

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: P269096

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269096  
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-SLR-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA 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: 10200.5 lumens  
Efficiency: N/A  
Efficacy: 79.1 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 - G3

Input Watts (W): 129  
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

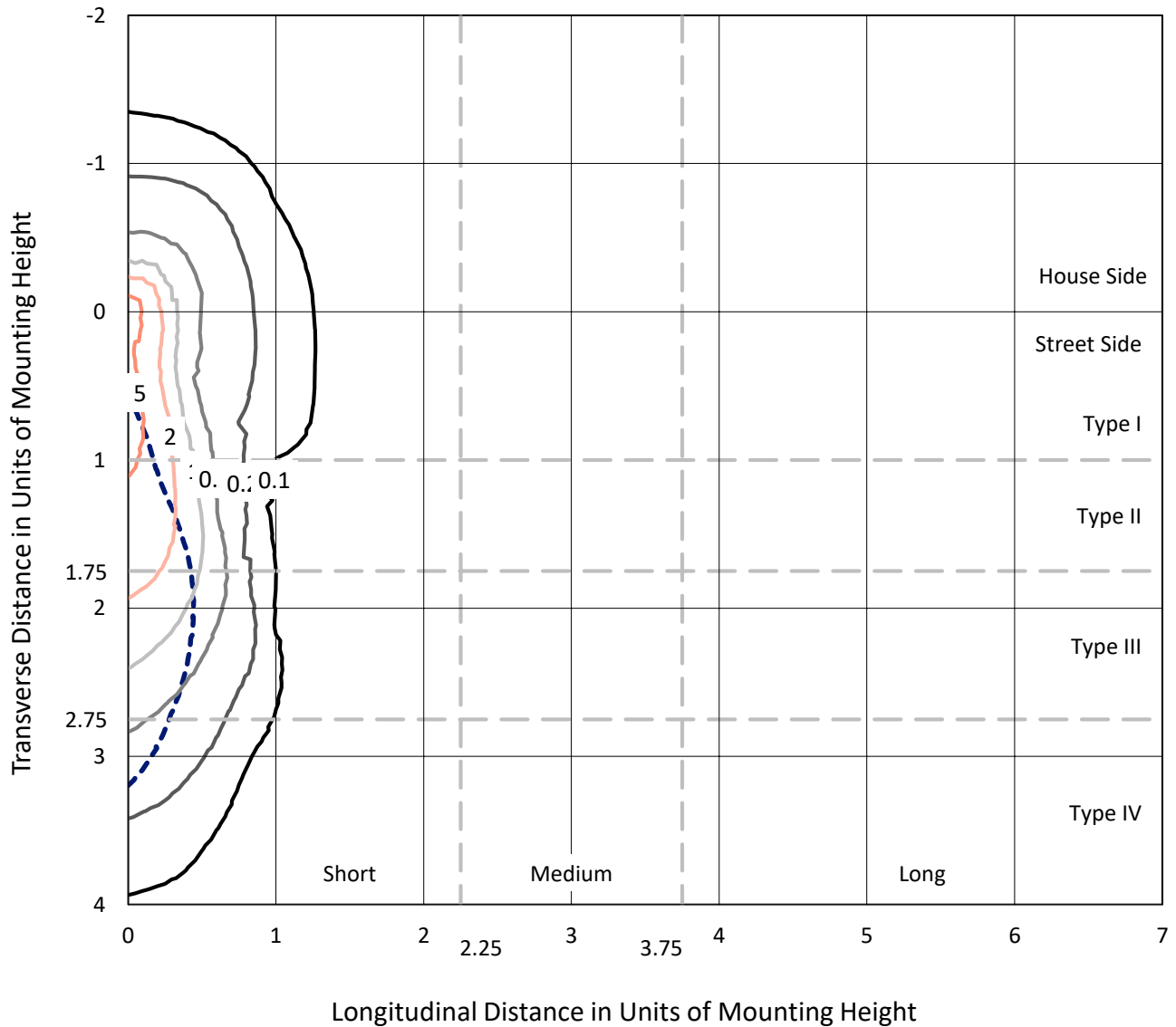


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

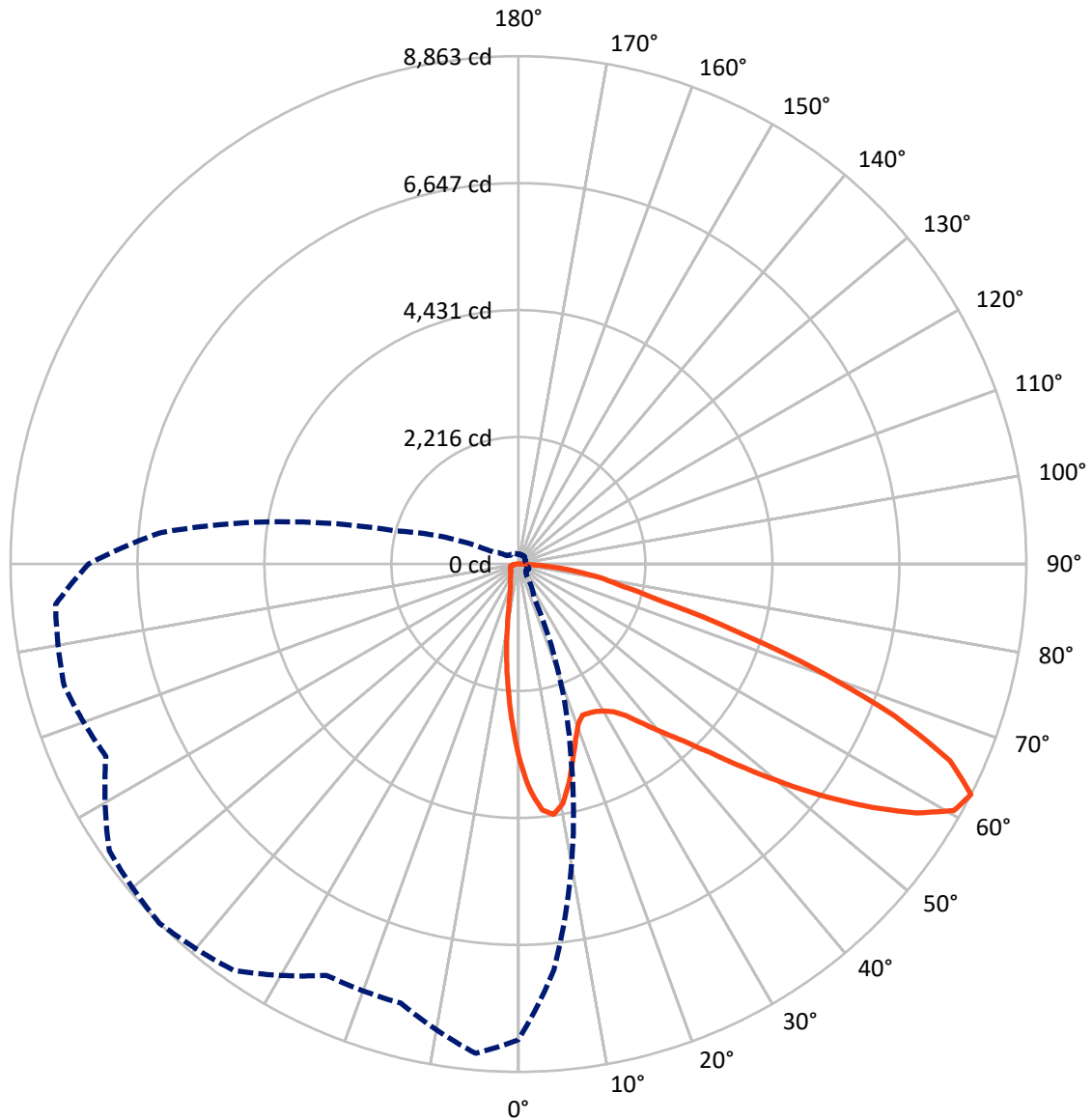


Based on 20 foot mounting height. Maximum calculated value = 8.6 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	1688.0	0.0	1688.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	8512.5	0.0	8512.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	10200.5	0.0	10200.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.9	2.5
10°-20°	460.0	4.5
20°-30°	670.7	6.6
30°-40°	1033.0	10.1
40°-50°	1520.3	14.9
50°-60°	2230.0	21.9
60°-70°	2492.8	24.4
70°-80°	1220.5	12.0
80°-90°	322.2	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°	10200.5	100.0
0°-180°	10200.5	100.0

**Coefficient of Utilization**



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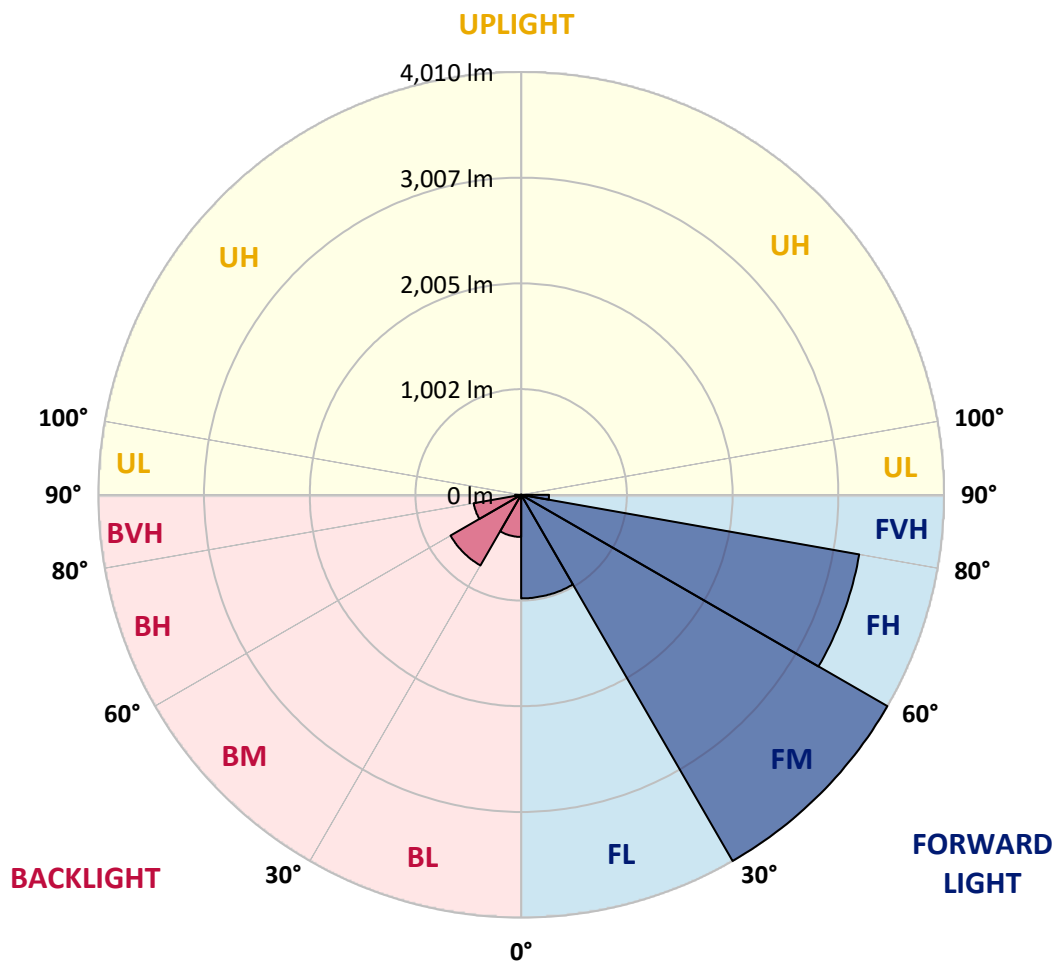
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-7027-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.3	9.6			
FM (30°-60°)	4009.9	39.3			
FH (60°-80°)	3255.7	31.9			G2/5000
FVH (80°-90°)	264.6	2.6			G3/500
BL (0°-30°)	399.4	3.9	B1/500		
BM (30°-60°)	773.4	7.6	B1/1000		
BH (60°-80°)	457.6	4.5	B1/500		G1/500
BVH (80°-90°)	57.6	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°	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3
