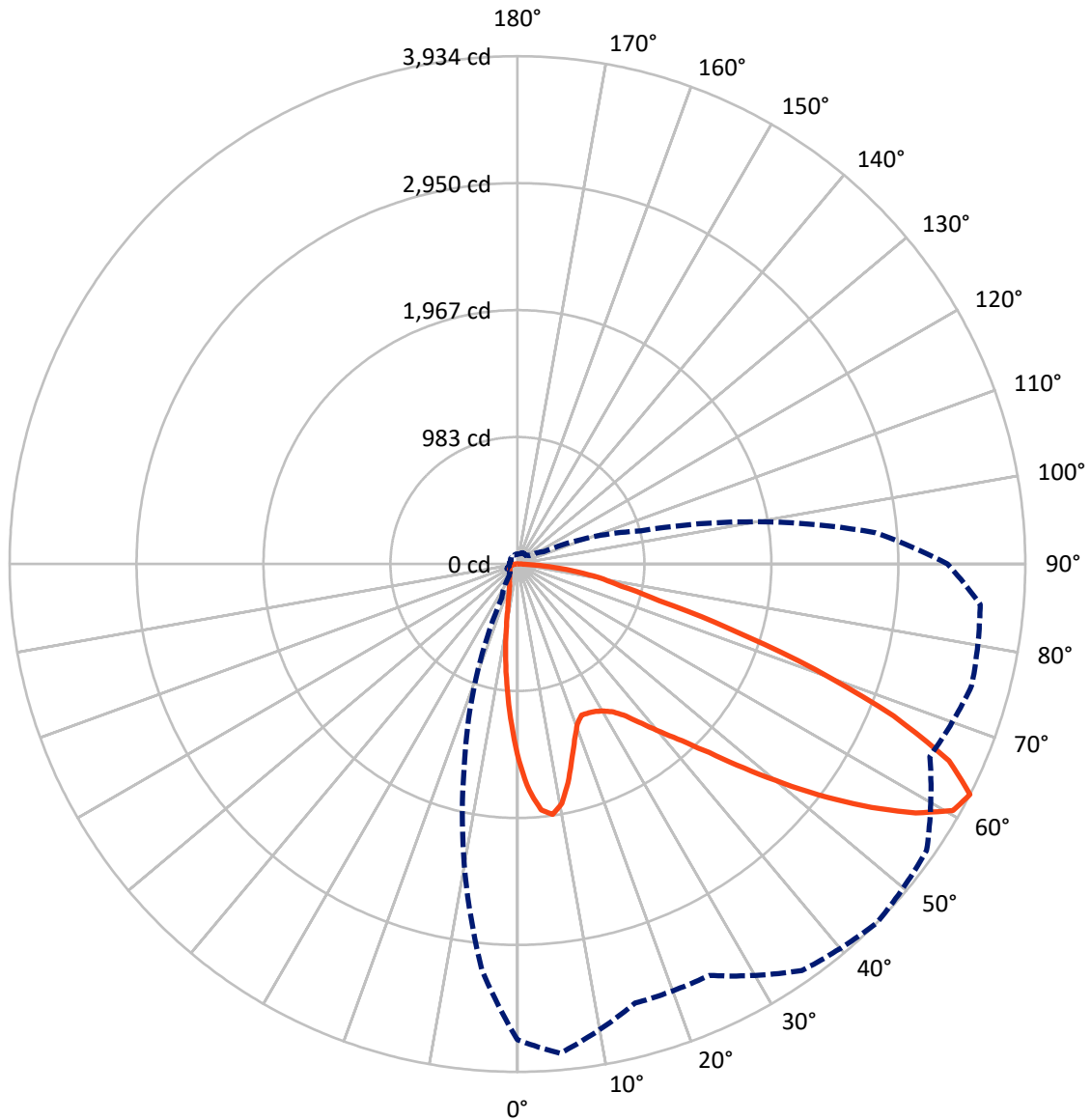
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 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	749.3	0.0	749.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3778.3	0.0	3778.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	4527.6	0.0	4527.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	2.5
10°-20°	204.2	4.5
20°-30°	297.7	6.6
30°-40°	458.5	10.1
40°-50°	674.8	14.9
50°-60°	989.8	21.9
60°-70°	1106.5	24.4
70°-80°	541.7	12.0
80°-90°	143.0	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°	4527.6	100.0
0°-180°	4527.6	100.0



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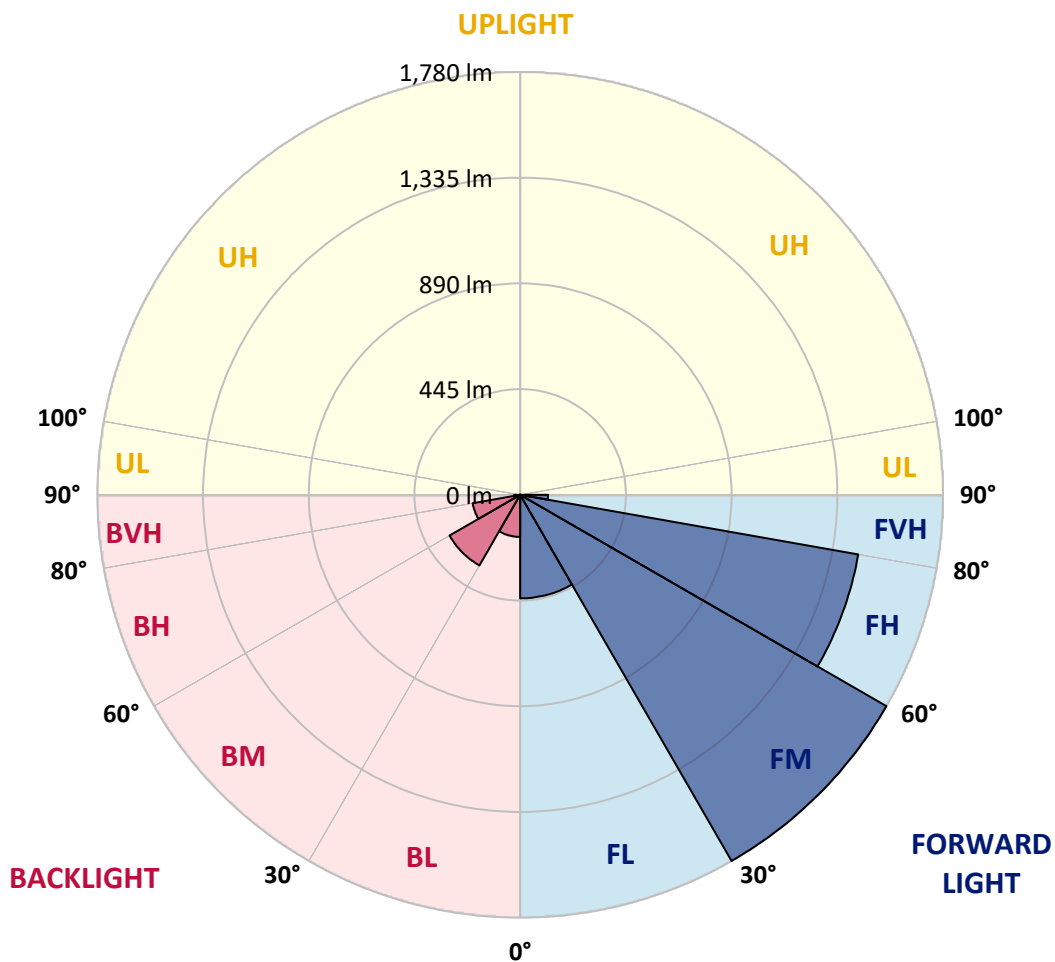
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	436.0	9.6			
FM	(30°-60°)	1779.8	39.3			
FH	(60°-80°)	1445.0	31.9			G1/1800
FVH	(80°-90°)	117.5	2.6			G2/225
BL	(0°-30°)	177.3	3.9	B1/500		
BM	(30°-60°)	343.3	7.6	B1/1000		
BH	(60°-80°)	203.1	4.5	B1/500		G1/500
BVH	(80°-90°)	25.6	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1589.4	1614.8	1664.3	1701.4	1746.5	1756.9	1771.3	1757.1	1732.0	1698.6	1687.7
5°	1494.5	1548.8	1669.0	1774.8	1868.9	1912.7	1924.9	1888.8	1815.8	1720.1	1661.6
7.5°	1342.5	1419.7	1582.4	1738.2	1876.8	1958.7	1956.7	1872.9	1738.7	1582.7	1488.8
10°	1211.4	1299.5	1486.1	1660.4	1807.5	1886.8	1856.2	1748.9	1588.8	1409.2	1307.4
12.5°	1137.9	1224.3	1413.7	1588.6	1711.6	1739.0	1715.6	1610.5	1459.8	1278.1	1189.0
15°	1125.2	1220.1	1384.8	1527.2	1596.1	1572.2	1544.3	1497.3	1390.8	1235.7	1142.8
17.5°	1180.2	1284.7	1417.9	1484.4	1472.6	1431.1	1423.1	1428.3	1402.8	1282.8	1175.8
20°	1285.7	1411.2	1496.8	1464.3	1378.8	1321.6	1323.6	1403.5	1479.4	1402.0	1279.8
22.5°	1433.9	1577.0	1610.5	1474.9	1339.2	1271.3	1287.8	1417.2	1601.6	1576.2	1420.2
