

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: P270049

Luminaire Tested: **GPC-AF-02-LED-E1-SLL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270049
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: GPC-AF-02-LED-E1-SLL-7027
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 9485 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

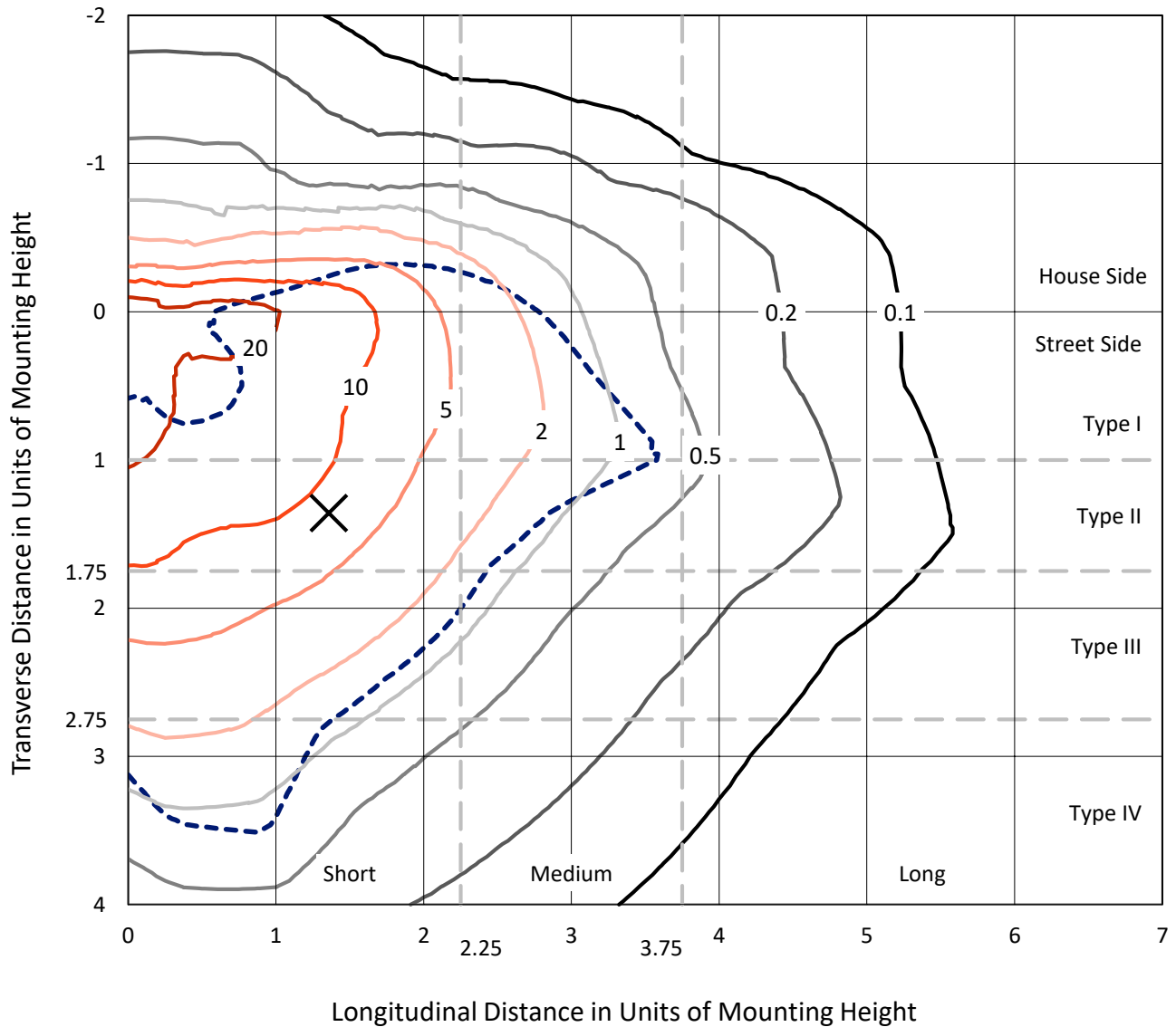
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

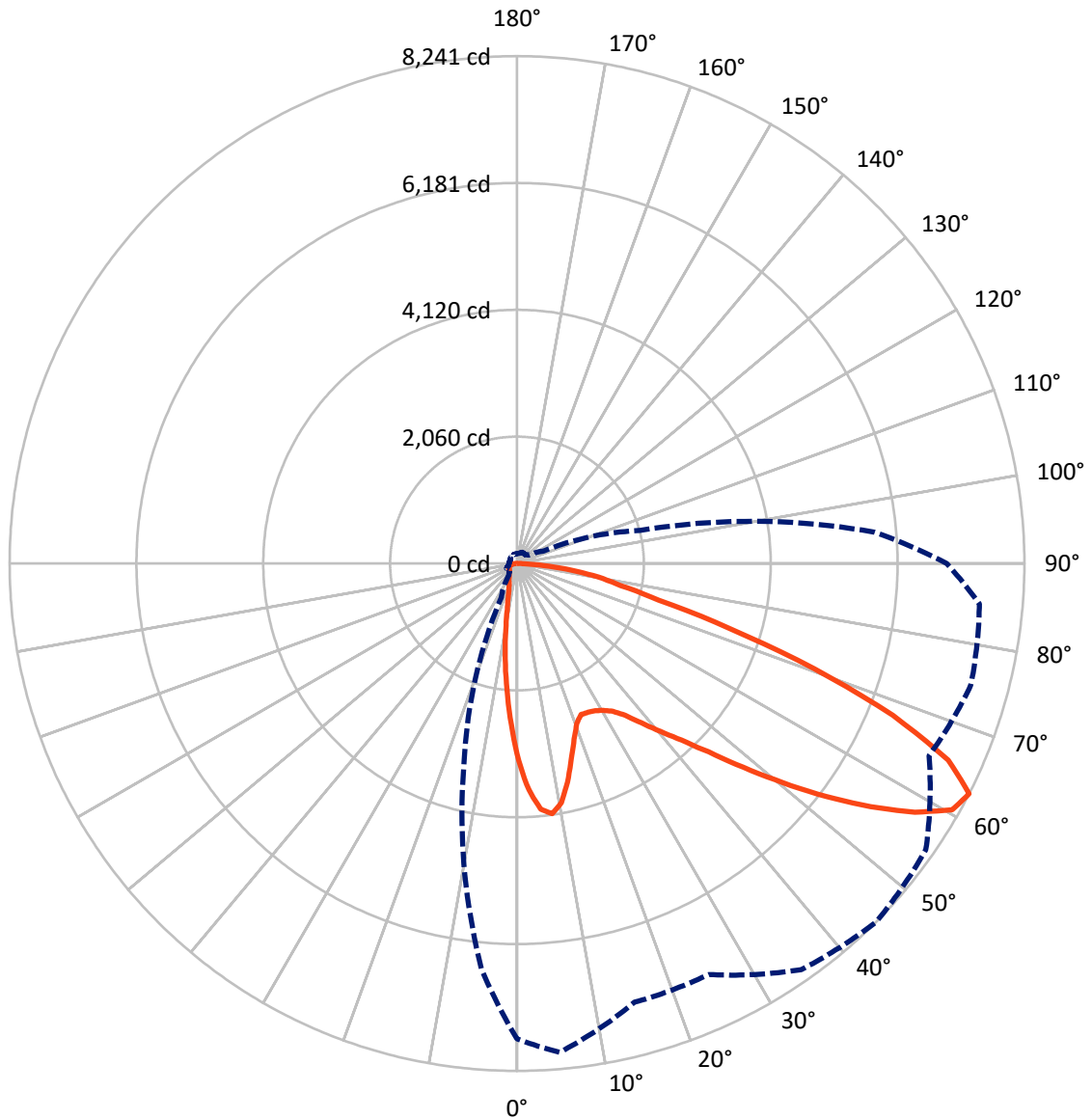
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 37.7 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	1569.6	0.0	1569.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7915.4	0.0	7915.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	9485.0	0.0	9485.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	2.5
10°-20°	427.8	4.5
20°-30°	623.7	6.6
30°-40°	960.6	10.1
40°-50°	1413.7	14.9
50°-60°	2073.6	21.9
60°-70°	2318.0	24.4
70°-80°	1134.9	12.0
80°-90°	299.6	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°	9485.0	100.0
0°-180°	9485.0	100.0



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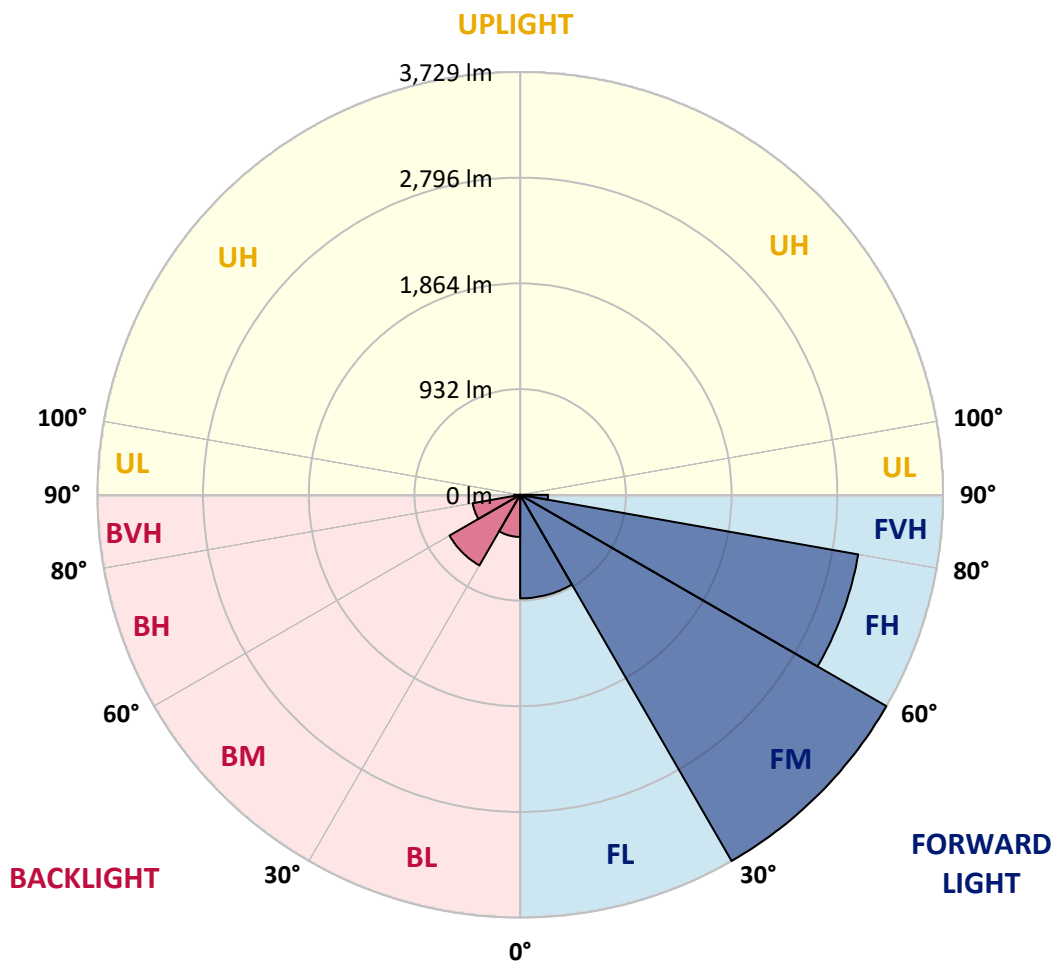
CATALOG NUMBER: GPC-AF-02-LED-E1-SLL-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	913.4	9.6			
FM	(30°-60°)	3728.7	39.3			
FH	(60°-80°)	3027.3	31.9			G2/5000
FVH	(80°-90°)	246.1	2.6			G3/500
BL	(0°-30°)	371.4	3.9	B1/500		
BM	(30°-60°)	719.2	7.6	B1/1000		
BH	(60°-80°)	425.5	4.5	B1/500		G1/500
BVH	(80°-90°)	53.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	3329.7	3382.8	3486.6	3564.4	3658.6	3680.5	3710.9	3681.2	3628.4	3558.5	3535.6
5°	3131.0	3244.7	3496.6	3718.2	3915.3	4007.0	4032.5	3956.9	3804.1	3603.5	3480.9
