

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: P299355

Luminaire Tested: **GAA-AF-04-LED-U-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299355
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-04-LED-U-SLR-8030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17163.7 lumens
Efficiency: N/A
Efficacy: 76.3 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): 225
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

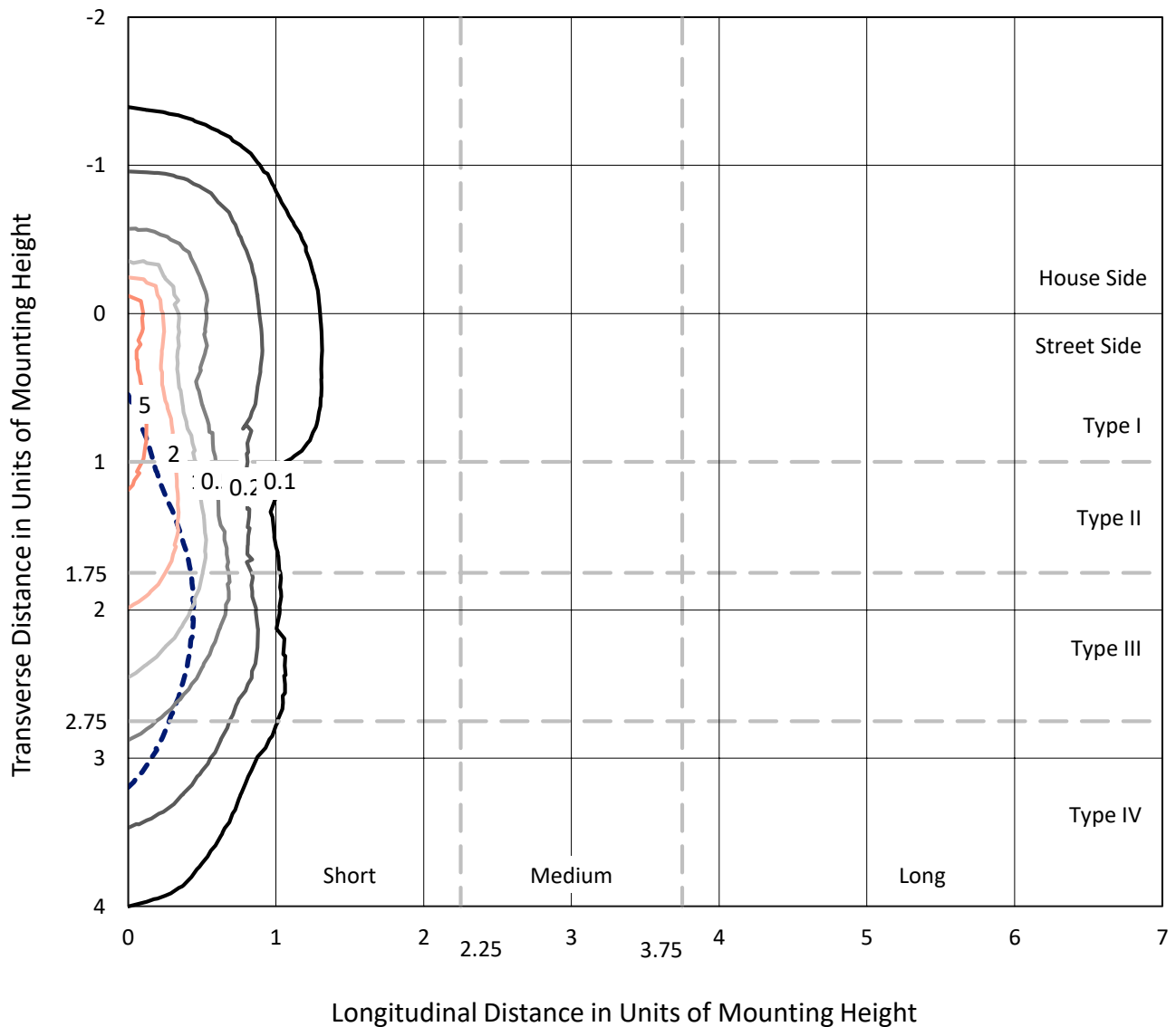


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Iso-Footcandle Lines of Horizontal Illumination

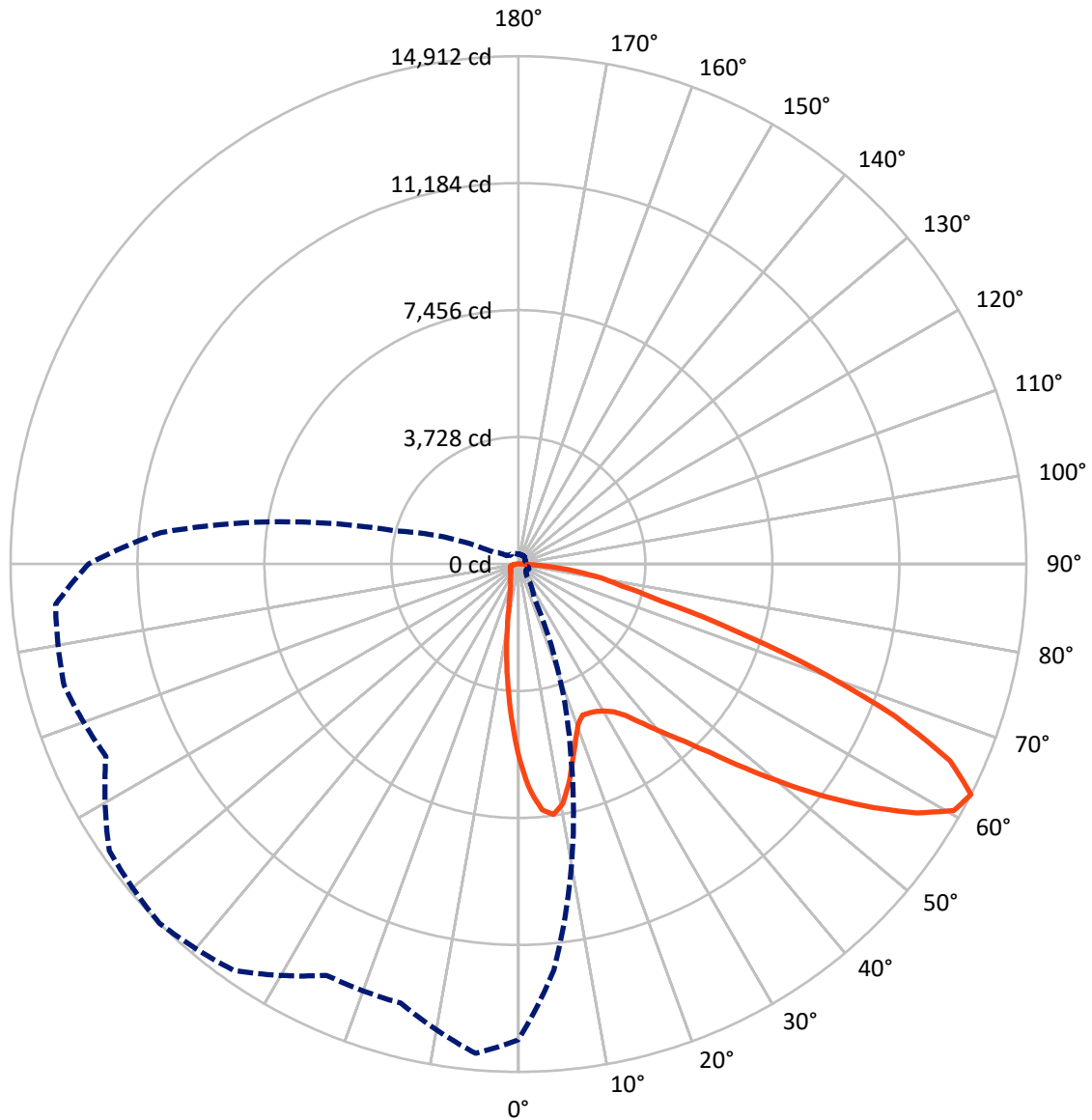
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
House Side	Lumens	2840.4	0.0	2840.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14323.3	0.0	14323.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	17163.7	0.0	17163.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	2.5
10°-20°	774.1	4.5
20°-30°	1128.6	6.6
30°-40°	1738.2	10.1
40°-50°	2558.2	14.9
50°-60°	3752.3	21.9
60°-70°	4194.5	24.4
70°-80°	2053.6	12.0
80°-90°	542.2	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°	17163.7	100.0
0°-180°	17163.7	100.0

Coefficient of Utilization



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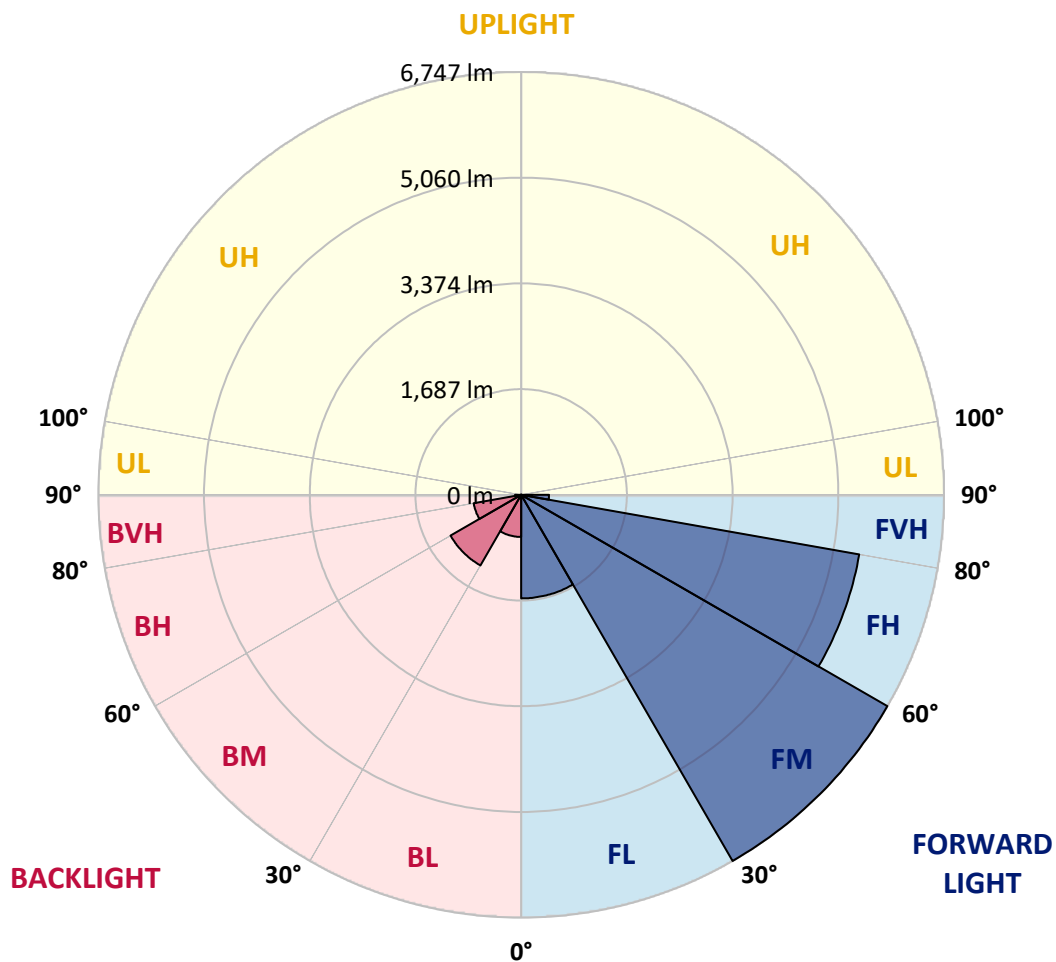
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.8	9.6			
FM (30°-60°)	6747.2	39.3			
FH (60°-80°)	5478.1	31.9			G3/7500
FVH (80°-90°)	445.3	2.6			G3/500
BL (0°-30°)	672.0	3.9	B2/1000		
BM (30°-60°)	1301.4	7.6	B2/2500		
BH (60°-80°)	770.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	96.9	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°	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9
2.5°	6025.1	5902.6	5698.7	5486.4	5357.3	5206.2	5088.3	4984.6	4776.9	4736.4	4773.2
