

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: P192140

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192140  
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-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 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: 11741 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - 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

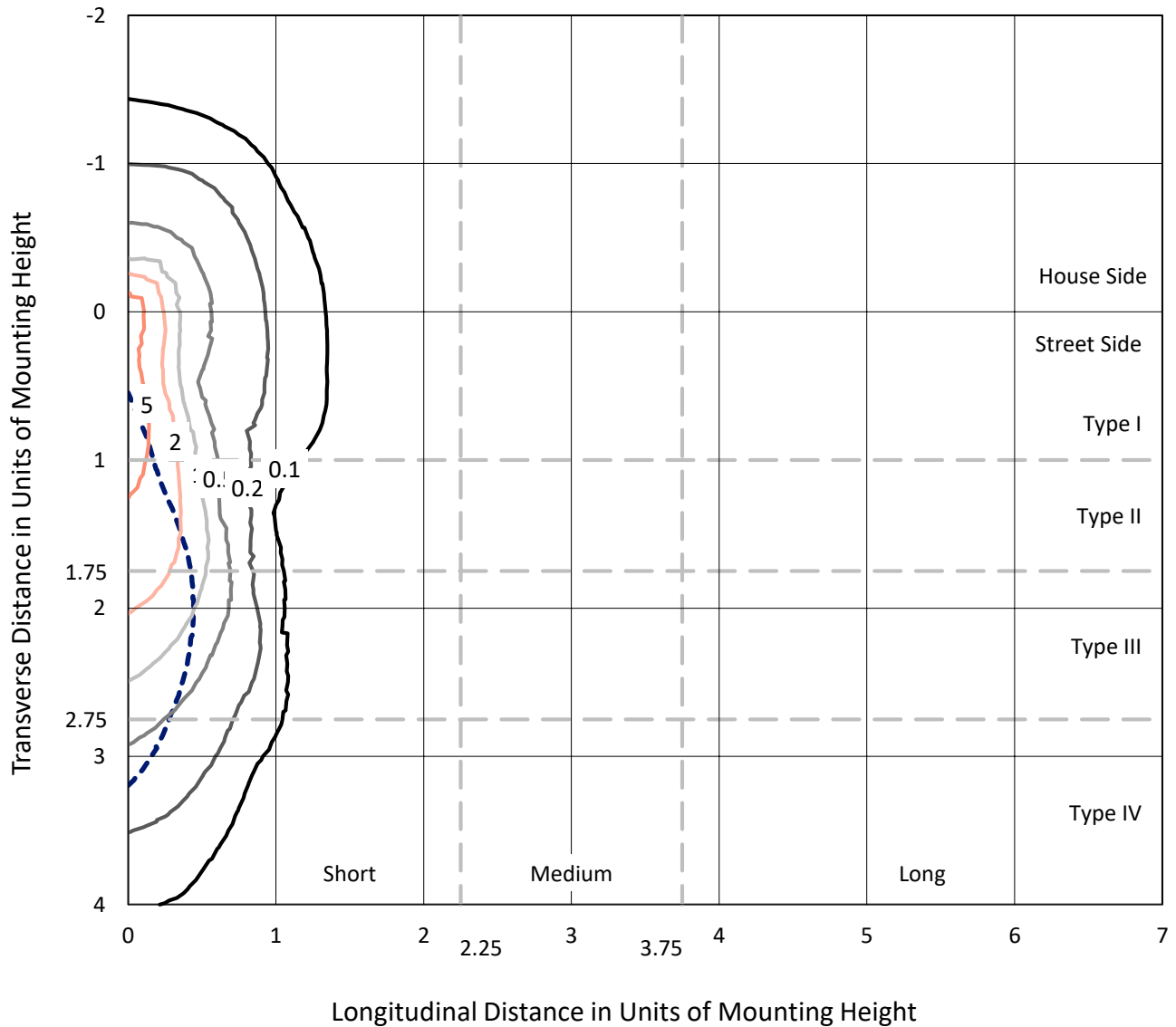


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

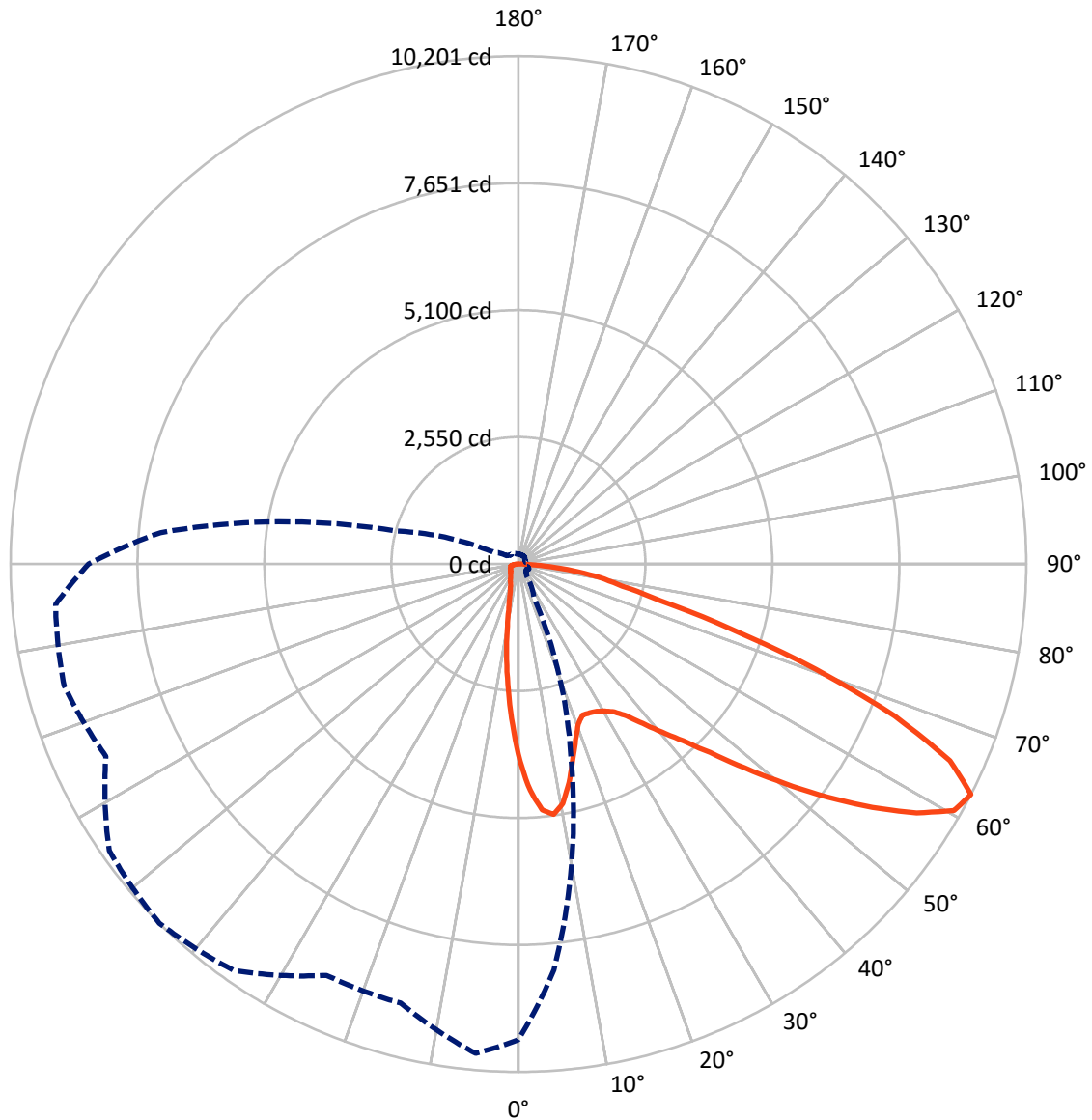


Based on 20 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	1943.0	0.0	1943.0
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	9798.0	0.0	9798.0
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	11741.0	0.0	11741.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.8	2.5
10°-20°	529.5	4.5
20°-30°	772.0	6.6
30°-40°	1189.0	10.1
40°-50°	1749.9	14.9
50°-60°	2566.8	21.9
60°-70°	2869.3	24.4
70°-80°	1404.8	12.0
80°-90°	370.9	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°	11741.0	100.0
0°-180°	11741.0	100.0



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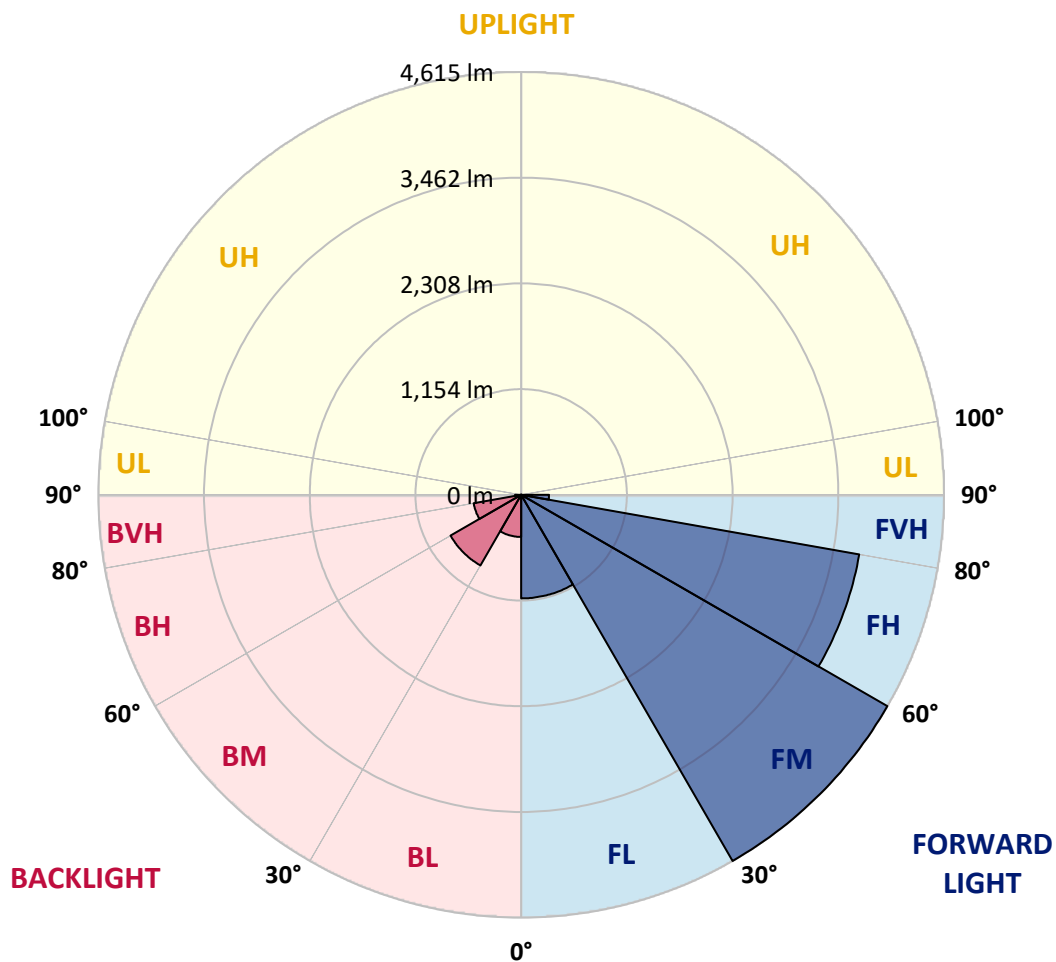
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1130.6	9.6			
FM	(30°-60°)	4615.5	39.3			
FH	(60°-80°)	3747.3	31.9			G2/5000
FVH	(80°-90°)	304.6	2.6			G3/500
BL	(0°-30°)	459.7	3.9	B1/500		
BM	(30°-60°)	890.3	7.6	B1/1000		
BH	(60°-80°)	526.7	4.5	B2/1000		G2/1000
BVH	(80°-90°)	66.3	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°	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	4121.6	4037.7	3898.3	3753.1	3664.7	3561.4	3480.7	3409.7	3267.8	3240.0	3265.2
5°	3875.7	3707.3	3444.6	3180.0	3003.8	2814.7	2667.5	2549.4	2369.3	2337.7	2375.8
