

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: P269095

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269095
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-02-LED-E1-SLR-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7513.2 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

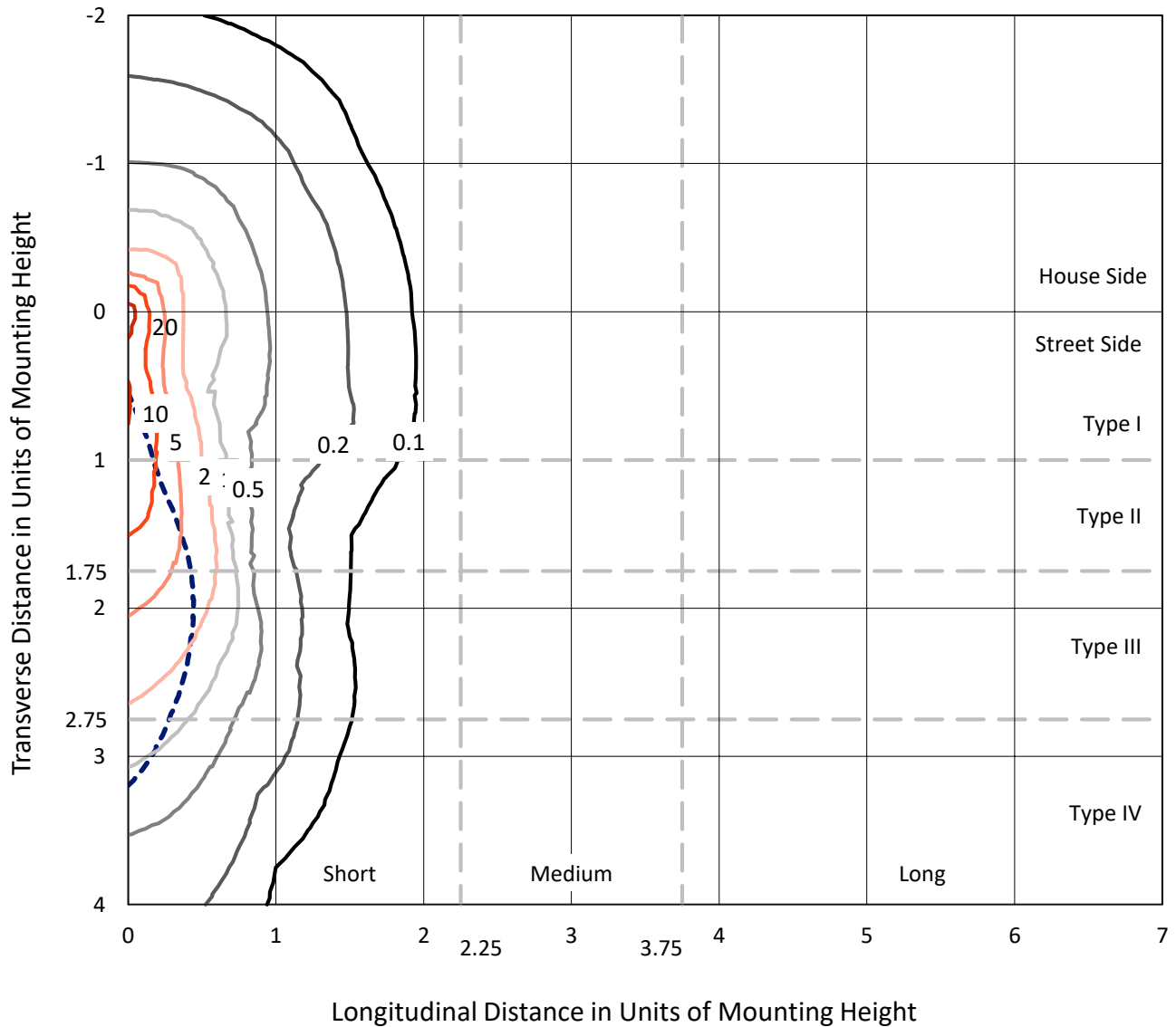


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

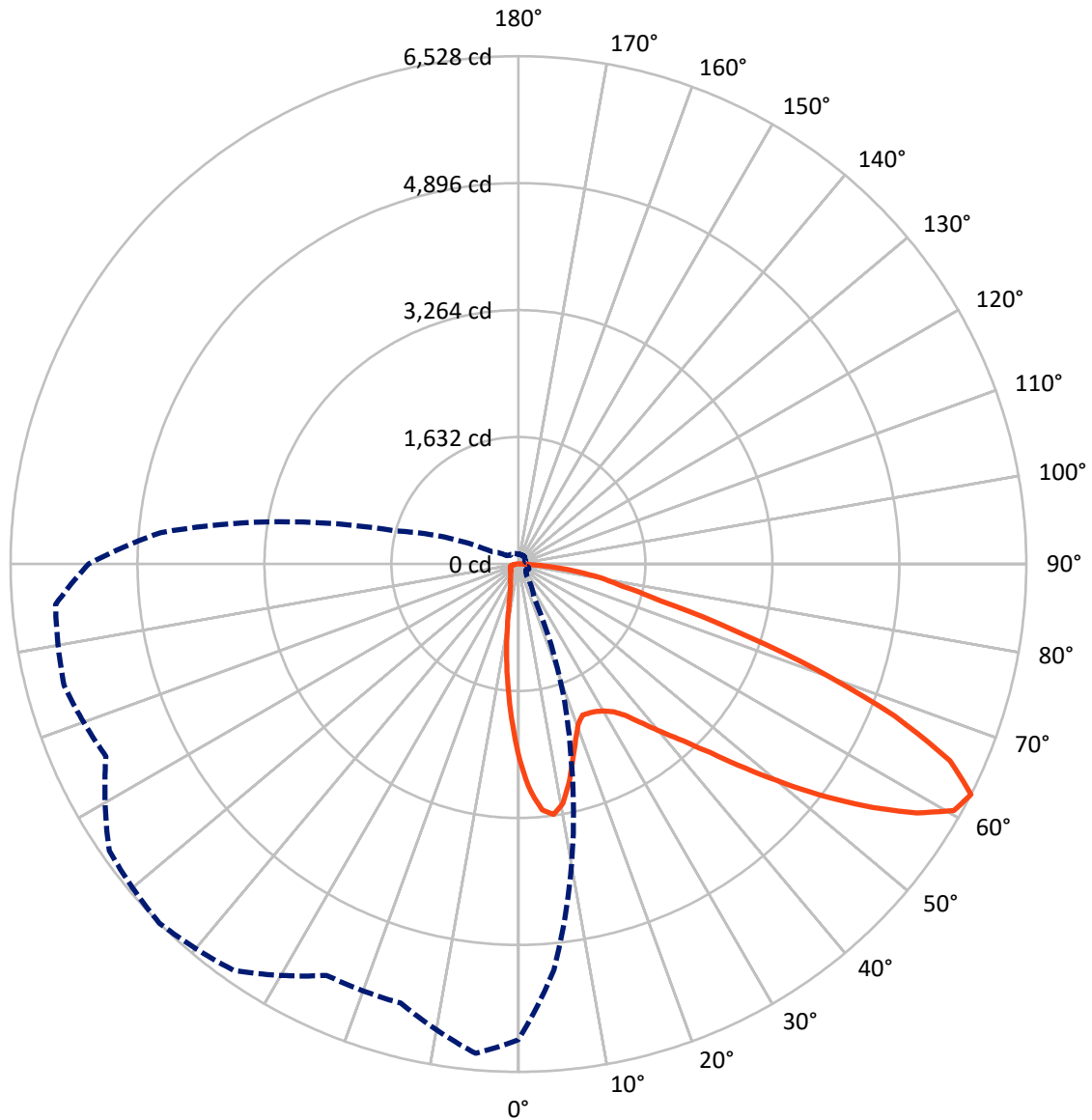


Based on 10 foot mounting height. Maximum calculated value = 25.4 fc
 Type IV - Short - Non-Cutoff

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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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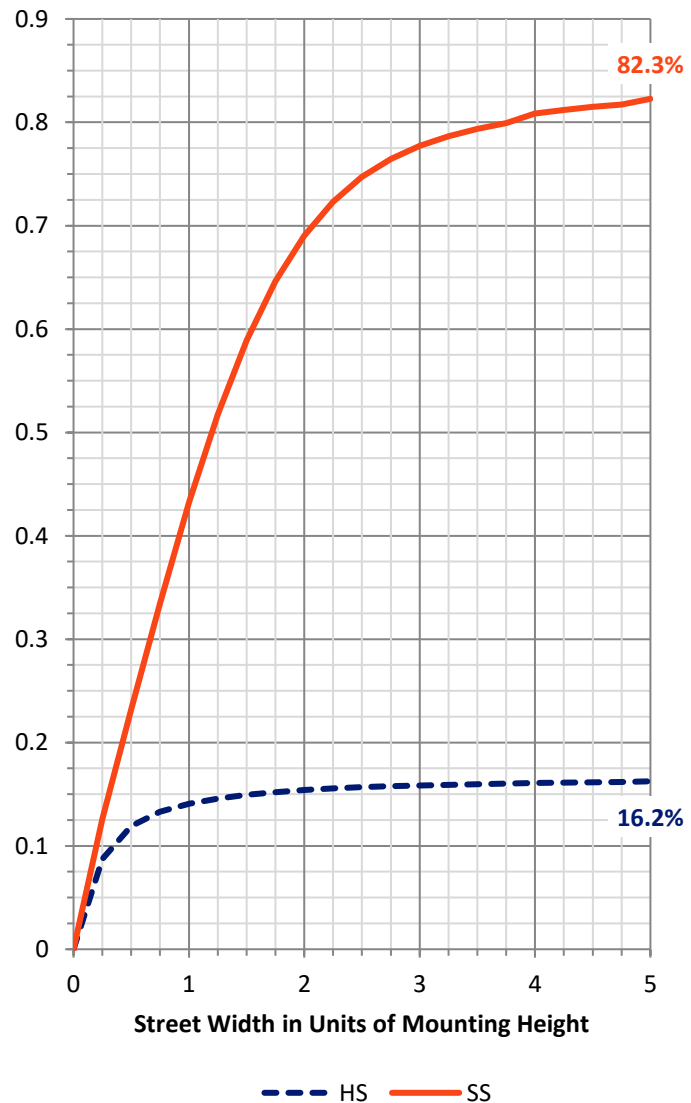
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1243.3	0.0	1243.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6269.9	0.0	6269.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	7513.2	0.0	7513.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	2.5
10°-20°	338.8	4.5
20°-30°	494.0	6.6
30°-40°	760.9	10.1
40°-50°	1119.8	14.9
50°-60°	1642.5	21.9
60°-70°	1836.1	24.4
70°-80°	898.9	12.0
80°-90°	237.3	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°	7513.2	100.0
0°-180°	7513.2	100.0

Coefficient of Utilization



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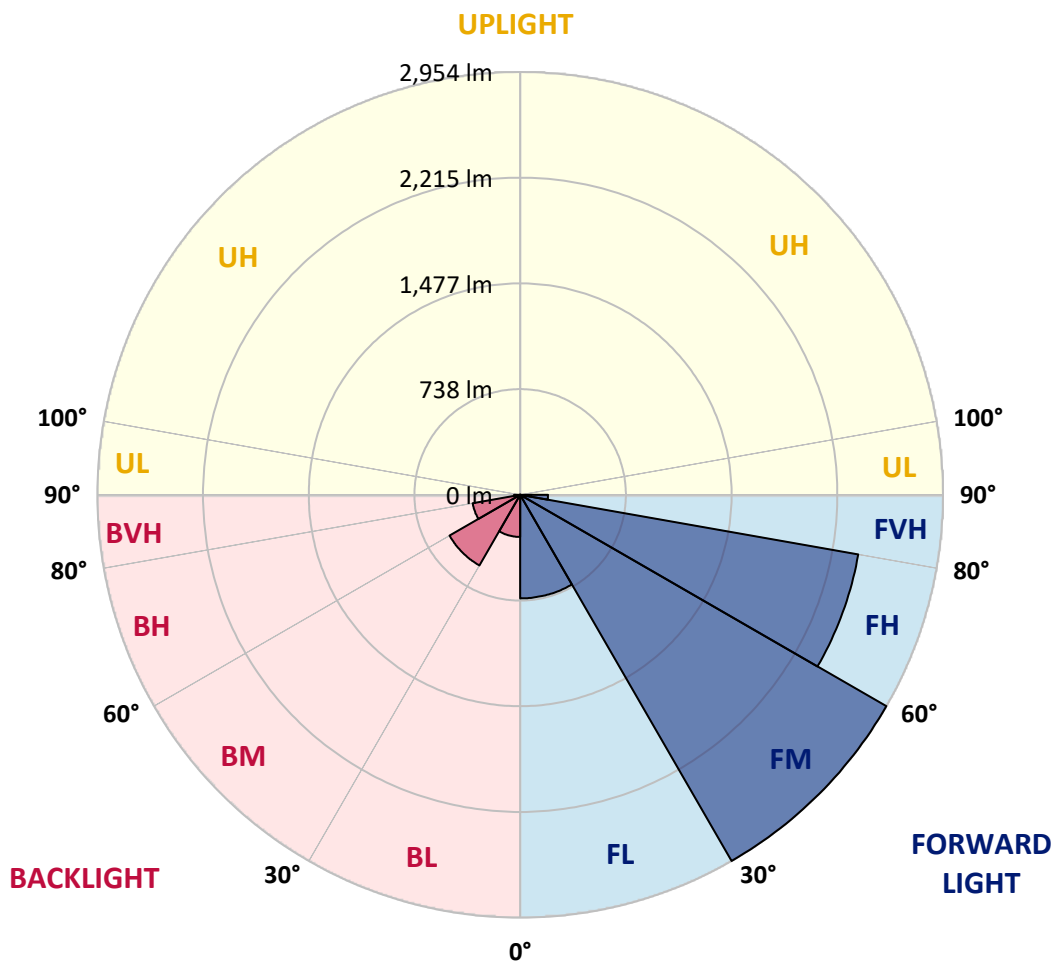
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	723.5	9.6			
FM	(30°-60°)	2953.5	39.3			
