

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: P269334

Luminaire Tested: **GLEON-AF-05-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269334  
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-05-LED-E1-SLR-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 14965.6 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 162  
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

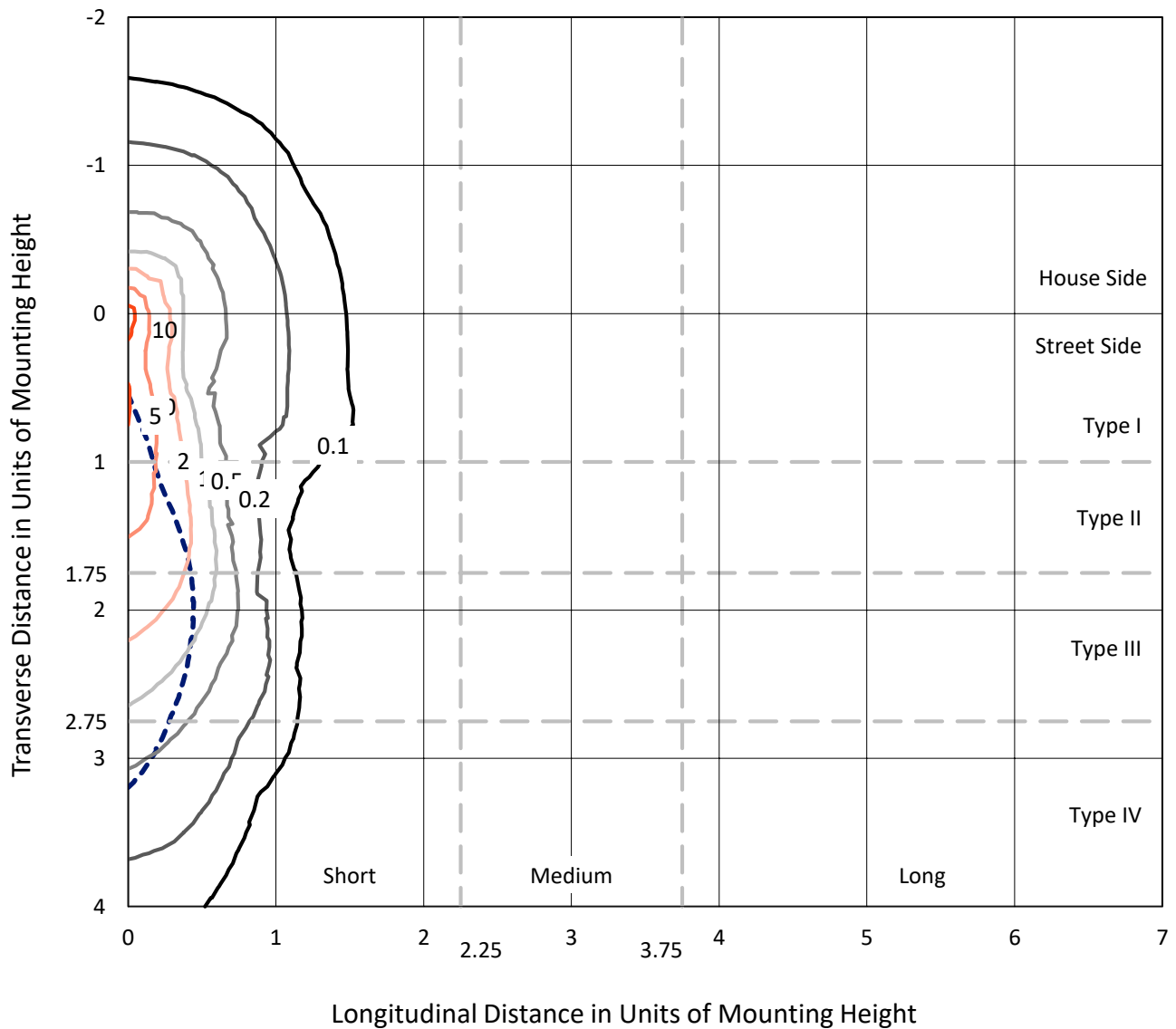


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### Iso-Footcandle Lines of Horizontal Illumination

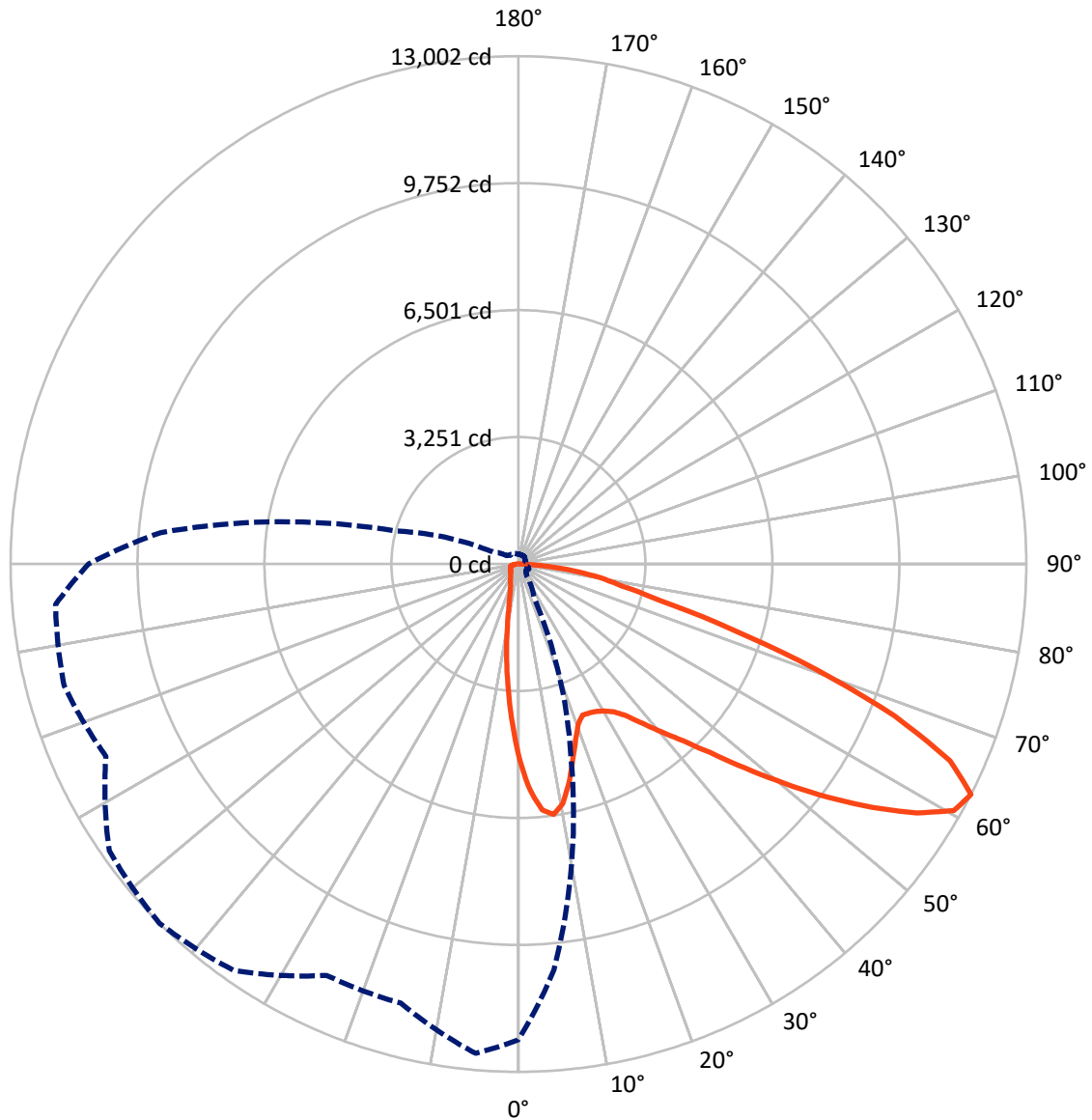
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.6 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	2476.6	0.0	2476.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	12489.0	0.0	12489.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	14965.6	0.0	14965.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.1	2.5
10°-20°	674.9	4.5
20°-30°	984.1	6.6
30°-40°	1515.6	10.1
40°-50°	2230.5	14.9
50°-60°	3271.7	21.9
60°-70°	3657.3	24.4
70°-80°	1790.6	12.0
80°-90°	472.8	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°	14965.6	100.0
0°-180°	14965.6	100.0



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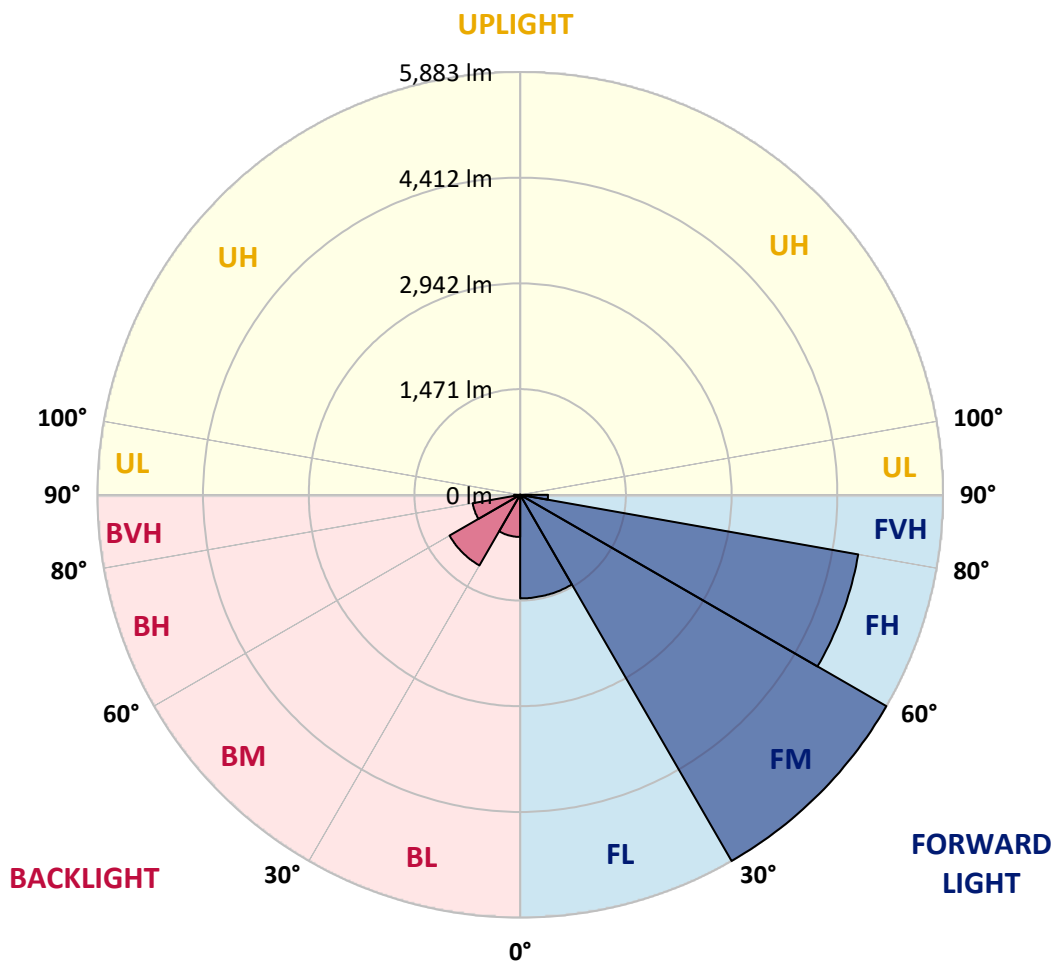
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1441.1	9.6			
FM (30°-60°)	5883.1	39.3			
FH (60°-80°)	4776.5	31.9			G2/5000
FVH (80°-90°)	388.2	2.6			G3/500
BL (0°-30°)	585.9	3.9	B2/1000		
BM (30°-60°)	1134.8	7.6	B2/2500		
BH (60°-80°)	671.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	84.5	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°	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2
