

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: P299414

Luminaire Tested: **GAA-AF-04-LED-U-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299414
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16435.5 lumens
Efficiency: N/A
Efficacy: 96.1 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): 171
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

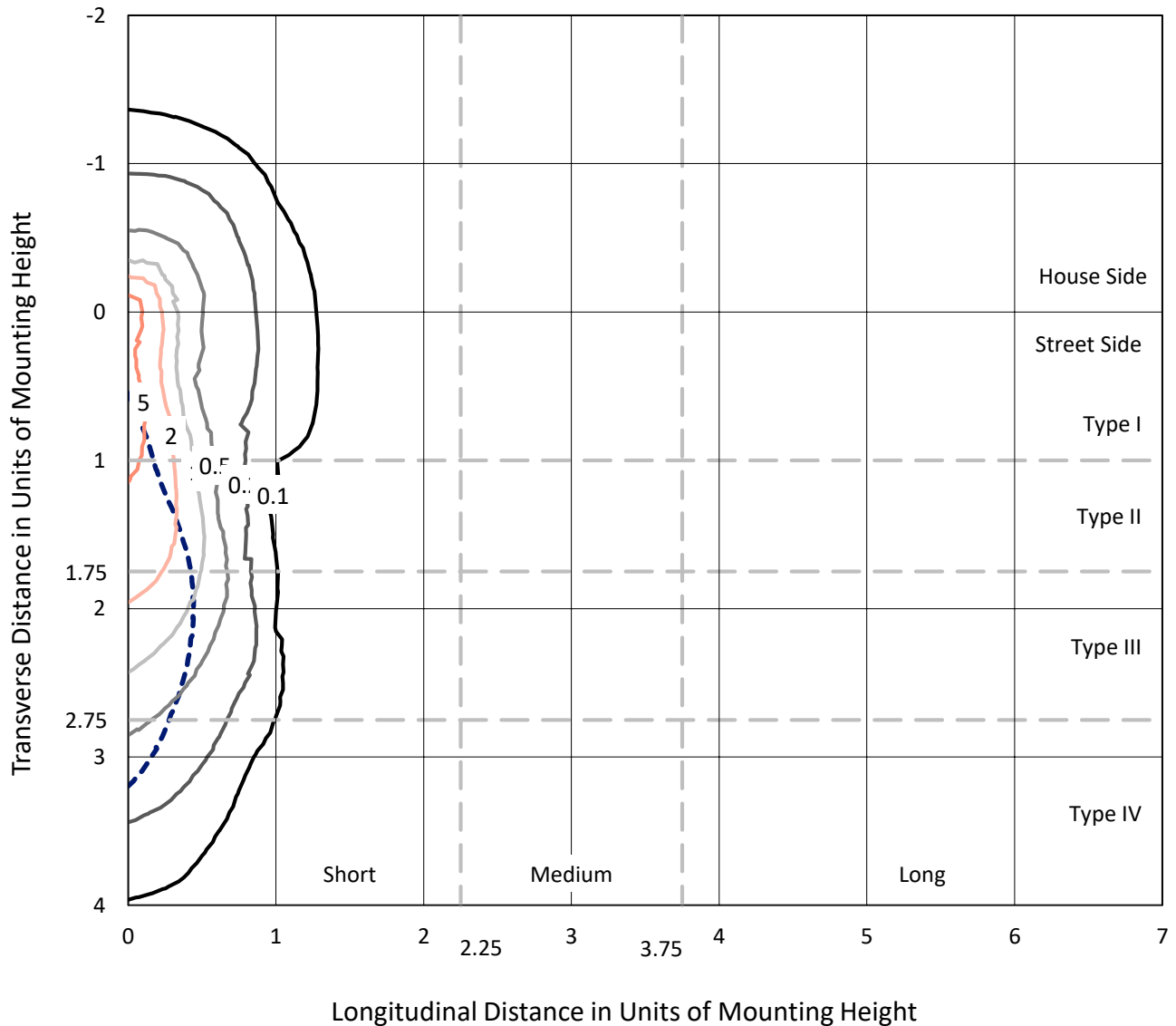


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Iso-Footcandle Lines of Horizontal Illumination

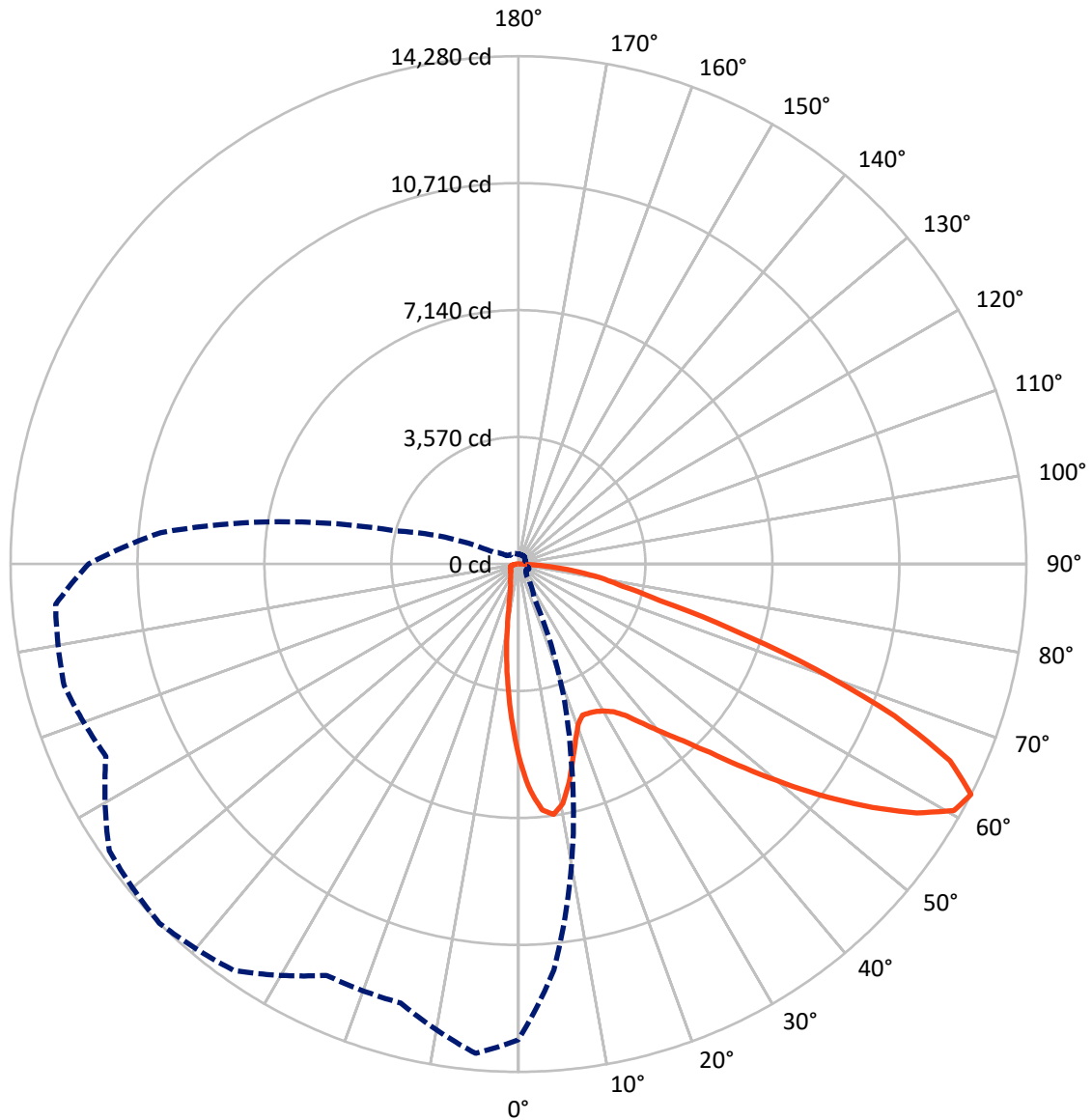
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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
House Side	Lumens	2719.9	0.0	2719.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	13715.7	0.0	13715.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	16435.5	0.0	16435.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.2	2.5
10°-20°	741.2	4.5
20°-30°	1080.7	6.6
30°-40°	1664.4	10.1
40°-50°	2449.6	14.9
50°-60°	3593.1	21.9
60°-70°	4016.5	24.4
70°-80°	1966.5	12.0
80°-90°	519.2	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°	16435.5	100.0
0°-180°	16435.5	100.0

Coefficient of Utilization



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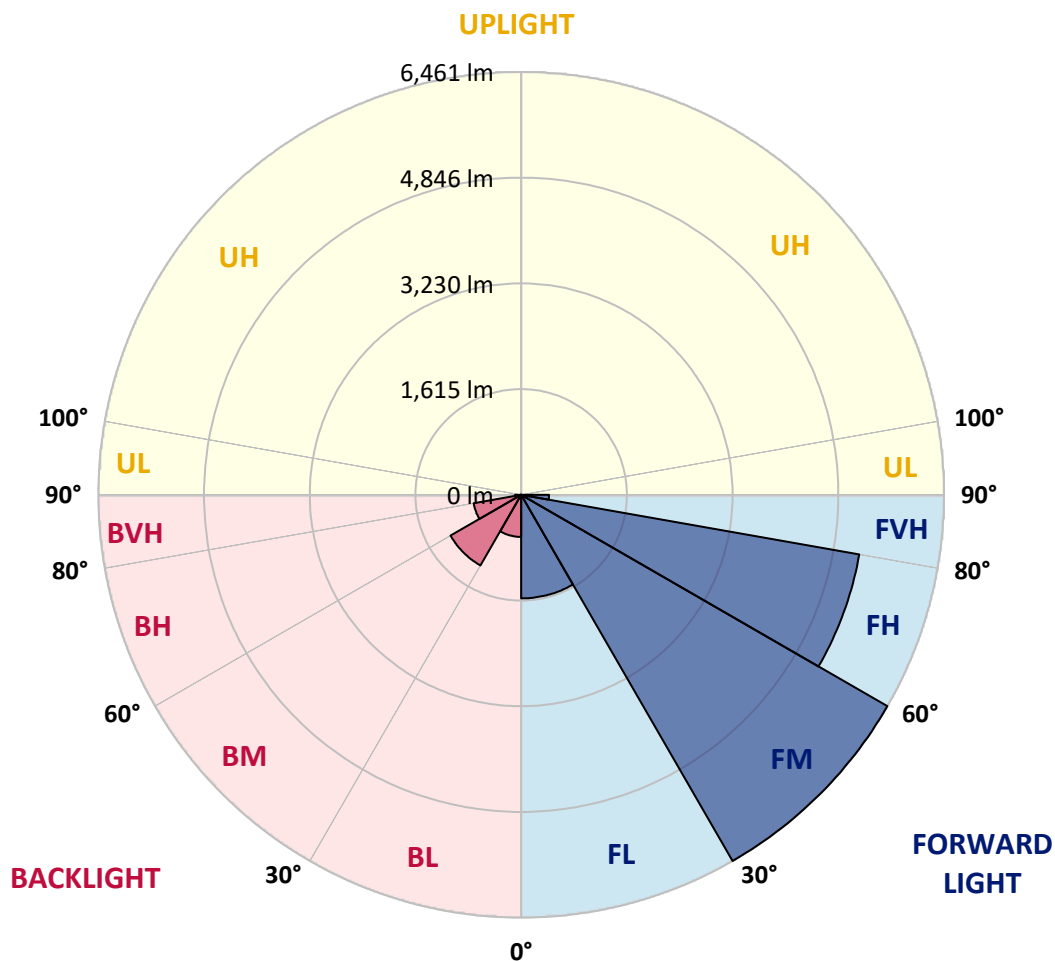
CATALOG NUMBER: GAA-AF-04-LED-U-SLR-7030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1582.7	9.6			
FM	(30°-60°)	6460.9	39.3			
FH	(60°-80°)	5245.6	31.9			G3/7500
FVH	(80°-90°)	426.4	2.6			G3/500
BL	(0°-30°)	643.5	3.9	B2/1000		
BM	(30°-60°)	1246.2	7.6	B2/2500		
BH	(60°-80°)	737.4	4.5	B2/1000		G2/1000
BVH	(80°-90°)	92.8	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°	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9
