

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: STREETWORKS

Report Number: P299469

Luminaire Tested: **GAA-AF-03-LED-U-SLR-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-03-LED-U-SLR-8030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill  
Light Eliminator Right OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8557.2 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 96  
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: 28.75 FT

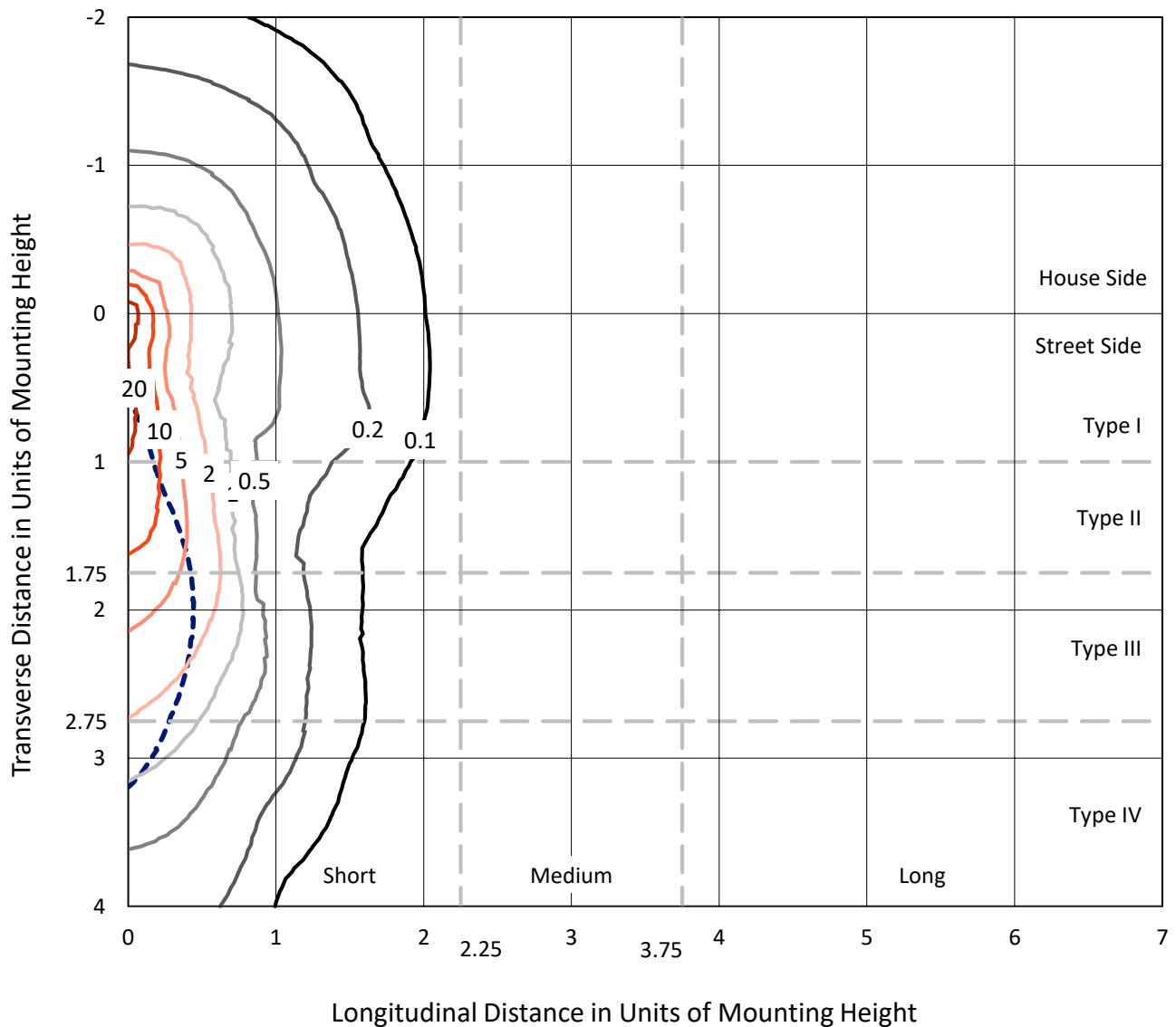




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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

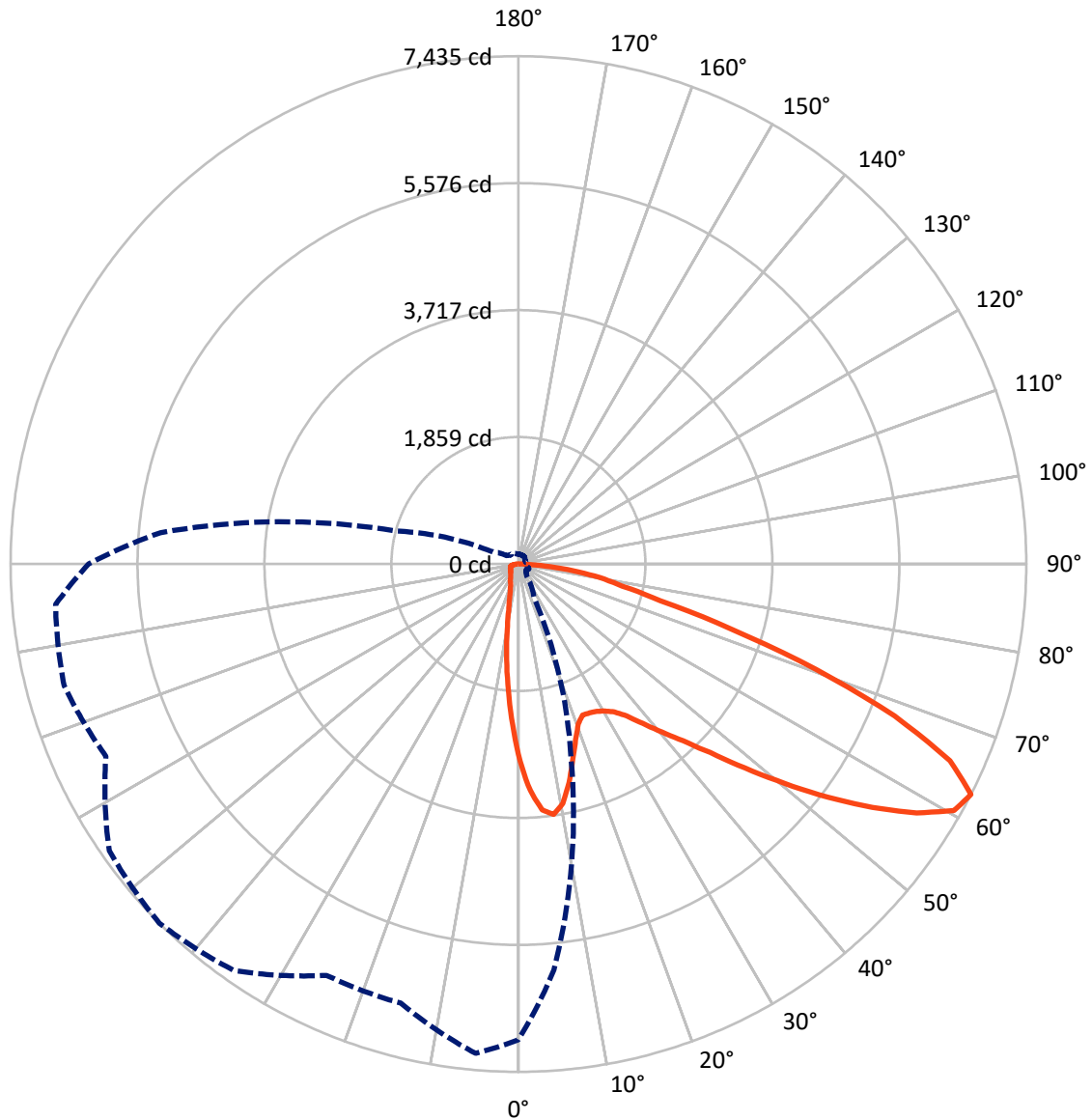


Based on 10 foot mounting height. Maximum calculated value = 28.9 fc  
 Type IV - Short - Non-Cutoff

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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	1416.1	0.0	1416.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	7141.1	0.0	7141.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	8557.2	0.0	8557.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.5	2.5
10°-20°	385.9	4.5
20°-30°	562.7	6.6
30°-40°	866.6	10.1
40°-50°	1275.4	14.9
50°-60°	1870.8	21.9
60°-70°	2091.2	24.4
70°-80°	1023.9	12.0
80°-90°	270.3	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°	8557.2	100.0
0°-180°	8557.2	100.0

**Coefficient of Utilization**



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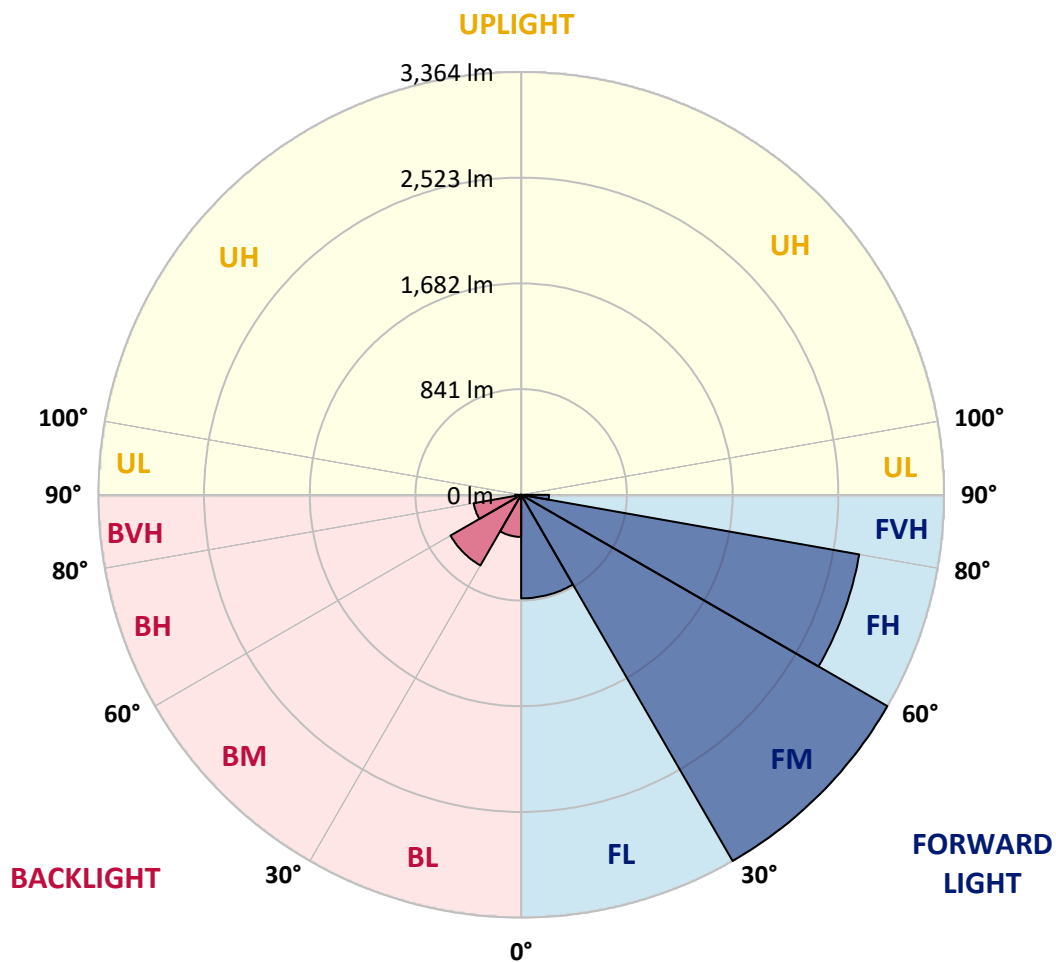
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.0	9.6			
FM (30°-60°)	3363.9	39.3			
FH (60°-80°)	2731.2	31.9			G2/5000
FVH (80°-90°)	222.0	2.6			G2/225
BL (0°-30°)	335.0	3.9	B1/500		
BM (30°-60°)	648.8	7.6	B1/1000		
BH (60°-80°)	383.9	4.5	B1/500		G1/500