2.5°	5253.6	5146.7	4969.0	4784.0	4671.1	4539.6	4436.6	4346.2	4165.3	4129.9	4161.9
5°	4940.1	4725.4	4390.6	4053.3	3828.8	3587.7	3400.2	3249.6	3020.0	2979.8	3028.2
7.5°	4437.5	4180.8	3738.2	3308.0	2990.5	2689.3	2487.0	2325.7	2146.4	2069.1	2073.9
10°	4003.9	3714.4	3191.1	2723.1	2463.2	2259.9	2089.5	1924.3	1742.4	1623.1	1590.2
12.5°	3761.4	3428.1	2825.1	2407.2	2166.2	1952.2	1768.8	1591.8	1397.8	1276.0	1241.4
15°	3719.3	3357.3	2687.6	2204.8	1902.9	1632.2	1415.8	1218.5	1018.5	919.8	899.3
17.5°	3901.2	3484.0	2643.3	2024.6	1655.2	1321.2	1055.5	835.1	672.1	622.7	618.7
20°	4250.1	3727.5	2637.6	1855.1	1410.9	1019.2	735.5	575.0	503.5	489.4	490.4
22.5°	4739.5	4105.2	2708.3	1727.6	1186.3	760.1	552.8	481.2	453.3	440.1	440.1
25°	5372.9	4625.2	2871.2	1634.6	991.3	607.2	487.9	445.1	418.7	409.6	411.3
27.5°	5986.7	5131.1	3060.3	1561.4	863.8	551.2	462.4	423.7	400.6	391.7	395.8
30°	6465.5	5580.2	3218.4	1461.9	798.9	535.6	471.4	431.9	398.9	385.1	385.8
32.5°	6862.1	5973.5	3350.8	1390.3	741.2	459.0	406.5	389.1	385.1	368.6	360.3
35°	7368.7	6402.1	3439.6	1392.0	714.2	409.6	361.9	331.6	309.3	290.4	290.4
37.5°	7962.8	6894.0	3534.2	1410.9	704.2	380.9	346.3	315.9	295.4	277.2	274.0
40°	8550.1	7376.2	3620.6	1429.1	698.4	363.6	334.0	306.1	287.1	269.0	264.1
42.5°	9049.4	7772.7	3698.0	1438.0	678.7	361.9	324.9	299.4	281.3	261.5	256.6
45°	9418.9	8105.0	3781.1	1452.0	658.9	368.6	324.9	298.6	276.4	257.5	252.6
47.5°	9748.8	8495.0	3920.1	1452.0	635.1	356.2	335.6	299.4	275.6	255.8	251.7
50°	10190.6	9029.8	4183.3	1418.3	601.3	343.1	353.8	296.3	268.2	252.6	247.7
52.5°	10799.3	9715.0	4601.3	1359.9	549.6	317.6	351.2	294.6	260.8	244.2	238.6
55°	11519.1	10448.8	5057.0	1291.7	472.1	299.4	338.9	290.4	252.6	234.5	228.7
57.5°	12081.0	10954.0	5377.9	1186.3	404.7	289.6	300.3	286.3	242.7	223.8	218.8