2.5°	3580.9	3508.1	3386.9	3260.7	3183.9	3094.1	3024.1	2962.4	2839.1	2814.8	2836.8
5°	3367.2	3220.9	2992.7	2762.7	2609.7	2445.4	2317.5	2215.0	2058.5	2031.0	2064.0
7.5°	3024.7	2849.7	2548.0	2254.7	2038.3	1833.0	1695.1	1585.1	1463.0	1410.2	1413.7
10°	2729.1	2531.8	2175.1	1856.1	1678.8	1540.4	1424.3	1311.5	1187.6	1106.4	1084.0
12.5°	2563.8	2336.6	1925.5	1640.8	1476.5	1330.6	1205.5	1085.1	952.7	869.6	846.2
15°	2535.0	2288.3	1832.0	1502.8	1297.1	1112.6	965.0	830.5	694.2	626.8	612.9
17.5°	2659.1	2374.7	1801.6	1379.9	1128.2	900.6	719.5	569.2	458.1	424.4	421.7
20°	2896.8	2540.6	1797.7	1264.5	961.6	694.7	501.3	392.0	343.2	333.6	334.2
22.5°	3230.5	2798.1	1845.9	1177.6	808.6	518.1	376.7	328.1	308.9	300.0	300.0
25°	3662.2	3152.4	1957.0	1114.2	675.6	413.8	332.6	303.4	285.4	279.3	280.5
27.5°	4080.6	3497.3	2086.0	1064.3	588.7	375.8	315.1	288.7	273.1	266.8	269.8
30°	4406.8	3803.5	2193.7	996.4	544.5	365.0	321.4	294.4	271.9	262.5	262.9
32.5°	4677.1	4071.5	2283.9	947.6	505.2	312.9	276.9	265.2	262.5	251.3	245.5
35°	5022.6	4363.6	2344.4	948.8	486.7	279.3	246.8	226.0	210.8	197.9	197.9
37.5°	5427.4	4698.9	2409.0	961.6	480.0	259.6	236.1	215.4	201.3	189.0	186.7
40°	5827.8	5027.5	2467.9	974.0	476.0	247.8	227.7	208.5	195.7	183.3	180.0
42.5°	6168.1	5297.8	2520.6	980.2	462.5	246.8	221.5	204.2	191.8	178.4	175.0
45°	6419.8	5524.3	2577.1	989.8	449.2	251.3	221.5	203.6	188.5	175.4	172.1
47.5°	6644.8	5790.1	2671.9	989.8	433.0	242.8	228.8	204.2	187.8	174.5	171.5
50°	6945.9	6154.6	2851.3	966.8	409.8	233.7	241.1	201.8	182.7	172.1	168.8
52.5°	7360.8	6621.8	3136.3	927.0	374.6	216.4	239.5	200.7	177.8	166.5	162.7
55°	7851.5	7121.9	3446.8	880.3	321.9	204.2	231.0	197.9	172.1	159.8	155.9