5°	5665.8	5419.6	5035.4	4648.7	4391.0	4114.5	3899.5	3726.9	3463.6	3417.3	3473.0
7.5°	5089.4	4794.9	4287.3	3793.8	3429.6	3084.3	2852.3	2667.2	2461.6	2373.0	2378.5
10°	4592.1	4259.9	3659.8	3123.1	2824.9	2591.8	2396.5	2206.8	1998.3	1861.5	1823.8
12.5°	4313.6	3931.7	3239.9	2760.6	2484.1	2239.1	2028.6	1825.8	1603.0	1463.3	1423.9
15°	4265.6	3850.3	3082.5	2528.7	2182.2	1872.0	1623.8	1397.3	1168.0	1054.8	1031.1
17.5°	4474.2	3995.7	3031.4	2321.9	1898.3	1515.3	1210.5	957.7	770.9	714.4	709.5
20°	4874.0	4275.1	3024.9	2127.7	1618.1	1169.1	843.5	659.5	577.5	561.3	562.4
22.5°	5435.6	4708.1	3106.0	1981.4	1360.5	871.8	634.1	551.8	519.9	504.7	504.7
25°	6162.0	5304.5	3292.8	1874.9	1136.8	696.4	559.6	510.4	480.1	469.9	471.9
27.5°	6866.0	5884.6	3509.9	1790.9	990.6	632.1	530.1	485.9	459.6	449.0	453.9
30°	7415.0	6399.9	3690.9	1676.7	916.0	614.1	540.7	495.3	457.6	441.6	442.4
32.5°	7869.8	6850.9	3842.9	1594.4	850.0	526.4	466.2	446.2	441.6	422.7	413.3
35°	8451.0	7342.5	3944.9	1596.4	818.9	469.9	415.0	380.2	354.8	333.0	333.0
37.5°	9132.3	7906.6	4053.4	1618.1	807.8	436.7	397.3	362.2	338.8	317.9	314.2
40°	9805.8	8459.6	4152.5	1639.0	800.9	417.0	383.0	351.0	329.3	308.5	302.8
42.5°	10378.8	8914.3	4241.1	1649.2	778.3	415.0	372.8	343.3	322.8	299.9	294.5
45°	10802.3	9295.3	4336.5	1665.2	755.8	422.7	372.8	342.5	317.1	295.3	289.6
47.5°	11180.5	9742.6	4495.9	1665.2	728.4	408.5	385.0	343.3	316.2	293.3	288.8
50°	11687.2	10355.9	4797.8	1626.7	689.8	393.3	405.6	339.6	307.6	289.6	283.9
52.5°	12385.3	11142.0	5277.1	1559.6	630.4	364.2	402.7	337.9	299.1	280.2	273.6
55°	13211.1	11983.4	5799.8	1481.3	541.6	343.3	388.7	333.0	289.6	268.8	262.2
57.5°	13855.5	12562.7	6167.7	1360.5	464.2	332.2	344.5	328.5	278.2	256.5	251.1
