

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: P269094

Luminaire Tested: **GLEON-AF-02-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269094  
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-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 6126.4 lumens  
Efficiency: N/A  
Efficacy: 92.8 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 - G2

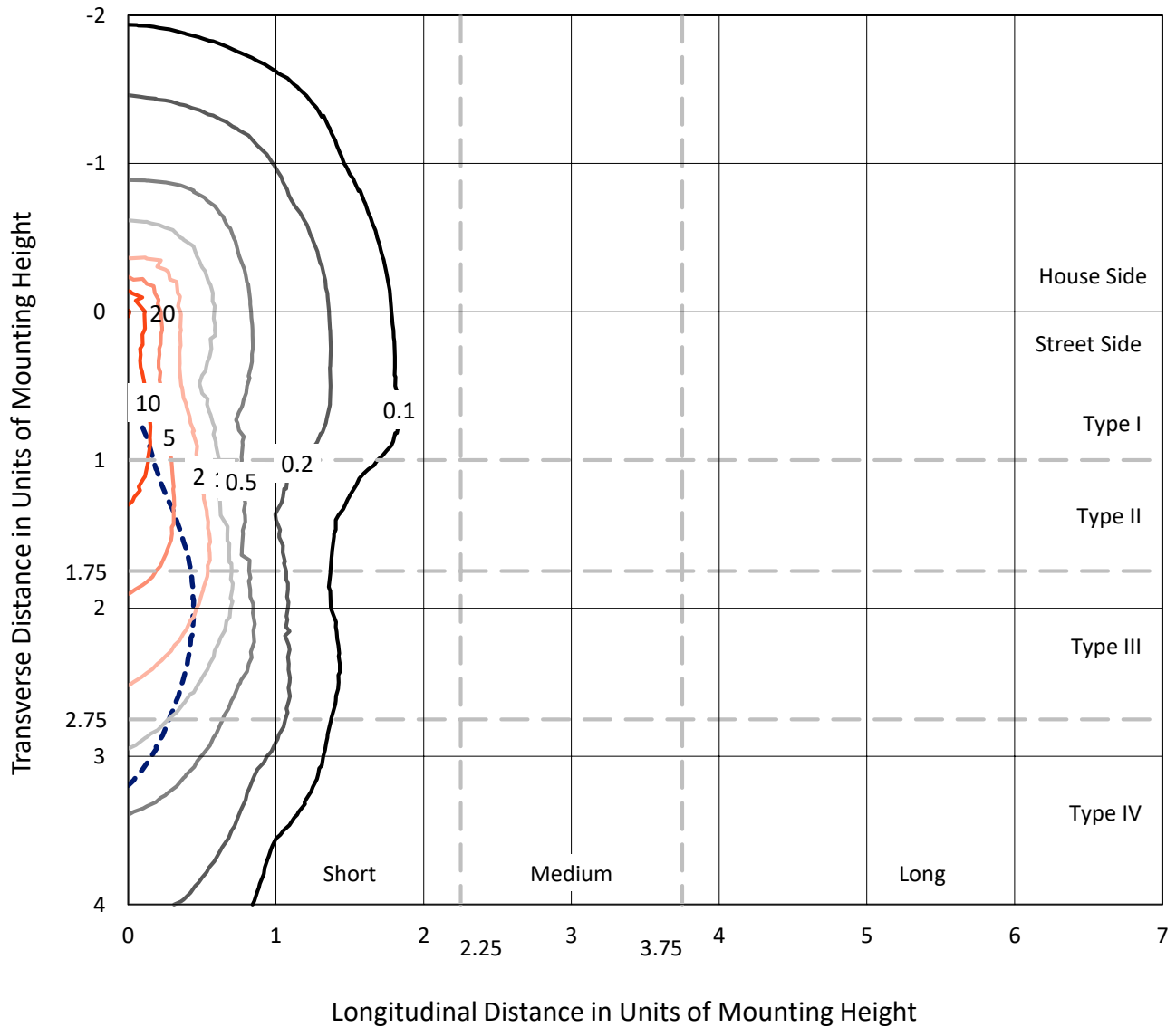
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

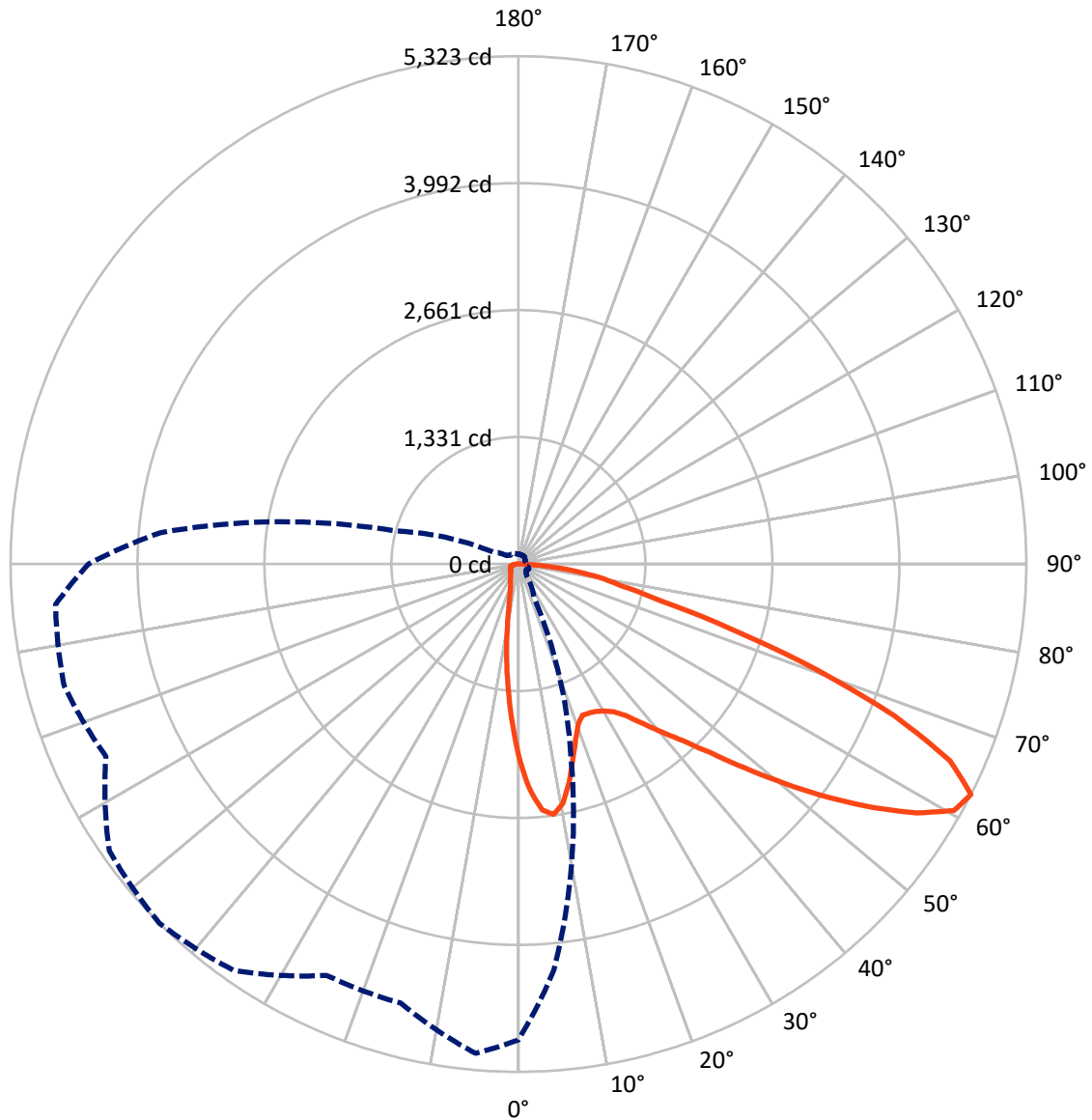


Based on 10 foot mounting height. Maximum calculated value = 20.7 fc  
 Type IV - Short - Non-Cutoff

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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	1013.8	0.0	1013.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	5112.6	0.0	5112.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	6126.4	0.0	6126.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	2.5
10°-20°	276.3	4.5
20°-30°	402.8	6.6
30°-40°	620.4	10.1
40°-50°	913.1	14.9
50°-60°	1339.3	21.9
60°-70°	1497.2	24.4
70°-80°	733.0	12.0
80°-90°	193.5	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°	6126.4	100.0
0°-180°	6126.4	100.0



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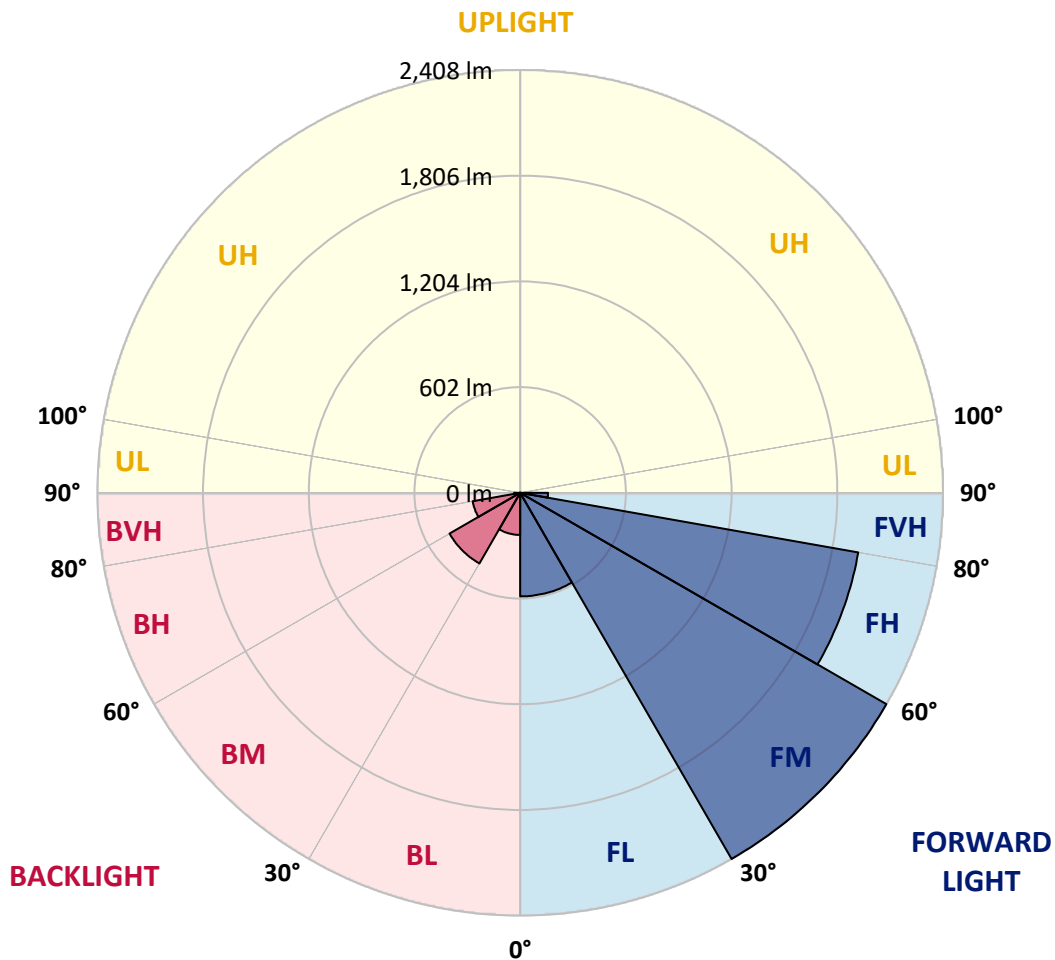
CATALOG NUMBER: GLEON-AF-02-LED-E1-SLR-7027-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.0	9.6			
FM	(30°-60°)	2408.3	39.3			
FH	(60°-80°)	1955.3	31.9			G2/5000
FVH	(80°-90°)	158.9	2.6			G2/225
BL	(0°-30°)	239.9	3.9	B1/500		
BM	(30°-60°)	464.5	7.6	B1/1000		
BH	(60°-80°)	274.8	4.5	B1/500		G1/500
BVH	(80°-90°)	34.6	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9