60°	12304.9	10934.3	5465.8	1045.6	371.9	281.3	262.5	320.9	234.5	215.6	209.8
62.5°	12183.9	10429.1	5219.2	947.0	364.4	270.7	246.0	297.0	227.9	209.8	201.6
65°	11625.2	9534.0	4565.0	920.6	385.8	260.0	235.3	232.8	218.8	201.6	193.3
67.5°	10408.5	8196.3	3655.2	923.1	413.0	249.3	224.5	213.1	206.5	192.4	185.1
70°	8477.8	6480.3	2724.6	929.7	427.0	237.0	213.1	200.7	193.3	179.3	174.5
72.5°	6233.5	4994.4	1979.3	886.8	429.4	223.0	197.4	186.8	179.3	164.5	160.3
75°	4264.8	3820.5	1373.1	734.6	374.4	203.1	180.2	170.3	165.4	147.2	144.7
77.5°	3115.5	2867.8	878.6	545.5	288.7	178.6	158.8	151.4	148.1	128.4	125.0
80°	2500.2	2268.9	549.6	373.4	211.5	149.7	133.3	129.1	125.9	106.1	103.7
82.5°	1734.2	1519.6	352.9	242.7	158.8	116.1	105.3	103.7	98.8	80.6	78.2
85°	914.8	825.2	223.8	165.4	115.2	79.8	73.2	73.2	70.7	53.4	51.8
87.5°	116.8	190.0	113.5	86.3	63.3	35.4	35.4	34.6	37.0	30.5	26.3
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2
2.5°	4086.3	4125.7	4087.8	4090.3	4132.4	4257.3	4314.1	4361.0	4411.1	4444.2	4458.9
5°	2961.6	3053.8	3085.0	3150.9	3247.9	3407.5	3471.0	3517.0	3547.3	3565.6	3572.9
7.5°	2025.5	2081.5	2144.0	2250.1	2461.4	2555.3	2597.2	2586.5	2551.9	2539.6	2527.3
10°	1526.8	1504.8	1493.2	1551.6	1722.7	1817.4	1846.9	1818.1	1799.2	1803.3	1823.9
12.5°	1183.0	1144.4	1097.5	1090.9	1203.5	1288.3	1307.3	1308.9	1343.4	1373.9	1419.1
15°	862.2	858.1	835.1	821.1	885.2	954.3	962.5	977.4	1008.5	1030.8	1070.3
17.5°	608.0	630.3	648.2	657.3	705.9	755.2	746.2	738.8	732.9	732.9	751.9
20°	490.4	505.1	528.2	554.4	603.8	638.3	616.1	586.6	565.2	558.6	561.1
22.5°	441.7	453.3	466.5	489.4	534.0	557.8	534.0	512.6	491.2	483.7	481.2
25°	417.2	431.9	444.2	461.5	494.4	510.9	487.9	472.1	459.0	450.1	443.5