BVH (80°-90°)	48.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1
2.5°	3003.9	2942.8	2841.2	2735.4	2671.0	2595.7	2536.8	2485.1	2381.6	2361.4	2379.8
5°	2824.8	2702.0	2510.5	2317.7	2189.2	2051.4	1944.1	1858.1	1726.8	1703.8	1731.5
7.5°	2537.4	2390.6	2137.5	1891.5	1709.9	1537.7	1422.1	1329.8	1227.3	1183.1	1185.8
10°	2289.5	2123.9	1824.7	1557.1	1408.4	1292.2	1194.8	1100.2	996.3	928.1	909.3
12.5°	2150.6	1960.2	1615.3	1376.4	1238.5	1116.3	1011.4	910.3	799.2	729.6	709.9
15°	2126.7	1919.6	1536.9	1260.7	1088.0	933.3	809.6	696.7	582.3	525.9	514.1
17.5°	2230.7	1992.1	1511.4	1157.6	946.4	755.5	603.5	477.5	384.4	356.2	353.7
20°	2430.0	2131.4	1508.1	1060.8	806.7	582.9	420.5	328.8	287.9	279.8	280.4
22.5°	2710.0	2347.3	1548.5	987.9	678.3	434.6	316.1	275.1	259.2	251.6	251.6
25°	3072.1	2644.6	1641.7	934.8	566.8	347.2	279.0	254.5	239.4	234.3	235.3
27.5°	3423.2	2933.9	1749.9	892.9	493.9	315.1	264.3	242.2	229.1	223.9	226.3
30°	3696.9	3190.8	1840.2	835.9	456.7	306.2	269.6	246.9	228.1	220.2	220.6
32.5°	3923.6	3415.6	1915.9	794.9	423.8	262.5	232.4	222.4	220.2	210.8	206.1
35°	4213.4	3660.7	1966.8	795.9	408.3	234.3	206.9	189.5	176.9	166.0	166.0
37.5°	4553.0	3942.0	2020.9	806.7	402.7	217.7	198.1	180.6	168.9	158.5	156.6
40°	4888.8	4217.7	2070.3	817.1	399.3	207.9	191.0	175.0	164.2	153.8	151.0
42.5°	5174.5	4444.4	2114.5	822.3	388.1	206.9	185.8	171.2	160.9	149.5	146.8
45°	5385.7	4634.4	2162.0	830.2	376.8	210.8	185.8	170.7	158.1	147.2	144.4
47.5°	5574.2	4857.4	2241.5	830.2	363.1	203.6	192.0	171.2	157.6	146.3	144.0
50°	5826.9	5163.1	2392.0	811.0	343.9	196.1	202.2	169.3	153.4	144.4	141.6
52.5°	6174.9	5555.0	2631.0	777.5	314.3	181.6	200.8	168.5	149.1	139.7	136.4
55°	6586.6	5974.5	2891.6	738.5	270.0	171.2	193.8	166.0	144.4	134.0	130.7
