

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: P269174

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269174
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 9141.5 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 96
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

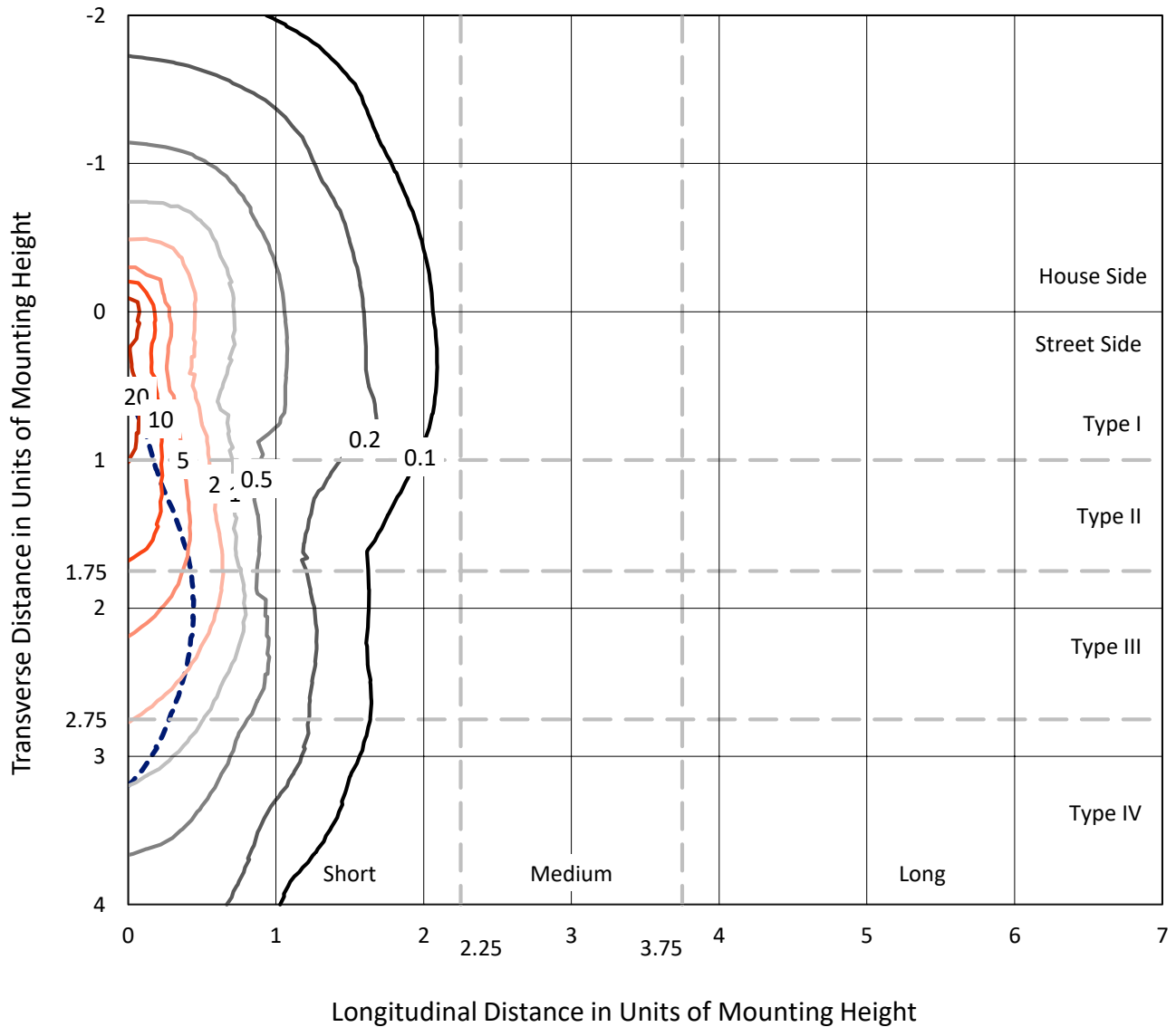


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Iso-Footcandle Lines of Horizontal Illumination

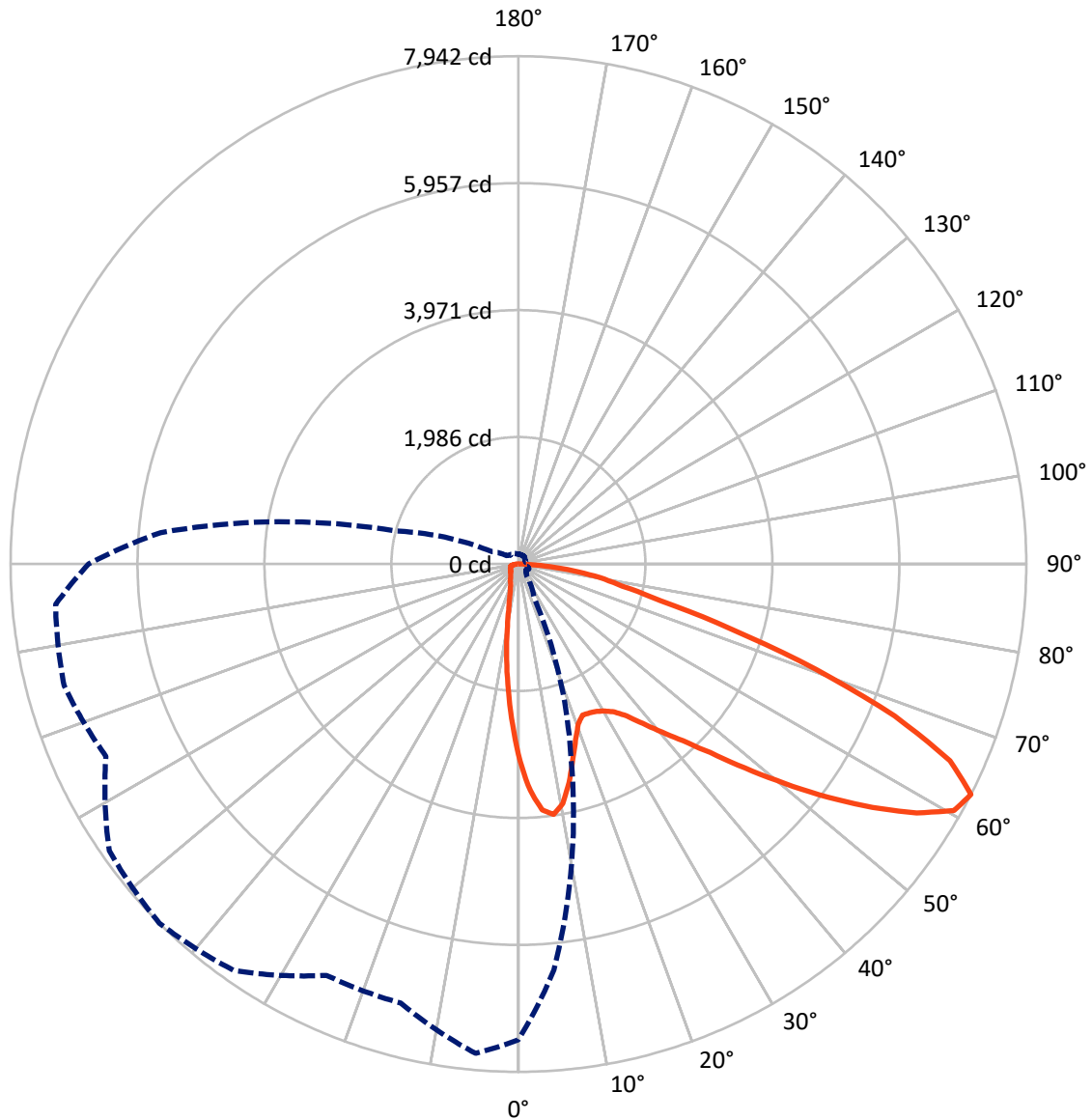
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.9 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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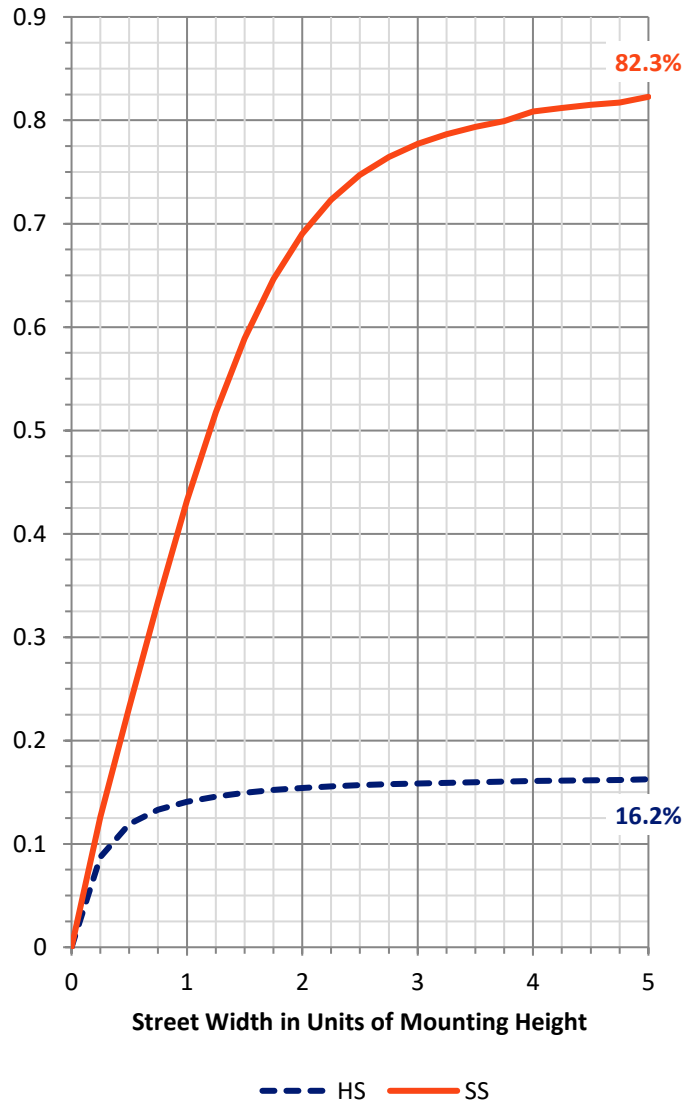
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1512.8	0.0	1512.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7628.7	0.0	7628.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	9141.5	0.0	9141.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	2.5
10°-20°	412.3	4.5
20°-30°	601.1	6.6
30°-40°	925.8	10.1
40°-50°	1362.5	14.9
50°-60°	1998.5	21.9
60°-70°	2234.0	24.4
70°-80°	1093.7	12.0
80°-90°	288.8	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°	9141.5	100.0
0°-180°	9141.5	100.0

Coefficient of Utilization



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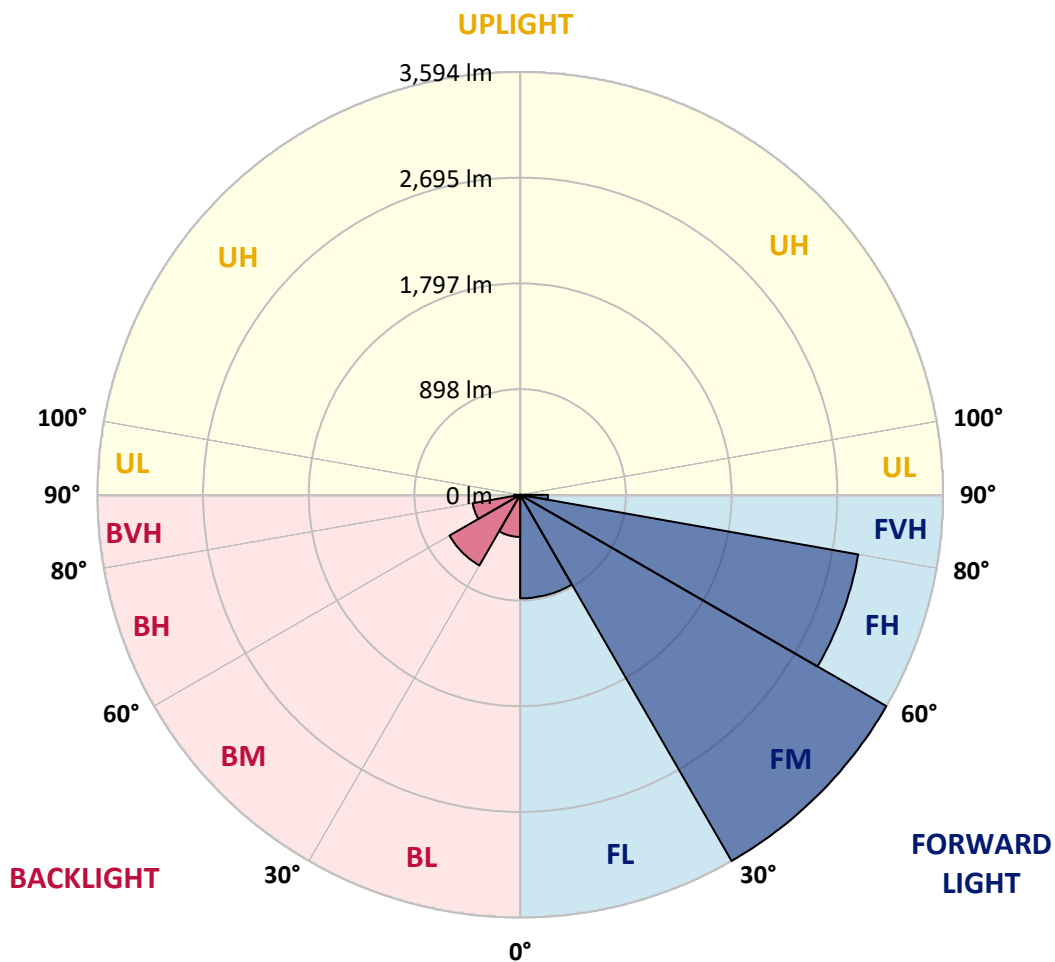
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	880.3	9.6			
FM	(30°-60°)	3593.6	39.3			
FH	(60°-80°)	2917.7	31.9			G2/5000
FVH	(80°-90°)	237.1	2.6			G3/500