60°	14112.0	12540.1	6268.8	1199.1	426.4	322.8	301.1	367.9	268.8	247.1	240.5
62.5°	13973.4	11960.9	5985.7	1086.0	417.9	310.5	282.2	340.5	261.4	240.5	231.1
65°	13332.8	10934.3	5235.6	1055.7	442.4	298.2	269.9	267.1	251.1	231.1	221.7
67.5°	11937.2	9400.2	4191.9	1058.6	473.6	285.9	257.6	244.5	236.8	220.8	212.2
70°	9722.9	7432.2	3124.8	1066.3	489.6	271.6	244.5	230.2	221.7	205.7	199.9
72.5°	7149.1	5728.1	2270.2	1017.1	492.4	255.6	226.5	214.2	205.7	188.8	183.9
75°	4891.2	4381.6	1574.7	842.6	429.3	233.1	206.5	195.4	189.7	168.8	166.0
77.5°	3573.0	3289.1	1007.7	625.5	331.0	204.8	182.2	173.7	170.0	147.1	143.4
80°	2867.5	2602.1	630.4	428.4	242.5	171.7	152.8	148.2	144.2	121.7	118.8
82.5°	1988.9	1742.6	404.7	278.2	182.2	133.1	120.8	118.8	113.1	92.5	89.7
85°	1049.1	946.3	256.5	189.7	132.0	91.4	84.0	84.0	81.1	61.4	59.4
87.5°	134.0	217.9	130.2	99.1	72.6	40.6	40.6	39.7	42.6	34.8	30.3
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°	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9
2.5°	4686.4	4731.8	4688.4	4691.2	4739.2	4882.6	4947.7	5001.4	5059.1	5096.8	5113.7
5°	3396.7	3502.4	3538.1	3613.5	3724.9	3908.0	3980.6	4033.4	4068.6	4089.1	4097.7
7.5°	2323.1	2387.0	2458.7	2580.4	2822.9	2930.6	2978.6	2966.3	2926.9	2912.6	2898.6
10°	1751.2	1725.8	1712.4	1779.5	1975.7	2084.3	2118.3	2085.1	2063.4	2068.3	2091.7
12.5°	1356.8	1312.5	1258.8	1251.1	1380.5	1477.6	1499.3	1501.0	1540.7	1575.6	1627.5
15°	988.9	984.0	957.7	941.7	1015.1	1094.5	1104.0	1120.8	1156.8	1182.2	1227.4
17.5°	697.2	722.7	743.5	753.8	809.5	866.0	855.8	847.2	840.6	840.6	862.3
20°	562.4	579.3	605.8	635.8	692.7	732.1	706.7	672.7	648.1	640.7	643.5
22.5°	506.7	519.9	535.0	561.3	612.4	639.8	612.4	587.8	563.3	554.7	551.8
25°	478.4	495.3	509.6	529.3	567.0	585.8	559.6	541.6	526.4	516.1	508.4