FH	(60°-80°)	2398.0	31.9			G2/5000
FVH	(80°-90°)	194.9	2.6			G2/225
BL	(0°-30°)	294.2	3.9	B1/500		
BM	(30°-60°)	569.7	7.6	B1/1000		
BH	(60°-80°)	337.1	4.5	B1/500		G1/500
BVH	(80°-90°)	42.4	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°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2637.6	2583.9	2494.7	2401.7	2345.0	2279.0	2227.3	2182.0	2091.1	2073.3	2089.5
5°	2480.1	2372.3	2204.3	2034.9	1922.2	1801.1	1707.0	1631.4	1516.2	1495.9	1520.3
7.5°	2227.7	2098.9	1876.6	1660.7	1501.2	1350.2	1248.6	1167.5	1077.5	1038.7	1041.2
10°	2010.1	1864.7	1602.0	1367.1	1236.5	1134.6	1049.0	966.0	874.8	814.9	798.4
12.5°	1888.2	1721.1	1418.2	1208.5	1087.5	980.1	888.0	799.2	701.7	640.6	623.2
15°	1867.2	1685.5	1349.3	1106.9	955.3	819.4	710.7	611.7	511.3	461.8	451.4
17.5°	1958.6	1749.1	1326.9	1016.4	831.0	663.3	529.9	419.1	337.5	312.6	310.5
20°	2133.7	1871.3	1324.1	931.4	708.4	511.8	369.3	288.6	252.8	245.7	246.1
22.5°	2379.4	2060.9	1359.7	867.4	595.5	381.6	277.5	241.6	227.6	221.0	221.0
25°	2697.4	2321.9	1441.4	820.6	497.8	304.9	244.9	223.5	210.3	205.7	206.5
27.5°	3005.5	2576.0	1536.5	784.0	433.6	276.7	232.1	212.7	201.1	196.5	198.6
30°	3245.8	2801.5	1615.7	733.9	401.1	268.9	236.7	216.9	200.3	193.2	193.8
32.5°	3444.9	2998.9	1682.2	698.1	372.1	230.4	204.1	195.3	193.2	185.1	180.9
35°	3699.4	3214.0	1726.8	698.8	358.6	205.7	181.7	166.5	155.2	145.7	145.7
37.5°	3997.5	3461.1	1774.3	708.4	353.6	191.2	173.9	158.6	148.3	139.1	137.5
