

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: P193820

Luminaire Tested: **GLEON-AF-02-LED-E1-SLL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193820
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-SLL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7057 lumens
Efficiency: N/A
Efficacy: 83.0 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

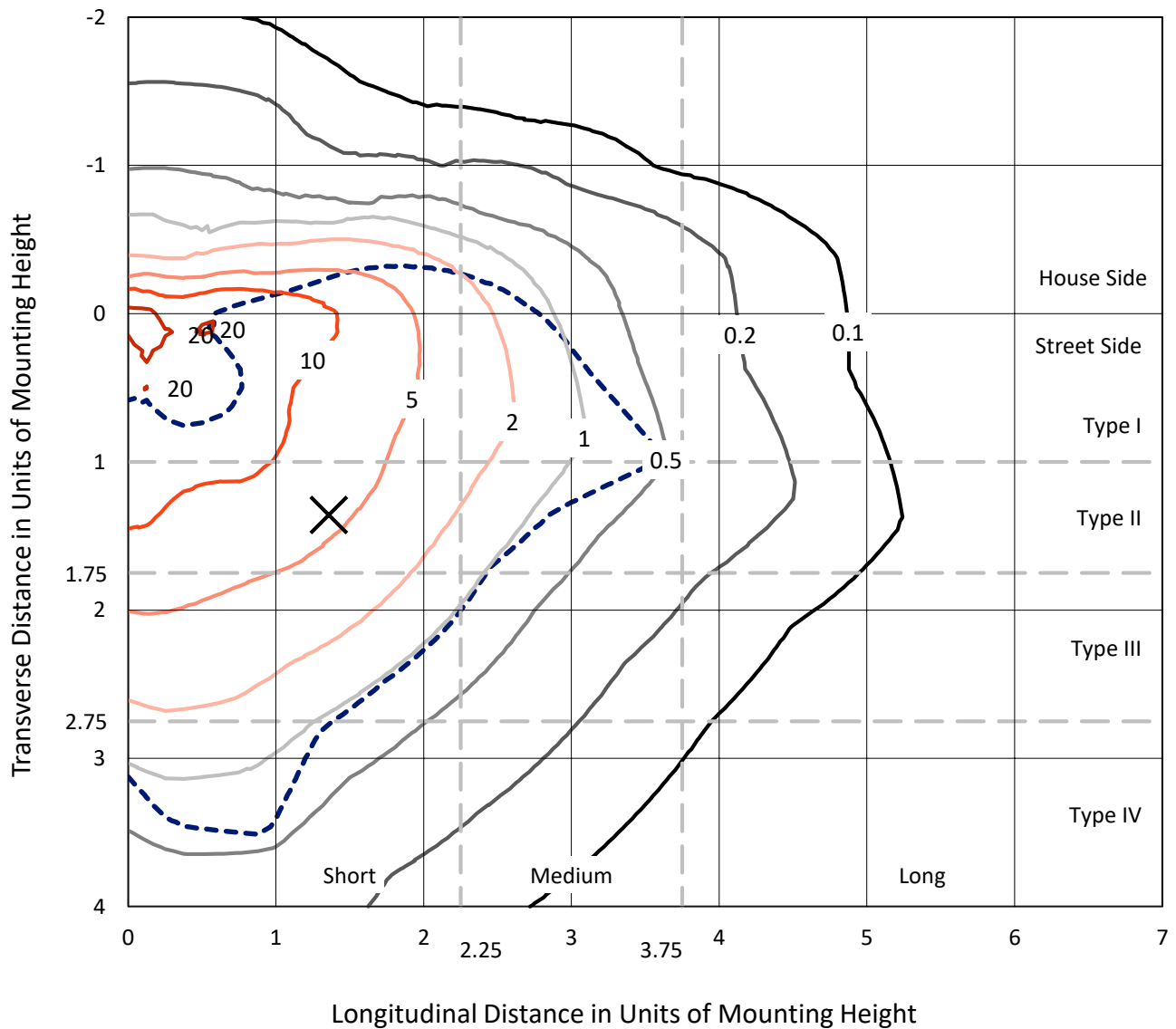
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

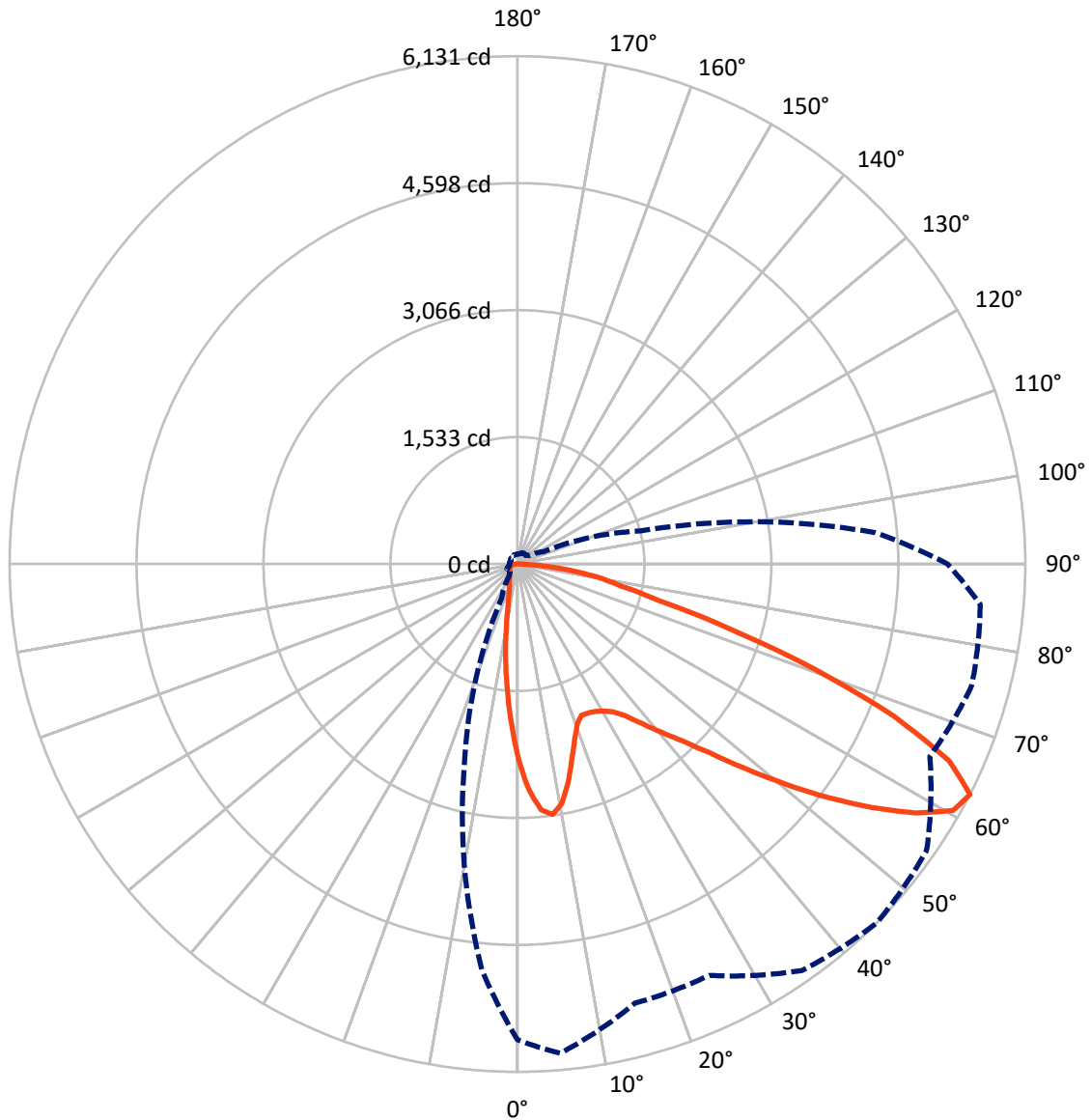
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.1 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	1167.8	0.0	1167.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5889.2	0.0	5889.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	7057.0	0.0	7057.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	2.5
10°-20°	318.3	4.5
20°-30°	464.0	6.6
30°-40°	714.7	10.1
40°-50°	1051.8	14.9
50°-60°	1542.8	21.9
60°-70°	1724.6	24.4
70°-80°	844.3	12.0
80°-90°	222.9	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°	7057.0	100.0
0°-180°	7057.0	100.0



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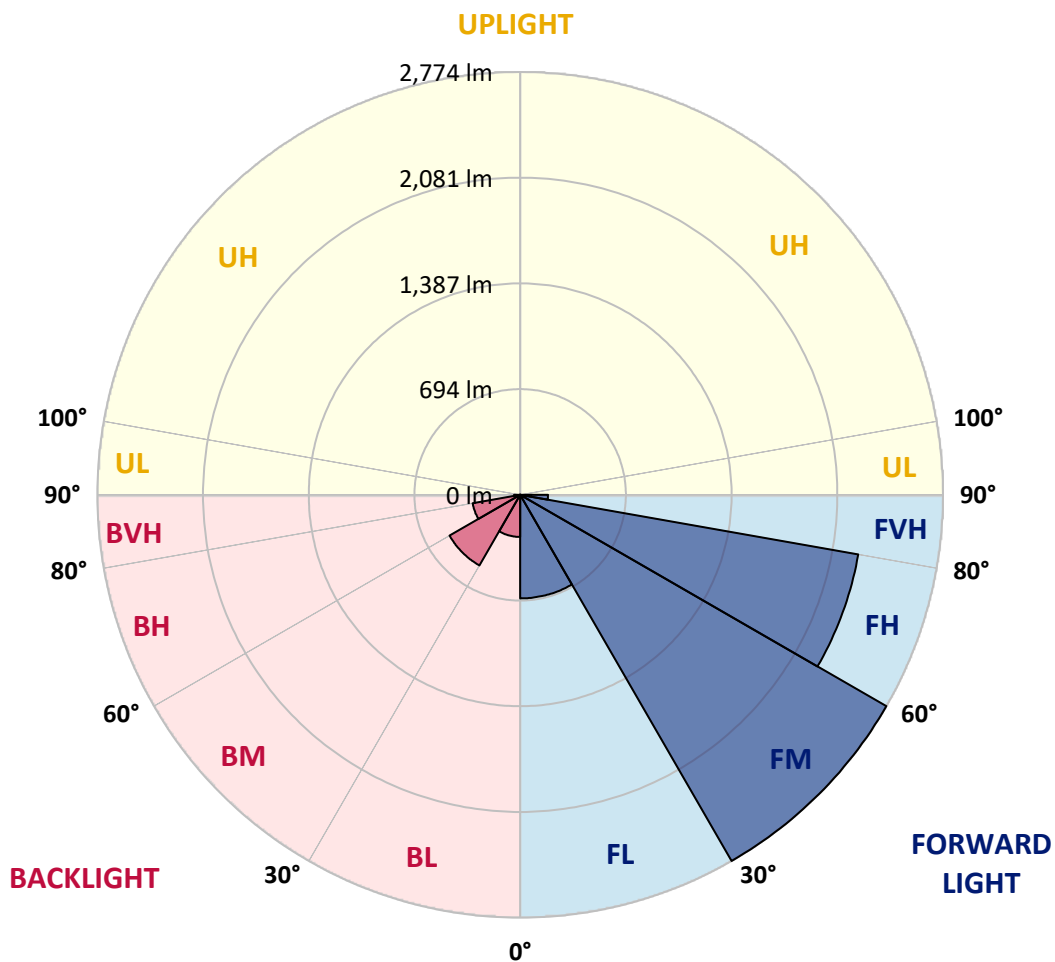
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLL-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	679.6	9.6			
FM (30°-60°)	2774.2	39.3			
FH (60°-80°)	2252.4	31.9			G2/5000
FVH (80°-90°)	183.1	2.6			G2/225
BL (0°-30°)	276.3	3.9	B1/500		
BM (30°-60°)	535.1	7.6	B1/1000		
BH (60°-80°)	316.6	4.5	B1/500		G1/500
BVH (80°-90°)	39.9	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°	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2
2.5°	2477.3	2516.9	2594.1	2651.9	2722.1	2738.4	2760.9	2738.8	2699.6	2647.6	2630.6