BL	(0°-30°)	357.9	3.9	B1/500		
BM	(30°-60°)	693.2	7.6	B1/1000		
BH	(60°-80°)	410.1	4.5	B1/500		G1/500
BVH	(80°-90°)	51.6	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°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	3209.1	3143.8	3035.3	2922.1	2853.3	2772.9	2710.0	2654.9	2544.3	2522.7	2542.3
5°	3017.6	2886.4	2682.0	2475.9	2338.7	2191.4	2076.9	1985.0	1844.8	1820.1	1849.8
7.5°	2710.5	2553.8	2283.4	2020.6	1826.7	1642.7	1519.2	1420.6	1311.0	1263.8	1266.9
10°	2445.7	2268.8	1949.3	1663.3	1504.5	1380.4	1276.4	1175.4	1064.3	991.5	971.3
12.5°	2297.5	2093.9	1725.6	1470.3	1323.2	1192.5	1080.4	972.3	853.7	779.4	758.3
15°	2272.0	2050.8	1641.7	1346.7	1162.3	996.9	864.9	744.2	622.2	561.8	549.3
17.5°	2382.9	2128.2	1614.7	1236.6	1011.1	807.0	644.8	510.1	410.5	380.4	377.8
20°	2596.0	2276.9	1611.1	1133.2	861.8	622.6	449.2	351.2	307.5	299.0	299.6
22.5°	2895.0	2507.6	1654.3	1055.2	724.7	464.3	337.8	293.9	276.9	268.9	268.9
25°	3282.0	2825.2	1753.9	998.6	605.5	370.9	298.0	271.8	255.7	250.3	251.3
27.5°	3656.8	3134.2	1869.5	953.8	527.7	336.7	282.3	258.8	244.7	239.2	241.7
30°	3949.3	3408.6	1965.9	892.9	488.0	327.2	287.9	263.8	243.7	235.1	235.6
32.5°	4191.5	3648.8	2046.8	849.3	452.7	280.5	248.2	237.7	235.1	225.1	220.2
35°	4501.0	3910.6	2101.0	850.2	436.1	250.3	221.2	202.5	189.0	177.3	177.3
37.5°	4864.0	4211.2	2158.8	861.8	430.2	232.8	211.6	193.0	180.4	169.3	167.4
40°	5222.7	4505.5	2211.5	872.9	426.6	222.2	204.1	186.9	175.3	164.3	161.3
42.5°	5527.7	4747.8	2258.9	878.5	414.6	221.2	198.4	183.0	171.8	159.8	156.8