2.5°	5769.5	5652.2	5456.9	5253.7	5130.0	4985.4	4872.4	4773.1	4574.3	4535.4	4570.7
5°	5425.4	5189.7	4821.8	4451.5	4204.7	3940.0	3734.0	3568.8	3316.6	3272.3	3325.7
7.5°	4873.5	4591.5	4105.5	3632.8	3284.1	2953.4	2731.3	2554.1	2357.2	2272.4	2277.6
10°	4397.3	4079.2	3504.5	2990.6	2705.1	2481.9	2294.8	2113.2	1913.5	1782.5	1746.4
12.5°	4130.6	3764.9	3102.5	2643.5	2378.8	2144.1	1942.5	1748.3	1535.0	1401.2	1363.5
15°	4084.7	3687.0	2951.8	2421.4	2089.7	1792.6	1554.9	1338.0	1118.4	1010.1	987.4
17.5°	4284.3	3826.2	2902.8	2223.4	1817.8	1451.0	1159.2	917.1	738.2	684.1	679.4
20°	4667.3	4093.7	2896.5	2037.4	1549.5	1119.5	807.7	631.5	553.0	537.5	538.6
22.5°	5205.0	4508.3	2974.2	1897.4	1302.8	834.8	607.2	528.4	497.8	483.3	483.3
25°	5900.5	5079.4	3153.1	1795.4	1088.6	666.8	535.8	488.8	459.8	449.9	451.8
27.5°	6574.8	5635.0	3361.0	1714.9	948.5	605.3	507.6	465.2	440.1	430.0	434.6
30°	7100.4	6128.4	3534.4	1605.5	877.2	588.1	517.8	474.3	438.2	422.9	423.7
32.5°	7535.9	6560.3	3679.9	1526.8	814.0	504.1	446.4	427.2	422.9	404.8	395.8
35°	8092.5	7031.0	3777.5	1528.7	784.2	449.9	397.4	364.0	339.7	318.9	318.9
37.5°	8744.8	7571.2	3881.5	1549.5	773.5	418.2	380.5	346.8	324.4	304.4	300.9
40°	9389.8	8100.7	3976.4	1569.4	766.9	399.3	366.8	336.1	315.4	295.4	289.9
42.5°	9938.4	8536.1	4061.1	1579.3	745.3	397.4	356.9	328.8	309.1	287.2	282.0
45°	10344.1	8901.0	4152.5	1594.6	723.7	404.8	356.9	327.9	303.6	282.8	277.3
47.5°	10706.2	9329.3	4305.1	1594.6	697.5	391.1	368.7	328.8	302.8	280.9	276.5
50°	11191.4	9916.6	4594.2	1557.7	660.5	376.6	388.4	325.2	294.6	277.3	271.9
52.5°	11859.9	10669.3	5053.2	1493.4	603.6	348.7	385.7	323.6	286.4	268.3	262.0
55°	12650.6	11475.0	5553.7	1418.4	518.6	328.8	372.3	318.9	277.3	257.4	251.1
57.5°	13267.7	12029.7	5906.0	1302.8	444.5	318.1	329.9	314.5	266.4	245.6	240.4