57.5°	6907.9	6263.4	3075.0	678.3	231.4	165.6	171.7	163.8	138.7	127.9	125.2
60°	7035.8	6252.1	3125.4	597.8	212.6	160.9	150.1	183.4	134.0	123.2	119.9
62.5°	6966.7	5963.3	2984.3	541.4	208.3	154.8	140.7	169.7	130.3	119.9	115.2
65°	6647.3	5451.5	2610.3	526.3	220.6	148.7	134.6	133.2	125.2	115.2	110.5
67.5°	5951.5	4686.6	2090.0	527.8	236.1	142.5	128.5	121.9	118.1	110.1	105.8
70°	4847.5	3705.4	1557.9	531.6	244.1	135.4	121.9	114.8	110.5	102.5	99.7
72.5°	3564.3	2855.8	1131.9	507.1	245.5	127.5	112.9	106.8	102.5	94.1	91.7
75°	2438.6	2184.5	785.1	420.1	214.0	116.2	103.0	97.4	94.6	84.2	82.7
77.5°	1781.4	1639.8	502.4	311.9	165.0	102.1	90.9	86.6	84.7	73.3	71.5
80°	1429.6	1297.3	314.3	213.6	120.9	85.6	76.2	73.9	71.9	60.7	59.2
82.5°	991.6	868.8	201.8	138.7	90.9	66.4	60.2	59.2	56.4	46.1	44.7
85°	523.1	471.8	127.9	94.6	65.8	45.6	41.9	41.9	40.4	30.6	29.6
87.5°	66.8	108.7	64.9	49.4	36.2	20.2	20.2	19.8	21.2	17.4	15.1
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°	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1
2.5°	2336.5	2359.1	2337.5	2338.9	2362.8	2434.3	2466.8	2493.5	2522.3	2541.1	2549.5
5°	1693.5	1746.2	1764.0	1801.6	1857.1	1948.4	1984.6	2010.9	2028.4	2038.7	2043.0
7.5°	1158.2	1190.1	1225.8	1286.5	1407.4	1461.1	1485.0	1478.9	1459.2	1452.1	1445.1
10°	873.1	860.4	853.7	887.2	985.0	1039.1	1056.1	1039.6	1028.7	1031.2	1042.8
12.5°	676.4	654.4	627.6	623.7	688.3	736.7	747.5	748.3	768.1	785.5	811.4
15°	493.0	490.6	477.5	469.5	506.1	545.7	550.4	558.8	576.7	589.4	611.9
17.5°	347.6	360.3	370.7	375.8	403.6	431.8	426.7	422.4	419.1	419.1	429.9
20°	280.4	288.8	302.0	317.0	345.3	365.0	352.3	335.4	323.1	319.4	320.8
22.5°	252.6	259.2	266.7	279.8	305.3	319.0	305.3	293.1	280.8	276.6	275.1