57.5°	8234.5	7466.3	3665.5	808.6	275.9	197.4	204.6	195.1	165.4	152.5	149.2
60°	8386.9	7452.8	3725.5	712.6	253.4	191.8	178.9	218.6	159.8	147.0	143.0
62.5°	8304.6	7108.5	3557.3	645.4	248.4	184.5	167.7	202.4	155.3	143.0	137.4
65°	7923.8	6498.3	3111.5	627.5	262.9	177.1	160.3	158.7	149.2	137.4	131.8
67.5°	7094.5	5586.6	2491.4	629.2	281.4	169.9	153.2	145.3	140.8	131.2	126.1
70°	5778.3	4417.0	1857.2	633.7	291.1	161.4	145.3	136.8	131.8	122.2	118.8
72.5°	4248.8	3404.2	1349.2	604.5	292.7	152.0	134.6	127.3	122.2	112.2	109.4
75°	2906.8	2604.0	935.9	500.7	255.1	138.5	122.8	116.2	112.6	100.4	98.8
77.5°	2123.6	1954.7	598.9	371.8	196.8	121.7	108.2	103.1	100.9	87.5	85.2
80°	1704.1	1546.5	374.6	254.6	144.1	102.0	90.9	88.0	85.8	72.4	70.6
82.5°	1182.0	1035.7	240.6	165.4	108.2	79.1	71.8	70.6	67.4	54.9	53.3
85°	623.6	562.3	152.5	112.6	78.5	54.3	49.9	49.9	48.1	36.4	35.4
87.5°	79.6	129.5	77.3	58.8	43.2	24.2	24.2	23.5	25.2	20.8	18.0
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°	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3
2.5°	2785.1	2812.1	2786.4	2788.0	2816.5	2901.9	2940.5	2972.5	3006.6	3029.2	3039.1
5°	2018.6	2081.5	2102.8	2147.6	2213.9	2322.6	2365.7	2397.1	2417.9	2430.3	2435.2
7.5°	1380.5	1418.7	1461.4	1533.6	1677.8	1741.6	1770.2	1763.0	1739.4	1731.0	1722.6
10°	1040.7	1025.5	1017.7	1057.6	1174.2	1238.7	1258.9	1239.2	1226.4	1229.2	1243.2
12.5°	806.4	780.0	748.0	743.5	820.3	878.2	890.9	892.1	915.7	936.5	967.3
15°	587.6	584.8	569.2	559.6	603.3	650.5	656.0	666.2	687.5	702.7	729.6
17.5°	414.4	429.5	441.8	448.1	481.1	514.8	508.6	503.5	499.5	499.5	512.6
20°	334.2	344.3	360.0	377.9	411.6	435.0	420.0	399.7	385.3	380.7	382.4
22.5°	301.1	308.9	317.9	333.6	364.0	380.3	364.0	349.4	334.8	329.7	328.1