60°	13513.3	12008.1	6002.8	1148.2	408.4	309.1	288.3	352.3	257.4	236.6	230.3
62.5°	13380.6	11453.4	5731.8	1039.9	400.2	297.3	270.2	326.0	250.3	230.3	221.3
65°	12767.1	10470.4	5013.5	1010.9	423.7	285.5	258.5	255.7	240.4	221.3	212.2
67.5°	11430.7	9001.4	4014.1	1013.6	453.5	273.8	246.7	234.1	226.7	211.4	203.2
70°	9310.4	7116.9	2992.3	1021.0	468.8	260.1	234.1	220.5	212.2	196.9	191.5
72.5°	6845.8	5485.1	2173.9	974.0	471.5	244.8	216.9	205.1	196.9	180.8	176.1
75°	4683.7	4195.7	1507.9	806.9	411.1	223.2	197.8	187.1	181.6	161.6	158.9
77.5°	3421.4	3149.5	965.0	599.0	317.0	196.1	174.5	166.3	162.7	140.9	137.3
80°	2745.8	2491.7	603.6	410.3	232.2	164.4	146.3	142.0	138.1	116.5	113.8
82.5°	1904.5	1668.7	387.6	266.4	174.5	127.5	115.7	113.8	108.3	88.6	85.9
85°	1004.6	906.2	245.6	181.6	126.4	87.5	80.4	80.4	77.7	58.8	56.9
87.5°	128.3	208.7	124.7	94.9	69.5	38.8	38.8	38.0	40.8	33.4	29.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9
2.5°	4487.6	4531.0	4489.5	4492.2	4538.2	4675.5	4737.8	4789.2	4844.5	4880.6	4896.7
5°	3252.6	3353.8	3388.0	3460.2	3566.9	3742.2	3811.7	3862.3	3895.9	3915.6	3923.8
7.5°	2224.5	2285.8	2354.4	2470.9	2703.1	2806.3	2852.2	2840.5	2802.7	2789.0	2775.6
10°	1676.9	1652.6	1639.7	1704.0	1891.9	1995.8	2028.4	1996.7	1975.9	1980.5	2002.9
12.5°	1299.2	1256.8	1205.4	1198.0	1321.9	1414.9	1435.7	1437.3	1475.3	1508.7	1558.5
15°	946.9	942.3	917.1	901.8	972.1	1048.1	1057.1	1073.3	1107.7	1132.1	1175.3
17.5°	667.6	692.0	712.0	721.8	775.1	829.3	819.5	811.2	805.0	805.0	825.7
20°	538.6	554.7	580.1	608.8	663.3	701.0	676.7	644.1	620.6	613.5	616.2
22.5°	485.2	497.8	512.3	537.5	586.4	612.7	586.4	562.9	539.4	531.2	528.4
25°	458.1	474.3	488.0	506.8	542.9	561.0	535.8	518.6	504.1	494.2	486.9