40°	4292.5	3703.1	1817.7	717.3	350.7	182.5	167.7	153.6	144.2	135.0	132.6
42.5°	4543.2	3902.1	1856.4	722.0	340.7	181.7	163.1	150.3	141.3	131.3	128.8
45°	4728.6	4069.1	1898.2	729.0	330.8	185.1	163.1	149.9	138.8	129.3	126.8
47.5°	4894.1	4264.8	1967.9	729.0	318.9	178.9	168.5	150.3	138.3	128.5	126.4
50°	5115.9	4533.2	2100.1	712.0	301.9	172.2	177.5	148.7	134.7	126.8	124.3
52.5°	5421.6	4877.3	2310.0	682.7	275.9	159.4	176.3	147.9	131.0	122.7	119.7
55°	5783.0	5245.7	2538.8	648.4	237.1	150.3	170.1	145.7	126.8	117.7	114.9
57.5°	6065.0	5499.2	2699.9	595.5	203.1	145.3	150.7	143.6	121.8	112.4	109.9
60°	6177.5	5489.4	2744.1	524.9	186.7	141.3	131.7	161.1	117.7	108.2	105.3
62.5°	6116.6	5235.9	2620.1	475.4	183.0	135.9	123.4	149.1	114.4	105.3	101.1
65°	5836.3	4786.3	2291.8	462.2	193.8	130.6	118.1	116.9	109.9	101.1	97.0
67.5°	5225.4	4114.9	1835.0	463.3	207.2	125.1	112.7	107.0	103.7	96.7	93.0
70°	4256.1	3253.3	1367.8	466.7	214.3	118.9	107.0	100.8	97.0	90.0	87.6
72.5°	3129.3	2507.3	993.7	445.2	215.7	111.8	99.2	93.8	90.0	82.6	80.6
75°	2141.1	1918.1	689.3	368.8	187.9	102.0	90.5	85.5	83.1	73.9	72.8
77.5°	1564.0	1439.8	441.1	273.9	144.9	89.7	79.7	75.9	74.3	64.4	62.8
80°	1255.1	1139.1	275.9	187.4	106.1	75.2	67.0	64.9	63.2	53.3	52.0
82.5°	870.6	762.8	177.1	121.8	79.7	58.2	52.9	52.0	49.5	40.5	39.3
85°	459.3	414.3	112.4	83.1	57.9	40.1	36.8	36.8	35.6	26.9	26.1
87.5°	58.7	95.4	57.0	43.4	31.8	17.7	17.7	17.3	18.5	15.4	13.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2051.4	2071.2	2052.3	2053.4	2074.5	2137.3	2165.9	2189.3	2214.6	2231.1	2238.5