2.5°	2150.6	2106.9	2034.1	1958.3	1912.2	1858.4	1816.3	1779.3	1705.2	1690.6	1703.7
5°	2022.4	1934.4	1797.4	1659.3	1567.4	1468.6	1392.0	1330.3	1236.2	1219.8	1239.8
7.5°	1816.6	1711.5	1530.4	1354.1	1224.2	1101.0	1018.0	952.1	878.6	847.0	849.0
10°	1639.0	1520.6	1306.3	1114.7	1008.3	925.2	855.5	787.8	713.3	664.4	651.0
12.5°	1539.8	1403.3	1156.5	985.4	886.7	799.2	724.0	651.7	572.2	522.4	508.3
15°	1522.5	1374.3	1100.2	902.5	779.0	668.2	579.5	498.7	417.0	376.5	368.0
17.5°	1596.9	1426.2	1082.1	828.7	677.6	540.9	432.1	341.9	275.2	254.9	253.2
20°	1739.7	1526.0	1079.8	759.4	577.6	417.3	301.1	235.4	206.2	200.4	200.7
22.5°	1940.2	1680.5	1108.7	707.2	485.7	311.3	226.4	197.0	185.6	180.2	180.2
25°	2199.5	1893.4	1175.3	669.1	405.9	248.6	199.8	182.1	171.4	167.8	168.4
27.5°	2450.8	2100.4	1252.7	639.2	353.7	225.7	189.3	173.5	164.0	160.3	162.0
30°	2646.8	2284.4	1317.5	598.5	327.1	219.2	193.0	176.7	163.3	157.7	157.9
32.5°	2809.1	2445.4	1371.7	569.2	303.4	187.9	166.4	159.3	157.7	150.8	147.5
35°	3016.5	2620.7	1408.1	569.9	292.3	167.8	148.2	135.7	126.7	118.8	118.8
37.5°	3259.7	2822.1	1446.8	577.6	288.3	155.9	141.8	129.4	120.9	113.5	112.2
40°	3500.2	3019.6	1482.2	584.9	285.9	148.8	136.7	125.3	117.6	110.1	108.1
42.5°	3704.5	3181.8	1513.9	588.7	277.8	148.2	132.9	122.6	115.3	107.1	105.1
45°	3855.7	3317.9	1547.8	594.4	269.8	150.8	132.9	122.3	113.1	105.5	103.3
47.5°	3990.8	3477.6	1604.7	594.4	260.0	145.9	137.4	122.6	112.7	104.7	103.0
50°	4171.6	3696.4	1712.4	580.7	246.1	140.4	144.7	121.2	109.9	103.3	101.4
52.5°	4420.9	3976.9	1883.6	556.7	224.9	130.0	143.8	120.6	106.8	100.0	97.6
55°	4715.6	4277.4	2070.1	528.7	193.3	122.6	138.8	118.8	103.3	95.9	93.7
