

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: P193881

Luminaire Tested: **GLEON-AF-03-LED-E1-SLR-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193881  
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-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 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: 14296 lumens  
Efficiency: N/A  
Efficacy: 74.8 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): 191  
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

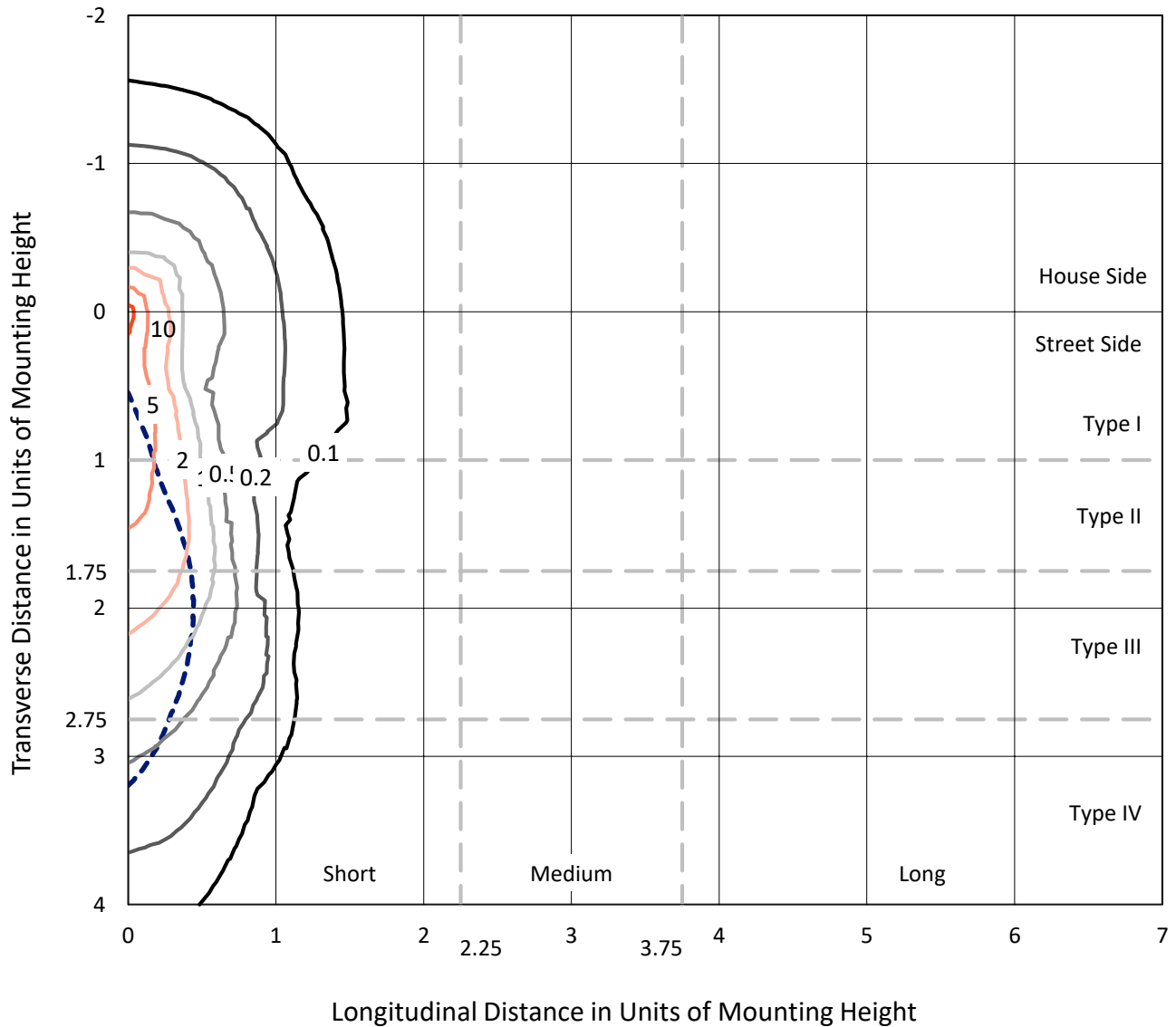


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

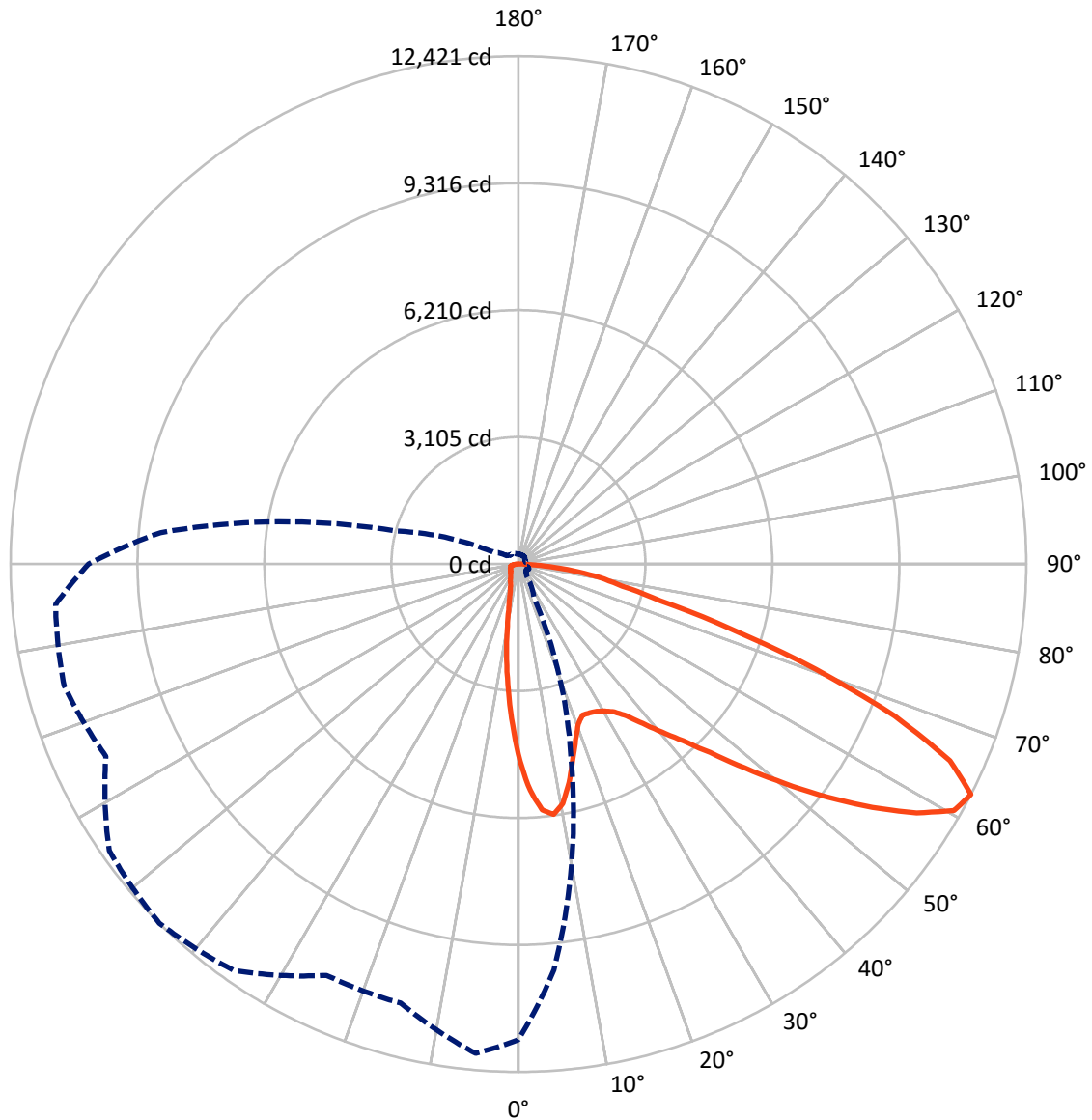


Based on 20 foot mounting height. Maximum calculated value = 12.1 fc  
 Type IV - Short - Non-Cutoff

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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	2365.8	0.0	2365.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	11930.2	0.0	11930.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	14296.0	0.0	14296.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.6	2.5
10°-20°	644.7	4.5
20°-30°	940.0	6.6
30°-40°	1447.8	10.1
40°-50°	2130.7	14.9
50°-60°	3125.3	21.9
60°-70°	3493.7	24.4
70°-80°	1710.5	12.0
80°-90°	451.6	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°	14296.0	100.0
0°-180°	14296.0	100.0



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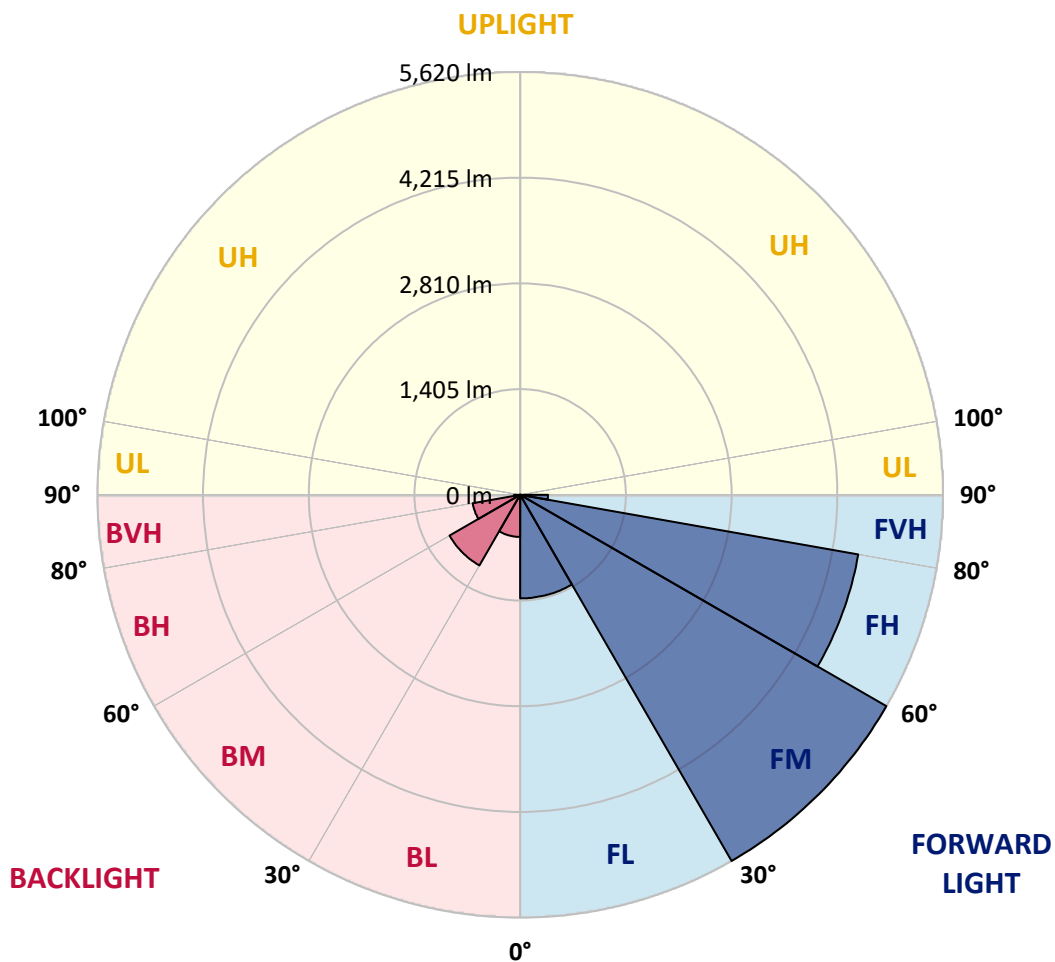
CATALOG NUMBER: GLEON-AF-03-LED-E1-SLR-8030-1200

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1376.7	9.6			
FM (30°-60°)	5619.9	39.3			
FH (60°-80°)	4562.8	31.9			G2/5000
FVH (80°-90°)	370.9	2.6			G3/500
BL (0°-30°)	559.7	3.9	B2/1000		
BM (30°-60°)	1084.0	7.6	B2/2500		