5°	2329.5	2414.1	2601.5	2766.3	2913.0	2981.3	3000.3	2944.0	2830.4	2681.0	2589.8
7.5°	2092.5	2212.8	2466.5	2709.3	2925.4	3053.0	3049.9	2919.2	2710.1	2466.9	2320.6
10°	1888.1	2025.4	2316.3	2587.9	2817.2	2940.9	2893.2	2726.0	2476.6	2196.5	2037.8
12.5°	1773.6	1908.2	2203.5	2476.2	2667.8	2710.5	2674.0	2510.3	2275.2	1992.0	1853.2
15°	1753.8	1901.6	2158.5	2380.4	2487.8	2450.6	2407.1	2333.8	2167.8	1926.1	1781.4
17.5°	1839.6	2002.5	2210.1	2313.6	2295.4	2230.6	2218.2	2226.3	2186.4	1999.4	1832.6
20°	2004.1	2199.6	2333.0	2282.2	2149.1	2059.9	2063.0	2187.6	2305.9	2185.2	1994.8
22.5°	2234.9	2457.9	2510.3	2298.9	2087.5	1981.6	2007.2	2208.9	2496.3	2456.8	2213.5
25°	2533.6	2736.9	2699.2	2359.4	2093.7	1991.3	2011.8	2282.6	2721.3	2728.3	2484.3
27.5°	2823.0	3011.5	2857.9	2439.7	2119.3	2014.1	2041.3	2398.6	2936.3	3023.2	2793.9
30°	3048.8	3179.9	2920.7	2513.0	2169.7	2058.8	2092.5	2508.8	3034.0	3222.2	3032.1
32.5°	3235.7	3330.0	3020.8	2603.8	2262.4	2129.0	2188.3	2642.6	3174.8	3411.5	3265.2
35°	3474.7	3501.5	3145.4	2705.1	2405.6	2251.2	2324.9	2773.7	3309.1	3602.7	3494.9
37.5°	3754.8	3720.3	3262.9	2843.5	2590.6	2442.4	2503.3	2917.6	3419.6	3819.6	3729.6
40°	4031.8	3948.8	3410.3	3058.5	2860.6	2667.8	2740.0	3071.3	3522.8	4036.8	3958.9
42.5°	4267.3	4144.3	3555.8	3294.7	3112.0	2916.5	3002.6	3226.0	3621.4	4222.3	4157.9
45°	4441.4	4288.6	3694.3	3521.7	3458.4	3247.0	3287.7	3403.3	3728.0	4377.0	4321.6
47.5°	4597.0	4433.7	3851.0	3750.5	3761.4	3676.8	3611.3	3609.7	3853.7	4503.5	4476.4
50°	4805.3	4635.0	4019.4	3986.4	4216.1	4159.8	4015.1	3850.6	4012.8	4647.0	4643.9
52.5°	5092.4	4953.9	4225.0	4240.5	4640.5	4677.3	4498.1	4140.0	4261.8	4910.5	4891.8