27.5°	462.4	477.3	481.3	490.7	522.7	539.6	526.4	519.0	509.6	500.1	490.7
30°	445.3	442.4	435.9	436.7	462.4	479.3	478.4	480.1	479.3	476.4	474.7
32.5°	406.7	401.0	395.3	401.0	424.5	439.6	440.7	444.4	444.4	443.6	451.0
35°	338.8	349.0	355.6	372.8	401.0	414.2	408.5	399.0	382.2	371.6	370.8
37.5°	313.3	315.1	326.5	349.9	381.3	393.3	385.0	363.3	351.9	349.9	352.8
40°	301.1	302.8	309.3	331.0	362.2	374.5	367.0	351.0	340.5	339.6	344.5
42.5°	292.5	294.5	298.2	313.3	338.8	353.9	354.8	343.3	331.0	332.2	336.8
45°	287.6	288.8	287.6	295.3	318.8	336.8	344.5	336.8	326.5	328.5	333.9
47.5°	286.8	283.9	280.2	282.2	306.8	324.5	333.9	331.0	326.5	328.5	333.0
50°	283.1	276.5	271.6	270.8	295.3	314.2	322.8	322.8	324.5	328.5	333.0
52.5°	271.6	264.2	264.2	261.4	287.6	305.6	311.3	312.2	315.1	321.6	328.5
55°	257.6	254.8	257.6	252.8	282.2	299.1	301.9	303.9	305.6	311.3	320.8
57.5°	245.4	241.6	248.2	246.2	277.3	292.5	292.5	296.2	296.2	303.9	311.3
60°	238.8	231.1	233.9	235.9	270.8	286.8	285.1	288.8	290.5	297.3	302.8
62.5°	230.2	223.7	223.7	228.2	263.4	278.2	277.3	280.2	287.6	289.6	295.3
65°	219.9	217.1	214.2	219.9	255.6	268.8	269.9	273.6	280.2	282.2	286.8
67.5°	209.4	210.5	204.8	210.5	249.1	259.4	259.4	267.1	269.9	273.6	278.2
70°	198.2	199.1	194.2	201.1	244.5	249.1	248.2	258.5	260.5	263.4	267.9
72.5°	183.9	183.9	182.2	191.7	236.8	238.8	236.8	245.4	246.2	249.1	251.1
75°	168.8	168.8	167.1	180.2	232.2	227.4	221.7	228.2	230.2	232.2	232.2
77.5°	149.1	151.1	151.1	167.1	215.9	222.8	203.7	207.7	210.5	211.4	208.5
80°	124.5	129.4	131.1	152.0	181.1	205.7	182.2	184.8	185.9	185.9	182.2
82.5°	95.4	103.7	108.5	131.1	138.8	172.5	158.5	161.4	158.5	152.8	151.1
85°	66.0	77.4	83.1	100.0	104.8	133.1	132.0	132.0	126.5	118.8	118.0
87.5°	36.0	42.6	46.3	59.4	71.7	89.7	97.1	94.3	89.7	84.8	86.0