45°	5753.4	4950.9	2309.6	886.9	402.5	225.1	198.4	182.4	168.8	157.4	154.2
47.5°	5954.9	5189.0	2394.5	886.9	388.0	217.6	205.1	183.0	168.3	156.2	153.8
50°	6224.7	5515.7	2555.3	866.3	367.3	209.6	216.1	180.9	163.9	154.2	151.3
52.5°	6596.7	5934.3	2810.5	830.7	335.6	193.9	214.5	179.9	159.3	149.3	145.7
55°	7036.3	6382.5	3089.0	788.9	288.4	183.0	207.0	177.3	154.2	143.2	139.6
57.5°	7379.5	6691.0	3285.0	724.7	247.3	176.8	183.4	174.9	148.2	136.7	133.7
60°	7516.2	6679.0	3338.7	638.8	227.1	171.8	160.3	196.0	143.2	131.6	128.2
62.5°	7442.4	6370.5	3187.9	578.4	222.6	165.3	150.2	181.4	139.1	128.2	123.1
65°	7101.1	5823.7	2788.5	562.2	235.6	158.8	143.6	142.2	133.7	123.1	118.0
67.5°	6357.9	5006.7	2232.6	563.9	252.2	152.3	137.3	130.2	126.1	117.6	113.0
70°	5178.5	3958.3	1664.4	567.9	260.8	144.7	130.2	122.6	118.0	109.6	106.4
72.5°	3807.6	3050.9	1209.1	541.7	262.3	136.3	120.6	114.1	109.6	100.5	97.9
75°	2605.1	2333.6	838.7	448.8	228.7	124.1	110.0	104.1	101.0	89.9	88.5
77.5°	1903.1	1751.8	536.6	333.2	176.3	109.1	96.9	92.4	90.5	78.4	76.4
80°	1527.2	1385.9	335.6	228.1	129.1	91.4	81.3	79.0	76.8	64.8	63.3
82.5°	1059.3	928.2	215.6	148.2	96.9	70.8	64.3	63.3	60.2	49.2	47.7
85°	558.7	503.9	136.7	101.0	70.3	48.8	44.7	44.7	43.2	32.7	31.7
87.5°	71.3	116.2	69.3	52.8	38.6	21.6	21.6	21.1	22.5	18.5	16.1
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°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	2496.0	2520.1	2497.0	2498.5	2524.1	2600.6	2635.2	2663.8	2694.6	2714.6	2723.8
