

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: P191299

Luminaire Tested: **GLEON-AF-01-LED-E1-SLL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191299
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-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA 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: 6146.9 lumens
Efficiency: N/A
Efficacy: 91.7 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

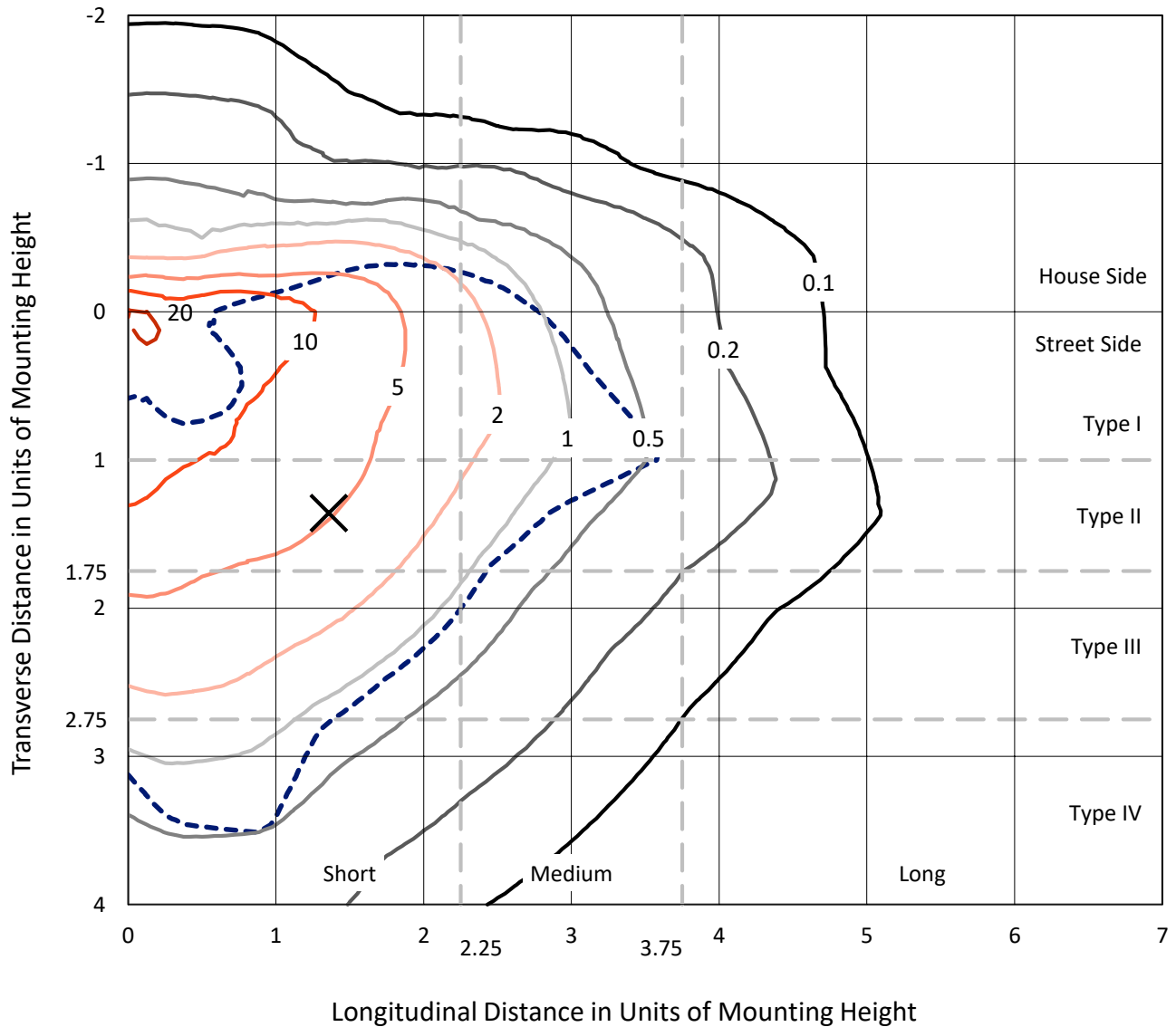
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

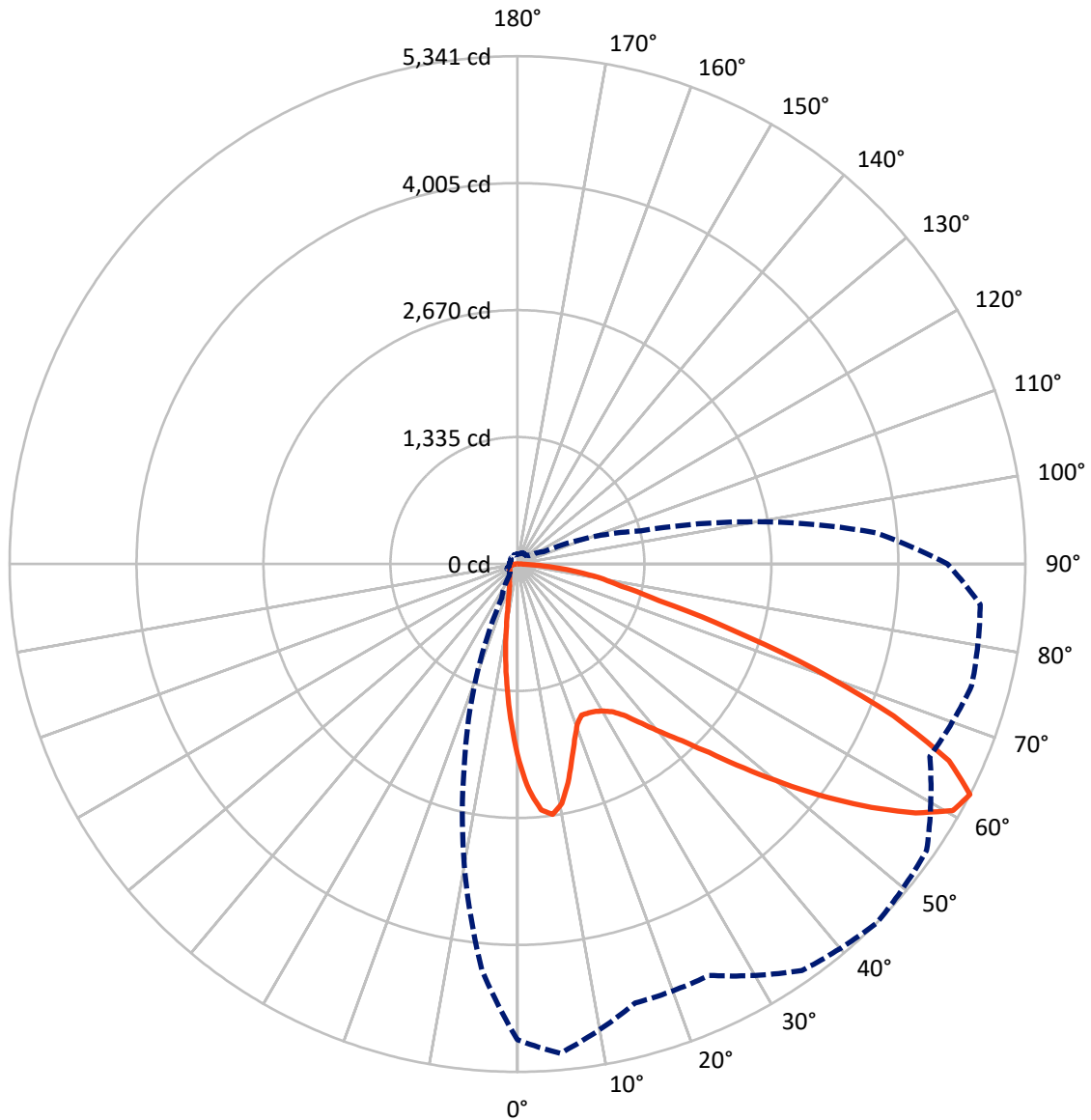
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.4 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	1017.2	0.0	1017.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5129.7	0.0	5129.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	6146.9	0.0	6146.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	2.5
10°-20°	277.2	4.5
20°-30°	404.2	6.6
30°-40°	622.5	10.1
40°-50°	916.2	14.9
50°-60°	1343.8	21.9
60°-70°	1502.2	24.4
70°-80°	735.5	12.0
80°-90°	194.2	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°	6146.9	100.0
0°-180°	6146.9	100.0

Coefficient of Utilization



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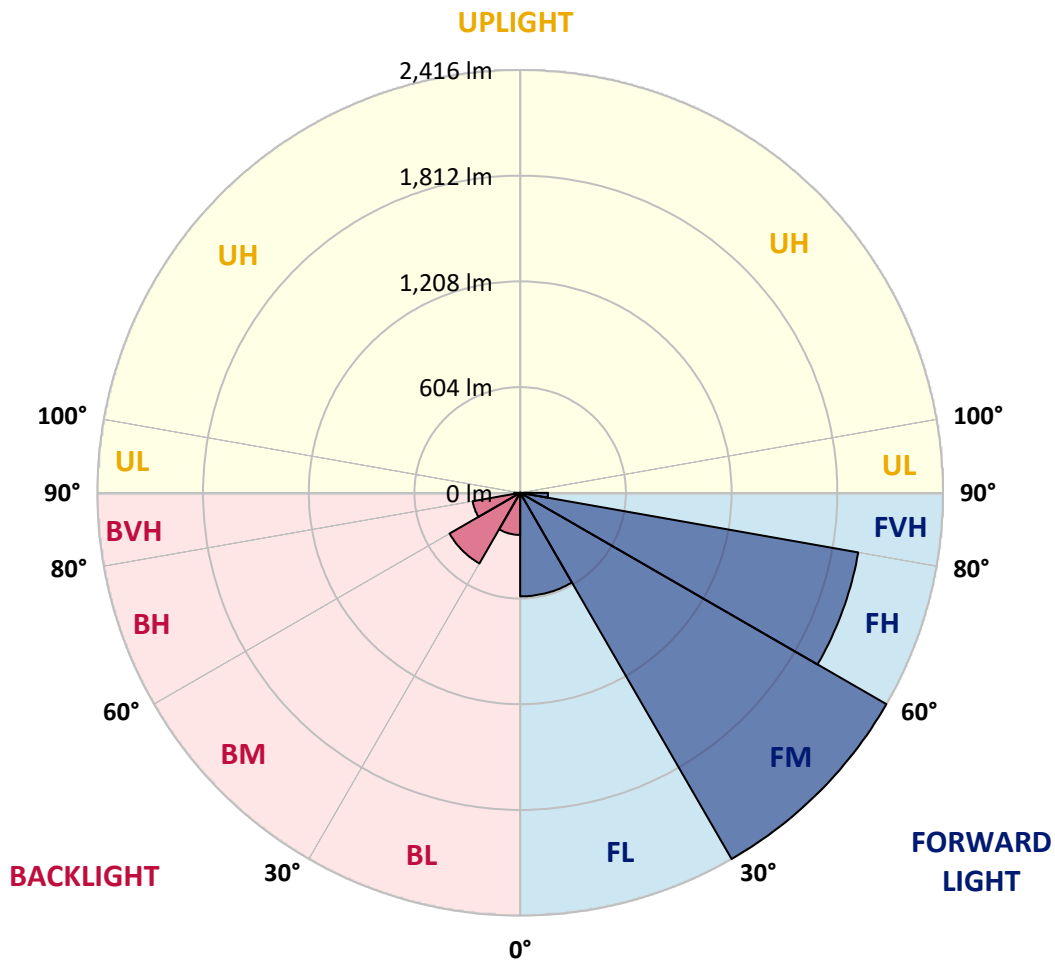
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLL-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.9	9.6			
FM	(30°-60°)	2416.4	39.3			
FH	(60°-80°)	1961.9	31.9			G2/5000
FVH	(80°-90°)	159.5	2.6			G2/225
BL	(0°-30°)	240.7	3.9	B1/500		
BM	(30°-60°)	466.1	7.6	B1/1000		
BH	(60°-80°)	275.8	4.5	B1/500		G1/500
BVH	(80°-90°)	34.7	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	2157.8	2192.3	2259.6	2309.9	2371.1	2385.2	2404.9	2385.6	2351.5	2306.2	2291.3