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°	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9
2.5°	5202.5	5330.8	5535.6	5692.1	5849.8	6001.7	6166.0	6291.3	6397.9	6439.6	6565.8
5°	4183.7	4343.9	4537.3	4886.3	5133.7	5406.2	5721.5	6138.5	6298.8	6520.7	6883.8
7.5°	2958.0	3103.1	3414.5	3696.7	4046.8	4432.7	4858.0	5433.6	5644.1	5999.7	6591.3
10°	2208.8	2377.6	2627.5	2865.5	3174.0	3568.4	4057.1	4700.7	4956.3	5342.2	6023.4
12.5°	1779.5	1978.6	2243.6	2467.3	2706.1	2984.3	3459.0	4164.5	4507.3	4844.9	5533.6
15°	1367.0	1575.6	1822.1	2106.0	2369.0	2669.2	3166.5	3938.3	4332.5	4684.7	5272.2
17.5°	946.3	1124.5	1435.0	1731.2	2068.3	2452.2	3085.4	3986.3	4457.0	4862.9	5317.6
20°	671.0	772.6	1027.4	1371.0	1790.9	2272.8	3070.3	4239.1	4851.5	5314.8	5608.1
22.5°	564.1	601.8	750.1	1065.1	1550.1	2138.8	3123.1	4593.8	5383.6	5975.2	6071.4
25°	514.1	537.0	614.1	836.0	1335.9	2041.7	3301.3	5122.3	6042.3	6635.8	6618.7
27.5°	486.7	510.4	561.3	705.8	1174.8	1981.4	3479.6	5748.9	6795.2	7352.8	7141.4
30°	478.4	510.4	564.1	665.2	1059.7	1886.0	3625.8	6298.8	7374.5	7836.9	7379.3
32.5°	471.9	476.4	501.0	573.6	950.0	1774.6	3724.9	6792.3	7941.4	8297.3	7721.8
35°	381.3	404.7	444.4	514.1	886.0	1707.8	3724.9	7217.9	8500.1	8762.4	8048.3
37.5°	367.0	387.9	422.7	482.1	850.0	1674.7	3650.4	7628.4	9070.8	9289.9	8317.1
40°	359.6	376.5	409.6	457.6	834.9	1637.0	3541.8	7990.6	9628.4	9818.1	8568.1
42.5°	353.9	369.0	400.2	442.4	815.2	1595.5	3454.2	8281.1	10112.5	10269.1	8807.8
45°	351.0	367.0	401.0	450.2	775.5	1540.7	3425.0	8595.3	10510.7	10645.5	9067.1
47.5°	351.0	369.9	405.6	466.2	728.4	1484.1	3516.4	9009.7	10887.2	10953.2	9372.8
50°	348.2	369.0	419.0	450.2	659.5	1412.5	3731.5	9531.3	11294.8	11302.2	9759.8
52.5°	342.5	367.0	451.0	440.7	580.1	1318.2	4022.3	10201.4	11897.7	11942.9	10365.3