7.5°	3481.4	3280.0	2932.8	2595.2	2346.1	2109.9	1951.1	1824.6	1683.9	1623.2	1627.1
10°	3141.3	2914.1	2503.6	2136.3	1932.4	1773.0	1639.4	1509.6	1367.0	1273.4	1247.6
12.5°	2950.9	2689.5	2216.4	1888.5	1699.4	1531.6	1387.6	1248.9	1096.6	1001.0	973.9
15°	2917.9	2634.0	2108.6	1729.7	1492.9	1280.5	1110.8	955.9	799.0	721.6	705.4
17.5°	3060.6	2733.3	2073.7	1588.4	1298.6	1036.5	828.1	655.1	527.3	488.6	485.4
20°	3334.2	2924.4	2069.2	1455.4	1106.9	799.7	577.0	451.1	395.0	384.0	384.7
22.5°	3718.3	3220.6	2124.7	1355.4	930.7	596.4	433.7	377.6	355.6	345.3	345.3
25°	4215.2	3628.5	2252.5	1282.4	777.7	476.3	382.7	349.2	328.5	321.4	322.7
27.5°	4696.7	4025.5	2401.0	1225.0	677.7	432.4	362.7	332.4	314.3	307.2	310.4
30°	5072.3	4377.9	2524.9	1146.9	626.7	420.2	369.8	338.8	313.0	302.1	302.7
32.5°	5383.4	4686.4	2628.8	1090.8	581.5	360.1	318.8	305.3	302.1	289.1	282.7
35°	5781.0	5022.6	2698.5	1092.0	560.2	321.4	284.0	260.1	242.7	227.8	227.8
37.5°	6247.0	5408.6	2772.7	1106.9	552.5	298.8	271.7	247.8	231.7	217.5	214.9
40°	6707.8	5786.8	2840.5	1121.1	548.0	285.3	262.0	240.1	225.3	211.1	207.2
42.5°	7099.6	6097.9	2901.2	1128.2	532.5	284.0	254.9	234.9	220.7	205.2	201.4
45°	7389.4	6358.7	2966.3	1139.2	517.0	289.1	254.9	234.3	216.9	202.0	198.1
47.5°	7648.2	6664.6	3075.4	1139.2	498.3	279.5	263.3	234.9	216.2	200.7	197.5
50°	7994.8	7084.1	3282.0	1112.7	471.8	269.1	277.5	232.4	210.4	198.1	194.3
52.5°	8472.4	7621.7	3609.8	1066.9	431.1	249.1	275.6	231.1	204.6	191.7	187.2
55°	9037.2	8197.5	3967.4	1013.3	370.5	234.9	265.9	227.8	198.1	183.9	179.4
57.5°	9478.0	8593.7	4219.1	930.7	317.5	227.2	235.6	224.6	190.4	175.6	171.7
60°	9653.5	8578.3	4288.2	820.3	291.7	220.7	205.9	251.7	183.9	169.1	164.6