7.5°	2812.5	2974.1	3315.0	3641.5	3931.9	4103.5	4099.2	3923.5	3642.5	3315.6	3119.1
10°	2537.7	2722.3	3113.3	3478.2	3786.4	3952.8	3888.7	3663.8	3328.7	2952.2	2738.9
12.5°	2383.8	2564.8	2961.6	3328.1	3585.8	3643.0	3594.1	3374.0	3058.0	2677.4	2490.7
15°	2357.2	2555.9	2901.0	3199.4	3343.9	3293.7	3235.3	3136.8	2913.7	2588.7	2394.3
17.5°	2472.6	2691.5	2970.4	3109.7	3085.1	2998.1	2981.4	2992.3	2938.6	2687.3	2463.2
20°	2693.6	2956.3	3135.8	3067.4	2888.6	2768.7	2772.9	2940.2	3099.2	2937.1	2681.1
22.5°	3003.8	3303.6	3374.0	3089.8	2805.6	2663.4	2697.8	2968.9	3355.2	3302.1	2975.1
25°	3405.2	3678.5	3628.0	3171.1	2814.0	2676.4	2704.0	3067.9	3657.7	3667.1	3339.1
27.5°	3794.4	4047.7	3841.2	3279.2	2848.4	2707.1	2743.7	3223.8	3946.6	4063.4	3755.2
30°	4097.7	4274.0	3925.7	3377.6	2916.2	2767.0	2812.5	3371.9	4077.9	4330.8	4075.3
32.5°	4349.1	4475.7	4060.2	3499.6	3040.9	2861.6	2941.2	3551.8	4267.2	4585.3	4388.7
35°	4670.2	4706.2	4227.6	3635.8	3233.2	3025.8	3124.8	3728.1	4447.6	4842.4	4697.3
37.5°	5046.7	5000.2	4385.5	3821.8	3481.9	3282.8	3364.6	3921.6	4596.2	5133.8	5012.8
40°	5418.9	5307.4	4583.7	4110.7	3844.8	3585.8	3682.7	4128.0	4734.8	5425.8	5320.9
42.5°	5735.5	5570.2	4779.3	4428.3	4182.7	3919.9	4035.6	4335.9	4867.3	5675.0	5588.4
45°	5969.5	5764.2	4965.3	4733.3	4648.3	4364.1	4418.9	4574.3	5010.7	5883.0	5808.4
47.5°	6178.6	5959.1	5175.9	5041.0	5055.5	4941.8	4853.7	4851.7	5179.6	6053.0	6016.5
50°	6458.6	6229.7	5402.2	5358.0	5666.6	5591.1	5396.6	5175.4	5393.5	6245.9	6241.8
52.5°	6844.5	6658.3	5678.6	5699.4	6237.0	6286.6	6045.8	5564.5	5728.1	6599.9	6575.0
55°	7300.7	7192.3	6055.0	6092.0	6936.8	6972.3	6732.8	6051.0	6220.4	7112.5	7043.2
57.5°	7656.9	7633.8	6468.1	6563.5	7459.3	7618.7	7398.7	6614.0	6775.1	7544.2	7370.1