57.5°	4945.6	4484.2	2201.4	485.7	165.6	118.5	122.9	117.1	99.4	91.5	89.7
60°	5037.2	4476.2	2237.6	428.0	152.3	115.3	107.4	131.3	95.9	88.3	85.9
62.5°	4987.7	4269.4	2136.4	387.6	149.2	110.9	100.7	121.6	93.2	85.9	82.6
65°	4759.0	3902.9	1868.7	376.8	157.9	106.4	96.3	95.3	89.7	82.6	79.1
67.5°	4260.9	3355.3	1496.2	377.8	169.2	102.0	91.9	87.2	84.5	78.8	75.7
70°	3470.5	2652.8	1115.4	380.5	174.8	96.9	87.2	82.1	79.1	73.4	71.3
72.5°	2551.7	2044.5	810.4	363.1	175.8	91.3	80.8	76.4	73.4	67.4	65.7
75°	1745.9	1563.9	562.1	300.8	153.3	83.3	73.8	69.7	67.7	60.2	59.3
77.5°	1275.4	1174.1	359.7	223.3	118.1	73.1	64.9	62.0	60.6	52.6	51.3
80°	1023.4	928.8	224.9	152.9	86.5	61.3	54.5	52.9	51.6	43.5	42.4
82.5°	709.9	622.0	144.4	99.4	64.9	47.5	43.1	42.4	40.5	33.0	32.0
85°	374.6	337.9	91.5	67.7	47.2	32.7	30.0	30.0	28.9	21.9	21.2
87.5°	47.8	77.9	46.5	35.4	26.0	14.6	14.6	14.2	15.1	12.4	10.8
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9
2.5°	1672.7	1689.0	1673.5	1674.4	1691.6	1742.8	1766.1	1785.2	1805.9	1819.2	1825.4
5°	1212.4	1250.1	1262.8	1289.8	1329.6	1394.9	1420.8	1439.8	1452.2	1459.6	1462.6
7.5°	829.1	852.0	877.6	921.1	1007.5	1046.0	1063.2	1058.8	1044.6	1039.6	1034.6
10°	625.1	616.0	611.2	635.1	705.2	743.9	756.1	744.2	736.5	738.1	746.6
12.5°	484.2	468.5	449.2	446.5	492.7	527.3	535.1	535.7	549.9	562.3	580.9
15°	352.9	351.2	341.9	336.1	362.3	390.7	394.0	400.0	413.0	421.9	438.2
17.5°	248.9	258.0	265.4	269.1	289.0	309.1	305.5	302.4	300.0	300.0	307.8
20°	200.7	206.8	216.2	227.0	247.3	261.3	252.2	240.1	231.4	228.7	229.6
22.5°	180.9	185.6	191.0	200.4	218.6	228.3	218.6	209.8	201.0	198.0	197.0
25°	170.8	176.7	181.8	189.0	202.4	209.1	199.8	193.3	187.9	184.2	181.5
27.5°	165.0	170.4	171.8	175.1	186.6	192.6	187.9	185.2	181.8	178.6	175.1