25°	1625.5	1755.9	1731.8	1513.8	1343.2	1277.6	1290.8	1464.5	1746.0	1750.5	1593.9
27.5°	1811.1	1932.1	1833.5	1565.2	1359.7	1292.2	1309.7	1538.8	1883.9	1939.6	1792.5
30°	1956.0	2040.2	1873.8	1612.3	1392.0	1320.8	1342.5	1609.5	1946.6	2067.3	1945.3
32.5°	2076.0	2136.4	1938.1	1670.6	1451.5	1365.8	1404.0	1695.4	2036.9	2188.7	2094.9
35°	2229.3	2246.5	2018.0	1735.5	1543.3	1444.3	1491.6	1779.5	2123.0	2311.5	2242.2
37.5°	2408.9	2386.9	2093.4	1824.3	1662.1	1567.0	1606.0	1871.9	2193.9	2450.6	2392.8
40°	2586.6	2533.4	2188.0	1962.2	1835.3	1711.6	1757.9	1970.4	2260.1	2589.9	2539.9
42.5°	2737.7	2658.9	2281.3	2113.8	1996.6	1871.2	1926.4	2069.7	2323.3	2708.9	2667.5
45°	2849.5	2751.4	2370.2	2259.4	2218.8	2083.1	2109.3	2183.5	2391.8	2808.2	2772.6
47.5°	2949.3	2844.5	2470.7	2406.3	2413.2	2358.9	2316.9	2315.9	2472.5	2889.3	2871.9
50°	3083.0	2973.7	2578.8	2557.6	2704.9	2668.8	2576.0	2470.4	2574.5	2981.4	2979.4
52.5°	3267.1	3178.3	2710.6	2720.5	2977.2	3000.8	2885.8	2656.1	2734.2	3150.4	3138.5
55°	3484.9	3433.1	2890.3	2908.0	3311.2	3328.1	3213.9	2888.3	2969.2	3395.1	3361.9
57.5°	3654.9	3644.0	3087.5	3133.0	3560.6	3636.7	3531.7	3157.1	3234.1	3601.2	3518.0
60°	3722.6	3775.6	3297.3	3360.0	3791.3	3875.7	3783.6	3393.3	3468.7	3686.5	3507.3
62.5°	3686.0	3804.5	3520.8	3515.6	3842.8	3933.7	3868.9	3524.8	3642.7	3598.4	3329.9
65°	3517.0	3700.7	3650.4	3475.5	3666.6	3674.0	3653.2	3466.0	3683.7	3319.9	2986.9
67.5°	3148.9	3413.3	3479.7	3132.0	3191.2	3142.7	3107.6	3144.4	3469.7	2902.5	2510.3
70°	2564.7	2962.5	2994.4	2505.0	2478.2	2445.6	2375.6	2577.9	3047.4	2378.9	1991.9
72.5°	1885.8	2304.0	2401.8	1837.3	1712.8	1719.6	1664.3	1942.8	2477.7	1767.1	1487.1
75°	1290.2	1668.3	1879.1	1282.1	1132.7	1135.4	1128.4	1376.6	1973.5	1229.3	1112.8
77.5°	942.5	1191.9	1417.2	861.9	836.8	821.3	817.6	963.2	1512.9	892.5	864.1