60°	7798.6	7909.8	6907.5	7038.9	7942.5	8119.3	7926.5	7108.8	7266.7	7723.1	7347.6
62.5°	7722.0	7970.2	7375.9	7364.8	8050.5	8240.8	8105.2	7384.2	7631.3	7538.4	6975.9
65°	7368.0	7752.8	7647.5	7280.9	7681.3	7696.9	7653.2	7261.1	7717.2	6955.0	6257.4
67.5°	6596.9	7150.6	7289.7	6561.4	6685.5	6583.8	6510.2	6587.5	7268.9	6080.6	5258.9
70°	5373.1	6206.3	6273.0	5248.0	5191.7	5123.4	4976.8	5400.7	6384.1	4983.5	4172.7
72.5°	3950.7	4826.7	5031.5	3849.0	3588.3	3602.5	3486.6	4070.1	5190.5	3701.9	3115.4
75°	2703.0	3494.9	3936.6	2685.8	2373.0	2378.6	2364.1	2883.9	4134.2	2575.3	2331.2
77.5°	1974.6	2497.0	2968.9	1805.7	1753.0	1720.7	1712.8	2017.9	3169.6	1869.7	1810.4
80°	1584.5	1844.7	1994.3	1251.3	1345.8	1343.1	1299.8	1387.4	2070.0	1367.7	1354.0
82.5°	1099.2	1417.6	1615.8	980.8	908.2	893.2	903.5	1033.4	1463.1	934.9	889.1
85°	579.8	941.7	1600.2	869.2	539.2	430.2	535.0	846.3	1267.6	495.3	433.8
87.5°	74.0	272.1	1059.6	346.7	212.7	114.8	254.0	476.6	814.0	101.1	88.2
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°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	3476.7	3407.5	3316.6	3232.7	3145.7	3059.1	2945.9	2875.0	2826.0	2816.6	2795.7
5°	3392.3	3161.9	2987.7	2836.9	2700.3	2507.3	2400.5	2311.9	2264.4	2259.7	2248.3
7.5°	3002.8	2684.8	2449.6	2236.3	2042.8	1887.0	1715.0	1634.6	1601.8	1609.6	1617.4
10°	2597.7	2242.0	1972.0	1754.0	1583.5	1452.1	1314.0	1220.5	1155.9	1143.0	1140.3
12.5°	2301.5	1911.5	1649.2	1495.4	1363.4	1239.9	1093.3	983.4	899.5	870.7	851.5
15°	2176.4	1749.9	1475.0	1309.3	1163.8	1006.8	870.7	755.6	678.3	653.2	639.2
17.5°	2203.0	1705.1	1355.2	1143.0	956.8	793.1	621.4	523.0	476.6	464.6	464.6