30°	159.0	157.9	155.5	155.9	165.0	171.0	170.8	171.4	171.0	170.0	169.4
32.5°	145.2	143.1	141.2	143.1	151.5	156.9	157.3	158.6	158.6	158.3	160.9
35°	120.9	124.7	127.0	132.9	143.1	147.9	145.9	142.4	136.5	132.7	132.4
37.5°	111.7	112.5	116.5	125.0	136.1	140.4	137.4	129.6	125.7	125.0	125.9
40°	107.4	108.1	110.4	118.1	129.4	133.7	131.1	125.3	121.6	121.2	122.9
42.5°	104.5	105.1	106.4	111.7	120.9	126.3	126.7	122.6	118.1	118.5	120.3
45°	102.8	103.0	102.8	105.5	113.8	120.3	122.9	120.3	116.5	117.1	119.3
47.5°	102.3	101.4	100.0	100.7	109.5	115.8	119.3	118.1	116.5	117.1	118.8
50°	101.0	98.6	96.9	96.7	105.5	112.2	115.3	115.3	115.8	117.1	118.8
52.5°	96.9	94.3	94.3	93.2	102.8	109.1	111.1	111.5	112.5	114.9	117.1
55°	91.9	90.9	91.9	90.3	100.7	106.8	107.7	108.4	109.1	111.1	114.5
57.5°	87.6	86.1	88.6	87.9	99.1	104.5	104.5	105.7	105.7	108.4	111.1
60°	85.2	82.6	83.5	84.3	96.7	102.3	101.7	103.0	103.8	106.1	108.1
62.5°	82.1	79.8	79.8	81.4	94.0	99.4	99.1	100.0	102.8	103.3	105.5
65°	78.4	77.4	76.4	78.4	91.3	95.9	96.3	97.6	100.0	100.7	102.3
67.5°	74.7	75.1	73.1	75.1	88.9	92.6	92.6	95.3	96.3	97.6	99.4
70°	70.7	71.1	69.3	71.8	87.2	88.9	88.6	92.3	93.0	94.0	95.6
72.5°	65.7	65.7	64.9	68.5	84.5	85.2	84.5	87.6	87.9	88.9	89.7
75°	60.2	60.2	59.6	64.3	82.9	81.1	79.1	81.4	82.1	82.9	82.9
77.5°	53.2	53.9	53.9	59.6	77.2	79.5	72.8	74.1	75.1	75.5	74.4
80°	44.5	46.2	46.8	54.2	64.7	73.4	64.9	66.0	66.4	66.4	64.9
82.5°	34.0	37.0	38.7	46.8	49.4	61.7	56.6	57.6	56.6	54.5	53.9
85°	23.5	27.6	29.6	35.8	37.4	47.5	47.2	47.2	45.2	42.4	42.1
87.5°	12.8	15.1	16.4	21.2	25.6	32.0	34.7	33.6	32.0	30.4	30.6
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°	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9