27.5°	403.1	416.3	419.6	427.9	455.8	470.6	459.0	452.4	444.2	435.9	427.9
30°	388.2	385.8	380.1	380.9	403.1	417.9	417.2	418.7	417.9	415.5	413.8
32.5°	354.7	349.6	344.7	349.6	370.2	383.3	384.1	387.4	387.4	386.7	393.3
35°	295.4	304.3	310.2	324.9	349.6	361.2	356.2	348.1	333.2	324.2	323.3
37.5°	273.2	274.8	284.7	305.2	332.4	343.1	335.6	316.7	306.9	305.2	307.7
40°	262.5	264.1	269.9	288.7	315.9	326.7	320.1	306.1	297.0	296.3	300.3
42.5°	254.9	256.6	260.0	273.2	295.4	308.5	309.3	299.4	288.7	289.6	293.7
45°	250.9	251.7	250.9	257.5	278.0	293.7	300.3	293.7	284.7	286.3	291.2
47.5°	250.1	247.7	244.2	246.0	267.3	283.0	291.2	288.7	284.7	286.3	290.4
50°	246.9	241.0	237.0	236.2	257.5	274.0	281.3	281.3	283.0	286.3	290.4
52.5°	237.0	230.3	230.3	227.9	250.9	266.5	271.5	272.2	274.8	280.5	286.3
55°	224.5	222.2	224.5	220.4	246.0	260.8	263.3	264.9	266.5	271.5	279.7
57.5°	213.8	210.7	216.3	214.8	241.9	254.9	254.9	258.4	258.4	264.9	271.5
60°	208.1	201.6	204.1	205.7	236.2	250.1	248.4	251.7	253.4	259.2	264.1
62.5°	200.7	195.0	195.0	199.1	229.5	242.7	241.9	244.2	250.9	252.6	257.5
65°	191.7	189.3	186.8	191.7	223.0	234.5	235.3	238.6	244.2	246.0	250.1
67.5°	182.6	183.4	178.6	183.4	217.2	226.3	226.3	232.8	235.3	238.6	242.7
70°	172.7	173.6	169.5	175.2	213.1	217.2	216.3	225.5	227.0	229.5	233.6
72.5°	160.3	160.3	158.8	167.1	206.5	208.1	206.5	213.8	214.8	217.2	218.8
75°	147.2	147.2	145.6	157.2	202.4	198.3	193.3	199.1	200.7	202.4	202.4
77.5°	130.0	131.6	131.6	145.6	188.4	194.2	177.8	181.0	183.4	184.3	181.7
80°	108.5	112.6	114.4	132.5	157.9	179.3	158.8	161.2	162.1	162.1	158.8
82.5°	83.2	90.5	94.6	114.4	120.9	150.6	138.2	140.7	138.2	133.3	131.6
85°	57.6	67.5	72.5	87.1	91.3	116.1	115.2	115.2	110.2	103.7	102.9