55°	5431.8	5351.1	4505.1	4532.6	5161.1	5187.4	5009.4	4502.0	4628.0	5291.8	5240.2
57.5°	5696.8	5679.7	4812.3	4883.3	5549.8	5668.5	5504.8	4920.9	5040.8	5613.0	5483.4
60°	5802.3	5884.9	5139.3	5237.1	5909.4	6040.9	5897.4	5289.1	5406.6	5746.1	5466.7
62.5°	5745.3	5929.9	5487.7	5479.6	5989.7	6131.3	6030.4	5493.9	5677.8	5608.7	5190.2
65°	5481.9	5768.2	5689.8	5417.1	5715.0	5726.7	5694.1	5402.4	5741.8	5174.6	4655.6
67.5°	4908.1	5320.1	5423.7	4881.7	4974.1	4898.4	4843.7	4901.1	5408.2	4524.1	3912.7
70°	3997.6	4617.6	4667.2	3904.5	3862.6	3811.8	3702.8	4018.2	4749.8	3707.9	3104.6
72.5°	2939.4	3591.1	3743.6	2863.7	2669.8	2680.2	2594.1	3028.2	3861.9	2754.3	2317.9
75°	2011.0	2600.3	2928.9	1998.2	1765.5	1769.7	1758.9	2145.7	3075.9	1916.0	1734.4
77.5°	1469.1	1857.8	2208.9	1343.4	1304.2	1280.2	1274.4	1501.3	2358.2	1391.1	1346.9
80°	1178.9	1372.5	1483.8	931.0	1001.3	999.3	967.1	1032.3	1540.1	1017.5	1007.5
82.5°	817.8	1054.8	1202.2	729.7	675.8	664.5	672.3	768.9	1088.5	695.6	661.4
85°	431.4	700.6	1190.6	646.7	401.1	320.0	398.0	629.6	943.1	368.5	322.8
87.5°	55.1	202.5	788.3	258.0	158.3	85.3	188.9	354.6	605.6	75.3	65.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2
2.5°	2586.7	2535.1	2467.6	2405.2	2340.4	2276.0	2191.8	2139.1	2102.6	2095.6	2080.1
5°	2523.9	2352.4	2222.9	2110.7	2009.1	1865.6	1786.0	1720.1	1684.8	1681.3	1672.8
7.5°	2234.1	1997.5	1822.5	1663.8	1519.9	1403.9	1275.9	1216.2	1191.7	1197.5	1203.4
10°	1932.7	1668.1	1467.2	1305.0	1178.2	1080.4	977.6	908.2	860.0	850.3	848.4
12.5°	1712.3	1422.2	1227.0	1112.6	1014.4	922.5	813.5	731.6	669.2	647.8	633.5
15°	1619.2	1301.9	1097.5	974.1	865.9	749.1	647.8	562.1	504.7	486.1	475.6