2.5°	1856.9	1902.8	1975.9	2031.7	2088.0	2142.3	2200.8	2245.7	2283.8	2298.6	2343.6
5°	1493.3	1550.6	1619.6	1744.1	1832.5	1929.6	2042.1	2191.1	2248.3	2327.5	2457.1
7.5°	1055.8	1107.7	1218.8	1319.5	1444.5	1582.2	1734.1	1939.5	2014.5	2141.6	2352.8
10°	788.4	848.7	937.9	1022.8	1132.9	1273.6	1448.2	1677.9	1769.1	1906.8	2150.0
12.5°	635.1	706.2	800.8	880.7	965.9	1065.2	1234.6	1486.5	1608.8	1729.3	1975.3
15°	488.0	562.3	650.4	751.7	845.7	952.7	1130.2	1405.7	1546.5	1672.0	1881.9
17.5°	337.9	401.5	512.3	617.9	738.1	875.3	1101.2	1422.8	1591.0	1735.7	1898.1
20°	239.5	275.8	366.8	489.3	639.2	811.3	1095.8	1513.1	1731.8	1897.1	2001.9
22.5°	201.4	214.9	267.8	380.3	553.4	763.5	1114.7	1639.8	1921.7	2132.8	2167.2
25°	183.6	191.6	219.2	298.3	476.9	728.7	1178.3	1828.4	2156.7	2368.6	2362.5
27.5°	173.8	182.1	200.4	252.0	419.2	707.2	1242.0	2052.0	2425.5	2624.5	2549.1
30°	170.8	182.1	201.4	237.4	378.1	673.2	1294.3	2248.3	2632.3	2797.2	2633.9
32.5°	168.4	170.0	178.9	204.8	339.1	633.5	1329.6	2424.4	2834.6	2961.6	2756.2
35°	136.1	144.4	158.6	183.6	316.3	609.6	1329.6	2576.3	3034.0	3127.7	2872.7
37.5°	131.1	138.3	150.8	172.0	303.4	597.8	1303.0	2722.9	3237.9	3316.0	2968.7
40°	128.3	134.3	146.2	163.3	298.1	584.3	1264.3	2852.2	3436.8	3504.5	3058.3
42.5°	126.3	131.7	142.8	157.9	291.1	569.4	1233.0	2956.0	3609.6	3665.4	3143.8
45°	125.3	131.1	143.1	160.6	276.9	549.9	1222.6	3068.0	3751.7	3799.8	3236.5
47.5°	125.3	132.1	144.7	166.4	260.0	529.7	1255.1	3215.9	3886.1	3909.7	3345.6
50°	124.2	131.7	149.6	160.6	235.4	504.2	1331.9	3402.2	4031.6	4034.3	3483.5
52.5°	122.3	131.1	160.9	157.3	207.1	470.5	1435.8	3641.2	4246.7	4262.9	3699.8