25°	284.4	294.4	302.8	314.5	337.0	348.3	332.6	321.9	312.9	306.7	302.2
27.5°	274.7	283.8	286.0	291.6	310.6	320.8	312.9	308.4	302.8	297.2	291.6
30°	264.7	262.9	259.0	259.6	274.7	284.9	284.4	285.4	284.9	283.1	282.1
32.5°	241.6	238.3	234.9	238.3	252.3	261.2	261.9	264.1	264.1	263.6	268.1
35°	201.3	207.5	211.5	221.5	238.3	246.1	242.8	237.2	227.1	221.0	220.4
37.5°	186.2	187.2	194.0	208.0	226.6	233.7	228.8	216.0	209.1	208.0	209.8
40°	178.9	180.0	184.0	196.8	215.4	222.6	218.1	208.5	202.4	201.8	204.6
42.5°	173.8	175.0	177.1	186.2	201.3	210.3	210.8	204.2	196.8	197.4	200.2
45°	171.0	171.5	171.0	175.4	189.5	200.2	204.6	200.2	194.0	195.1	198.4
47.5°	170.5	168.8	166.5	167.7	182.3	192.9	198.4	196.8	194.0	195.1	197.9
50°	168.3	164.3	161.4	160.9	175.4	186.7	191.8	191.8	192.9	195.1	197.9
52.5°	161.4	157.1	157.1	155.3	171.0	181.6	185.1	185.6	187.2	191.2	195.1
55°	153.2	151.5	153.2	150.2	167.7	177.8	179.4	180.6	181.6	185.1	190.6
57.5°	145.7	143.5	147.5	146.3	164.8	173.8	173.8	176.1	176.1	180.6	185.1
60°	141.8	137.4	139.1	140.1	160.9	170.5	169.3	171.5	172.7	176.6	180.0
62.5°	136.8	132.9	132.9	135.7	156.5	165.4	164.8	166.5	171.0	172.1	175.4
65°	130.7	128.9	127.3	130.7	152.0	159.8	160.3	162.7	166.5	167.7	170.5
67.5°	124.4	125.0	121.7	125.0	148.0	154.1	154.1	158.7	160.3	162.7	165.4
70°	117.8	118.2	115.5	119.5	145.3	148.0	147.5	153.6	154.8	156.5	159.3
72.5°	109.4	109.4	108.2	113.8	140.8	141.8	140.8	145.7	146.3	148.0	149.2
75°	100.4	100.4	99.3	107.1	137.9	135.1	131.8	135.7	136.8	137.9	137.9
77.5°	88.7	89.7	89.7	99.3	128.4	132.3	121.1	123.3	125.0	125.7	124.0
80°	74.0	76.8	78.0	90.3	107.6	122.2	108.2	110.0	110.4	110.4	108.2
82.5°	56.7	61.7	64.5	78.0	82.5	102.6	94.2	95.8	94.2	90.9	89.7
85°	39.3	46.0	49.3	59.5	62.3	79.1	78.5	78.5	75.2	70.6	70.1