5°	2029.1	2102.8	2265.9	2409.6	2537.3	2596.8	2613.3	2564.3	2465.3	2335.3	2255.8
7.5°	1822.7	1927.4	2148.4	2359.9	2548.2	2659.3	2656.6	2542.7	2360.6	2148.7	2021.4
10°	1644.6	1764.2	2017.7	2254.2	2453.9	2561.7	2520.0	2374.5	2157.2	1913.2	1775.0
12.5°	1544.9	1662.2	1919.3	2156.9	2323.7	2361.0	2329.2	2186.6	1981.8	1735.1	1614.2
15°	1527.7	1656.4	1880.1	2073.4	2167.0	2134.5	2096.7	2032.8	1888.2	1677.7	1551.6
17.5°	1602.4	1744.2	1925.0	2015.2	1999.4	1943.0	1932.1	1939.2	1904.4	1741.6	1596.2
20°	1745.6	1915.9	2032.2	1987.9	1872.0	1794.3	1797.0	1905.5	2008.5	1903.4	1737.5
22.5°	1946.7	2140.9	2186.6	2002.4	1818.3	1726.0	1748.3	1924.1	2174.4	2139.9	1928.1
25°	2206.8	2383.9	2351.2	2055.1	1823.7	1734.4	1752.4	1988.2	2370.4	2376.5	2164.0
27.5°	2459.0	2623.2	2489.4	2125.1	1846.0	1754.4	1778.1	2089.3	2557.6	2633.3	2433.6
30°	2655.6	2769.8	2544.1	2188.9	1889.9	1793.2	1822.7	2185.2	2642.8	2806.7	2641.1
32.5°	2818.4	2900.6	2631.2	2268.0	1970.6	1854.4	1906.2	2301.8	2765.4	2971.6	2844.1
35°	3026.6	3049.9	2739.8	2356.2	2095.3	1960.9	2025.0	2416.0	2882.4	3138.1	3044.2
37.5°	3270.6	3240.5	2842.1	2476.9	2256.5	2127.4	2180.5	2541.4	2978.6	3327.0	3248.6
40°	3511.8	3439.6	2970.5	2664.1	2491.7	2323.7	2386.6	2675.2	3068.5	3516.2	3448.3
42.5°	3717.0	3609.8	3097.2	2869.8	2710.6	2540.4	2615.4	2810.0	3154.4	3677.7	3621.7
45°	3868.7	3735.5	3217.9	3067.5	3012.4	2828.3	2863.8	2964.4	3247.3	3812.5	3764.3
47.5°	4004.1	3861.9	3354.4	3266.9	3276.3	3202.7	3145.6	3144.2	3356.7	3922.7	3899.1
50°	4185.6	4037.3	3501.0	3472.3	3672.3	3623.4	3497.3	3354.1	3495.3	4047.7	4045.1
52.5°	4435.6	4315.0	3680.1	3693.7	4042.0	4074.1	3918.0	3606.1	3712.2	4277.2	4261.0