17.5°	1639.0	1268.5	1008.2	850.3	711.9	590.0	462.4	389.1	354.6	345.6	345.6
20°	1743.0	1262.3	934.5	736.3	563.7	422.5	317.7	275.8	264.6	263.4	266.5
22.5°	1888.8	1284.1	879.4	637.4	438.0	308.4	247.5	232.0	226.9	228.1	231.6
25°	2106.1	1357.4	839.5	549.3	343.7	252.5	220.7	211.4	209.1	212.2	216.5
27.5°	2363.7	1430.7	814.7	483.0	290.2	230.8	209.9	200.2	201.7	205.6	209.5
30°	2589.8	1490.8	775.5	435.6	273.5	232.0	209.9	196.7	195.1	195.9	197.1
32.5°	2792.7	1531.6	729.7	390.6	235.9	206.0	195.9	194.0	185.4	182.3	182.7
35°	2967.7	1531.6	702.2	364.3	211.4	182.7	166.4	156.7	152.5	152.8	157.1
37.5°	3136.4	1500.9	688.6	349.5	198.2	173.8	159.4	150.9	145.1	143.9	144.7
40°	3285.4	1456.3	673.1	343.3	188.1	168.4	154.8	147.8	141.6	139.7	140.0
42.5°	3404.9	1420.2	656.0	335.2	181.9	164.5	151.7	145.5	138.5	136.6	136.2
45°	3534.1	1408.2	633.5	318.9	185.0	164.9	150.9	144.3	137.3	135.0	134.2
47.5°	3704.4	1445.8	610.2	299.5	191.6	166.8	152.1	144.3	136.9	135.0	134.2
50°	3918.9	1534.3	580.7	271.2	185.0	172.2	151.7	143.1	136.9	135.0	133.4
52.5°	4194.3	1653.8	541.9	238.6	181.2	185.4	150.9	140.8	135.0	132.3	129.6
55°	4529.1	1751.5	495.8	211.8	172.2	181.9	149.7	138.1	131.9	128.0	125.7
57.5°	4774.3	1786.8	436.4	194.4	159.8	176.1	148.2	134.6	128.0	124.9	121.8
60°	4725.8	1718.5	386.4	183.5	152.5	159.1	147.0	131.5	124.5	122.2	119.5
62.5°	4337.5	1540.1	354.2	178.4	147.8	145.1	148.2	128.4	121.4	119.1	118.3
65°	3755.2	1276.7	341.4	177.3	143.9	136.9	137.7	124.9	117.9	116.0	115.2
67.5°	3097.6	1030.3	330.1	181.2	138.9	131.1	127.2	120.3	114.4	112.5	110.9
70°	2442.8	856.9	325.1	178.8	132.7	125.3	121.0	115.2	110.2	108.2	107.1
72.5°	1967.2	723.9	322.4	176.5	124.5	117.5	113.7	108.6	103.2	102.4	101.3