5°	1486.9	1533.0	1548.8	1581.8	1630.6	1710.7	1742.5	1765.6	1780.9	1790.1	1793.7
7.5°	1016.8	1044.9	1076.3	1129.6	1235.8	1282.8	1303.9	1298.5	1281.2	1275.0	1268.8
10°	766.6	755.5	749.6	778.9	864.9	912.4	927.2	912.8	903.2	905.3	915.6
12.5°	593.9	574.5	551.0	547.6	604.2	646.8	656.3	657.1	674.4	689.7	712.4
15°	432.9	430.7	419.1	412.2	444.4	479.1	483.2	490.7	506.4	517.6	537.4
17.5°	305.2	316.4	325.5	329.9	354.4	379.2	374.7	370.9	367.9	367.9	377.5
20°	246.1	253.6	265.2	278.4	303.2	320.4	309.3	294.5	283.8	280.5	281.7
22.5°	221.8	227.6	234.2	245.7	268.1	280.0	268.1	257.4	246.6	242.8	241.6
25°	209.3	216.9	223.0	231.8	248.2	256.5	244.9	237.1	230.4	226.0	222.6
27.5°	202.4	208.9	210.7	214.8	228.8	236.3	230.4	227.1	223.0	218.8	214.8
30°	194.9	193.8	190.8	191.2	202.4	209.8	209.3	210.3	209.8	208.5	207.8
32.5°	178.0	175.4	173.1	175.4	185.9	192.4	192.9	194.6	194.6	194.2	197.4
35°	148.3	152.8	155.6	163.1	175.4	181.3	178.9	174.7	167.3	162.8	162.4
37.5°	137.1	137.9	142.9	153.3	166.8	172.2	168.5	159.0	154.1	153.3	154.5
40°	131.7	132.6	135.5	144.9	158.6	164.0	160.6	153.6	149.1	148.7	150.7
42.5°	128.0	128.8	130.6	137.1	148.3	154.9	155.2	150.3	144.9	145.3	147.4
45°	125.9	126.4	125.9	129.3	139.5	147.4	150.7	147.4	142.9	143.6	146.2
47.5°	125.6	124.3	122.7	123.4	134.2	142.1	146.2	144.9	142.9	143.6	145.7
50°	123.8	121.0	118.9	118.5	129.3	137.5	141.3	141.3	142.1	143.6	145.7
52.5°	118.9	115.6	115.6	114.4	125.9	133.8	136.4	136.7	137.9	140.9	143.6
