

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: P269175

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269175
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-03-LED-E1-SLR-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 11210.5 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

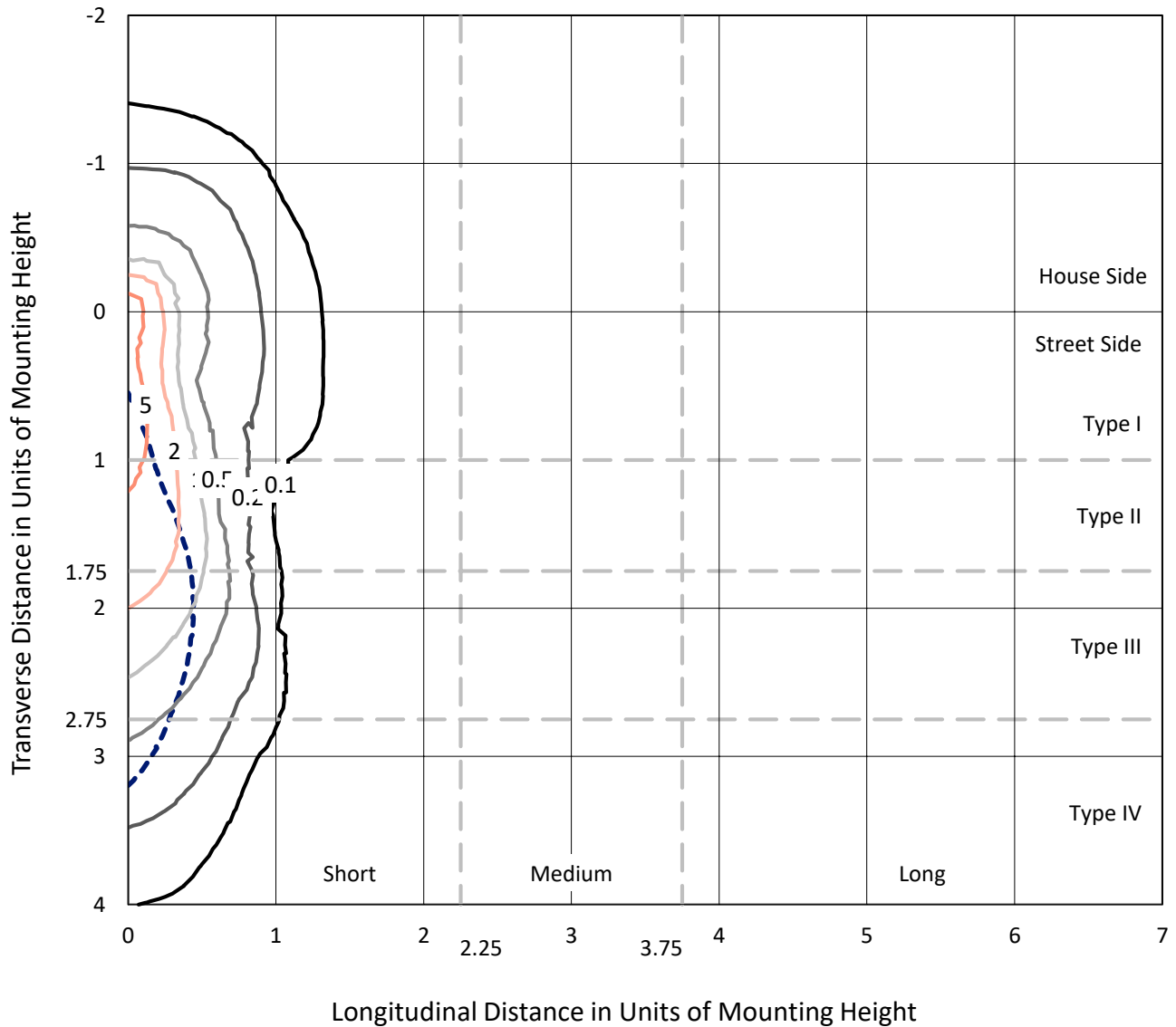
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

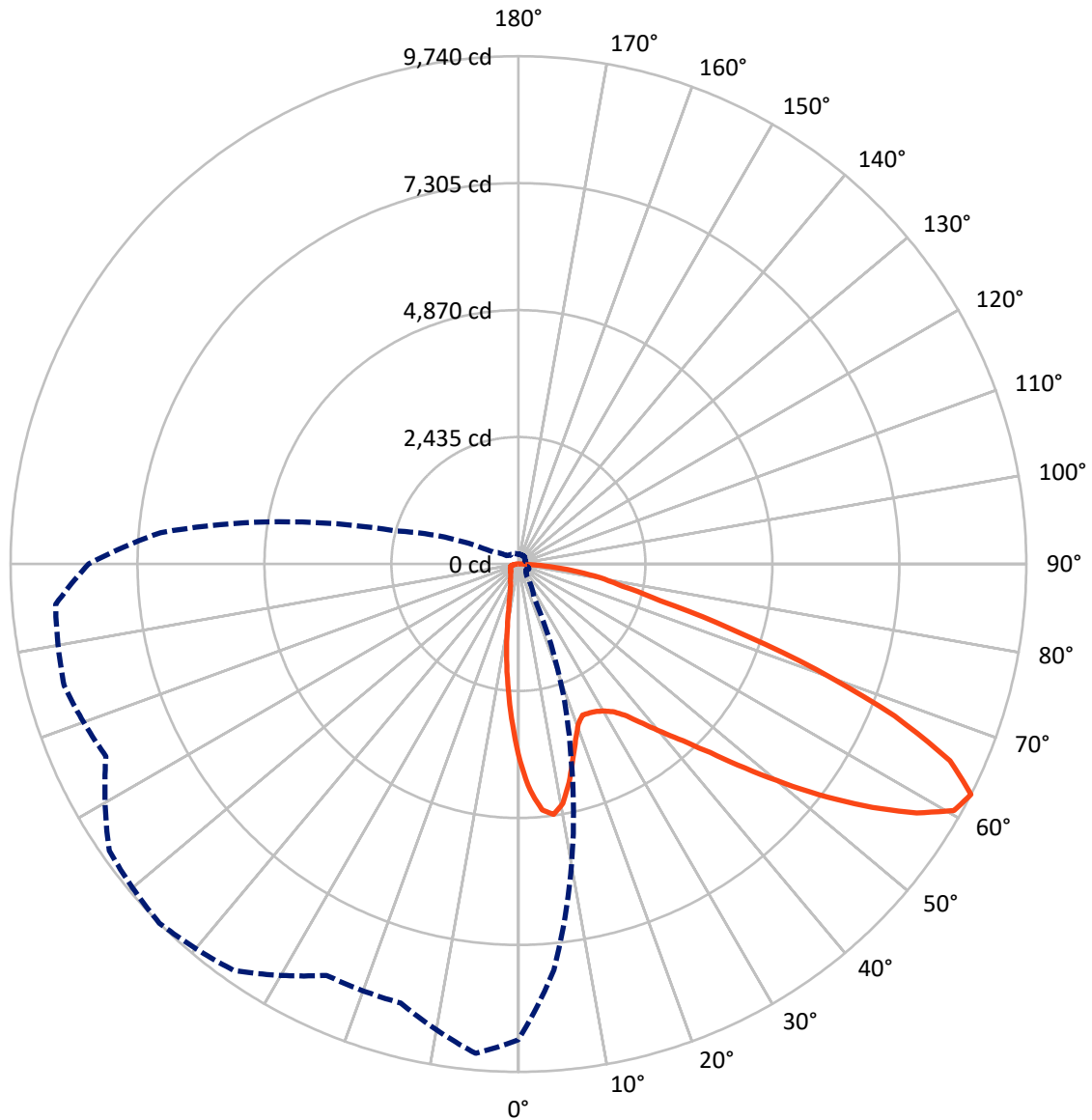
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.5 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	1855.2	0.0	1855.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9355.3	0.0	9355.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	11210.5	0.0	11210.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.7	2.5
10°-20°	505.6	4.5
20°-30°	737.1	6.6
30°-40°	1135.3	10.1
40°-50°	1670.9	14.9
50°-60°	2450.8	21.9
60°-70°	2739.6	24.4
70°-80°	1341.3	12.0
80°-90°	354.1	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°	11210.5	100.0
0°-180°	11210.5	100.0

Coefficient of Utilization



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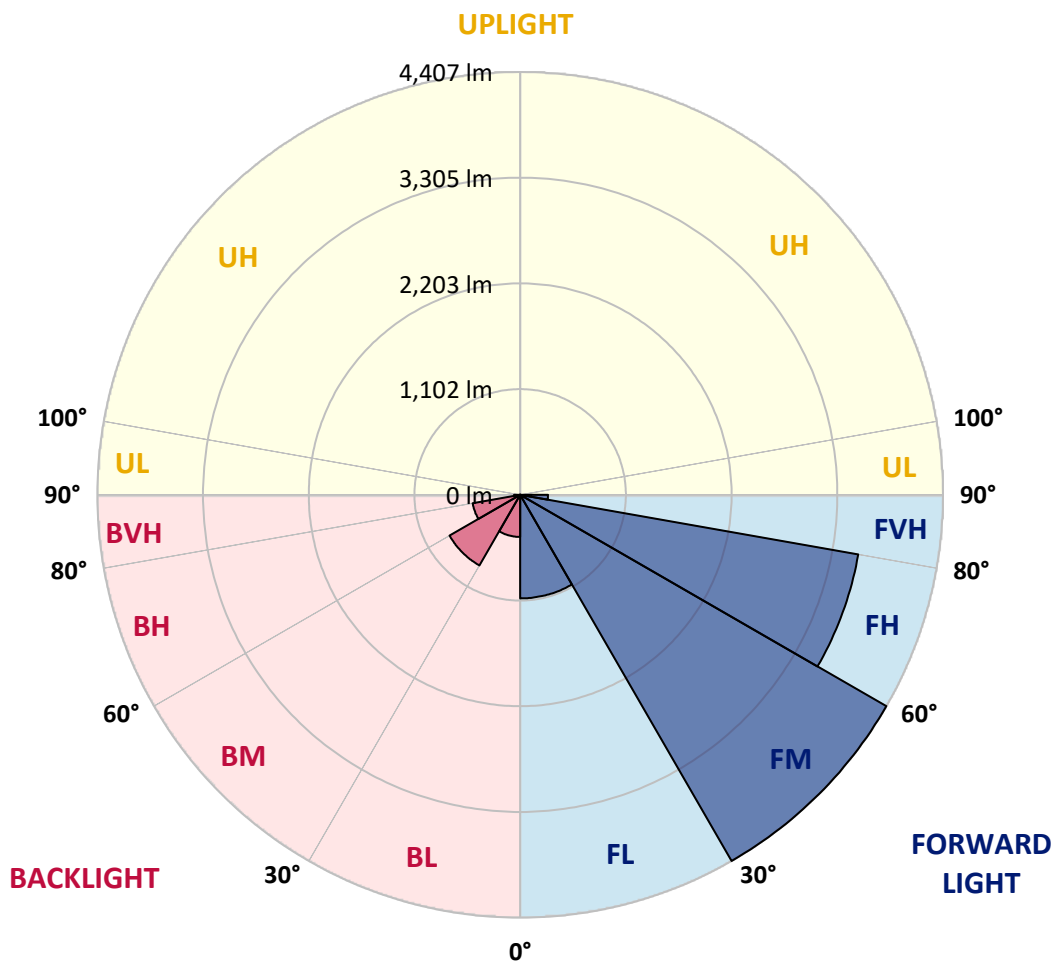
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1079.5	9.6			
FM (30°-60°)	4406.9	39.3			
FH (60°-80°)	3578.0	31.9			G2/5000
FVH (80°-90°)	290.8	2.6			G3/500
BL (0°-30°)	438.9	3.9	B1/500		
BM (30°-60°)	850.0	7.6	B1/1000		
BH (60°-80°)	502.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	63.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	3935.5	3855.3	3722.1	3583.5	3499.1	3400.5	3323.5	3255.6	3120.2	3093.7	3117.7
5°	3700.6	3539.9	3289.0	3036.4	2868.1	2687.5	2547.0	2434.1	2262.3	2232.1	2268.4