75°	1664.6	569.1	295.2	169.1	115.2	108.2	105.5	100.9	95.4	95.4	94.7
77.5°	1284.1	411.6	245.6	149.7	105.5	97.8	95.4	91.9	85.7	86.9	86.5
80°	948.5	268.4	192.0	124.1	93.5	86.1	85.0	81.5	74.9	76.4	76.4
82.5°	649.8	176.1	138.1	101.6	79.9	72.9	72.9	69.4	62.1	62.8	65.2
85°	326.3	121.0	103.2	78.8	62.1	58.6	58.6	55.9	48.5	48.9	52.0
87.5°	99.3	72.9	68.3	56.3	44.6	43.8	41.9	40.0	35.3	34.9	36.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2
2.5°	2056.4	2034.3	2007.6	1948.6	1928.8	1927.6	1945.5	1926.9	1962.6	1947.4	1964.1
5°	1658.4	1636.7	1606.8	1531.6	1485.8	1454.7	1440.0	1396.6	1428.0	1405.1	1424.1
7.5°	1219.7	1224.7	1204.9	1160.7	1061.0	1011.0	981.5	955.1	978.0	975.7	1012.1
10°	857.3	870.9	856.9	812.3	731.6	704.1	709.5	720.0	749.9	765.4	821.6
12.5°	617.2	616.4	607.5	567.5	514.4	517.5	539.6	557.8	585.4	601.7	659.1
15°	460.9	453.9	450.0	417.4	387.2	393.8	404.6	406.6	424.0	433.7	480.3
17.5°	348.4	351.9	356.1	332.8	310.0	305.7	297.2	286.7	291.7	293.7	316.9
20°	276.6	290.6	301.0	284.7	261.5	249.1	238.2	231.2	231.2	230.8	237.4
22.5°	241.7	251.8	263.0	251.8	230.8	220.0	213.8	208.3	207.5	207.5	213.8
25°	222.7	230.0	240.9	233.1	217.6	209.5	203.7	196.7	194.0	193.2	197.5
27.5°	213.4	216.5	221.9	214.9	201.7	197.8	196.3	190.1	186.6	184.7	188.9
30°	197.5	196.7	197.1	190.1	179.6	179.2	181.9	183.1	181.9	181.6	188.1
32.5°	182.7	181.2	180.8	174.6	164.9	162.5	164.9	167.2	169.9	173.8	181.6
35°	164.1	168.0	170.3	164.9	153.2	146.3	143.5	139.3	136.9	136.9	145.9
37.5°	149.4	158.3	161.8	156.7	143.9	134.2	129.6	128.8	129.2	130.7	139.3
40°	144.3	150.9	154.0	149.0	136.2	127.2	124.5	123.8	124.5	126.9	135.4
42.5°	141.2	145.9	145.5	139.3	128.8	122.6	121.0	120.3	121.0	123.4	132.7