55°	112.7	111.5	112.7	110.8	123.4	131.0	132.2	132.9	133.8	136.4	140.4
57.5°	107.3	105.7	108.7	107.7	121.5	128.0	128.0	129.6	129.6	132.9	136.4
60°	104.6	101.1	102.4	103.2	118.5	125.6	124.8	126.4	127.2	130.2	132.6
62.5°	100.8	97.8	97.8	99.9	115.3	121.8	121.5	122.7	125.9	126.8	129.3
65°	96.2	95.0	93.8	96.2	111.8	117.7	118.1	119.7	122.7	123.4	125.6
67.5°	91.6	92.0	89.7	92.0	109.1	113.5	113.5	116.9	118.1	119.7	121.8
70°	86.7	87.1	85.1	87.9	107.0	109.1	108.7	113.1	113.9	115.3	117.3
72.5°	80.6	80.6	79.7	83.8	103.7	104.6	103.7	107.3	107.7	109.1	109.9
75°	73.9	73.9	73.1	79.0	101.6	99.5	97.0	99.9	100.8	101.6	101.6
77.5°	65.2	66.0	66.0	73.1	94.6	97.5	89.2	90.9	92.0	92.5	91.3
80°	54.4	56.7	57.4	66.5	79.3	90.0	79.7	80.9	81.3	81.3	79.7
82.5°	41.7	45.5	47.5	57.4	60.7	75.5	69.3	70.6	69.3	67.0	66.0
85°	28.9	33.9	36.3	43.7	45.9	58.2	57.9	57.9	55.3	52.0	51.7
87.5°	15.7	18.5	20.2	26.1	31.4	39.3	42.5	41.3	39.3	37.2	37.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2277.4	2333.5	2423.2	2491.7	2560.7	2627.2	2699.0	2753.9	2800.6	2818.8	2874.1
5°	1831.4	1901.5	1986.2	2139.0	2247.2	2366.6	2504.6	2687.1	2757.3	2854.4	3013.4
7.5°	1294.7	1358.3	1494.7	1618.1	1771.4	1940.2	2126.6	2378.5	2470.7	2626.4	2885.3
10°	966.8	1040.7	1150.2	1254.4	1389.4	1562.1	1775.9	2057.7	2169.5	2338.5	2636.6
12.5°	778.9	866.1	982.1	1080.0	1184.5	1306.3	1514.2	1823.0	1972.9	2120.8	2422.3
15°	598.5	689.7	797.5	921.8	1037.1	1168.4	1386.1	1723.8	1896.5	2050.7	2307.9