BH (60°-80°)	641.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	80.7	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°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	5018.6	4916.4	4746.7	4569.8	4462.2	4336.4	4238.2	4151.8	3978.9	3945.1	3975.7
5°	4719.2	4514.0	4194.2	3872.0	3657.4	3427.2	3248.0	3104.2	2884.9	2846.4	2892.8
7.5°	4239.0	3993.8	3571.0	3160.0	2856.6	2569.0	2375.7	2221.7	2050.3	1976.5	1981.2
10°	3824.8	3548.2	3048.4	2601.2	2352.9	2158.8	1996.1	1838.2	1664.5	1550.5	1519.1
12.5°	3593.0	3274.7	2698.7	2299.5	2069.2	1864.9	1689.6	1520.7	1335.2	1218.9	1185.9
15°	3552.9	3207.1	2567.4	2106.1	1817.7	1559.2	1352.5	1163.9	972.9	878.6	859.0
17.5°	3726.6	3328.2	2525.0	1934.0	1581.2	1262.1	1008.3	797.7	642.1	594.9	591.0
20°	4059.8	3560.8	2519.5	1772.1	1347.8	973.7	702.6	549.3	481.0	467.6	468.4
22.5°	4527.4	3921.5	2587.1	1650.3	1133.2	726.1	528.1	459.7	433.0	420.4	420.4
25°	5132.5	4418.2	2742.7	1561.5	947.0	580.0	466.0	425.2	400.0	391.4	392.9
27.5°	5718.8	4901.5	2923.4	1491.6	825.2	526.5	441.7	404.7	382.7	374.1	378.0
30°	6176.2	5330.6	3074.3	1396.5	763.1	511.6	450.3	412.6	381.1	367.8	368.6
32.5°	6554.9	5706.2	3200.8	1328.1	708.1	438.5	388.2	371.7	367.8	352.1	344.2
35°	7039.0	6115.6	3285.7	1329.7	682.1	391.4	345.8	316.7	295.5	277.4	277.4
37.5°	7606.4	6585.6	3376.1	1347.8	672.7	363.9	330.9	301.8	282.1	264.8	261.7
40°	8167.6	7046.1	3458.6	1365.1	667.2	347.4	319.1	292.3	274.3	257.0	252.3
42.5°	8644.6	7424.9	3532.5	1373.7	648.3	345.8	310.4	286.1	268.8	249.9	245.2
45°	8997.4	7742.4	3611.9	1387.1	629.5	352.1	310.4	285.3	264.1	246.0	241.3
47.5°	9312.6	8114.9	3744.7	1387.1	606.7	340.3	320.6	286.1	263.3	244.4	240.5
50°	9734.6	8625.7	3996.2	1354.8	574.5	327.7	337.9	282.9	256.2	241.3	236.5
52.5°	10316.1	9280.3	4395.4	1299.0	525.0	303.3	335.6	281.3	249.1	233.4	227.9