27.5°	442.8	457.0	460.9	469.9	500.5	516.7	504.1	497.0	488.0	478.9	469.9
30°	426.4	423.7	417.4	418.2	442.8	459.0	458.1	459.8	459.0	456.2	454.6
32.5°	389.5	384.0	378.5	384.0	406.4	420.9	422.0	425.6	425.6	424.8	431.9
35°	324.4	334.2	340.5	356.9	384.0	396.6	391.1	382.1	366.0	355.8	355.0
37.5°	300.0	301.7	312.6	335.1	365.1	376.6	368.7	347.9	337.0	335.1	337.8
40°	288.3	289.9	296.2	317.0	346.8	358.6	351.5	336.1	326.0	325.2	329.9
42.5°	280.1	282.0	285.5	300.0	324.4	338.9	339.7	328.8	317.0	318.1	322.5
45°	275.4	276.5	275.4	282.8	305.2	322.5	329.9	322.5	312.6	314.5	319.7
47.5°	274.6	271.9	268.3	270.2	293.8	310.7	319.7	317.0	312.6	314.5	318.9
50°	271.1	264.8	260.1	259.3	282.8	300.9	309.1	309.1	310.7	314.5	318.9
52.5°	260.1	253.0	253.0	250.3	275.4	292.7	298.1	299.0	301.7	308.0	314.5
55°	246.7	244.0	246.7	242.1	270.2	286.4	289.1	291.0	292.7	298.1	307.2
57.5°	234.9	231.4	237.7	235.8	265.6	280.1	280.1	283.6	283.6	291.0	298.1
60°	228.7	221.3	224.0	225.9	259.3	274.6	273.0	276.5	278.2	284.7	289.9
62.5°	220.5	214.2	214.2	218.5	252.2	266.4	265.6	268.3	275.4	277.3	282.8
65°	210.6	207.9	205.1	210.6	244.8	257.4	258.5	262.0	268.3	270.2	274.6
67.5°	200.5	201.6	196.1	201.6	238.5	248.4	248.4	255.7	258.5	262.0	266.4
70°	189.8	190.6	186.0	192.6	234.1	238.5	237.7	247.5	249.4	252.2	256.6
72.5°	176.1	176.1	174.5	183.5	226.7	228.7	226.7	234.9	235.8	238.5	240.4
75°	161.6	161.6	160.0	172.6	222.4	217.7	212.2	218.5	220.5	222.4	222.4
77.5°	142.8	144.7	144.7	160.0	206.8	213.3	195.0	198.8	201.6	202.4	199.7
80°	119.3	123.9	125.5	145.5	173.4	196.9	174.5	177.0	178.1	178.1	174.5
82.5°	91.4	99.3	103.9	125.5	132.9	165.2	151.8	154.5	151.8	146.3	144.7
85°	63.2	74.1	79.6	95.7	100.4	127.5	126.4	126.4	121.2	113.8	113.0