62.5°	9558.6	8182.0	4094.5	742.9	285.9	212.3	193.0	233.0	178.8	164.6	158.1
65°	9120.4	7479.8	3581.4	722.2	302.7	204.0	184.6	182.7	171.7	158.1	151.7
67.5°	8165.8	6430.3	2867.6	724.2	324.0	195.6	176.2	167.2	162.0	151.0	145.2
70°	6651.0	5084.0	2137.6	729.3	335.0	185.9	167.2	157.5	151.7	140.7	136.8
72.5°	4890.3	3918.3	1552.9	695.8	336.9	174.9	154.9	146.5	140.7	129.1	125.9
75°	3345.8	2997.3	1077.2	576.4	293.7	159.4	141.3	133.6	129.7	115.5	113.6
77.5°	2444.2	2249.9	689.3	427.9	226.5	140.1	124.6	118.8	116.2	100.7	98.1
80°	1961.4	1780.1	431.1	293.0	165.9	117.5	104.6	101.3	98.7	83.3	81.3
82.5°	1360.5	1192.1	276.9	190.4	124.6	91.0	82.6	81.3	77.5	63.3	61.3
85°	717.7	647.4	175.6	129.7	90.4	62.6	57.4	57.4	55.5	42.0	40.7
87.5°	91.6	149.1	89.1	67.8	49.7	27.8	27.8	27.1	29.0	23.9	20.7
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°	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	3205.8	3236.8	3207.1	3209.0	3241.9	3340.0	3384.6	3421.4	3460.7	3486.6	3498.2
5°	2323.5	2395.8	2420.3	2472.0	2548.1	2673.3	2723.0	2759.2	2783.0	2797.2	2803.1
7.5°	1589.0	1632.9	1682.0	1765.2	1931.1	2004.7	2037.6	2029.2	2002.1	1992.4	1982.7
10°	1197.9	1180.5	1171.4	1217.3	1351.5	1425.7	1449.0	1426.4	1411.5	1414.8	1430.9
12.5°	928.1	897.8	861.0	855.8	944.2	1010.7	1025.6	1026.9	1054.0	1077.8	1113.3
15°	676.4	673.2	655.1	644.1	694.5	748.7	755.1	766.8	791.3	808.7	839.7
17.5°	477.0	494.4	508.6	515.7	553.8	592.5	585.4	579.6	575.1	575.1	589.9
20°	384.7	396.3	414.4	435.0	473.7	500.8	483.4	460.2	443.4	438.2	440.2
22.5°	346.6	355.6	366.0	384.0	418.9	437.6	418.9	402.1	385.3	379.5	377.6
25°	327.2	338.8	348.5	362.1	387.9	400.8	382.7	370.5	360.1	353.0	347.9
27.5°	316.3	326.6	329.2	335.6	357.6	369.2	360.1	355.0	348.5	342.1	335.6