55°	4731.4	4661.1	3924.0	3948.1	4495.5	4518.5	4363.4	3921.4	4031.2	4609.3	4564.4
57.5°	4962.1	4947.3	4191.7	4253.5	4834.1	4937.5	4794.9	4286.3	4390.7	4889.1	4776.3
60°	5054.0	5126.0	4476.5	4561.7	5147.3	5261.9	5136.8	4607.0	4709.4	5005.0	4761.7
62.5°	5004.4	5165.2	4779.9	4772.9	5217.3	5340.6	5252.8	4785.4	4945.6	4885.4	4520.8
65°	4774.9	5024.3	4956.0	4718.5	4978.0	4988.1	4959.8	4705.7	5001.3	4507.3	4055.2
67.5°	4275.1	4634.0	4724.2	4252.2	4332.6	4266.7	4219.1	4269.1	4710.7	3940.6	3408.1
70°	3482.1	4022.0	4065.3	3401.0	3364.5	3320.3	3225.3	3500.0	4137.3	3229.7	2704.3
72.5°	2560.3	3128.0	3260.8	2494.4	2325.5	2334.6	2259.6	2637.7	3363.9	2399.1	2019.0
75°	1751.7	2265.0	2551.1	1740.6	1537.8	1541.5	1532.1	1868.9	2679.2	1668.9	1510.8
77.5°	1279.6	1618.2	1924.1	1170.2	1136.0	1115.1	1110.0	1307.6	2054.1	1211.7	1173.2
80°	1026.9	1195.5	1292.5	811.0	872.2	870.4	842.4	899.2	1341.5	886.3	877.5
82.5°	712.3	918.7	1047.2	635.6	588.6	578.8	585.5	669.7	948.2	605.9	576.1
85°	375.7	610.3	1037.1	563.2	349.4	278.8	346.7	548.4	821.4	321.0	281.1
87.5°	48.0	176.4	686.6	224.7	137.9	74.4	164.6	308.8	527.4	65.6	57.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	2253.2	2208.2	2149.4	2095.0	2038.5	1982.5	1909.1	1863.2	1831.4	1825.4	1811.9
5°	2198.4	2049.1	1936.1	1838.5	1750.0	1625.0	1555.7	1498.3	1467.5	1464.5	1457.1
7.5°	1946.0	1739.8	1587.5	1449.3	1323.9	1222.8	1111.3	1059.4	1038.1	1043.1	1048.2
10°	1683.5	1453.0	1278.0	1136.7	1026.2	941.0	851.5	791.0	749.1	740.7	739.0
12.5°	1491.5	1238.8	1068.8	969.1	883.6	803.5	708.6	637.3	582.9	564.3	551.8
15°	1410.4	1134.0	955.9	848.4	754.2	652.5	564.3	489.6	439.6	423.4	414.3