55°	335.9	364.2	442.4	419.0	515.3	1205.9	4259.9	11015.4	12744.9	12870.3	11256.2
57.5°	327.3	360.5	428.4	388.7	472.7	1061.4	4345.9	11611.8	13336.5	13651.5	12259.9
60°	319.9	357.6	386.7	370.8	446.2	939.7	4179.7	11493.9	13295.9	13975.2	13149.7
62.5°	312.2	360.5	352.8	359.6	433.9	861.5	3745.8	10549.3	12623.3	13641.3	13809.2
65°	303.9	335.0	333.0	349.9	431.3	830.3	3105.1	9133.1	11323.1	12585.6	13964.9
67.5°	292.5	309.3	318.8	337.9	440.7	802.9	2505.9	7533.9	9516.1	11003.1	13153.4
70°	280.2	294.5	304.8	322.8	435.0	790.6	2084.3	5941.2	7551.0	9018.0	11552.4
72.5°	264.2	276.5	285.9	302.8	429.3	784.1	1760.6	4784.6	5637.5	6698.9	9392.7
75°	245.4	256.5	263.4	280.2	411.3	718.1	1384.2	4048.6	4218.5	4660.1	7481.0
77.5°	223.7	232.2	237.6	256.5	364.2	597.3	1001.1	3123.1	3275.9	3383.3	5735.5
80°	198.2	206.5	209.4	227.4	301.9	467.0	653.0	2306.8	2450.2	2474.7	3745.8
82.5°	168.8	177.4	177.4	194.2	247.1	335.9	428.4	1580.4	1608.7	1691.8	2647.5
85°	136.0	142.5	142.5	151.1	191.7	251.1	294.5	793.5	784.9	896.3	2293.6
87.5°	97.1	102.0	106.5	108.5	136.8	166.0	177.4	241.6	159.4	183.1	1472.7
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°	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9	5798.9
2.5°	6661.2	6714.9	6660.1	6620.7	6449.9	6309.3	6121.4	6025.1
5°	7160.2	7297.1	7250.8	7084.8	6728.1	6327.1	5871.5	5665.8
7.5°	7100.0	7417.9	7425.3	7115.1	6589.5	5998.9	5381.9	5089.4
10°	6630.1	7036.6	7152.8	6851.8	6294.2	5633.8	4926.0	4592.1
12.5°	6105.4	6503.6	6592.4	6488.4	6022.6	5359.0	4641.2	4313.6
15°	5676.1	5854.6	5960.0	6050.8	5789.5	5249.6	4625.0	4265.6
17.5°	5414.7	5395.0	5425.3	5582.7	5627.0	5375.0	4870.3	4474.2
20°	5320.5	5017.7	5010.0	5227.1	5550.7	5674.4	5349.6	4874.0
22.5°	5372.5	4881.8	4819.5	5077.1	5591.3	6105.4	5978.0	5435.6