30°	304.6	302.7	298.2	298.8	316.3	327.9	327.2	328.5	327.9	325.9	324.6
32.5°	278.2	274.3	270.4	274.3	290.4	300.8	301.4	304.0	304.0	303.3	308.5
35°	231.7	238.8	243.3	254.9	274.3	283.3	279.5	273.0	261.4	254.3	253.6
37.5°	214.3	215.6	223.3	239.5	260.7	269.1	263.3	248.5	240.7	239.5	241.4
40°	205.9	207.2	211.7	226.5	247.8	256.2	251.1	240.1	233.0	232.4	235.6
42.5°	200.1	201.4	204.0	214.3	231.7	242.0	242.7	234.9	226.5	227.2	230.4
45°	196.9	197.5	196.9	202.0	218.2	230.4	235.6	230.4	223.3	224.6	228.5
47.5°	196.2	194.3	191.7	193.0	209.8	222.0	228.5	226.5	223.3	224.6	227.8
50°	193.6	189.1	185.9	185.2	202.0	214.9	220.7	220.7	222.0	224.6	227.8
52.5°	185.9	180.7	180.7	178.8	196.9	209.1	213.0	213.6	215.6	220.1	224.6
55°	176.2	174.3	176.2	173.0	193.0	204.6	206.5	207.8	209.1	213.0	219.4
57.5°	167.8	165.2	169.7	168.5	189.8	200.1	200.1	202.7	202.7	207.8	213.0
60°	163.3	158.1	160.1	161.4	185.2	196.2	194.9	197.5	198.8	203.3	207.2
62.5°	157.5	153.0	153.0	156.2	180.1	190.4	189.8	191.7	196.9	198.1	202.0
65°	150.4	148.4	146.5	150.4	174.9	183.9	184.6	187.2	191.7	193.0	196.2
67.5°	143.3	143.9	140.1	143.9	170.4	177.5	177.5	182.7	184.6	187.2	190.4
70°	135.5	136.2	133.0	137.5	167.2	170.4	169.7	176.8	178.1	180.1	183.3
72.5°	125.9	125.9	124.6	131.0	162.0	163.3	162.0	167.8	168.5	170.4	171.7
75°	115.5	115.5	114.2	123.3	158.8	155.5	151.7	156.2	157.5	158.8	158.8
77.5°	102.0	103.3	103.3	114.2	147.8	152.3	139.4	142.0	143.9	144.6	142.6
80°	85.2	88.4	89.7	103.9	123.9	140.7	124.6	126.5	127.1	127.1	124.6
82.5°	65.2	71.0	74.2	89.7	94.9	118.1	108.4	110.4	108.4	104.6	103.3
85°	45.2	52.9	56.8	68.4	71.6	91.0	90.4	90.4	86.5	81.3	80.7
87.5°	24.5	29.0	31.6	40.7	49.1	61.3	66.5	64.5	61.3	58.1	58.7