25°	238.5	246.9	254.1	263.9	282.7	292.1	279.0	270.0	262.5	257.3	253.5
27.5°	230.6	238.0	240.0	244.7	260.6	269.0	262.5	258.8	254.1	249.4	244.7
30°	222.0	220.6	217.3	217.7	230.6	239.0	238.5	239.4	239.0	237.5	236.7
32.5°	202.8	199.9	197.1	199.9	211.6	219.2	219.7	221.6	221.6	221.2	224.9
35°	168.9	174.0	177.3	185.8	199.9	206.5	203.6	198.9	190.5	185.3	184.8
37.5°	156.2	157.1	162.8	174.4	190.1	196.1	192.0	181.1	175.4	174.4	175.9
40°	150.1	151.0	154.2	165.0	180.6	186.7	183.0	175.0	169.7	169.3	171.7
42.5°	145.8	146.8	148.7	156.2	168.9	176.4	176.9	171.2	165.0	165.6	167.9
45°	143.4	144.0	143.4	147.2	158.9	167.9	171.7	167.9	162.8	163.8	166.5
47.5°	143.0	141.6	139.7	140.7	152.9	161.8	166.5	165.0	162.8	163.8	166.0
50°	141.1	137.9	135.4	135.0	147.2	156.6	160.9	160.9	161.8	163.8	166.0
52.5°	135.4	131.7	131.7	130.3	143.4	152.4	155.2	155.7	157.1	160.4	163.8
55°	128.5	127.0	128.5	126.0	140.7	149.1	150.5	151.5	152.4	155.2	159.9
57.5°	122.3	120.5	123.8	122.8	138.3	145.8	145.8	147.7	147.7	151.5	155.2
60°	119.1	115.2	116.6	117.6	135.0	143.0	142.1	144.0	144.8	148.2	151.0
62.5°	114.8	111.5	111.5	113.8	131.3	138.7	138.3	139.7	143.4	144.4	147.2
65°	109.7	108.2	106.8	109.7	127.5	134.0	134.6	136.4	139.7	140.7	143.0
67.5°	104.4	105.0	102.1	105.0	124.2	129.3	129.3	133.2	134.6	136.4	138.7
70°	98.8	99.3	96.8	100.3	121.9	124.2	123.8	128.9	129.9	131.3	133.6
72.5°	91.7	91.7	90.9	95.6	118.1	119.1	118.1	122.3	122.8	124.2	125.2
75°	84.2	84.2	83.3	89.9	115.8	113.4	110.5	113.8	114.8	115.8	115.8
77.5°	74.3	75.3	75.3	83.3	107.7	111.1	101.5	103.5	105.0	105.4	104.0
80°	62.1	64.5	65.4	75.8	90.3	102.5	90.9	92.1	92.7	92.7	90.9
82.5°	47.6	51.7	54.1	65.4	69.2	86.0	79.0	80.5	79.0	76.2	75.3
85°	32.9	38.6	41.4	49.8	52.3	66.4	65.8	65.8	63.1	59.2	58.8