55°	11003.8	9981.3	4830.7	1233.8	451.1	286.1	323.8	277.4	241.3	224.0	218.5
57.5°	11540.5	10463.9	5137.2	1133.2	386.6	276.6	286.8	273.5	231.8	213.8	209.0
60°	11754.3	10445.0	5221.3	998.8	355.2	268.8	250.7	306.5	224.0	205.9	200.4
62.5°	11638.7	9962.5	4985.6	904.5	348.1	258.6	235.0	283.7	217.7	200.4	192.5
65°	11105.1	9107.5	4360.8	879.4	368.6	248.3	224.8	222.4	209.0	192.5	184.7
67.5°	9942.8	7829.6	3491.6	881.7	394.5	238.1	214.5	203.5	197.3	183.9	176.8
70°	8098.4	6190.3	2602.8	888.0	407.9	226.3	203.5	191.8	184.7	171.3	166.6
72.5°	5954.5	4771.0	1890.8	847.2	410.2	213.0	188.6	178.4	171.3	157.2	153.2
75°	4074.0	3649.6	1311.6	701.8	357.6	194.1	172.1	162.7	158.0	140.7	138.3
77.5°	2976.1	2739.5	839.3	521.0	275.8	170.5	151.7	144.6	141.5	122.6	119.5
80°	2388.3	2167.4	525.0	356.8	202.0	143.0	127.3	123.4	120.2	101.4	99.0
82.5°	1656.6	1451.5	337.1	231.8	151.7	110.8	100.6	99.0	94.3	77.0	74.7
85°	873.9	788.2	213.8	158.0	110.0	76.2	69.9	69.9	67.6	51.1	49.5
87.5°	111.6	181.5	108.5	82.5	60.5	33.8	33.8	33.0	35.4	29.1	25.1
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°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	3903.4	3941.1	3905.0	3907.3	3947.4	4066.9	4121.1	4165.9	4213.8	4245.3	4259.4
5°	2829.1	2917.2	2947.0	3009.9	3102.6	3255.1	3315.6	3359.6	3388.7	3406.0	3413.0
7.5°	1934.8	1988.3	2048.0	2149.4	2351.3	2440.9	2481.0	2470.8	2437.8	2426.0	2414.2
10°	1458.6	1437.4	1426.4	1482.2	1645.6	1736.0	1764.3	1736.8	1718.7	1722.6	1742.3
12.5°	1130.1	1093.1	1048.4	1042.1	1149.7	1230.7	1248.7	1250.3	1283.3	1312.4	1355.6
15°	823.6	819.7	797.7	784.3	845.6	911.6	919.5	933.6	963.5	984.7	1022.4
17.5°	580.8	602.0	619.3	627.9	674.3	721.4	712.8	705.7	700.2	700.2	718.3
20°	468.4	482.5	504.5	529.7	576.8	609.8	588.6	560.3	539.9	533.6	536.0