55°	120.0	130.0	157.9	149.6	183.9	430.4	1520.6	3931.9	4549.1	4594.0	4017.8
57.5°	116.9	128.6	152.9	138.8	168.7	378.8	1551.3	4144.7	4760.4	4872.9	4376.1
60°	114.2	127.6	138.1	132.4	159.3	335.4	1491.9	4102.6	4745.8	4988.4	4693.6
62.5°	111.5	128.6	125.9	128.3	154.9	307.5	1336.9	3765.4	4505.8	4869.2	4929.1
65°	108.4	119.6	118.8	125.0	153.9	296.4	1108.2	3259.9	4041.7	4492.2	4984.6
67.5°	104.5	110.4	113.8	120.6	157.3	286.6	894.5	2689.2	3396.8	3927.5	4695.0
70°	100.0	105.1	108.8	115.3	155.2	282.2	743.9	2120.7	2695.3	3218.8	4123.5
72.5°	94.3	98.6	102.0	108.1	153.3	279.8	628.5	1707.8	2012.3	2391.1	3352.7
75°	87.6	91.5	94.0	100.0	146.9	256.2	494.1	1445.2	1505.6	1663.3	2670.3
77.5°	79.8	82.9	84.9	91.5	130.0	213.2	357.3	1114.7	1169.4	1207.7	2047.2
80°	70.7	73.8	74.7	81.1	107.7	166.6	233.0	823.4	874.6	883.4	1336.9
82.5°	60.2	63.3	63.3	69.3	88.3	120.0	152.9	564.0	574.1	603.8	944.9
85°	48.5	50.8	50.8	53.9	68.5	89.7	105.1	283.2	280.2	319.9	818.7
87.5°	34.7	36.4	38.1	38.7	48.9	59.3	63.3	86.1	57.0	65.3	525.7
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°	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9	2069.9
2.5°	2377.6	2396.9	2377.4	2363.3	2302.1	2252.1	2184.9	2150.6
5°	2555.8	2604.6	2588.1	2528.9	2401.6	2258.3	2095.7	2022.4
7.5°	2534.3	2647.8	2650.4	2539.7	2352.0	2141.2	1920.9	1816.6
10°	2366.6	2511.8	2553.2	2445.6	2246.7	2010.9	1758.3	1639.0
12.5°	2179.3	2321.4	2353.1	2316.0	2149.6	1912.9	1656.7	1539.8
15°	2026.0	2089.6	2127.5	2159.7	2066.6	1873.9	1650.8	1522.5
17.5°	1932.8	1925.6	1936.4	1992.7	2008.5	1918.6	1738.4	1596.9
20°	1899.0	1791.0	1788.3	1865.7	1981.2	2025.4	1909.5	1739.7
22.5°	1917.6	1742.5	1720.3	1812.2	1995.8	2179.3	2133.8	1940.2