80°	756.4	880.6	952.0	597.3	642.4	641.1	620.5	662.3	988.1	652.8	646.4
82.5°	524.7	676.7	771.3	468.2	433.5	426.4	431.3	493.3	698.4	446.2	424.3
85°	276.8	449.5	763.8	414.9	257.4	205.3	255.3	404.0	605.1	236.4	207.0
87.5°	35.3	129.9	505.7	165.5	101.6	54.7	121.2	227.5	388.5	48.3	42.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1659.5	1626.5	1583.2	1543.1	1501.5	1460.3	1406.3	1372.4	1349.0	1344.5	1334.5
5°	1619.2	1509.3	1426.1	1354.2	1289.0	1196.9	1145.9	1103.6	1081.0	1078.7	1073.2
7.5°	1433.4	1281.6	1169.2	1067.4	975.2	900.7	818.6	780.3	764.6	768.3	772.0
10°	1239.9	1070.2	941.3	837.3	755.9	693.2	627.2	582.7	551.8	545.5	544.3
12.5°	1098.5	912.4	787.3	713.8	650.8	591.9	521.9	469.4	429.3	415.6	406.4
15°	1038.8	835.2	704.1	624.9	555.6	480.6	415.6	360.6	323.8	311.9	305.1
17.5°	1051.6	813.9	646.8	545.5	456.7	378.6	296.7	249.6	227.5	221.8	221.8
20°	1118.3	809.9	599.6	472.4	361.6	271.1	203.9	177.0	169.7	169.0	170.9
22.5°	1211.8	823.8	564.3	408.9	281.0	197.8	158.8	148.8	145.6	146.4	148.6
25°	1351.2	870.8	538.6	352.4	220.5	162.0	141.6	135.6	134.1	136.2	138.9
27.5°	1516.4	917.9	522.6	309.9	186.2	148.1	134.6	128.4	129.4	132.0	134.4
30°	1661.6	956.5	497.6	279.5	175.4	148.8	134.6	126.2	125.2	125.7	126.4
32.5°	1791.7	982.6	468.2	250.6	151.3	132.2	125.7	124.5	119.0	117.0	117.2
35°	1904.0	982.6	450.5	233.7	135.6	117.2	106.8	100.6	97.8	98.1	100.8
37.5°	2012.2	962.9	441.8	224.2	127.2	111.5	102.3	96.8	93.1	92.4	92.9
40°	2107.8	934.4	431.8	220.2	120.7	108.0	99.3	94.8	90.8	89.6	89.8
42.5°	2184.5	911.1	420.8	215.0	116.7	105.6	97.3	93.3	88.9	87.6	87.4
45°	2267.4	903.5	406.4	204.6	118.8	105.8	96.8	92.6	88.1	86.6	86.1
47.5°	2376.6	927.6	391.5	192.1	123.0	107.0	97.6	92.6	87.9	86.6	86.1
50°	2514.2	984.4	372.6	174.0	118.8	110.5	97.3	91.9	87.9	86.6	85.6
52.5°	2691.0	1061.0	347.7	153.0	116.2	119.0	96.8	90.3	86.6	84.9	83.2