17.5°	414.3	492.4	628.2	757.9	905.3	1073.5	1350.5	1745.0	1951.1	2128.7	2327.8
20°	293.7	338.2	449.8	600.1	784.0	995.0	1344.0	1855.7	2123.8	2326.5	2455.0
22.5°	246.9	263.6	328.3	466.3	678.6	936.4	1367.1	2010.9	2356.7	2615.7	2657.7
25°	225.0	234.9	268.9	365.9	584.8	893.8	1445.2	2242.3	2644.9	2904.7	2897.4
27.5°	213.1	223.5	245.7	308.9	514.2	867.4	1523.2	2516.5	2974.5	3218.5	3126.1
30°	209.3	223.5	246.9	291.2	463.9	825.6	1587.2	2757.3	3228.1	3430.4	3230.1
32.5°	206.5	208.5	219.2	251.0	415.9	776.9	1630.6	2973.3	3476.4	3632.0	3380.1
35°	166.8	177.1	194.6	225.0	387.8	747.6	1630.6	3159.6	3720.8	3835.7	3523.1
37.5°	160.6	169.8	185.1	211.0	372.1	733.0	1597.9	3339.2	3970.7	4066.5	3640.7
40°	157.4	164.7	179.2	200.3	365.5	716.6	1550.5	3497.8	4214.8	4297.9	3750.6
42.5°	154.9	161.4	175.1	193.8	356.8	698.4	1512.0	3625.0	4426.7	4495.2	3855.4
45°	153.6	160.6	175.4	197.0	339.5	674.4	1499.2	3762.6	4600.9	4660.0	3969.0
47.5°	153.6	162.0	177.5	204.1	318.9	649.7	1539.2	3943.9	4765.8	4794.7	4102.9
50°	152.4	161.4	183.3	197.0	288.6	618.3	1633.5	4172.3	4944.2	4947.4	4272.2
52.5°	149.9	160.6	197.4	192.9	254.0	577.0	1760.7	4465.6	5208.2	5228.0	4537.3
55°	147.1	159.4	193.8	183.3	225.6	527.8	1864.7	4821.9	5579.0	5633.9	4927.3
57.5°	143.3	157.7	187.4	170.1	206.9	464.7	1902.3	5083.0	5837.9	5975.9	5366.7
60°	140.0	156.6	169.3	162.4	195.3	411.3	1829.7	5031.3	5820.2	6117.5	5756.2
62.5°	136.7	157.7	154.5	157.4	190.0	377.1	1639.6	4617.8	5525.7	5971.4	6044.9
65°	132.9	146.7	145.7	153.3	188.7	363.5	1359.2	3997.9	4956.6	5509.1	6113.0