45°	138.5	141.6	138.5	131.1	121.4	118.3	118.7	118.3	119.1	121.4	130.3
47.5°	136.2	137.3	133.4	126.1	116.0	115.2	116.8	117.9	118.7	120.6	130.0
50°	132.7	132.7	129.2	121.4	111.3	111.7	113.7	116.4	116.8	119.1	126.5
52.5°	128.4	128.0	125.7	118.3	107.5	108.6	108.6	111.7	112.5	115.2	123.0
55°	124.9	124.1	123.0	116.0	104.0	105.9	104.7	105.9	107.8	110.6	119.1
57.5°	121.8	120.3	120.3	114.1	101.3	102.0	99.3	100.9	103.2	105.5	114.4
60°	118.7	117.2	117.9	111.3	97.0	96.2	95.0	98.1	98.9	101.6	110.6
62.5°	115.2	114.1	114.4	108.2	93.9	91.9	91.9	94.7	95.0	98.9	107.5
65°	112.5	110.9	110.6	105.1	90.4	88.1	89.2	90.4	91.2	95.0	103.2
67.5°	109.8	106.7	106.7	102.4	86.5	84.2	86.5	86.1	87.3	90.8	97.4
70°	106.3	102.0	102.4	100.5	82.6	79.9	81.9	81.5	82.2	84.6	91.2
72.5°	100.9	97.4	98.1	97.4	78.8	74.9	75.6	75.6	75.6	77.6	84.6
75°	93.9	91.2	93.5	95.4	74.1	68.7	69.4	69.4	68.3	69.4	78.0
77.5°	85.3	83.8	91.6	88.8	68.7	62.1	62.1	61.3	59.0	60.5	69.8
80°	76.0	74.9	84.6	74.5	62.5	53.9	53.1	51.2	48.9	50.0	59.4
82.5°	66.3	65.2	71.0	57.0	53.9	44.6	42.7	39.2	36.9	38.0	46.6
85°	54.3	54.3	54.7	43.1	41.1	34.1	31.8	27.2	24.4	25.2	33.4
87.5°	38.8	40.0	36.9	29.5	24.4	19.0	17.5	14.7	12.4	14.4	17.5
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°	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2	2384.2
2.5°	2049.4	2092.1	2140.6	2202.7	2255.8	2343.1	2426.9	2477.3
5°	1532.3	1603.3	1691.8	1805.4	1911.3	2070.4	2228.3	2329.5
7.5°	1096.7	1172.7	1268.2	1410.1	1559.9	1762.8	1971.5	2092.5
10°	907.4	985.3	1065.7	1161.5	1284.1	1504.8	1751.5	1888.1
12.5°	750.6	834.1	920.6	1021.4	1135.1	1332.2	1616.5	1773.6
15°	574.5	667.6	769.7	897.3	1039.7	1267.4	1583.2	1753.8