7.5°	3324.1	3131.9	2800.2	2478.0	2240.2	2014.4	1862.9	1742.2	1607.7	1549.8	1553.6
10°	2999.4	2782.4	2390.5	2039.8	1845.1	1692.9	1565.2	1441.4	1305.2	1215.9	1191.2
12.5°	2817.5	2568.0	2116.1	1803.2	1622.6	1462.4	1324.9	1192.5	1047.1	955.7	929.9
15°	2786.2	2515.0	2013.3	1651.5	1425.4	1222.7	1060.5	912.7	762.9	689.0	673.5
17.5°	2922.2	2609.8	1980.0	1516.6	1239.9	989.8	790.7	625.5	503.5	466.5	463.4
20°	3183.6	2792.2	1975.7	1389.7	1056.9	763.5	550.9	430.7	377.2	366.7	367.2
22.5°	3550.2	3075.1	2028.7	1294.2	888.7	569.4	414.1	360.5	339.6	329.7	329.7
25°	4024.8	3464.7	2150.7	1224.5	742.5	454.8	365.4	333.5	313.7	307.0	308.1
27.5°	4484.5	3843.6	2292.5	1169.7	647.0	413.0	346.3	317.5	300.2	293.3	296.4
30°	4843.1	4180.1	2410.8	1095.0	598.5	401.3	353.2	323.5	298.9	288.4	289.1
32.5°	5140.2	4474.6	2510.0	1041.5	555.2	344.0	304.4	291.5	288.4	276.0	269.9
35°	5519.7	4795.7	2576.6	1042.8	534.9	307.0	271.2	248.3	231.8	217.5	217.5
37.5°	5964.7	5164.3	2647.5	1056.9	527.6	285.3	259.4	236.7	221.3	207.7	205.3
40°	6404.7	5525.4	2712.2	1070.4	523.3	272.4	250.2	229.2	215.1	201.5	197.8
42.5°	6778.8	5822.4	2770.1	1077.2	508.4	271.2	243.4	224.2	210.7	196.0	192.2
45°	7055.5	6071.4	2832.3	1087.7	493.6	276.0	243.4	223.7	207.1	192.9	189.3
47.5°	7302.6	6363.5	2936.5	1087.7	475.7	266.8	251.4	224.2	206.4	191.7	188.6
50°	7633.5	6764.0	3133.6	1062.4	450.5	256.9	265.0	221.8	201.0	189.3	185.5
52.5°	8089.5	7277.3	3446.6	1018.7	411.7	238.0	263.2	220.7	195.3	183.1	178.8
55°	8628.8	7827.0	3788.2	967.6	353.8	224.2	254.0	217.5	189.3	175.6	171.3
57.5°	9049.7	8205.5	4028.4	888.7	303.2	216.9	224.9	214.4	181.7	167.7	163.9
60°	9217.2	8190.7	4094.5	783.2	278.6	210.7	196.5	240.3	175.6	161.4	157.2