67.5°	128.0	135.5	139.5	147.9	192.9	351.4	1097.0	3297.9	4165.6	4816.5	5757.9
70°	122.7	128.8	133.4	141.3	190.4	346.0	912.4	2600.8	3305.4	3947.6	5056.9
72.5°	115.6	121.0	125.1	132.6	187.9	343.2	770.7	2094.4	2467.7	2932.3	4111.5
75°	107.3	112.4	115.3	122.7	180.1	314.2	605.8	1772.3	1846.6	2040.0	3274.9
77.5°	97.8	101.6	104.1	112.4	159.4	261.4	438.3	1367.1	1434.0	1481.0	2510.8
80°	86.7	90.5	91.6	99.5	132.2	204.5	285.8	1009.9	1072.5	1083.4	1639.6
82.5°	73.9	77.7	77.7	85.1	108.2	147.1	187.4	691.8	704.2	740.6	1159.0
85°	59.5	62.3	62.3	66.0	83.8	109.9	128.8	347.4	343.6	392.4	1004.0
87.5°	42.5	44.6	46.7	47.5	59.8	72.8	77.7	105.7	69.8	80.0	644.8
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4	2538.4
2.5°	2915.9	2939.4	2915.4	2898.1	2823.4	2761.7	2679.6	2637.6
5°	3134.4	3194.3	3174.0	3101.3	2945.3	2769.7	2570.2	2480.1
7.5°	3108.0	3247.2	3250.3	3114.6	2884.5	2625.9	2355.8	2227.7
10°	2902.2	3080.3	3131.0	2999.4	2755.2	2466.0	2156.3	2010.1
12.5°	2672.5	2846.9	2885.7	2840.4	2636.3	2346.0	2031.5	1888.2
15°	2484.7	2562.8	2608.9	2648.7	2534.3	2298.0	2024.6	1867.2
17.5°	2370.3	2361.6	2374.8	2443.7	2463.2	2352.9	2131.9	1958.6
20°	2328.9	2196.4	2193.1	2288.2	2429.7	2483.9	2341.8	2133.7
22.5°	2351.8	2136.9	2109.7	2222.4	2447.5	2672.5	2616.9	2379.4
25°	2430.2	2141.9	2120.0	2229.1	2511.9	2873.8	2913.8	2697.4
27.5°	2553.6	2173.3	2144.3	2256.4	2597.4	3042.6	3206.2	3005.5
30°	2670.9	2227.7	2191.9	2310.0	2675.5	3109.6	3385.4	3245.8