17.5°	1427.6	1105.0	878.2	740.7	620.0	513.9	402.7	338.9	308.8	301.1	301.1
20°	1518.2	1099.6	814.0	641.4	491.0	368.0	276.7	240.3	230.5	229.4	232.1
22.5°	1645.2	1118.5	766.0	555.2	381.5	268.6	215.5	202.0	197.6	198.7	201.7
25°	1834.5	1182.3	731.2	478.4	299.4	219.9	192.3	184.1	182.1	184.8	188.5
27.5°	2058.9	1246.2	709.6	420.7	252.8	201.0	182.8	174.3	175.7	179.1	182.5
30°	2255.8	1298.5	675.5	379.5	238.2	202.0	182.8	171.3	170.0	170.6	171.7
32.5°	2432.6	1334.0	635.6	340.2	205.4	179.4	170.6	169.0	161.5	158.9	159.2
35°	2585.0	1334.0	611.6	317.3	184.1	159.2	145.0	136.6	132.8	133.1	136.9
37.5°	2732.0	1307.3	599.8	304.4	172.7	151.4	138.9	131.4	126.3	125.3	126.0
40°	2861.7	1268.5	586.3	299.0	163.9	146.7	134.8	128.8	123.4	121.6	121.9
42.5°	2965.7	1237.1	571.4	292.0	158.5	143.3	132.2	126.7	120.6	119.0	118.6
45°	3078.3	1226.6	551.8	277.7	161.2	143.6	131.4	125.7	119.6	117.6	116.9
47.5°	3226.7	1259.4	531.5	260.9	166.9	145.3	132.5	125.7	119.3	117.6	116.9
50°	3413.5	1336.4	505.8	236.2	161.2	150.1	132.2	124.7	119.3	117.6	116.2
52.5°	3653.5	1440.5	472.1	207.8	157.8	161.5	131.4	122.7	117.6	115.2	112.8
55°	3945.0	1525.6	431.9	184.5	150.1	158.5	130.4	120.3	114.9	111.5	109.5
57.5°	4158.6	1556.4	380.1	169.3	139.2	153.4	129.1	117.2	111.5	108.8	106.1
60°	4116.4	1496.9	336.6	159.8	132.8	138.5	128.1	114.6	108.4	106.5	104.0
62.5°	3778.1	1341.5	308.5	155.4	128.8	126.3	129.1	111.8	105.8	103.7	103.0
65°	3270.9	1112.0	297.4	154.5	125.3	119.3	120.0	108.8	102.7	101.1	100.4
67.5°	2698.1	897.4	287.6	157.8	121.0	114.2	110.8	104.8	99.6	98.0	96.7
70°	2127.7	746.4	283.2	155.8	115.6	109.1	105.5	100.4	96.0	94.3	93.3
72.5°	1713.5	630.5	280.8	153.7	108.4	102.4	99.0	94.6	89.9	89.2	88.2