55°	2905.8	1123.7	318.0	135.8	110.5	116.7	96.1	88.6	84.6	82.1	80.6
57.5°	3063.0	1146.4	280.0	124.7	102.5	113.0	95.0	86.3	82.1	80.1	78.2
60°	3031.9	1102.5	247.9	117.7	97.8	102.1	94.3	84.4	79.9	78.4	76.6
62.5°	2782.8	988.1	227.2	114.5	94.8	93.1	95.0	82.3	77.9	76.4	75.9
65°	2409.3	819.1	219.0	113.8	92.4	87.9	88.4	80.1	75.7	74.4	74.0
67.5°	1987.4	661.0	211.9	116.2	89.1	84.1	81.6	77.1	73.4	72.2	71.2
70°	1567.3	549.8	208.6	114.8	85.1	80.4	77.6	74.0	70.7	69.5	68.7
72.5°	1262.1	464.4	206.8	113.2	79.9	75.4	72.9	69.7	66.2	65.7	65.0
75°	1068.0	365.1	189.5	108.5	74.0	69.5	67.7	64.8	61.3	61.3	60.8
77.5°	823.8	264.0	157.5	96.1	67.7	62.7	61.3	59.0	55.0	55.8	55.5
80°	608.6	172.3	123.2	79.7	59.9	55.2	54.5	52.3	48.1	49.0	49.0
82.5°	416.9	113.0	88.6	65.2	51.2	46.7	46.7	44.6	39.8	40.3	41.8
85°	209.3	77.6	66.2	50.5	39.8	37.5	37.5	35.8	31.1	31.4	33.3
87.5°	63.7	46.7	43.8	36.1	28.6	28.1	26.9	25.7	22.6	22.4	23.6
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°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1319.4	1305.2	1288.0	1250.1	1237.5	1236.7	1248.2	1236.2	1259.2	1249.4	1260.1
5°	1064.0	1050.1	1030.9	982.6	953.3	933.3	923.8	896.0	916.2	901.4	913.7
7.5°	782.5	785.7	773.0	744.7	680.7	648.6	629.7	612.7	627.5	625.9	649.4
10°	550.0	558.7	549.8	521.2	469.4	451.7	455.2	462.0	481.1	491.0	527.1
12.5°	396.0	395.5	389.7	364.2	330.0	332.0	346.2	357.9	375.5	386.1	422.9
15°	295.6	291.2	288.7	267.8	248.4	252.7	259.6	260.9	272.0	278.2	308.1
17.5°	223.5	225.8	228.5	213.6	198.9	196.1	190.7	183.9	187.2	188.4	203.4
20°	177.5	186.4	193.1	182.7	167.8	159.8	152.8	148.3	148.3	148.1	152.3
22.5°	155.1	161.5	168.8	161.5	148.1	141.2	137.2	133.7	133.2	133.2	137.2
25°	142.9	147.6	154.6	149.6	139.6	134.4	130.6	126.2	124.5	124.0	126.6
27.5°	136.9	138.9	142.4	137.9	129.4	126.9	125.9	121.9	119.7	118.5	121.2