25°	5551.6	4893.2	4842.9	5092.3	5738.4	6565.0	6656.4	6162.0
27.5°	5833.8	4964.9	4898.6	5154.5	5933.7	6950.9	7324.5	6866.0
30°	6101.7	5089.4	5007.1	5277.1	6112.0	7103.7	7734.1	7415.0
32.5°	6427.3	5322.5	5178.0	5502.4	6332.8	7347.0	8099.1	7869.8
35°	6746.1	5654.4	5475.3	5850.6	6579.0	7650.1	8516.1	8451.0
37.5°	7096.3	6088.5	5940.3	6300.8	6916.0	7935.7	9048.3	9132.3
40°	7469.9	6664.1	6488.4	6957.4	7438.7	8294.5	9604.1	9805.8
42.5°	7846.3	7302.8	7093.4	7568.7	8013.1	8648.1	10079.4	10378.8
45°	8277.4	7996.3	7897.2	8411.3	8565.3	8985.2	10430.5	10802.3
47.5°	8779.5	8783.2	8942.6	9148.2	9122.0	9366.2	10783.5	11180.5
50°	9365.3	9765.2	10117.4	10253.9	9695.5	9775.8	11273.1	11687.2
52.5°	10069.1	10940.0	11375.9	11286.2	10313.6	10275.6	12048.6	12385.3
55°	10949.4	12183.7	12616.7	12552.4	11024.0	10956.9	13014.9	13211.1
57.5°	11968.3	13388.5	13786.6	13497.9	11876.9	11704.4	13814.1	13855.5
60°	12863.8	14343.3	14692.4	14372.5	12737.5	12499.6	14313.1	14112.0
62.5°	13361.9	14667.0	14912.3	14567.8	13327.1	13346.8	14422.5	13973.4
65°	13139.4	13848.9	13928.0	13899.7	13175.1	13838.3	14029.1	13332.8
67.5°	11920.3	11780.6	11913.7	12097.7	11873.2	13191.1	12939.2	11937.2
70°	9772.9	9005.7	9271.1	9394.5	9496.4	11351.3	11230.5	9722.9
72.5°	7365.0	6309.3	6518.7	6493.3	6964.9	9104.8	8734.1	7149.1
75°	5218.5	4277.9	4304.2	4293.9	4860.0	7123.4	6324.5	4891.2
77.5°	3651.2	3099.4	3113.7	3172.0	3267.4	5372.5	4518.4	3573.0
80°	2510.7	2352.2	2430.4	2435.3	2264.5	3609.0	3338.2	2867.5
82.5°	1870.0	1635.0	1616.1	1643.5	1774.6	2924.0	2565.3	1988.9
85°	1531.3	968.0	778.3	975.7	1572.7	2895.7	1704.1	1049.1
87.5°	862.3	459.6	207.7	385.0	627.5	1917.2	492.4	134.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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