20°	2342.7	1696.7	1256.1	989.7	757.6	567.8	427.1	370.7	355.5	354.0	358.2
22.5°	2538.7	1725.9	1182.0	856.7	588.7	414.5	332.6	311.8	305.1	306.6	311.4
25°	2830.6	1824.4	1128.4	738.2	462.0	339.4	296.7	284.1	281.0	285.2	291.0
27.5°	3176.9	1922.9	1094.9	649.1	390.0	310.3	282.1	269.0	271.1	276.4	281.6
30°	3480.9	2003.8	1042.4	585.5	367.5	311.8	282.1	264.3	262.2	263.4	264.9
32.5°	3753.6	2058.5	980.8	525.1	317.0	276.9	263.4	260.7	249.2	245.1	245.5
35°	3988.7	2058.5	943.7	489.5	284.1	245.5	223.7	210.7	205.0	205.4	211.2
37.5°	4215.6	2017.4	925.6	469.8	266.4	233.6	214.2	202.8	195.0	193.4	194.6
40°	4415.8	1957.3	904.7	461.5	253.0	226.4	208.0	198.6	190.4	187.7	188.3
42.5°	4576.3	1908.9	881.6	450.5	244.6	221.1	203.8	195.6	186.2	183.6	183.1
45°	4750.0	1892.6	851.5	428.6	248.7	221.6	202.8	193.9	184.6	181.5	180.4
47.5°	4978.9	1943.3	820.2	402.5	257.5	224.1	204.4	193.9	184.1	181.5	180.4
50°	5267.2	2062.1	780.5	364.4	248.7	231.6	203.8	192.3	184.1	181.5	179.3
52.5°	5637.5	2222.8	728.3	320.6	243.5	249.2	202.8	189.3	181.5	177.9	174.1
55°	6087.5	2354.2	666.4	284.8	231.6	244.6	201.3	185.6	177.2	172.0	168.9
57.5°	6417.0	2401.6	586.6	261.2	214.9	236.8	199.2	180.9	172.0	168.0	163.8
60°	6351.7	2309.8	519.3	246.7	205.0	213.7	197.5	176.7	167.4	164.2	160.5
62.5°	5829.8	2070.0	476.0	239.8	198.6	195.0	199.2	172.6	163.2	160.1	159.0
65°	5047.1	1715.9	458.9	238.3	193.4	184.1	185.1	168.0	158.6	155.9	154.9
67.5°	4163.5	1384.8	443.8	243.5	186.7	176.2	170.9	161.7	153.8	151.3	149.1
70°	3283.2	1151.7	436.9	240.3	178.4	168.4	162.7	154.9	148.1	145.4	143.9
72.5°	2644.0	973.0	433.3	237.2	167.4	158.0	152.8	146.0	138.7	137.6	136.2
75°	2237.4	764.8	396.8	227.4	154.9	145.4	141.8	135.6	128.3	128.3	127.2