75°	1449.9	495.7	257.2	147.3	100.4	94.3	91.9	87.9	83.2	83.2	82.4
77.5°	1118.5	358.5	213.9	130.4	91.9	85.1	83.2	80.1	74.7	75.7	75.4
80°	826.1	233.8	167.3	108.1	81.4	75.0	74.0	71.0	65.3	66.6	66.6
82.5°	566.0	153.4	120.3	88.5	69.6	63.5	63.5	60.5	54.1	54.7	56.8
85°	284.2	105.5	89.9	68.6	54.1	51.0	51.0	48.7	42.2	42.6	45.3
87.5°	86.5	63.5	59.4	49.0	38.9	38.2	36.5	34.8	30.8	30.4	32.1
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°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	1791.2	1772.0	1748.6	1697.3	1680.1	1679.1	1694.6	1678.4	1709.5	1696.3	1710.8
5°	1444.5	1425.6	1399.6	1334.0	1294.1	1267.1	1254.3	1216.5	1243.8	1223.9	1240.4
7.5°	1062.3	1066.7	1049.5	1011.0	924.1	880.6	854.9	832.0	851.8	849.9	881.6
10°	746.8	758.6	746.4	707.6	637.3	613.3	618.1	627.2	653.2	666.7	715.7
12.5°	537.6	536.9	529.2	494.4	448.1	450.8	470.0	485.9	509.9	524.1	574.1
15°	401.4	395.4	392.0	363.6	337.3	343.0	352.4	354.1	369.3	377.8	418.3
17.5°	303.4	306.5	310.2	289.9	270.0	266.3	258.8	249.7	254.1	255.8	276.1
20°	240.9	253.1	262.2	248.1	227.7	217.0	207.5	201.4	201.4	201.0	206.8
22.5°	210.5	219.3	229.1	219.3	201.0	191.6	186.2	181.5	180.8	180.8	186.2
25°	194.0	200.4	209.8	203.1	189.6	182.5	177.4	171.3	169.0	168.3	172.0
27.5°	185.9	188.5	193.2	187.2	175.7	172.4	170.9	165.6	162.5	160.8	164.6
30°	172.0	171.3	171.7	165.6	156.4	156.1	158.5	159.5	158.5	158.1	163.9
32.5°	159.2	157.8	157.4	152.0	143.6	141.6	143.6	145.7	148.0	151.4	158.1
35°	142.9	146.3	148.3	143.6	133.5	127.4	125.0	121.3	119.3	119.3	127.1
37.5°	130.1	137.9	140.9	136.6	125.3	116.9	112.8	112.2	112.5	113.9	121.3
40°	125.7	131.4	134.1	129.7	118.6	110.8	108.4	107.8	108.4	110.5	117.9