87.5°	34.5	40.8	44.3	56.9	68.7	85.9	93.0	90.3	85.9	81.2	82.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9
2.5°	4981.8	5104.6	5300.7	5450.6	5601.6	5747.1	5904.4	6024.4	6126.5	6166.4	6287.3
5°	4006.2	4159.6	4344.8	4679.0	4915.9	5176.8	5478.8	5878.1	6031.6	6244.1	6591.7
7.5°	2832.5	2971.5	3269.6	3539.8	3875.2	4244.7	4651.9	5203.1	5404.7	5745.2	6311.6
10°	2115.1	2276.7	2516.1	2743.9	3039.3	3417.0	3885.0	4501.2	4746.0	5115.5	5767.9
12.5°	1704.0	1894.6	2148.5	2362.6	2591.3	2857.7	3312.3	3987.8	4316.1	4639.4	5298.8
15°	1309.0	1508.7	1744.8	2016.6	2268.5	2556.0	3032.2	3771.2	4148.7	4485.9	5048.5
17.5°	906.2	1076.8	1374.1	1657.8	1980.5	2348.1	2954.5	3817.2	4267.9	4656.6	5092.0
20°	642.5	739.9	983.8	1312.9	1714.9	2176.4	2940.0	4059.2	4645.7	5089.3	5370.2
22.5°	540.2	576.3	718.3	1019.9	1484.4	2048.1	2990.6	4398.9	5155.2	5721.7	5813.8
25°	492.3	514.2	588.1	800.6	1279.2	1955.1	3161.3	4904.9	5785.9	6354.3	6337.9
27.5°	466.1	488.8	537.5	675.9	1125.0	1897.4	3332.0	5505.0	6506.9	7040.8	6838.4
30°	458.1	488.8	540.2	637.0	1014.7	1806.0	3472.0	6031.6	7061.6	7504.4	7066.3
32.5°	451.8	456.2	479.7	549.2	909.7	1699.3	3566.9	6504.2	7604.5	7945.3	7394.2
35°	365.1	387.6	425.6	492.3	848.4	1635.3	3566.9	6911.7	8139.5	8390.6	7706.8
37.5°	351.5	371.4	404.8	461.7	814.0	1603.6	3495.5	7304.8	8686.0	8895.8	7964.2
40°	344.4	360.5	392.2	438.2	799.5	1567.5	3391.6	7651.6	9219.9	9401.5	8204.6
42.5°	338.9	353.4	383.2	423.7	780.6	1527.9	3307.6	7929.7	9683.5	9833.4	8434.1
45°	336.1	351.5	384.0	431.1	742.6	1475.3	3279.7	8230.6	10064.8	10193.9	8682.5
47.5°	336.1	354.2	388.4	446.4	697.5	1421.2	3367.2	8627.5	10425.3	10488.5	8975.1
50°	333.4	353.4	401.2	431.1	631.5	1352.5	3573.2	9126.9	10815.6	10822.7	9345.7
52.5°	327.9	351.5	431.9	422.0	555.5	1262.3	3851.6	9768.6	11393.0	11436.2	9925.6