17.5°	393.8	497.7	623.0	780.5	954.7	1246.4	1642.9	1839.6
20°	271.2	346.8	480.6	665.3	874.8	1243.7	1757.7	2004.1
22.5°	226.9	260.7	358.4	559.4	814.7	1277.1	1935.8	2234.9
25°	209.9	230.0	286.3	467.5	770.8	1353.9	2181.0	2533.6
27.5°	199.8	218.0	259.9	407.3	736.3	1443.1	2419.5	2823.0
30°	203.7	222.3	252.5	376.7	689.4	1517.6	2631.3	3048.8
32.5°	183.5	191.6	216.5	349.5	655.6	1580.1	2816.8	3235.7
35°	156.3	170.7	193.2	336.7	656.4	1621.9	3018.9	3474.7
37.5°	149.0	163.3	179.6	332.1	665.3	1666.6	3250.9	3754.8
40°	144.3	157.5	171.5	329.4	673.8	1707.3	3478.2	4031.8
42.5°	141.2	153.2	170.7	320.0	678.1	1743.8	3665.2	4267.3
45°	140.8	153.2	173.8	310.7	684.7	1782.9	3821.9	4441.4
47.5°	141.2	158.3	168.0	299.5	684.7	1848.5	4005.8	4597.0
50°	139.7	166.8	161.8	283.6	668.8	1972.6	4257.9	4805.3
52.5°	138.9	165.6	149.7	259.1	641.3	2169.7	4581.1	5092.4
55°	136.9	159.8	141.2	222.7	609.1	2384.6	4927.1	5431.8
57.5°	135.0	141.6	136.6	190.9	559.4	2535.9	5165.3	5696.8
60°	151.3	123.8	132.7	175.3	493.1	2577.4	5156.0	5802.3
62.5°	140.0	116.0	127.6	171.9	446.5	2461.0	4917.8	5745.3
65°	109.8	110.9	122.6	181.9	434.1	2152.6	4495.8	5481.9
67.5°	100.5	105.9	117.5	194.7	435.3	1723.6	3865.0	4908.1
70°	94.7	100.5	111.7	201.3	438.4	1284.8	3055.7	3997.6
72.5°	88.1	93.1	105.1	202.5	418.2	933.4	2355.1	2939.4
75°	80.3	85.0	95.8	176.5	346.4	647.5	1801.6	2011.0
77.5°	71.4	74.9	84.2	136.2	257.2	414.3	1352.3	1469.1
80°	60.9	62.8	70.6	99.7	176.1	259.1	1069.9	1178.9
82.5°	48.9	49.7	54.7	74.9	114.4	166.4	716.5	817.8
85°	34.5	34.5	37.6	54.3	78.0	105.5	389.1	431.4
87.5°	16.3	16.7	16.7	29.9	40.7	53.5	89.6	55.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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