30°	126.6	126.2	126.4	121.9	115.2	115.0	116.7	117.4	116.7	116.5	120.7
32.5°	117.2	116.2	116.0	112.0	105.8	104.2	105.8	107.3	109.0	111.5	116.5
35°	105.3	107.8	109.3	105.8	98.3	93.8	92.1	89.3	87.9	87.9	93.6
37.5°	95.9	101.6	103.8	100.6	92.4	86.1	83.2	82.7	82.9	83.9	89.3
40°	92.6	96.8	98.8	95.5	87.4	81.6	79.9	79.4	79.9	81.4	86.8
42.5°	90.6	93.6	93.3	89.3	82.7	78.7	77.6	77.1	77.6	79.2	85.1
45°	88.9	90.8	88.9	84.1	77.9	75.9	76.2	75.9	76.4	77.9	83.6
47.5°	87.4	88.1	85.6	80.9	74.4	74.0	74.9	75.7	76.2	77.4	83.4
50°	85.1	85.1	82.9	77.9	71.4	71.7	72.9	74.7	74.9	76.4	81.1
52.5°	82.3	82.1	80.6	75.9	68.9	69.7	69.7	71.7	72.2	74.0	78.9
55°	80.1	79.7	78.9	74.4	66.7	67.9	67.2	67.9	69.2	70.9	76.4
57.5°	78.2	77.1	77.1	73.1	65.0	65.5	63.7	64.8	66.2	67.7	73.4
60°	76.2	75.2	75.7	71.4	62.2	61.7	61.0	63.0	63.4	65.2	70.9
62.5°	74.0	73.1	73.4	69.5	60.3	59.0	59.0	60.8	61.0	63.4	68.9
65°	72.2	71.2	70.9	67.4	58.0	56.5	57.3	58.0	58.5	61.0	66.2
67.5°	70.5	68.4	68.4	65.7	55.5	54.0	55.5	55.2	56.0	58.2	62.5
70°	68.2	65.5	65.7	64.4	53.0	51.2	52.5	52.3	52.8	54.2	58.5
72.5°	64.8	62.5	63.0	62.5	50.5	48.1	48.5	48.5	48.5	49.8	54.2
75°	60.3	58.5	59.9	61.3	47.6	44.1	44.6	44.6	43.8	44.6	50.0
77.5°	54.7	53.8	58.7	57.0	44.1	39.8	39.8	39.3	37.8	38.9	44.8
80°	48.8	48.1	54.2	47.8	40.1	34.6	34.1	32.8	31.4	32.1	38.1
82.5°	42.6	41.8	45.5	36.6	34.6	28.6	27.4	25.2	23.6	24.3	29.9
85°	34.9	34.9	35.1	27.6	26.4	21.9	20.5	17.4	15.7	16.2	21.4
87.5°	24.9	25.7	23.6	18.9	15.7	12.2	11.2	9.4	8.0	9.2	11.2
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°	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6	1529.6
2.5°	1314.9	1342.2	1373.3	1413.2	1447.3	1503.3	1557.0	1589.4
5°	983.1	1028.7	1085.4	1158.3	1226.3	1328.3	1429.6	1494.5
7.5°	703.6	752.4	813.7	904.7	1000.8	1131.0	1264.9	1342.5