22.5°	422.0	433.0	445.6	467.6	510.0	532.8	510.0	489.6	469.2	462.1	459.7
25°	398.4	412.6	424.4	440.9	472.3	488.0	466.0	451.1	438.5	429.9	423.6
27.5°	385.1	397.7	400.8	408.7	435.4	449.5	438.5	432.2	424.4	416.5	408.7
30°	370.9	368.6	363.1	363.9	385.1	399.2	398.4	400.0	399.2	396.9	395.3
32.5°	338.7	334.0	329.3	334.0	353.6	366.2	367.0	370.1	370.1	369.4	375.6
35°	282.1	290.8	296.3	310.4	334.0	345.0	340.3	332.4	318.3	309.6	308.8
37.5°	260.9	262.5	271.9	291.6	317.5	327.7	320.6	302.6	293.1	291.6	293.9
40°	250.7	252.3	257.8	275.8	301.8	312.0	305.7	292.3	283.7	282.9	286.8
42.5°	243.6	245.2	248.3	260.9	282.1	294.7	295.5	286.1	275.8	276.6	280.6
45°	239.7	240.5	239.7	246.0	265.6	280.6	286.8	280.6	271.9	273.5	278.2
47.5°	238.9	236.5	233.4	235.0	255.4	270.3	278.2	275.8	271.9	273.5	277.4
50°	235.8	230.3	226.3	225.5	246.0	261.7	268.8	268.8	270.3	273.5	277.4
52.5°	226.3	220.0	220.0	217.7	239.7	254.6	259.3	260.1	262.5	268.0	273.5
55°	214.5	212.2	214.5	210.6	235.0	249.1	251.5	253.1	254.6	259.3	267.2
57.5°	204.3	201.2	206.7	205.1	231.0	243.6	243.6	246.8	246.8	253.1	259.3
60°	198.8	192.5	194.9	196.5	225.5	238.9	237.3	240.5	242.0	247.5	252.3
62.5°	191.8	186.3	186.3	190.2	219.3	231.8	231.0	233.4	239.7	241.3	246.0
65°	183.1	180.8	178.4	183.1	213.0	224.0	224.8	227.9	233.4	235.0	238.9
67.5°	174.5	175.2	170.5	175.2	207.5	216.1	216.1	222.4	224.8	227.9	231.8
70°	165.0	165.8	161.9	167.4	203.5	207.5	206.7	215.3	216.9	219.3	223.2
72.5°	153.2	153.2	151.7	159.5	197.3	198.8	197.3	204.3	205.1	207.5	209.0
75°	140.7	140.7	139.1	150.1	193.3	189.4	184.7	190.2	191.8	193.3	193.3
77.5°	124.2	125.7	125.7	139.1	180.0	185.5	169.7	172.9	175.2	176.0	173.7
80°	103.7	107.7	109.2	126.5	150.9	171.3	151.7	154.0	154.8	154.8	151.7
82.5°	79.4	86.4	90.4	109.2	115.5	143.8	132.0	134.4	132.0	127.3	125.7