77.5°	1725.9	553.1	330.0	201.3	141.8	131.4	128.3	123.5	115.3	116.8	116.3
80°	1274.9	360.8	258.2	166.8	125.7	115.7	114.2	109.6	100.6	102.8	102.8
82.5°	873.3	236.8	185.6	136.6	107.3	98.1	98.1	93.3	83.5	84.5	87.6
85°	438.6	162.7	138.7	105.8	83.5	78.7	78.7	75.1	65.1	65.7	69.9
87.5°	133.5	98.1	91.7	75.5	59.9	58.8	56.4	53.7	47.4	46.9	49.5
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°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	2763.9	2734.3	2698.2	2619.0	2592.4	2590.8	2614.8	2589.9	2637.9	2617.4	2639.8
5°	2229.1	2199.8	2159.6	2058.5	1997.0	1955.3	1935.5	1877.1	1919.3	1888.5	1914.1
7.5°	1639.2	1646.1	1619.5	1560.0	1426.0	1358.7	1319.2	1283.7	1314.5	1311.3	1360.4
10°	1152.3	1170.5	1151.7	1091.8	983.4	946.4	953.6	967.7	1007.9	1028.6	1104.3
12.5°	829.6	828.4	816.5	762.8	691.3	695.6	725.3	749.7	786.7	808.7	885.9
15°	619.4	610.0	604.7	561.0	520.4	529.2	543.8	546.3	569.9	582.9	645.5
17.5°	468.2	472.9	478.6	447.4	416.6	410.9	399.3	385.4	392.1	394.7	425.9
20°	371.8	390.6	404.5	382.7	351.4	334.8	320.2	310.8	310.8	310.3	319.1
22.5°	324.8	338.4	353.6	338.4	310.3	295.6	287.3	280.0	279.0	279.0	287.3
25°	299.2	309.1	323.7	313.4	292.5	281.6	273.8	264.3	260.7	259.7	265.4
27.5°	286.7	291.0	298.2	288.9	271.1	265.9	263.8	255.5	250.7	248.2	254.0
30°	265.4	264.3	264.9	255.5	241.5	240.8	244.6	246.0	244.6	244.0	253.0
32.5°	245.5	243.5	243.0	234.6	221.6	218.5	221.6	224.8	228.3	233.6	244.0
35°	220.5	225.7	228.9	221.6	205.9	196.5	193.0	187.1	184.1	184.1	196.0
37.5°	200.7	212.7	217.4	210.7	193.4	180.4	174.1	173.2	173.6	175.7	187.1
40°	193.9	202.8	207.0	200.2	183.1	170.9	167.4	166.4	167.4	170.5	181.9
42.5°	189.8	196.0	195.6	187.1	173.2	164.7	162.7	161.7	162.7	165.7	178.4
45°	186.2	190.4	186.2	176.2	163.2	159.0	159.5	159.0	160.1	163.2	175.2