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°	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	3558.8	3646.6	3786.7	3893.8	4001.6	4105.5	4217.8	4303.7	4376.6	4405.0	4491.5
5°	2861.8	2971.5	3103.8	3342.6	3511.7	3698.2	3913.8	4199.1	4308.8	4460.5	4709.0
7.5°	2023.4	2122.8	2335.8	2528.7	2768.2	3032.2	3323.3	3717.0	3860.9	4104.2	4508.9
10°	1510.9	1626.5	1797.5	1960.1	2171.2	2441.0	2775.3	3215.5	3390.4	3654.4	4120.4
12.5°	1217.3	1353.4	1534.8	1687.8	1851.1	2041.5	2366.1	2848.9	3083.2	3314.2	3785.4
15°	935.2	1077.8	1246.3	1440.6	1620.6	1825.9	2166.0	2694.0	2963.8	3204.5	3606.6
17.5°	647.4	769.3	981.7	1184.3	1414.8	1677.4	2110.5	2726.9	3049.0	3326.5	3637.6
20°	458.9	528.6	702.9	937.8	1225.0	1554.8	2100.2	2899.9	3318.7	3635.6	3836.4
22.5°	386.0	411.8	513.1	728.7	1060.4	1463.2	2136.3	3142.5	3682.8	4087.4	4153.3
25°	351.8	367.2	420.2	571.8	913.9	1396.7	2258.3	3504.0	4133.3	4539.2	4527.6
27.5°	333.0	349.2	384.0	482.8	803.5	1355.4	2380.3	3932.5	4648.3	5029.7	4885.2
30°	327.2	349.2	386.0	455.0	724.8	1290.2	2480.3	4308.8	5044.6	5360.8	5047.8
32.5°	322.7	325.9	342.7	392.4	649.9	1214.0	2548.1	4646.4	5432.5	5675.8	5282.1
35°	260.7	276.9	304.0	351.8	606.0	1168.2	2548.1	4937.5	5814.6	5994.0	5505.4
37.5°	251.1	265.3	289.1	329.8	581.5	1145.6	2497.1	5218.2	6205.1	6354.8	5689.4
40°	245.9	257.5	280.1	313.0	571.2	1119.8	2422.9	5466.0	6586.5	6716.2	5861.0
42.5°	242.0	252.4	273.7	302.7	557.6	1091.4	2362.9	5664.8	6917.6	7024.7	6025.0
45°	240.1	251.1	274.3	307.9	530.5	1054.0	2342.9	5879.8	7190.0	7282.3	6202.5
47.5°	240.1	253.0	277.5	318.8	498.3	1015.2	2405.5	6163.1	7447.5	7492.7	6411.6
50°	238.2	252.4	286.6	307.9	451.1	966.2	2552.6	6520.0	7726.3	7731.5	6676.2