62.5°	9126.7	7812.3	3909.6	709.3	273.1	202.7	184.2	222.5	170.7	157.2	150.9
65°	8708.3	7141.7	3419.6	689.5	289.1	194.8	176.2	174.5	163.9	150.9	144.8
67.5°	7796.8	6139.7	2738.0	691.4	309.3	186.7	168.3	159.5	154.7	144.2	138.7
70°	6350.5	4854.3	2040.9	696.4	319.8	177.4	159.5	150.3	144.8	134.3	130.7
72.5°	4669.4	3741.4	1482.7	664.3	321.8	167.1	148.0	139.9	134.3	123.2	120.2
75°	3194.6	2861.9	1028.5	550.3	280.5	152.3	134.9	127.6	123.8	110.3	108.4
77.5°	2333.7	2148.2	658.2	408.5	216.3	133.8	118.9	113.4	110.9	96.1	93.7
80°	1872.7	1699.7	411.7	279.8	158.5	112.2	99.8	96.7	94.3	79.5	77.7
82.5°	1299.0	1138.2	264.5	181.7	118.9	86.9	79.0	77.7	73.9	60.4	58.5
85°	685.2	618.2	167.7	123.8	86.2	59.7	54.8	54.8	53.0	40.1	38.8
87.5°	87.6	142.3	85.0	64.7	47.4	26.5	26.5	26.0	27.8	22.7	19.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	3061.0	3090.4	3062.1	3063.9	3095.5	3189.2	3231.7	3266.7	3304.3	3328.9	3340.1
5°	2218.5	2287.5	2311.0	2360.2	2433.0	2552.5	2600.0	2634.5	2657.2	2670.8	2676.4
7.5°	1517.1	1559.1	1606.0	1685.5	1843.9	1914.1	1945.5	1937.6	1911.7	1902.4	1893.2
10°	1143.8	1127.2	1118.5	1162.2	1290.4	1361.3	1383.5	1361.9	1347.7	1350.8	1366.2
12.5°	886.2	857.3	822.0	817.2	901.5	965.0	979.2	980.5	1006.3	1029.2	1063.1
15°	645.8	642.7	625.5	615.0	663.0	714.8	721.0	732.1	755.6	772.2	801.7
17.5°	455.4	472.1	485.7	492.5	528.7	565.8	558.9	553.4	549.0	549.0	563.2
20°	367.2	378.4	395.7	415.3	452.3	478.2	461.5	439.5	423.5	418.4	420.2
22.5°	330.9	339.6	349.4	366.7	399.9	417.8	399.9	383.9	367.9	362.3	360.5
25°	312.4	323.5	332.8	345.7	370.5	382.7	365.4	353.8	344.0	337.1	332.2
27.5°	302.0	311.8	314.2	320.4	341.4	352.4	344.0	338.9	332.8	326.7	320.4
30°	291.0	289.1	284.8	285.3	302.0	313.1	312.4	313.7	313.1	311.3	309.9