47.5°	183.1	184.6	179.3	169.5	155.9	154.9	156.9	158.6	159.5	162.1	174.7
50°	178.4	178.4	173.6	163.2	149.7	150.1	152.8	156.5	156.9	160.1	170.0
52.5°	172.6	172.0	168.9	159.0	144.4	146.0	146.0	150.1	151.3	154.9	165.3
55°	168.0	166.8	165.3	155.9	139.7	142.3	140.8	142.3	144.9	148.6	160.1
57.5°	163.8	161.7	161.7	153.3	136.2	137.1	133.5	135.6	138.7	141.8	153.8
60°	159.5	157.5	158.6	149.7	130.3	129.3	127.7	132.0	132.9	136.6	148.6
62.5°	154.9	153.3	153.8	145.4	126.2	123.5	123.5	127.2	127.7	132.9	144.4
65°	151.3	149.1	148.6	141.4	121.5	118.3	120.0	121.5	122.4	127.7	138.7
67.5°	147.5	143.4	143.4	137.6	116.3	113.1	116.3	115.7	117.3	122.0	130.9
70°	142.9	137.1	137.6	135.0	111.1	107.3	110.0	109.6	110.5	113.6	122.4
72.5°	135.6	130.9	132.0	130.9	105.8	100.6	101.7	101.7	101.7	104.3	113.6
75°	126.2	122.4	125.7	128.3	99.6	92.3	93.3	93.3	91.7	93.3	104.8
77.5°	114.8	112.6	123.1	119.5	92.3	83.5	83.5	82.4	79.2	81.3	93.9
80°	102.1	100.6	113.6	100.2	83.9	72.5	71.4	68.8	65.7	67.3	79.8
82.5°	89.1	87.6	95.4	76.6	72.5	59.9	57.3	52.7	49.5	51.2	62.5
85°	73.0	73.0	73.5	57.9	55.2	45.9	42.8	36.6	32.9	33.9	44.8
87.5°	52.1	53.7	49.5	39.6	32.9	25.5	23.4	19.9	16.7	19.4	23.4
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°	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6	3204.6
2.5°	2754.7	2812.0	2877.1	2960.5	3032.0	3149.3	3261.9	3329.7
5°	2059.5	2154.9	2273.9	2426.6	2569.0	2782.7	2994.9	3131.0
7.5°	1473.9	1576.2	1704.4	1895.3	2096.6	2369.3	2649.8	2812.5
10°	1219.5	1324.5	1432.3	1561.1	1725.9	2022.5	2354.2	2537.7
12.5°	1008.9	1121.1	1237.2	1372.9	1525.6	1790.5	2172.7	2383.8
15°	772.3	897.3	1034.5	1206.1	1397.4	1703.5	2127.8	2357.2