52.5°	234.3	251.1	308.5	301.4	396.9	901.6	2751.4	6978.3	8138.7	8169.7	7090.6
55°	229.8	249.1	302.7	286.6	352.4	824.8	2914.1	7535.3	8718.3	8804.2	7699.8
57.5°	224.0	246.5	293.0	265.9	323.4	726.1	2972.8	7943.2	9123.0	9338.6	8386.6
60°	218.8	244.6	264.6	253.6	305.3	642.8	2859.2	7862.5	9095.2	9559.9	8995.2
62.5°	213.6	246.5	241.4	245.9	296.9	589.3	2562.3	7216.4	8635.1	9331.5	9446.3
65°	207.8	229.1	227.8	239.5	295.0	568.0	2124.1	6247.7	7745.7	8609.2	9552.8
67.5°	200.1	211.7	218.2	231.1	301.4	549.3	1714.2	5153.7	6509.7	7526.9	8997.8
70°	191.7	201.4	208.5	220.7	297.5	540.9	1425.7	4064.2	5165.3	6168.9	7902.5
72.5°	180.7	189.1	195.6	207.2	293.7	536.3	1204.4	3272.9	3856.4	4582.5	6425.1
75°	167.8	175.6	180.1	191.7	281.4	491.2	946.8	2769.5	2885.7	3187.7	5117.5
77.5°	153.0	158.8	162.6	175.6	249.1	408.5	684.8	2136.3	2240.9	2314.5	3923.5
80°	135.5	141.3	143.3	155.5	206.5	319.5	446.6	1578.0	1676.2	1692.9	2562.3
82.5°	115.5	121.3	121.3	133.0	169.1	229.8	293.0	1081.1	1100.4	1157.2	1811.0
85°	92.9	97.5	97.5	103.3	131.0	171.7	201.4	542.8	537.0	613.1	1569.0
87.5°	66.5	69.7	72.9	74.2	93.6	113.6	121.3	165.2	109.1	125.2	1007.5
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7	3966.7
2.5°	4556.7	4593.4	4556.0	4528.9	4412.1	4315.9	4187.5	4121.6
5°	4898.1	4991.7	4960.0	4846.4	4602.5	4328.2	4016.4	3875.7
7.5°	4856.8	5074.3	5079.4	4867.1	4507.6	4103.6	3681.5	3481.4
10°	4535.4	4813.5	4892.9	4687.0	4305.6	3853.8	3369.7	3141.3
12.5°	4176.5	4448.9	4509.5	4438.5	4119.7	3666.0	3174.8	2950.9
15°	3882.8	4004.8	4077.1	4139.1	3960.3	3591.1	3163.8	2917.9
17.5°	3704.1	3690.5	3711.2	3818.9	3849.3	3676.9	3331.7	3060.6
20°	3639.5	3432.3	3427.2	3575.6	3797.0	3881.5	3659.5	3334.2
22.5°	3675.0	3339.4	3296.8	3473.0	3824.8	4176.5	4089.4	3718.3