55°	321.7	348.7	423.7	401.2	493.4	1154.8	4079.2	10548.1	12204.2	12324.3	10778.7
57.5°	313.4	345.2	410.3	372.3	452.7	1016.4	4161.5	11119.2	12770.7	13072.4	11739.8
60°	306.3	342.4	370.3	355.0	427.2	899.9	4002.3	11006.2	12731.8	13382.3	12591.8
62.5°	299.0	345.2	337.8	344.4	415.5	824.9	3586.9	10101.7	12087.7	13062.5	13223.4
65°	291.0	320.8	318.9	335.1	413.0	795.1	2973.4	8745.6	10842.7	12051.6	13372.4
67.5°	280.1	296.2	305.2	323.6	422.0	768.9	2399.5	7214.2	9112.4	10536.3	12595.4
70°	268.3	282.0	291.8	309.1	416.6	757.1	1995.8	5689.1	7230.6	8635.4	11062.3
72.5°	253.0	264.8	273.8	289.9	411.1	750.8	1685.9	4581.6	5398.4	6414.7	8994.3
75°	234.9	245.6	252.2	268.3	393.9	687.6	1325.5	3876.8	4039.5	4462.4	7163.6
77.5°	214.2	222.4	227.6	245.6	348.7	571.9	958.7	2990.6	3136.9	3239.8	5492.2
80°	189.8	197.8	200.5	217.7	289.1	447.2	625.3	2208.9	2346.2	2369.7	3586.9
82.5°	161.6	169.9	169.9	186.0	236.6	321.7	410.3	1513.4	1540.4	1620.0	2535.2
85°	130.2	136.5	136.5	144.7	183.5	240.4	282.0	759.8	751.6	858.3	2196.3
87.5°	93.0	97.6	102.0	103.9	131.0	158.9	169.9	231.4	152.6	175.3	1410.2
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°	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9
2.5°	6378.6	6430.1	6377.5	6339.8	6176.2	6041.7	5861.7	5769.5
5°	6856.5	6987.5	6943.2	6784.3	6442.6	6058.6	5622.4	5425.4
7.5°	6798.8	7103.2	7110.3	6813.3	6310.0	5744.4	5153.6	4873.5
10°	6348.8	6738.0	6849.4	6561.1	6027.2	5394.8	4717.0	4397.3
12.5°	5846.4	6227.7	6312.7	6213.2	5767.1	5131.7	4444.3	4130.6
15°	5435.3	5606.2	5707.2	5794.1	5543.9	5026.9	4428.8	4084.7
17.5°	5185.0	5166.2	5195.1	5345.8	5388.2	5147.0	4663.7	4284.3
20°	5094.8	4804.8	4797.5	5005.3	5315.2	5433.6	5122.7	4667.3
22.5°	5144.5	4674.6	4615.0	4861.7	5354.1	5846.4	5724.4	5205.0