87.5°	31.4	37.0	40.3	51.8	62.5	78.2	84.7	82.3	78.2	74.0	74.9
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2
2.5°	4536.4	4648.1	4826.7	4963.2	5100.7	5233.0	5376.3	5485.6	5578.7	5614.8	5725.1
5°	3647.7	3787.7	3956.2	4260.8	4476.3	4713.9	4988.7	5352.3	5492.1	5685.6	6002.2
7.5°	2579.2	2705.8	2977.3	3223.3	3528.5	3865.0	4236.0	4737.8	4921.3	5231.4	5747.3
10°	1925.8	2073.2	2291.1	2498.5	2767.5	3111.4	3537.5	4098.5	4321.6	4658.0	5252.0
12.5°	1551.6	1725.1	1956.2	2151.4	2359.5	2602.1	3016.0	3631.3	3929.9	4224.5	4825.1
15°	1192.1	1373.9	1588.7	1836.2	2065.7	2327.4	2760.9	3434.0	3777.7	4084.7	4597.2
17.5°	825.2	980.6	1251.2	1509.6	1803.3	2138.1	2690.2	3475.8	3886.3	4240.1	4636.6
20°	584.9	673.8	895.9	1195.4	1561.4	1981.8	2676.9	3696.3	4230.2	4634.1	4890.1
22.5°	491.9	524.9	654.1	928.8	1351.7	1865.1	2723.1	4005.6	4694.3	5210.0	5293.9
25°	448.3	468.0	535.6	728.9	1164.9	1780.4	2878.6	4466.4	5268.5	5786.0	5771.2
27.5°	424.4	445.1	489.4	615.3	1024.2	1727.6	3034.0	5012.6	5925.0	6411.2	6227.0
30°	417.2	445.1	491.9	579.9	923.8	1644.5	3161.6	5492.1	6430.1	6833.1	6434.2
32.5°	411.3	415.5	436.8	500.1	828.4	1547.5	3247.9	5922.4	6924.6	7234.7	6732.8
35°	332.4	352.9	387.4	448.3	772.5	1489.0	3247.9	6293.5	7411.6	7640.3	7017.5
37.5°	320.1	338.1	368.6	420.3	741.2	1460.3	3183.0	6651.4	7909.2	8100.0	7251.9
40°	313.5	328.2	357.0	398.9	728.0	1427.3	3088.4	6967.3	8395.5	8560.8	7470.8
42.5°	308.5	321.7	348.8	385.8	710.7	1391.1	3011.8	7220.7	8817.6	8954.0	7679.7
45°	306.1	320.1	349.6	392.4	676.2	1343.4	2986.3	7494.6	9164.7	9282.2	7906.0
47.5°	306.1	322.5	353.8	406.5	635.1	1294.1	3066.2	7855.8	9492.8	9550.5	8172.5
50°	303.5	321.7	365.3	392.4	575.0	1231.5	3253.8	8310.7	9848.3	9854.9	8509.9
52.5°	298.6	320.1	393.3	384.1	505.9	1149.3	3507.2	8894.8	10373.9	10413.5	9037.9