25°	3797.6	3347.1	3312.9	3483.3	3925.4	4490.8	4553.4	4215.2
27.5°	3990.6	3396.2	3351.0	3525.9	4059.0	4754.8	5010.4	4696.7
30°	4173.9	3481.4	3425.2	3609.8	4181.0	4859.4	5290.5	5072.3
32.5°	4396.6	3640.8	3542.1	3764.1	4332.0	5025.9	5540.3	5383.4
35°	4614.7	3868.0	3745.4	4002.2	4500.5	5233.1	5825.5	5781.0
37.5°	4854.2	4164.9	4063.6	4310.1	4730.9	5428.6	6189.6	6247.0
40°	5109.8	4558.6	4438.5	4759.3	5088.5	5673.9	6569.7	6707.8
42.5°	5367.3	4995.5	4852.3	5177.5	5481.5	5915.9	6895.0	7099.6
45°	5662.3	5469.9	5402.2	5753.9	5859.1	6146.3	7135.1	7389.4
47.5°	6005.6	6008.2	6117.3	6258.0	6239.9	6407.1	7376.5	7648.2
50°	6406.4	6680.1	6920.8	7014.4	6632.3	6687.2	7711.5	7994.8
52.5°	6887.9	7483.6	7781.8	7720.5	7055.1	7029.3	8242.0	8472.4
55°	7490.1	8334.3	8630.5	8586.6	7541.1	7495.2	8902.9	9037.2
57.5°	8187.1	9158.5	9430.9	9233.4	8124.5	8006.4	9449.6	9478.0
60°	8799.6	9811.7	10050.5	9831.7	8713.2	8550.5	9791.0	9653.5
62.5°	9140.4	10033.0	10200.8	9965.3	9116.5	9130.1	9865.9	9558.6
65°	8988.1	9473.5	9527.7	9508.3	9012.6	9466.4	9596.7	9120.4
67.5°	8154.2	8058.7	8149.7	8275.6	8121.9	9023.6	8851.3	8165.8
70°	6685.2	6160.5	6341.9	6426.4	6496.1	7765.0	7682.4	6651.0
72.5°	5038.1	4315.9	4459.2	4441.8	4764.5	6228.3	5974.6	4890.3
75°	3569.8	2926.3	2944.4	2937.3	3324.6	4872.9	4326.2	3345.8
77.5°	2497.8	2120.2	2129.9	2169.9	2235.1	3675.0	3090.9	2444.2
80°	1717.5	1609.0	1662.6	1665.8	1549.0	2468.7	2283.5	1961.4
82.5°	1279.2	1118.5	1105.6	1124.3	1214.0	2000.2	1754.9	1360.5
85°	1047.5	662.2	532.5	667.4	1075.9	1980.8	1165.6	717.7
87.5°	589.9	314.3	142.0	263.3	429.2	1311.5	336.9	91.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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