25°	5316.0	4685.6	4637.4	4876.2	5494.9	6286.5	6374.0	5900.5
27.5°	5586.3	4754.2	4690.8	4935.9	5682.0	6656.0	7013.7	6574.8
30°	5842.8	4873.5	4794.7	5053.2	5852.7	6802.3	7406.0	7100.4
32.5°	6154.6	5096.7	4958.3	5269.0	6064.1	7035.4	7755.5	7535.9
35°	6459.9	5414.5	5243.0	5602.4	6299.9	7325.6	8154.8	8092.5
37.5°	6795.2	5830.2	5688.3	6033.5	6622.6	7599.1	8664.4	8744.8
40°	7153.0	6381.4	6213.2	6662.3	7123.1	7942.6	9196.7	9389.8
42.5°	7513.5	6993.0	6792.5	7247.6	7673.2	8281.2	9651.8	9938.4
45°	7926.2	7657.1	7562.1	8054.5	8201.9	8604.0	9987.9	10344.1
47.5°	8407.0	8410.6	8563.2	8760.1	8735.0	8968.8	10326.0	10706.2
50°	8968.0	9350.9	9688.2	9818.9	9284.2	9361.0	10794.8	11191.4
52.5°	9641.9	10475.9	10893.3	10807.4	9876.1	9839.7	11537.4	11859.9
55°	10484.9	11666.8	12081.4	12019.9	10556.3	10492.0	12462.7	12650.6
57.5°	11460.5	12820.5	13201.7	12925.2	11373.0	11207.8	13228.0	13267.7
60°	12318.0	13734.8	14069.1	13762.7	12197.1	11969.3	13705.8	13513.3
62.5°	12795.0	14044.7	14279.7	13949.8	12761.7	12780.5	13810.6	13380.6
65°	12582.0	13261.4	13337.1	13310.1	12616.2	13251.3	13434.0	12767.1
67.5°	11414.6	11280.9	11408.3	11584.5	11369.5	12631.5	12390.2	11430.7
70°	9358.3	8623.7	8877.7	8995.9	9093.6	10869.8	10754.1	9310.4
72.5°	7052.6	6041.7	6242.2	6217.8	6669.4	8718.6	8363.5	6845.8
75°	4997.1	4096.4	4121.6	4111.8	4653.9	6821.2	6056.2	4683.7
77.5°	3496.3	2967.9	2981.6	3037.4	3128.7	5144.5	4326.7	3421.4
80°	2404.2	2252.4	2327.3	2332.0	2168.4	3455.9	3196.6	2745.8
82.5°	1790.7	1565.6	1547.5	1573.8	1699.3	2800.0	2456.4	1904.5
85°	1466.3	926.9	745.3	934.3	1506.0	2772.9	1631.8	1004.6
87.5°	825.7	440.1	198.8	368.7	600.9	1835.8	471.5	128.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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