5°	1809.0	1865.4	1884.5	1924.7	1983.9	2081.5	2120.1	2148.2	2166.9	2177.9	2182.4
7.5°	1237.2	1271.5	1309.5	1374.3	1503.6	1560.8	1586.4	1579.8	1558.7	1551.4	1543.7
10°	932.7	919.1	912.0	947.7	1052.3	1110.0	1128.1	1110.6	1099.0	1101.5	1114.1
12.5°	722.6	699.1	670.3	666.4	735.3	786.9	798.6	799.5	820.6	839.1	866.9
15°	526.6	524.2	510.1	501.6	540.7	582.9	587.9	597.1	616.1	629.6	653.7
17.5°	371.4	385.0	396.1	401.5	431.1	461.3	455.8	451.3	447.7	447.7	459.4
20°	299.6	308.6	322.6	338.8	368.8	390.0	376.4	358.3	345.2	341.3	342.8
22.5°	269.9	276.9	284.9	299.0	326.2	340.6	326.2	313.1	300.0	295.5	293.9
25°	254.8	263.8	271.4	281.9	302.0	312.2	298.0	288.4	280.5	274.9	270.8
27.5°	246.2	254.3	256.2	261.2	278.4	287.5	280.5	276.4	271.4	266.3	261.2
30°	237.2	235.6	232.1	232.8	246.2	255.3	254.8	255.7	255.3	253.9	252.8
32.5°	216.6	213.5	210.6	213.5	226.2	234.2	234.6	236.8	236.8	236.2	240.1
35°	180.4	185.9	189.5	198.4	213.5	220.7	217.6	212.5	203.6	197.9	197.4
37.5°	166.8	167.9	173.9	186.5	202.9	209.6	205.1	193.4	187.4	186.5	187.9
40°	160.3	161.3	164.7	176.3	193.0	199.6	195.6	186.9	181.4	180.9	183.4
42.5°	155.8	156.8	158.8	166.8	180.4	188.5	189.0	183.0	176.3	176.8	179.4
45°	153.3	153.8	153.3	157.4	169.9	179.4	183.4	179.4	173.9	174.9	177.9
47.5°	152.7	151.3	149.3	150.2	163.3	172.8	177.9	176.3	173.9	174.9	177.3
50°	150.7	147.2	144.7	144.2	157.4	167.4	171.8	171.8	172.8	174.9	177.3
52.5°	144.7	140.8	140.8	139.1	153.3	162.9	165.8	166.4	167.9	171.3	174.9