32.5°	2813.4	2329.8	2266.7	2408.6	2772.1	3216.1	3545.3	3444.9
35°	2953.1	2475.2	2396.7	2561.1	2880.0	3348.7	3727.8	3699.4
37.5°	3106.2	2665.2	2600.4	2758.1	3027.4	3473.8	3960.7	3997.5
40°	3269.8	2917.2	2840.4	3045.6	3256.1	3630.8	4204.1	4292.5
42.5°	3434.6	3196.7	3105.0	3313.2	3507.7	3785.6	4412.3	4543.2
45°	3623.4	3500.2	3456.9	3682.1	3749.3	3933.0	4565.8	4728.6
47.5°	3843.0	3844.7	3914.5	4004.6	3993.0	4100.0	4720.4	4894.1
50°	4099.5	4274.7	4428.7	4488.7	4244.1	4279.3	4934.7	5115.9
52.5°	4407.7	4788.9	4979.8	4940.5	4514.6	4498.2	5274.2	5421.6
55°	4792.9	5333.2	5522.8	5494.8	4825.6	4796.3	5697.1	5783.0
57.5°	5239.1	5860.6	6035.0	5908.5	5199.0	5123.5	6046.9	6065.0
60°	5631.0	6278.7	6431.4	6291.4	5575.7	5471.5	6265.4	6177.5
62.5°	5849.0	6420.2	6527.7	6376.9	5833.9	5842.4	6313.3	6116.6
65°	5751.6	6062.2	6096.8	6084.5	5767.3	6057.7	6141.2	5836.3
67.5°	5218.1	5156.9	5215.1	5295.7	5197.4	5774.3	5664.1	5225.4
70°	4278.0	3942.2	4058.3	4112.4	4156.9	4969.0	4916.1	4256.1
72.5°	3223.9	2761.7	2853.5	2842.3	3048.8	3985.6	3823.2	3129.3
75°	2284.4	1872.5	1884.1	1879.7	2127.5	3118.2	2768.4	2141.1
77.5°	1598.4	1356.7	1363.0	1388.5	1430.2	2351.8	1977.9	1564.0
80°	1099.0	1029.6	1064.0	1066.0	991.2	1579.8	1461.3	1255.1
82.5°	818.5	715.8	707.4	719.5	776.9	1279.9	1123.1	870.6
85°	670.3	423.7	340.7	427.1	688.6	1267.6	746.0	459.3
87.5°	377.5	201.1	90.9	168.5	274.6	839.2	215.7	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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