32.5°	265.5	261.9	258.3	261.9	277.2	287.2	287.7	290.2	290.2	289.7	294.6
35°	221.3	228.0	232.3	243.4	261.9	270.5	266.8	260.7	249.5	242.8	242.3
37.5°	204.6	205.8	213.2	228.6	249.0	256.9	251.4	237.2	229.8	228.6	230.4
40°	196.5	197.8	202.1	216.3	236.7	244.7	239.7	229.2	222.5	221.8	224.9
42.5°	191.0	192.2	194.8	204.6	221.3	231.1	231.8	224.2	216.3	216.9	220.1
45°	187.9	188.6	187.9	192.9	208.2	220.1	224.9	220.1	213.2	214.4	218.2
47.5°	187.3	185.5	183.1	184.2	200.3	212.0	218.2	216.3	213.2	214.4	217.5
50°	185.0	180.6	177.4	176.8	192.9	205.3	210.7	210.7	212.0	214.4	217.5
52.5°	177.4	172.6	172.6	170.7	187.9	199.7	203.3	203.9	205.8	210.2	214.4
55°	168.3	166.4	168.3	165.2	184.2	195.3	197.2	198.4	199.7	203.3	209.6
57.5°	160.2	157.7	162.1	160.8	181.2	191.0	191.0	193.6	193.6	198.4	203.3
60°	155.9	150.9	152.8	154.1	176.8	187.3	186.0	188.6	189.8	194.2	197.8
62.5°	150.3	146.1	146.1	149.1	171.9	181.7	181.2	183.1	187.9	189.3	192.9
65°	143.5	141.8	139.9	143.5	167.1	175.6	176.2	178.8	183.1	184.2	187.3
67.5°	136.8	137.4	133.8	137.4	162.8	169.5	169.5	174.5	176.2	178.8	181.7
70°	129.4	130.1	126.9	131.2	159.5	162.8	162.1	168.8	170.0	171.9	175.0
72.5°	120.2	120.2	118.9	125.1	154.7	155.9	154.7	160.2	160.8	162.8	163.9
75°	110.3	110.3	109.1	117.7	151.6	148.5	144.8	149.1	150.3	151.6	151.6
77.5°	97.3	98.6	98.6	109.1	141.2	145.4	133.0	135.6	137.4	138.0	136.3
80°	81.3	84.4	85.7	99.3	118.3	134.3	118.9	120.8	121.5	121.5	118.9
82.5°	62.3	67.8	70.8	85.7	90.5	112.7	103.6	105.5	103.6	99.8	98.6
85°	43.2	50.6	54.3	65.3	68.5	86.9	86.2	86.2	82.6	77.7	77.1
87.5°	23.4	27.8	30.3	38.8	46.8	58.5	63.5	61.7	58.5	55.4	56.1