87.5°	21.3	25.2	27.5	35.4	42.6	53.3	57.8	56.1	53.3	50.5	51.1
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°	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3
2.5°	3091.8	3168.1	3289.9	3382.9	3476.6	3566.8	3664.5	3738.9	3802.3	3827.0	3902.1
5°	2486.2	2581.5	2696.6	2904.1	3051.0	3213.0	3400.4	3648.1	3743.4	3875.3	4091.2
7.5°	1758.0	1844.3	2029.4	2197.0	2405.0	2634.3	2887.2	3229.2	3354.4	3565.7	3917.2
10°	1312.8	1413.0	1561.7	1702.9	1886.4	2120.7	2411.2	2793.5	2945.5	3174.9	3579.7
12.5°	1057.6	1175.9	1333.4	1466.4	1608.1	1773.7	2055.6	2475.1	2678.7	2879.3	3288.8
15°	812.4	936.5	1082.7	1251.6	1408.1	1586.3	1881.8	2340.5	2574.9	2784.0	3133.4
17.5°	562.3	668.3	852.9	1029.0	1229.2	1457.4	1833.6	2369.1	2648.9	2890.0	3160.2
20°	398.7	459.3	610.7	814.8	1064.3	1350.8	1824.6	2519.3	2883.3	3158.6	3333.0
22.5°	335.2	357.7	445.7	633.0	921.3	1271.2	1856.1	2730.2	3199.6	3551.2	3608.3
25°	305.7	319.1	365.0	496.9	794.0	1213.4	1962.0	3044.3	3591.0	3943.6	3933.6
27.5°	289.3	303.4	333.6	419.4	698.2	1177.6	2068.0	3416.6	4038.4	4369.9	4244.2
30°	284.4	303.4	335.2	395.3	629.7	1120.9	2154.9	3743.4	4382.7	4657.5	4385.5
32.5°	280.5	283.1	297.8	340.9	564.7	1054.7	2213.9	4036.8	4719.8	4931.2	4589.1
35°	226.6	240.6	264.1	305.7	526.5	1014.9	2213.9	4289.6	5051.7	5207.6	4783.0
37.5°	218.1	230.4	251.3	286.5	505.2	995.3	2169.4	4533.6	5390.9	5521.1	4943.0
40°	213.6	223.8	243.4	271.9	496.3	972.9	2105.0	4748.9	5722.4	5835.0	5092.0
42.5°	210.3	219.2	237.7	262.9	484.5	948.3	2052.8	4921.6	6010.0	6103.1	5234.5
45°	208.5	218.1	238.3	267.4	460.9	915.7	2035.5	5108.3	6246.6	6326.9	5388.8
47.5°	208.5	219.8	241.1	276.9	433.0	882.0	2089.8	5354.4	6470.3	6509.6	5570.4
50°	206.9	219.2	249.0	267.4	392.0	839.5	2217.7	5664.5	6712.6	6717.0	5800.3