85°	55.0	64.4	69.2	83.3	87.2	110.8	110.0	110.0	105.3	99.0	98.2
87.5°	29.9	35.4	38.5	49.5	59.7	74.7	80.9	78.6	74.7	70.7	71.5
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	4333.3	4440.2	4610.7	4741.2	4872.4	4998.9	5135.7	5240.2	5329.0	5363.6	5468.9
5°	3484.5	3618.1	3779.3	4070.0	4275.9	4503.0	4765.5	5112.9	5246.5	5431.1	5733.7
7.5°	2463.7	2584.7	2844.1	3079.0	3370.6	3692.0	4046.4	4525.8	4701.1	4997.3	5490.1
10°	1839.7	1980.4	2188.6	2386.7	2643.7	2972.2	3379.2	3915.2	4128.2	4449.6	5017.0
12.5°	1482.2	1648.0	1868.8	2055.1	2253.9	2485.7	2881.0	3468.8	3754.1	4035.4	4609.1
15°	1138.7	1312.4	1517.5	1754.1	1973.3	2223.2	2637.4	3280.2	3608.7	3901.8	4391.4
17.5°	788.2	936.8	1195.3	1442.1	1722.6	2042.5	2569.8	3320.3	3712.5	4050.4	4429.2
20°	558.8	643.6	855.8	1141.9	1491.6	1893.2	2557.2	3530.9	4040.9	4426.8	4671.2
22.5°	470.0	501.4	624.8	887.2	1291.2	1781.6	2601.2	3826.4	4484.2	4976.9	5057.1
25°	428.3	447.2	511.6	696.3	1112.8	1700.6	2749.8	4266.5	5032.7	5527.0	5512.9
27.5°	405.5	425.2	467.6	587.8	978.4	1650.3	2898.3	4788.3	5659.8	6124.3	5948.3
30°	398.4	425.2	470.0	554.0	882.5	1571.0	3020.1	5246.5	6142.4	6527.4	6146.3
32.5°	392.9	396.9	417.3	477.8	791.4	1478.2	3102.6	5657.5	6614.7	6910.9	6431.6
35°	317.5	337.1	370.1	428.3	737.9	1422.4	3102.6	6011.9	7079.9	7298.4	6703.5
37.5°	305.7	323.0	352.1	401.6	708.1	1394.9	3040.5	6353.8	7555.4	7737.7	6927.4
40°	299.4	313.6	341.1	381.1	695.5	1363.5	2950.2	6655.5	8019.8	8177.8	7136.5
42.5°	294.7	307.3	333.2	368.6	679.0	1328.9	2877.1	6897.6	8423.0	8553.4	7336.1
45°	292.3	305.7	334.0	374.9	646.0	1283.3	2852.7	7159.3	8754.6	8867.0	7552.2
47.5°	292.3	308.1	337.9	388.2	606.7	1236.2	2928.9	7504.3	9068.2	9123.2	7806.8
50°	290.0	307.3	348.9	374.9	549.3	1176.4	3108.1	7938.9	9407.7	9413.9	8129.0