55°	292.8	317.6	385.8	365.3	449.2	1051.3	3714.4	9604.8	11112.8	11222.2	9814.6
57.5°	285.5	314.2	373.4	338.9	412.1	925.6	3789.3	10124.7	11628.6	11903.4	10689.9
60°	279.0	311.8	337.4	323.3	389.1	819.4	3644.5	10021.9	11593.3	12185.6	11465.6
62.5°	272.2	314.2	307.7	313.5	378.5	751.2	3266.1	9198.4	11006.7	11894.3	12040.7
65°	264.9	292.0	290.4	305.2	376.0	723.9	2707.4	7963.6	9873.0	10973.8	12176.4
67.5°	254.9	269.9	278.0	294.6	384.1	700.0	2185.0	6569.1	8297.6	9594.1	11469.0
70°	244.2	256.6	265.7	281.3	379.3	689.4	1817.4	5180.4	6583.9	7863.1	10073.0
72.5°	230.3	241.0	249.3	264.1	374.4	683.6	1535.2	4171.8	4915.5	5841.0	8189.8
75°	213.8	223.8	229.5	244.2	358.8	626.1	1206.9	3530.1	3678.2	4063.3	6523.0
77.5°	195.0	202.4	207.2	223.8	317.6	520.7	872.9	2723.1	2856.3	2950.2	5001.0
80°	172.7	180.2	182.6	198.3	263.3	407.2	569.3	2011.5	2136.4	2157.9	3266.1
82.5°	147.2	154.7	154.7	169.5	215.6	292.8	373.4	1378.0	1402.7	1475.0	2308.5
85°	118.4	124.2	124.2	131.6	167.1	218.8	256.6	691.9	684.5	781.5	1999.9
87.5°	84.7	88.8	93.0	94.6	119.3	144.7	154.7	210.7	139.1	159.5	1284.1
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2	5056.2
2.5°	5808.1	5855.1	5807.4	5772.8	5623.8	5501.3	5337.5	5253.6
5°	6243.3	6362.6	6322.4	6177.6	5866.6	5516.9	5119.5	4940.1
7.5°	6190.7	6467.9	6474.5	6203.9	5745.6	5230.7	4692.6	4437.5
10°	5781.0	6135.6	6236.8	5974.3	5488.1	4912.2	4295.2	4003.9
12.5°	5323.5	5670.7	5748.1	5657.5	5251.1	4672.9	4046.8	3761.4
15°	4949.2	5104.7	5196.9	5275.8	5047.9	4577.5	4032.9	3719.3
17.5°	4721.3	4704.1	4730.5	4867.7	4906.5	4686.7	4246.6	3901.2
20°	4639.0	4375.0	4368.5	4557.6	4839.8	4947.7	4664.5	4250.1
22.5°	4684.3	4256.6	4202.2	4426.8	4875.2	5323.5	5212.5	4739.5