52.5°	203.6	218.1	268.1	261.9	344.9	783.3	2390.4	6062.8	7070.9	7097.8	6160.2
55°	199.7	216.4	262.9	249.0	306.1	716.6	2531.8	6546.6	7574.5	7649.0	6689.6
57.5°	194.6	214.2	254.6	231.0	280.9	630.8	2582.7	6901.0	7926.0	8113.3	7286.2
60°	190.1	212.4	229.8	220.4	265.2	558.4	2484.1	6830.9	7901.9	8305.5	7815.0
62.5°	185.6	214.2	209.8	213.6	258.0	511.9	2226.1	6269.6	7502.1	8107.2	8206.9
65°	180.6	199.1	197.9	208.0	256.2	493.4	1845.4	5428.0	6729.5	7479.6	8299.5
67.5°	173.8	184.0	189.5	200.7	261.9	477.2	1489.3	4477.5	5655.5	6539.3	7817.2
70°	166.5	175.0	181.1	191.8	258.5	470.0	1238.7	3531.0	4487.7	5359.5	6865.7
72.5°	157.1	164.3	169.9	180.0	255.1	466.0	1046.3	2843.4	3350.4	3981.3	5582.2
75°	145.7	152.5	156.5	166.5	244.5	426.8	822.6	2406.1	2507.1	2769.5	4446.2
77.5°	132.9	137.9	141.4	152.5	216.4	354.9	594.9	1856.1	1946.8	2010.8	3408.7
80°	117.8	122.8	124.4	135.1	179.4	277.5	388.1	1371.1	1456.2	1470.9	2226.1
82.5°	100.4	105.5	105.5	115.5	147.0	199.7	254.6	939.3	956.1	1005.5	1573.4
85°	80.8	84.7	84.7	89.7	113.8	149.2	175.0	471.6	466.5	532.8	1363.2
87.5°	57.8	60.5	63.4	64.5	81.2	98.8	105.5	143.5	94.9	108.8	875.3
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°	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3	3446.3
2.5°	3958.8	3990.8	3958.2	3934.7	3833.2	3749.6	3638.0	3580.9
5°	4255.5	4336.7	4309.3	4210.5	3998.6	3760.3	3489.5	3367.2
7.5°	4219.6	4408.5	4413.1	4228.5	3916.3	3565.2	3198.4	3024.7
10°	3940.2	4182.0	4251.0	4072.0	3740.7	3348.2	2927.5	2729.1
12.5°	3628.6	3865.1	3917.9	3856.2	3579.1	3185.0	2758.2	2563.8
15°	3373.3	3479.3	3542.1	3596.1	3440.7	3120.0	2748.8	2535.0
17.5°	3218.1	3206.3	3224.2	3317.9	3344.2	3194.6	2894.5	2659.1
20°	3162.0	2982.1	2977.5	3106.5	3298.8	3372.2	3179.5	2896.8