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°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	3398.0	3481.8	3615.6	3717.8	3820.9	3920.1	4027.2	4109.1	4178.8	4206.0	4288.5
5°	2732.5	2837.2	2963.6	3191.6	3353.1	3531.1	3736.9	4009.3	4114.1	4259.0	4496.1
7.5°	1932.0	2026.8	2230.2	2414.5	2643.2	2895.1	3173.2	3549.1	3686.5	3918.8	4305.1
10°	1442.7	1553.0	1716.3	1871.6	2073.1	2330.7	2649.9	3070.1	3237.2	3489.2	3934.1
12.5°	1162.2	1292.3	1465.5	1611.5	1767.4	1949.2	2259.1	2720.2	2943.8	3164.5	3614.3
15°	892.9	1029.2	1190.0	1375.5	1547.4	1743.4	2068.2	2572.2	2829.8	3059.6	3443.7
17.5°	618.2	734.5	937.3	1130.8	1350.8	1601.7	2015.2	2603.6	2911.1	3176.1	3473.1
20°	438.2	504.7	671.2	895.4	1169.7	1484.5	2005.2	2768.8	3168.9	3471.4	3663.0
22.5°	368.6	393.2	489.9	695.7	1012.5	1397.0	2039.8	3000.6	3516.3	3902.7	3965.6
25°	335.8	350.7	401.3	546.0	872.7	1333.5	2156.3	3345.6	3946.6	4334.1	4323.1
27.5°	318.0	333.5	366.7	461.0	767.2	1294.2	2272.7	3754.8	4438.3	4802.5	4664.4
30°	312.4	333.5	368.6	434.5	692.1	1231.8	2368.3	4114.1	4816.6	5118.6	4819.8
32.5°	308.1	311.3	327.3	374.8	620.5	1159.2	2433.0	4436.4	5187.1	5419.4	5043.4
35°	249.0	264.5	290.2	335.8	578.7	1115.4	2433.0	4714.3	5551.9	5723.1	5256.6
37.5°	239.7	253.3	276.0	314.9	555.2	1093.9	2384.3	4982.4	5924.7	6067.6	5432.3
40°	234.7	245.9	267.4	298.9	545.5	1069.3	2313.4	5219.1	6288.9	6412.7	5596.3
42.5°	231.1	240.9	261.2	289.1	532.4	1042.0	2256.2	5408.9	6605.0	6707.4	5752.7
45°	229.2	239.7	261.9	293.9	506.6	1006.3	2237.0	5614.0	6865.0	6953.2	5922.3
47.5°	229.2	241.6	265.0	304.4	475.7	969.5	2296.7	5884.6	7111.0	7154.1	6121.9
50°	227.5	240.9	273.7	293.9	430.7	922.5	2437.3	6225.4	7377.2	7382.1	6374.6
52.5°	223.7	239.7	294.6	287.7	378.9	860.9	2627.2	6663.0	7771.0	7800.5	6770.2