25°	1981.7	1746.6	1728.7	1817.6	2048.2	2343.3	2375.9	2199.5
27.5°	2082.4	1772.1	1748.6	1839.8	2118.1	2480.9	2614.3	2450.8
30°	2177.9	1816.6	1787.3	1883.6	2181.7	2535.6	2760.5	2646.8
32.5°	2294.1	1899.7	1848.3	1964.1	2260.4	2622.5	2890.8	2809.1
35°	2407.9	2018.3	1954.4	2088.4	2348.3	2730.6	3039.8	3016.5
37.5°	2533.0	2173.2	2120.4	2248.9	2468.6	2832.6	3229.6	3259.7
40°	2666.3	2378.6	2316.0	2483.4	2655.1	2960.6	3428.0	3500.2
42.5°	2800.6	2606.6	2532.0	2701.7	2860.3	3086.8	3597.8	3704.5
45°	2954.5	2854.2	2818.8	3002.3	3057.2	3207.0	3723.0	3855.7
47.5°	3133.6	3135.1	3191.9	3265.3	3255.9	3343.2	3849.0	3990.8
50°	3342.9	3485.7	3611.2	3660.1	3460.7	3489.3	4023.8	4171.6
52.5°	3594.1	3904.9	4060.5	4028.4	3681.3	3667.8	4300.6	4420.9
55°	3908.3	4348.9	4503.4	4480.4	3934.8	3911.0	4645.6	4715.6
57.5°	4272.0	4778.9	4920.9	4817.9	4239.3	4177.7	4930.7	4945.6
60°	4591.5	5119.7	5244.2	5130.1	4546.5	4461.6	5108.9	5037.2
62.5°	4769.5	5235.2	5322.7	5199.7	4757.0	4764.0	5147.9	4987.7
65°	4690.0	4943.3	4971.5	4961.3	4702.7	4939.5	5007.5	4759.0
67.5°	4254.8	4205.0	4252.4	4318.2	4238.1	4708.5	4618.5	4260.9
70°	3488.4	3214.6	3309.1	3353.4	3389.7	4051.7	4008.6	3470.5
72.5°	2628.9	2252.1	2326.8	2317.6	2486.1	3249.9	3117.6	2551.7
75°	1862.7	1526.9	1536.5	1532.7	1734.7	2542.7	2257.4	1745.9
77.5°	1303.4	1106.4	1111.4	1132.3	1166.3	1917.6	1612.8	1275.4
80°	896.1	839.6	867.6	869.2	808.2	1288.2	1191.5	1023.4
82.5°	667.5	583.5	576.9	586.7	633.5	1043.7	915.7	709.9
85°	546.6	345.6	277.8	348.3	561.4	1033.6	608.2	374.6
87.5°	307.8	164.0	74.1	137.4	223.9	684.2	175.8	47.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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