87.5°	17.9	21.2	23.1	29.6	35.7	44.7	48.4	47.0	44.7	42.3	42.9
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°	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1
2.5°	2593.8	2657.7	2759.9	2837.9	2916.5	2992.3	3074.1	3136.7	3189.8	3210.6	3273.5
5°	2085.8	2165.7	2262.1	2436.2	2559.5	2695.3	2852.6	3060.5	3140.4	3251.0	3432.0
7.5°	1474.8	1547.1	1702.3	1843.0	2017.6	2210.0	2422.1	2709.0	2814.0	2991.3	3286.2
10°	1101.2	1185.4	1310.0	1428.6	1582.4	1779.1	2022.8	2343.6	2471.0	2663.4	3003.1
12.5°	887.2	986.5	1118.6	1230.1	1349.2	1487.9	1724.6	2076.3	2247.2	2415.5	2758.9
15°	681.6	785.5	908.4	1050.0	1181.1	1330.8	1578.7	1963.5	2160.0	2335.6	2628.6
17.5°	471.8	560.7	715.5	863.1	1031.2	1222.6	1538.3	1987.4	2222.1	2424.5	2651.2
20°	334.5	385.2	512.2	683.6	892.9	1133.1	1530.7	2113.5	2418.8	2649.8	2796.0
22.5°	281.3	300.1	374.0	531.0	772.8	1066.3	1557.1	2290.3	2684.1	2979.0	3027.0
25°	256.3	267.7	306.2	416.8	666.0	1017.9	1645.9	2553.8	3012.5	3308.4	3299.9
27.5°	242.7	254.5	279.8	351.9	585.7	987.9	1734.8	2866.2	3387.9	3665.8	3560.5
30°	238.5	254.5	281.3	331.7	528.3	940.3	1807.7	3140.4	3676.7	3907.2	3679.1
32.5°	235.3	237.5	249.8	286.0	473.6	884.8	1857.1	3386.4	3959.3	4136.8	3849.8
35°	190.1	201.8	221.6	256.3	441.7	851.5	1857.1	3598.6	4237.9	4368.6	4012.6
37.5°	183.0	193.4	210.8	240.4	423.8	834.9	1820.0	3803.3	4522.4	4631.6	4146.6
40°	179.3	187.7	204.2	228.1	416.3	816.1	1765.8	3983.8	4800.4	4895.0	4271.8
42.5°	176.4	184.0	199.5	220.6	406.4	795.5	1722.1	4128.7	5041.8	5119.8	4391.3
45°	175.0	183.0	199.9	224.4	386.6	768.1	1707.6	4285.3	5240.3	5307.5	4520.6
47.5°	175.0	184.4	202.2	232.4	363.1	739.9	1753.2	4491.9	5428.0	5460.9	4672.9
50°	173.6	184.0	208.9	224.4	328.8	704.2	1860.4	4752.0	5631.2	5634.9	4865.9