55°	137.3	135.6	137.3	134.7	150.2	159.3	160.7	161.9	162.9	165.8	170.9
57.5°	130.7	128.6	132.2	131.2	147.7	155.8	155.8	157.8	157.8	161.9	165.8
60°	127.1	123.1	124.7	125.7	144.2	152.7	151.8	153.8	154.8	158.3	161.3
62.5°	122.6	119.0	119.0	121.6	140.1	148.2	147.7	149.3	153.3	154.2	157.4
65°	117.0	115.6	114.1	117.0	136.3	143.2	143.6	145.7	149.3	150.2	152.7
67.5°	111.6	112.1	109.1	112.1	132.7	138.2	138.2	142.2	143.6	145.7	148.2
70°	105.6	106.0	103.6	107.1	130.2	132.7	132.2	137.7	138.7	140.1	142.7
72.5°	97.9	97.9	96.9	102.0	126.1	127.1	126.1	130.7	131.2	132.7	133.7
75°	89.9	89.9	88.9	95.9	123.6	121.1	118.0	121.6	122.6	123.6	123.6
77.5°	79.4	80.4	80.4	88.9	115.1	118.5	108.5	110.5	112.1	112.6	111.1
80°	66.4	68.8	69.9	80.8	96.5	109.6	96.9	98.5	99.1	99.1	96.9
82.5°	50.8	55.2	57.9	69.9	73.9	91.9	84.4	86.0	84.4	81.3	80.4
85°	35.2	41.2	44.2	53.3	55.8	70.8	70.3	70.3	67.4	63.3	62.8
87.5°	19.1	22.5	24.7	31.7	38.2	47.7	51.7	50.2	47.7	45.3	45.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	2770.9	2839.3	2948.2	3031.7	3115.6	3196.6	3283.9	3350.8	3407.6	3429.6	3497.0
5°	2228.2	2313.7	2416.6	2602.6	2734.3	2879.4	3047.3	3269.4	3354.8	3472.9	3666.4
7.5°	1575.4	1652.8	1818.6	1968.8	2155.4	2360.8	2587.5	2894.0	3006.1	3195.5	3510.7
10°	1176.4	1266.3	1399.5	1526.2	1690.5	1900.5	2160.9	2503.5	2639.8	2845.3	3208.0
12.5°	947.7	1053.8	1194.9	1314.1	1441.2	1589.6	1842.2	2218.2	2400.5	2580.4	2947.2
15°	728.2	839.1	970.3	1121.7	1261.8	1421.7	1686.5	2097.5	2307.6	2495.0	2808.1
17.5°	503.9	599.0	764.4	922.1	1101.5	1306.0	1643.3	2123.1	2374.0	2590.1	2832.1