42.5°	123.0	127.1	126.7	121.3	112.2	106.8	105.5	104.8	105.5	107.4	115.6
45°	120.6	123.4	120.6	114.2	105.8	103.0	103.4	103.0	103.7	105.8	113.5
47.5°	118.6	119.6	116.2	109.9	101.1	100.4	101.7	102.7	103.4	105.1	113.2
50°	115.6	115.6	112.5	105.8	97.0	97.3	99.0	101.4	101.7	103.7	110.2
52.5°	111.8	111.5	109.5	103.0	93.6	94.6	94.6	97.3	98.0	100.4	107.1
55°	108.8	108.1	107.1	101.1	90.5	92.3	91.2	92.3	93.9	96.3	103.7
57.5°	106.1	104.8	104.8	99.3	88.2	88.9	86.5	87.9	89.9	91.9	99.6
60°	103.4	102.1	102.7	97.0	84.5	83.8	82.8	85.5	86.1	88.5	96.3
62.5°	100.4	99.3	99.6	94.3	81.7	80.1	80.1	82.4	82.8	86.1	93.6
65°	98.0	96.7	96.3	91.6	78.8	76.7	77.7	78.8	79.4	82.8	89.9
67.5°	95.6	92.9	92.9	89.2	75.4	73.3	75.4	75.0	76.0	79.1	84.8
70°	92.6	88.9	89.2	87.6	72.0	69.6	71.3	71.0	71.6	73.7	79.4
72.5°	87.9	84.8	85.5	84.8	68.6	65.3	65.9	65.9	65.9	67.6	73.7
75°	81.7	79.4	81.4	83.2	64.5	59.8	60.5	60.5	59.4	60.5	67.9
77.5°	74.4	72.9	79.8	77.3	59.8	54.1	54.1	53.4	51.4	52.7	60.9
80°	66.2	65.3	73.7	64.9	54.4	47.0	46.3	44.6	42.6	43.6	51.7
82.5°	57.8	56.8	61.8	49.7	47.0	38.9	37.1	34.2	32.1	33.1	40.5
85°	47.3	47.3	47.7	37.5	35.8	29.8	27.7	23.6	21.3	22.0	29.1
87.5°	33.8	34.8	32.1	25.7	21.3	16.6	15.2	12.9	10.8	12.5	15.2
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°	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8	2076.8
2.5°	1785.2	1822.3	1864.5	1918.6	1964.9	2040.9	2113.9	2157.8
5°	1334.7	1396.5	1473.6	1572.6	1664.9	1803.4	1940.9	2029.1
7.5°	955.2	1021.5	1104.6	1228.3	1358.7	1535.4	1717.2	1822.7
10°	790.3	858.3	928.2	1011.7	1118.5	1310.7	1525.6	1644.6
12.5°	653.9	726.5	801.9	889.7	988.7	1160.3	1408.1	1544.9
15°	500.4	581.5	670.4	781.5	905.6	1104.0	1378.9	1527.7