22.5°	3192.8	2901.3	2864.2	3017.3	3322.9	3628.6	3552.8	3230.5
25°	3299.4	2908.1	2878.3	3026.3	3410.4	3901.6	3956.0	3662.2
27.5°	3467.1	2950.7	2911.3	3063.3	3526.4	4130.9	4352.9	4080.6
30°	3626.3	3024.7	2975.8	3136.3	3632.4	4221.8	4596.4	4406.8
32.5°	3819.8	3163.1	3077.4	3270.2	3763.7	4366.4	4813.4	4677.1
35°	4009.2	3360.5	3254.0	3477.1	3910.1	4546.4	5061.2	5022.6
37.5°	4217.4	3618.5	3530.3	3744.7	4110.3	4716.3	5377.4	5427.4
40°	4439.3	3960.4	3856.2	4134.9	4420.9	4929.4	5707.7	5827.8
42.5°	4663.1	4340.2	4215.7	4498.3	4762.4	5139.7	5990.3	6168.1
45°	4919.4	4752.3	4693.4	4999.0	5090.3	5340.0	6198.9	6419.8
47.5°	5217.6	5220.0	5314.6	5436.9	5421.2	5566.4	6408.7	6644.8
50°	5565.9	5803.6	6012.7	6094.1	5762.2	5809.8	6699.6	6945.9
52.5°	5984.1	6501.8	6760.9	6707.6	6129.5	6106.9	7160.6	7360.8
55°	6507.3	7240.8	7498.2	7460.1	6551.7	6511.9	7734.8	7851.5
57.5°	7113.0	7956.8	8193.5	8022.0	7058.5	6955.9	8209.8	8234.5
60°	7645.0	8524.3	8731.9	8541.8	7569.9	7428.7	8506.4	8386.9
62.5°	7941.1	8716.7	8862.5	8657.8	7920.4	7932.3	8571.4	8304.6
65°	7808.8	8230.5	8277.6	8260.8	7830.2	8224.3	8337.6	7923.8
67.5°	7084.4	7001.4	7080.4	7189.8	7056.4	7839.7	7689.9	7094.5
70°	5808.1	5352.2	5509.8	5583.2	5643.8	6746.2	6674.4	5778.3
72.5°	4377.1	3749.6	3874.1	3858.9	4139.4	5411.1	5190.8	4248.8
75°	3101.5	2542.5	2558.1	2551.9	2888.4	4233.5	3758.6	2906.8
77.5°	2170.0	1842.1	1850.4	1885.3	1941.9	3192.8	2685.4	2123.6
80°	1492.2	1397.9	1444.5	1447.3	1345.8	2144.9	1983.8	1704.1
82.5°	1111.5	971.7	960.6	976.7	1054.7	1737.7	1524.7	1182.0
85°	910.1	575.4	462.5	579.8	934.7	1721.0	1012.7	623.6
87.5°	512.6	273.1	123.3	228.8	372.8	1139.4	292.7	79.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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