20°	357.3	411.6	547.2	730.1	953.8	1210.6	1635.3	2257.8	2584.0	2830.6	2987.0
22.5°	300.6	320.6	399.4	567.4	825.6	1139.2	1663.3	2446.8	2867.4	3182.4	3233.7
25°	273.9	285.9	327.2	445.2	711.5	1087.5	1758.3	2728.2	3218.2	3534.2	3525.2
27.5°	259.3	271.8	299.0	375.9	625.6	1055.2	1853.4	3061.9	3619.1	3916.2	3803.7
30°	254.8	271.8	300.6	354.3	564.3	1004.6	1931.1	3354.8	3927.7	4174.0	3930.3
32.5°	251.3	253.9	266.8	305.6	506.0	945.2	1983.9	3617.7	4229.7	4419.2	4112.6
35°	202.9	215.6	236.8	273.9	471.9	909.5	1983.9	3844.2	4527.2	4667.0	4286.5
37.5°	195.6	206.5	225.1	256.7	452.7	891.9	1944.2	4062.9	4831.3	4947.9	4429.7
40°	191.5	200.5	218.1	243.7	444.8	871.9	1886.5	4255.9	5128.2	5229.3	4563.4
42.5°	188.5	196.5	213.1	235.6	434.2	849.7	1839.6	4410.7	5386.0	5469.4	4690.9
45°	186.9	195.6	213.5	239.7	413.1	820.6	1824.2	4577.9	5598.1	5669.9	4829.2
47.5°	186.9	197.0	216.1	248.2	388.0	790.5	1872.8	4798.6	5798.6	5833.8	4992.1
50°	185.4	196.5	223.0	239.7	351.2	752.3	1987.5	5076.5	6015.7	6019.7	5198.1
52.5°	182.4	195.6	240.1	234.6	309.0	702.0	2142.3	5433.3	6336.9	6360.9	5520.8
55°	178.9	193.9	235.6	223.0	274.4	642.2	2268.8	5866.9	6788.0	6854.8	5995.1
57.5°	174.5	192.0	228.1	207.0	251.7	565.4	2314.7	6184.6	7103.2	7271.1	6529.8
60°	170.4	190.4	206.0	197.4	237.7	500.5	2226.2	6121.7	7081.5	7443.4	7003.6
62.5°	166.4	192.0	187.9	191.5	231.1	458.9	1995.0	5618.7	6723.3	7265.4	7355.0
65°	161.9	178.5	177.3	186.5	229.6	442.2	1653.8	4864.4	6030.7	6703.2	7437.8