17.5°	343.0	433.5	542.7	679.9	831.6	1085.7	1431.0	1602.4
20°	236.2	302.1	418.7	579.5	762.0	1083.3	1531.1	1745.6
22.5°	197.6	227.1	312.2	487.2	709.6	1112.4	1686.1	1946.7
25°	182.8	200.4	249.4	407.1	671.5	1179.3	1899.7	2206.8
27.5°	174.0	189.9	226.4	354.8	641.4	1257.0	2107.5	2459.0
30°	177.4	193.6	219.9	328.1	600.5	1321.9	2292.0	2655.6
32.5°	159.8	166.9	188.5	304.4	571.0	1376.3	2453.5	2818.4
35°	136.2	148.6	168.3	293.3	571.7	1412.8	2629.6	3026.6
37.5°	129.7	142.3	156.4	289.3	579.5	1451.7	2831.6	3270.6
40°	125.7	137.2	149.4	286.8	587.0	1487.2	3029.7	3511.8
42.5°	123.0	133.5	148.6	278.8	590.7	1518.9	3192.5	3717.0
45°	122.7	133.5	151.4	270.7	596.4	1553.0	3329.0	3868.7
47.5°	123.0	137.9	146.3	260.9	596.4	1610.1	3489.2	4004.1
50°	121.6	145.3	140.9	247.0	582.6	1718.3	3708.8	4185.6
52.5°	121.0	144.2	130.4	225.8	558.5	1889.9	3990.3	4435.6
55°	119.3	139.2	123.0	194.0	530.5	2077.1	4291.7	4731.4
57.5°	117.6	123.4	119.0	166.2	487.2	2208.9	4499.1	4962.1
60°	131.8	107.8	115.6	152.7	429.4	2245.1	4491.1	5054.0
62.5°	121.9	101.1	111.2	149.7	388.9	2143.7	4283.6	5004.4
65°	95.6	96.7	106.8	158.5	378.1	1875.1	3916.0	4774.9
67.5°	87.6	92.3	102.4	169.6	379.1	1501.3	3366.5	4275.1
70°	82.4	87.6	97.3	175.3	381.9	1119.1	2661.7	3482.1
72.5°	76.7	81.1	91.6	176.4	364.3	813.0	2051.4	2560.3
75°	70.0	74.0	83.5	153.7	301.8	564.0	1569.2	1751.7
77.5°	62.2	65.3	73.3	118.6	224.0	360.9	1177.9	1279.6
80°	53.1	54.7	61.5	86.8	153.4	225.8	931.9	1026.9
82.5°	42.6	43.3	47.7	65.3	99.6	145.0	624.1	712.3
85°	30.1	30.1	32.7	47.3	67.9	91.9	338.9	375.7
87.5°	14.2	14.5	14.5	26.0	35.5	46.6	78.1	48.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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