25°	4840.6	4266.4	4222.8	4440.1	5003.6	5724.2	5803.9	5372.9
27.5°	5086.7	4328.9	4271.4	4494.3	5173.9	6060.7	6386.5	5986.7
30°	5320.3	4437.5	4365.9	4601.3	5329.4	6194.0	6743.5	6465.5
32.5°	5604.0	4640.7	4514.9	4797.8	5521.8	6406.3	7061.8	6862.1
35°	5882.2	4930.3	4774.0	5101.5	5736.5	6670.4	7425.5	7368.7
37.5°	6187.3	5308.8	5179.5	5493.9	6030.2	6919.6	7889.5	7962.8
40°	6513.3	5810.5	5657.5	6066.4	6486.0	7232.2	8374.1	8550.1
42.5°	6841.4	6367.5	6184.9	6599.6	6987.0	7540.7	8788.7	9049.4
45°	7217.4	6972.3	6885.9	7334.2	7468.2	7834.4	9094.7	9418.9
47.5°	7655.0	7658.3	7797.4	7976.7	7953.7	8166.8	9402.4	9748.8
50°	8166.0	8514.8	8821.6	8940.9	8453.9	8523.7	9829.3	10190.6
52.5°	8779.7	9539.0	9919.1	9840.9	8992.8	8959.9	10505.7	10799.3
55°	9547.1	10623.3	11001.0	10944.9	9612.3	9553.8	11348.1	11519.1
57.5°	10435.7	11673.8	12020.9	11769.2	10355.9	10205.4	12044.8	12081.0
60°	11216.4	12506.5	12810.8	12531.9	11106.1	10898.9	12480.1	12304.9
62.5°	11650.7	12788.6	13002.4	12702.3	11620.4	11637.6	12575.6	12183.9
65°	11456.7	12075.2	12144.5	12119.8	11488.0	12066.3	12232.4	11625.2
67.5°	10393.7	10271.9	10388.0	10548.3	10352.5	11501.9	11282.3	10408.5
70°	8521.3	7852.4	8083.7	8191.5	8280.2	9897.6	9792.3	8477.8
72.5°	6421.9	5501.3	5683.8	5661.7	6073.0	7939.0	7615.6	6233.5
75°	4550.3	3730.0	3753.1	3744.0	4237.7	6211.2	5514.4	4264.8
77.5°	3183.8	2702.6	2714.9	2765.8	2849.0	4684.3	3939.8	3115.5
80°	2189.2	2050.9	2119.2	2123.4	1974.5	3146.8	2910.7	2500.2
82.5°	1630.6	1425.7	1409.3	1433.1	1547.5	2549.5	2236.9	1734.2
85°	1335.2	844.0	678.7	850.7	1371.4	2524.7	1485.7	914.8
87.5°	751.9	400.6	181.0	335.6	547.1	1671.7	429.4	116.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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