67.5°	155.8	164.7	169.9	179.9	234.6	427.7	1334.7	4012.5	5068.4	5860.5	7005.6
70°	149.3	156.8	162.4	171.8	231.7	421.1	1110.0	3164.4	4021.7	4803.1	6152.9
72.5°	140.8	147.2	152.3	161.3	228.7	417.6	937.7	2548.3	3002.6	3567.9	5002.7
75°	130.7	136.7	140.1	149.3	219.0	382.4	737.1	2156.3	2246.8	2481.9	3984.5
77.5°	119.0	123.6	126.7	136.7	193.9	318.1	533.1	1663.3	1744.8	1802.0	3054.9
80°	105.6	110.0	111.6	121.1	160.7	248.7	347.7	1228.6	1305.1	1318.2	1995.0
82.5°	89.9	94.5	94.5	103.6	131.6	178.9	228.1	841.7	856.9	901.0	1410.1
85°	72.4	75.8	75.8	80.4	102.0	133.7	156.8	422.7	418.2	477.4	1221.7
87.5°	51.7	54.3	56.9	57.9	72.9	88.5	94.5	128.6	84.9	97.5	784.4
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°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	3547.8	3576.4	3547.2	3526.1	3435.3	3360.4	3260.4	3209.1
5°	3813.7	3886.4	3861.9	3773.4	3583.5	3369.9	3127.2	3017.6
7.5°	3781.4	3950.8	3954.9	3789.5	3509.6	3195.0	2866.4	2710.5
10°	3531.1	3747.8	3809.6	3649.4	3352.4	3000.6	2623.7	2445.7
12.5°	3251.9	3463.9	3511.1	3455.8	3207.6	2854.4	2471.9	2297.5
15°	3023.2	3118.1	3174.4	3222.7	3083.5	2796.1	2463.3	2272.0
17.5°	2884.0	2873.4	2889.5	2973.4	2997.0	2862.9	2594.0	2382.9
20°	2833.8	2672.4	2668.3	2783.9	2956.3	3022.2	2849.3	2596.0
22.5°	2861.3	2600.1	2566.8	2704.1	2977.9	3251.9	3184.0	2895.0
25°	2956.9	2606.1	2579.5	2712.2	3056.4	3496.6	3545.3	3282.0
27.5°	3107.1	2644.3	2609.0	2745.3	3160.3	3702.1	3901.1	3656.8
30°	3249.8	2710.5	2666.9	2810.5	3255.4	3783.5	4119.2	3949.3