52.5°	170.7	183.0	224.9	219.7	289.2	657.2	2005.4	5086.1	5931.8	5954.3	5167.8
55°	167.5	181.6	220.6	208.9	256.9	601.2	2123.9	5491.9	6354.2	6416.7	5612.0
57.5°	163.2	179.7	213.6	193.8	235.7	529.2	2166.7	5789.3	6649.1	6806.2	6112.4
60°	159.5	178.3	192.8	184.8	222.4	468.5	2083.8	5730.5	6628.9	6967.6	6556.0
62.5°	155.7	179.7	175.9	179.3	216.3	429.5	1867.5	5259.5	6293.5	6801.1	6884.8
65°	151.5	167.0	166.0	174.4	215.0	414.0	1548.1	4553.5	5645.3	6274.7	6962.4
67.5°	145.8	154.2	158.9	168.5	219.7	400.3	1249.3	3756.1	4744.4	5485.8	6557.8
70°	139.7	146.8	151.9	160.9	216.9	394.2	1039.1	2962.1	3764.7	4496.1	5759.7
72.5°	131.7	137.9	142.5	151.0	214.0	390.9	877.8	2385.5	2810.7	3339.9	4682.9
75°	122.3	127.9	131.3	139.7	205.1	358.0	690.1	2018.5	2103.2	2323.4	3729.8
77.5°	111.5	115.8	118.5	127.9	181.6	297.8	499.1	1557.1	1633.3	1686.8	2859.5
80°	98.8	103.0	104.4	113.4	150.5	232.8	325.5	1150.1	1221.6	1233.8	1867.5
82.5°	84.2	88.4	88.4	96.8	123.2	167.5	213.6	787.9	802.0	843.5	1320.0
85°	67.8	71.1	71.1	75.3	95.6	125.2	146.8	395.6	391.3	446.9	1143.5
87.5°	48.4	50.8	53.1	54.1	68.2	82.7	88.4	120.5	79.5	91.3	734.3
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°	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1	2891.1
2.5°	3321.1	3347.8	3320.5	3300.9	3215.7	3145.6	3051.9	3003.9
5°	3569.9	3638.1	3615.0	3532.3	3354.4	3154.5	2927.3	2824.8
7.5°	3539.8	3698.3	3702.0	3547.4	3285.3	2990.8	2683.2	2537.4
10°	3305.6	3508.2	3566.2	3416.1	3138.1	2808.8	2456.0	2289.5
12.5°	3044.0	3242.5	3286.8	3234.9	3002.7	2671.8	2314.0	2150.6
15°	2829.9	2918.9	2971.5	3016.8	2886.5	2617.3	2305.9	2126.7
17.5°	2699.6	2689.8	2704.9	2783.3	2805.4	2679.8	2428.2	2230.7
20°	2652.6	2501.7	2497.8	2606.1	2767.4	2829.1	2667.1	2430.0