55°	219.4	238.0	289.1	273.7	336.4	787.5	2782.4	7194.7	8324.4	8406.2	7351.9
57.5°	213.8	235.4	279.8	254.0	308.7	693.3	2838.5	7584.3	8710.8	8916.5	8007.6
60°	208.9	233.6	252.7	242.3	291.5	613.8	2729.9	7507.2	8684.3	9127.9	8588.8
62.5°	203.9	235.4	230.4	234.7	283.4	562.7	2446.5	6890.4	8244.9	8909.7	9019.5
65°	198.4	218.7	217.5	228.6	281.6	542.2	2028.2	5965.4	7395.7	8220.2	9121.2
67.5°	191.0	202.1	208.2	220.7	287.7	524.4	1636.8	4920.7	6215.6	7186.8	8591.2
70°	183.1	192.2	199.1	210.7	284.1	516.4	1361.3	3880.6	4931.9	5890.1	7545.5
72.5°	172.6	180.6	186.7	197.8	280.5	512.2	1149.9	3125.1	3682.2	4375.5	6134.9
75°	160.2	167.7	171.9	183.1	268.8	468.9	904.1	2644.3	2755.3	3043.6	4886.3
77.5°	146.1	151.6	155.2	167.7	238.0	390.0	653.8	2039.8	2139.7	2209.9	3746.2
80°	129.4	134.9	136.8	148.5	197.2	305.1	426.4	1506.7	1600.4	1616.4	2446.5
82.5°	110.3	115.8	115.8	126.9	161.4	219.4	279.8	1032.2	1050.7	1104.9	1729.1
85°	88.8	93.1	93.1	98.6	125.1	163.9	192.2	518.2	512.8	585.4	1498.2
87.5°	63.5	66.6	69.7	70.8	89.3	108.4	115.8	157.7	104.2	119.6	961.9
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6	3787.6
2.5°	4350.9	4385.9	4350.1	4324.4	4212.7	4121.0	3998.3	3935.5
5°	4676.8	4766.0	4736.0	4627.4	4394.5	4132.7	3835.0	3700.6
7.5°	4637.3	4845.0	4849.9	4647.2	4303.9	3918.1	3515.1	3324.1
10°	4330.4	4596.0	4671.8	4475.3	4111.1	3679.6	3217.5	2999.4
12.5°	3987.8	4247.8	4305.8	4237.9	3933.6	3500.3	3031.4	2817.5
15°	3707.3	3823.8	3892.9	3952.1	3781.3	3428.8	3020.9	2786.2
17.5°	3536.6	3523.7	3543.5	3646.4	3675.3	3510.8	3181.1	2922.2
20°	3475.1	3277.2	3272.3	3414.1	3625.4	3706.1	3494.1	3183.6
22.5°	3509.0	3188.5	3147.8	3316.1	3651.9	3987.8	3904.7	3550.2