32.5°	3423.3	2834.7	2757.8	2930.7	3373.0	3913.1	4313.7	4191.5
35°	3593.0	3011.6	2916.2	3116.1	3504.1	4074.4	4535.7	4501.0
37.5°	3779.4	3242.8	3163.9	3355.9	3683.5	4226.7	4819.1	4864.0
40°	3978.5	3549.4	3455.8	3705.6	3961.9	4417.7	5115.2	5222.7
42.5°	4178.9	3889.5	3777.9	4031.2	4267.8	4606.1	5368.5	5527.7
45°	4408.6	4258.9	4206.1	4479.9	4562.0	4785.5	5555.4	5753.4
47.5°	4675.9	4678.0	4763.0	4872.4	4858.4	4988.6	5743.4	5954.9
50°	4988.0	5201.0	5388.6	5461.3	5163.8	5206.7	6004.1	6224.7
52.5°	5362.9	5826.8	6058.9	6011.2	5493.0	5473.0	6417.2	6596.7
55°	5831.7	6489.0	6719.7	6685.5	5871.4	5835.7	6931.9	7036.3
57.5°	6374.6	7130.7	7342.8	7189.0	6325.8	6233.8	7357.4	7379.5
60°	6851.4	7639.4	7825.2	7654.8	6784.0	6657.3	7623.2	7516.2
62.5°	7116.7	7811.8	7942.4	7758.9	7098.0	7108.6	7681.5	7442.4
65°	6998.2	7376.1	7418.3	7403.1	7017.2	7370.5	7472.0	7101.1
67.5°	6348.9	6274.5	6345.4	6443.4	6323.7	7025.7	6891.5	6357.9
70°	5205.0	4796.6	4937.8	5003.6	5057.8	6045.9	5981.5	5178.5
72.5°	3922.7	3360.4	3471.9	3458.4	3709.6	4849.3	4651.9	3807.6
75°	2779.4	2278.5	2292.6	2286.9	2588.5	3794.0	3368.5	2605.1
77.5°	1944.8	1650.7	1658.4	1689.5	1740.2	2861.3	2406.6	1903.1
80°	1337.1	1252.7	1294.5	1297.1	1206.1	1922.2	1777.9	1527.2
82.5°	996.0	870.8	860.8	875.4	945.2	1557.3	1366.3	1059.3
85°	815.7	515.5	414.6	519.6	837.7	1542.2	907.6	558.7
87.5°	459.4	244.7	110.5	205.1	334.2	1021.2	262.3	71.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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