22.5°	2678.5	2433.9	2402.8	2531.3	2787.6	3044.0	2980.4	2710.0
25°	2767.8	2439.6	2414.5	2538.8	2861.0	3273.1	3318.7	3072.1
27.5°	2908.5	2475.3	2442.3	2569.9	2958.4	3465.5	3651.7	3423.2
30°	3042.1	2537.4	2496.4	2631.0	3047.2	3541.7	3856.0	3696.9
32.5°	3204.4	2653.6	2581.6	2743.3	3157.3	3663.0	4038.0	3923.6
35°	3363.4	2819.1	2729.8	2916.9	3280.1	3814.1	4245.9	4213.4
37.5°	3538.0	3035.6	2961.6	3141.4	3448.1	3956.5	4511.2	4553.0
40°	3724.2	3322.5	3234.9	3468.8	3708.7	4135.4	4788.3	4888.8
42.5°	3911.9	3640.9	3536.5	3773.5	3995.1	4311.7	5025.3	5174.5
45°	4126.8	3986.7	3937.3	4193.6	4270.4	4479.7	5200.3	5385.7
47.5°	4377.2	4379.0	4458.5	4561.0	4547.9	4669.7	5376.3	5574.2
50°	4669.2	4868.6	5044.2	5112.3	4833.9	4873.9	5620.4	5826.9
52.5°	5020.1	5454.3	5671.6	5626.9	5142.0	5123.1	6007.0	6174.9
55°	5459.0	6074.4	6290.3	6258.2	5496.2	5462.7	6488.8	6586.6
57.5°	5967.0	6675.0	6873.6	6729.6	5921.4	5835.4	6887.2	6907.9
60°	6413.4	7151.1	7325.1	7165.6	6350.5	6231.9	7136.0	7035.8
62.5°	6661.8	7312.5	7434.8	7263.0	6644.4	6654.3	7190.6	6966.7
65°	6550.9	6904.6	6944.1	6930.0	6568.7	6899.3	6994.5	6647.3
67.5°	5943.1	5873.4	5939.8	6031.5	5919.6	6576.6	6451.0	5951.5
70°	4872.5	4490.0	4622.3	4683.8	4734.6	5659.4	5599.2	4847.5
72.5°	3672.0	3145.6	3250.0	3237.3	3472.5	4539.4	4354.5	3564.3
75°	2601.8	2132.8	2145.9	2140.8	2423.1	3551.5	3153.2	2438.6
77.5°	1820.4	1545.3	1552.4	1581.4	1629.0	2678.5	2252.7	1781.4
80°	1251.8	1172.7	1211.7	1214.2	1129.0	1799.3	1664.3	1429.6
82.5°	932.3	815.1	805.7	819.4	884.8	1457.8	1279.0	991.6
85°	763.4	482.6	388.1	486.5	784.1	1443.7	849.6	523.1
87.5°	429.9	229.1	103.5	192.0	312.9	955.8	245.5	66.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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