10°	582.2	632.2	683.7	745.1	823.8	965.5	1123.7	1211.4
12.5°	481.6	535.1	590.7	655.3	728.2	854.7	1037.1	1137.9
15°	368.6	428.3	493.8	575.7	667.1	813.1	1015.7	1125.2
17.5°	252.7	319.4	399.7	500.7	612.5	799.6	1054.0	1180.2
20°	174.0	222.5	308.4	426.9	561.2	797.9	1127.7	1285.7
22.5°	145.6	167.3	230.0	358.9	522.6	819.4	1242.0	1433.9
25°	134.6	147.6	183.7	299.9	494.5	868.6	1399.3	1625.5
27.5°	128.2	139.8	166.7	261.4	472.4	925.9	1552.3	1811.1
30°	130.6	142.6	162.0	241.6	442.2	973.6	1688.2	1956.0
32.5°	117.7	123.0	138.9	224.2	420.6	1013.7	1807.1	2076.0
35°	100.4	109.6	124.0	216.0	421.1	1040.6	1936.9	2229.3
37.5°	95.5	104.8	115.2	213.1	426.9	1069.2	2085.7	2408.9
40°	92.6	101.1	110.0	211.3	432.3	1095.4	2231.6	2586.6
42.5°	90.6	98.3	109.6	205.3	435.1	1118.7	2351.5	2737.7
45°	90.3	98.3	111.5	199.4	439.3	1143.9	2452.0	2849.5
47.5°	90.6	101.6	107.8	192.1	439.3	1185.9	2570.0	2949.3
50°	89.6	107.0	103.8	182.0	429.1	1265.6	2731.8	3083.0
52.5°	89.1	106.3	96.1	166.2	411.4	1392.0	2939.1	3267.1
55°	87.9	102.5	90.6	142.9	390.8	1529.9	3161.1	3484.9
57.5°	86.6	90.8	87.6	122.4	358.9	1627.0	3314.0	3654.9
60°	97.1	79.4	85.1	112.5	316.3	1653.6	3307.9	3722.6
62.5°	89.8	74.4	81.8	110.3	286.4	1578.9	3155.2	3686.0
65°	70.5	71.2	78.7	116.7	278.5	1381.1	2884.3	3517.0
67.5°	64.4	67.9	75.4	124.9	279.3	1105.8	2479.6	3148.9
70°	60.8	64.4	71.7	129.2	281.2	824.3	1960.5	2564.7
72.5°	56.5	59.7	67.4	129.9	268.3	598.8	1511.0	1885.8
75°	51.6	54.5	61.5	113.2	222.3	415.4	1155.8	1290.2
77.5°	45.8	48.1	54.0	87.4	165.0	265.8	867.7	942.5
80°	39.1	40.3	45.3	63.9	113.0	166.2	686.4	756.4
82.5°	31.4	31.8	35.1	48.1	73.4	106.8	459.7	524.7
85°	22.2	22.2	24.1	34.9	50.0	67.7	249.6	276.8
87.5°	10.4	10.7	10.7	19.1	26.1	34.4	57.5	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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