17.5°	529.2	669.0	837.4	1049.1	1283.1	1675.2	2208.2	2472.6
20°	364.4	466.1	646.1	894.3	1175.8	1671.7	2362.5	2693.6
22.5°	305.1	350.3	481.9	751.9	1094.9	1716.5	2601.9	3003.8
25°	282.1	309.1	384.8	628.3	1036.0	1819.6	2931.3	3405.2
27.5°	268.6	293.0	349.4	547.4	989.7	1939.6	3252.0	3794.4
30°	273.8	298.7	339.4	506.3	926.5	2039.7	3536.6	4097.7
32.5°	246.7	257.5	291.0	469.8	881.1	2123.8	3785.9	4349.1
35°	210.2	229.3	259.7	452.6	882.2	2179.9	4057.6	4670.2
37.5°	200.2	219.5	241.5	446.3	894.3	2240.0	4369.4	5046.7
40°	193.9	211.7	230.4	442.7	905.8	2294.7	4674.9	5418.9
42.5°	189.8	205.9	229.3	430.2	911.4	2343.7	4926.2	5735.5
45°	189.3	205.9	233.6	417.6	920.3	2396.4	5136.9	5969.5
47.5°	189.8	212.7	225.7	402.5	920.3	2484.5	5384.0	6178.6
50°	187.7	224.1	217.4	381.2	898.9	2651.3	5722.9	6458.6
52.5°	186.7	222.6	201.3	348.4	861.8	2916.2	6157.3	6844.5
55°	184.1	214.9	189.8	299.2	818.6	3205.2	6622.3	7300.7
57.5°	181.5	190.4	183.6	256.6	751.9	3408.3	6942.6	7656.9
60°	203.3	166.4	178.4	235.6	662.7	3464.3	6930.1	7798.6
62.5°	188.3	155.9	171.5	231.0	600.2	3307.7	6609.9	7722.0
65°	147.5	149.1	164.7	244.6	583.4	2893.4	6042.5	7368.0
67.5°	135.0	142.3	158.0	261.8	585.1	2316.5	5194.8	6596.9
70°	127.2	135.0	150.1	270.6	589.2	1726.9	4107.1	5373.1
72.5°	118.3	125.1	141.4	272.1	562.1	1254.6	3165.4	3950.7
75°	107.9	114.2	128.7	237.2	465.6	870.2	2421.4	2703.0
77.5°	95.8	100.6	113.1	183.1	345.7	556.9	1817.6	1974.6
80°	81.8	84.5	95.0	133.9	236.8	348.4	1438.0	1584.5
82.5°	65.7	66.7	73.5	100.6	153.8	223.7	963.1	1099.2
85°	46.4	46.4	50.6	73.0	104.8	141.8	523.0	579.8
87.5°	21.9	22.4	22.4	40.2	54.7	72.0	120.5	74.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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