25°	3626.1	3195.9	3163.2	3326.0	3748.1	4287.9	4347.6	4024.8
27.5°	3810.3	3242.7	3199.7	3366.6	3875.6	4539.9	4784.1	4484.5
30°	3985.3	3324.1	3270.5	3446.6	3992.1	4639.7	5051.4	4843.1
32.5°	4197.9	3476.4	3381.9	3593.9	4136.2	4798.7	5289.8	5140.2
35°	4406.2	3693.2	3576.2	3821.4	4297.1	4996.6	5562.3	5519.7
37.5°	4634.9	3976.6	3879.9	4115.3	4517.1	5183.3	5909.9	5964.7
40°	4878.9	4352.6	4237.9	4544.3	4858.6	5417.5	6272.9	6404.7
42.5°	5124.8	4769.8	4633.0	4943.6	5233.9	5648.6	6583.5	6778.8
45°	5406.4	5222.7	5158.1	5493.9	5594.4	5868.5	6812.7	7055.5
47.5°	5734.2	5736.8	5840.9	5975.3	5958.0	6117.5	7043.3	7302.6
50°	6117.0	6378.2	6608.1	6697.5	6332.6	6385.1	7363.0	7633.5
52.5°	6576.8	7145.5	7430.2	7371.6	6736.3	6711.6	7869.6	8089.5
55°	7151.6	7957.6	8240.5	8198.7	7200.4	7156.5	8500.7	8628.8
57.5°	7817.2	8744.7	9004.7	8816.1	7757.5	7644.7	9022.5	9049.7
60°	8402.0	9368.3	9596.4	9387.4	8319.5	8164.2	9348.7	9217.2
62.5°	8727.5	9579.6	9740.0	9514.9	8704.5	8717.5	9420.0	9126.7
65°	8582.0	9045.5	9097.1	9078.7	8605.5	9038.7	9163.2	8708.3
67.5°	7785.8	7694.5	7781.5	7901.6	7755.0	8615.9	8451.3	7796.8
70°	6383.1	5882.1	6055.4	6136.1	6202.5	7414.3	7335.3	6350.5
72.5°	4810.6	4121.0	4257.6	4241.1	4549.1	5946.9	5704.6	4669.4
75°	3408.4	2794.1	2811.3	2804.6	3174.3	4652.7	4130.8	3194.6
77.5°	2384.9	2024.4	2033.7	2071.9	2134.2	3509.0	2951.2	2333.7
80°	1639.9	1536.3	1587.5	1590.5	1479.0	2357.2	2180.2	1872.7
82.5°	1221.4	1067.9	1055.7	1073.6	1159.2	1909.7	1675.6	1299.0
85°	1000.3	632.2	508.4	637.2	1027.3	1891.3	1113.0	685.2
87.5°	563.2	300.2	135.6	251.4	409.7	1252.2	321.8	87.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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