52.5°	285.3	305.7	375.6	367.0	483.3	1097.9	3350.2	8496.8	9909.8	9947.5	8633.6
55°	279.8	303.3	368.6	348.9	429.1	1004.3	3548.2	9175.0	10615.5	10720.1	9375.4
57.5°	272.7	300.2	356.8	323.8	393.7	884.1	3619.7	9671.7	11108.3	11370.8	10211.6
60°	266.4	297.8	322.2	308.8	371.7	782.7	3481.4	9573.5	11074.5	11640.3	10952.7
62.5°	260.1	300.2	293.9	299.4	361.5	717.5	3119.9	8786.8	10514.2	11362.1	11502.0
65°	253.1	279.0	277.4	291.6	359.1	691.6	2586.3	7607.2	9431.2	10482.7	11631.7
67.5°	243.6	257.8	265.6	281.3	367.0	668.8	2087.3	6275.2	7926.3	9164.8	10955.8
70°	233.4	245.2	253.8	268.8	362.3	658.6	1736.0	4948.6	6289.3	7511.3	9622.2
72.5°	220.0	230.3	238.1	252.3	357.6	653.1	1466.4	3985.1	4695.6	5579.7	7823.3
75°	204.3	213.8	219.3	233.4	342.6	598.0	1152.9	3372.2	3513.6	3881.4	6231.2
77.5°	186.3	193.3	198.0	213.8	303.3	497.5	833.8	2601.2	2728.5	2818.1	4777.3
80°	165.0	172.1	174.5	189.4	251.5	389.0	543.8	1921.5	2040.9	2061.3	3119.9
82.5°	140.7	147.7	147.7	161.9	205.9	279.8	356.8	1316.3	1339.9	1409.1	2205.2
85°	113.2	118.7	118.7	125.7	159.5	209.0	245.2	660.9	653.8	746.6	1910.5
87.5°	80.9	84.9	88.8	90.4	114.0	138.3	147.7	201.2	132.8	152.5	1226.7
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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	5548.2	5593.0	5547.5	5514.5	5372.2	5255.1	5098.7	5018.6
5°	5964.0	6077.9	6039.4	5901.1	5604.0	5270.0	4890.5	4719.2
7.5°	5913.7	6178.5	6184.8	5926.2	5488.5	4996.6	4482.6	4239.0
10°	5522.3	5861.0	5957.7	5707.0	5242.5	4692.4	4103.0	3824.8
12.5°	5085.4	5417.0	5490.9	5404.4	5016.2	4463.7	3865.7	3593.0
15°	4727.8	4876.3	4964.3	5039.8	4822.1	4372.6	3852.3	3552.9
17.5°	4510.1	4493.6	4518.8	4650.0	4686.9	4477.1	4056.7	3726.6
20°	4431.5	4179.3	4173.0	4353.7	4623.3	4726.2	4455.9	4059.8
22.5°	4474.7	4066.1	4014.2	4228.8	4657.1	5085.4	4979.3	4527.4
25°	4624.1	4075.5	4033.9	4241.3	4779.7	5468.1	5544.3	5132.5
27.5°	4859.0	4135.2	4080.2	4293.2	4942.3	5789.5	6100.7	5718.8
30°	5082.2	4239.0	4170.6	4395.4	5090.9	5916.8	6441.8	6176.2
32.5°	5353.3	4433.1	4312.9	4583.2	5274.8	6119.6	6745.9	6554.9
35°	5619.0	4709.7	4560.4	4873.2	5479.9	6371.8	7093.3	7039.0
37.5°	5910.5	5071.2	4947.8	5248.0	5760.4	6610.0	7536.5	7606.4
40°	6221.7	5550.6	5404.4	5795.0	6195.8	6908.6	7999.4	8167.6
42.5°	6535.3	6082.6	5908.2	6304.3	6674.4	7203.3	8395.5	8644.6
45°	6894.4	6660.3	6577.7	7006.0	7134.1	7483.8	8687.8	8997.4
47.5°	7312.5	7315.7	7448.5	7619.8	7597.8	7801.3	8981.7	9312.6
50°	7800.5	8133.8	8426.9	8540.8	8075.6	8142.4	9389.6	9734.6
52.5°	8386.8	9112.2	9475.2	9400.6	8590.3	8558.9	10035.6	10316.1
55°	9120.0	10147.9	10508.7	10455.2	9182.1	9126.3	10840.3	11003.8
57.5°	9968.8	11151.5	11483.1	11242.7	9892.5	9748.7	11505.9	11540.5
60°	10714.6	11946.8	12237.6	11971.2	10609.2	10411.2	11921.7	11754.3
62.5°	11129.5	12216.4	12420.7	12133.8	11100.4	11116.9	12012.8	11638.7
65°	10944.0	11535.0	11601.0	11577.4	10973.9	11526.4	11685.1	11105.1
67.5°	9928.7	9812.4	9923.2	10076.4	9889.4	10987.3	10777.4	9942.8
70°	8140.0	7501.1	7722.0	7824.9	7909.8	9454.8	9354.2	8098.4
72.5°	6134.5	5255.1	5429.6	5408.4	5801.3	7583.6	7274.8	5954.5
75°	4346.6	3563.1	3585.1	3576.5	4048.0	5933.3	5267.7	4074.0
77.5°	3041.3	2581.6	2593.4	2642.1	2721.5	4474.7	3763.5	2976.1
80°	2091.2	1959.2	2024.4	2028.3	1886.1	3006.0	2780.4	2388.3
82.5°	1557.6	1361.9	1346.2	1369.0	1478.2	2435.4	2136.8	1656.6
85°	1275.5	806.3	648.3	812.6	1310.0	2411.8	1419.3	873.9
87.5°	718.3	382.7	172.9	320.6	522.6	1596.9	410.2	111.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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