

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: P324387

Luminaire Tested: **GAN-SA3A-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3A-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8819 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

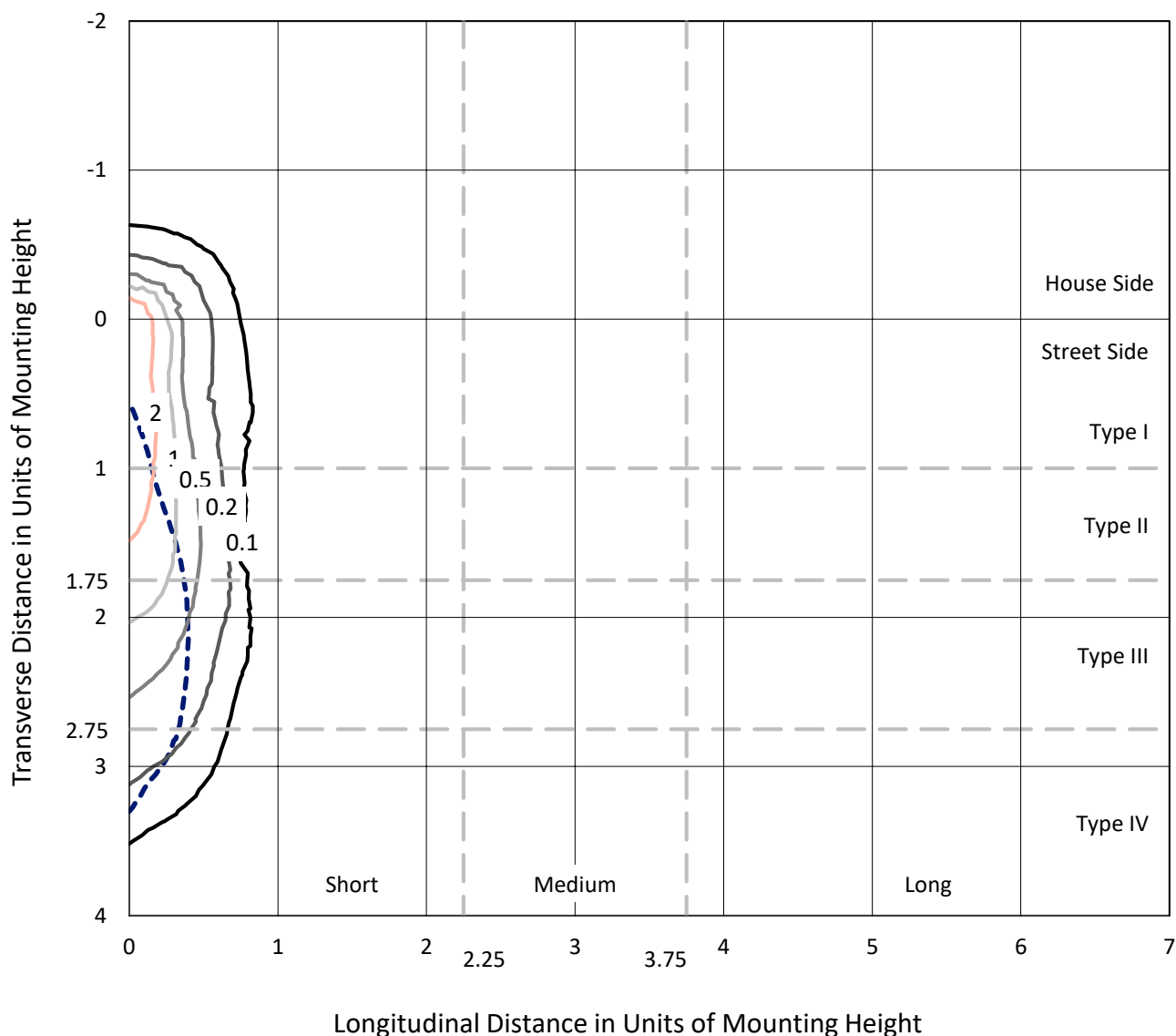
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

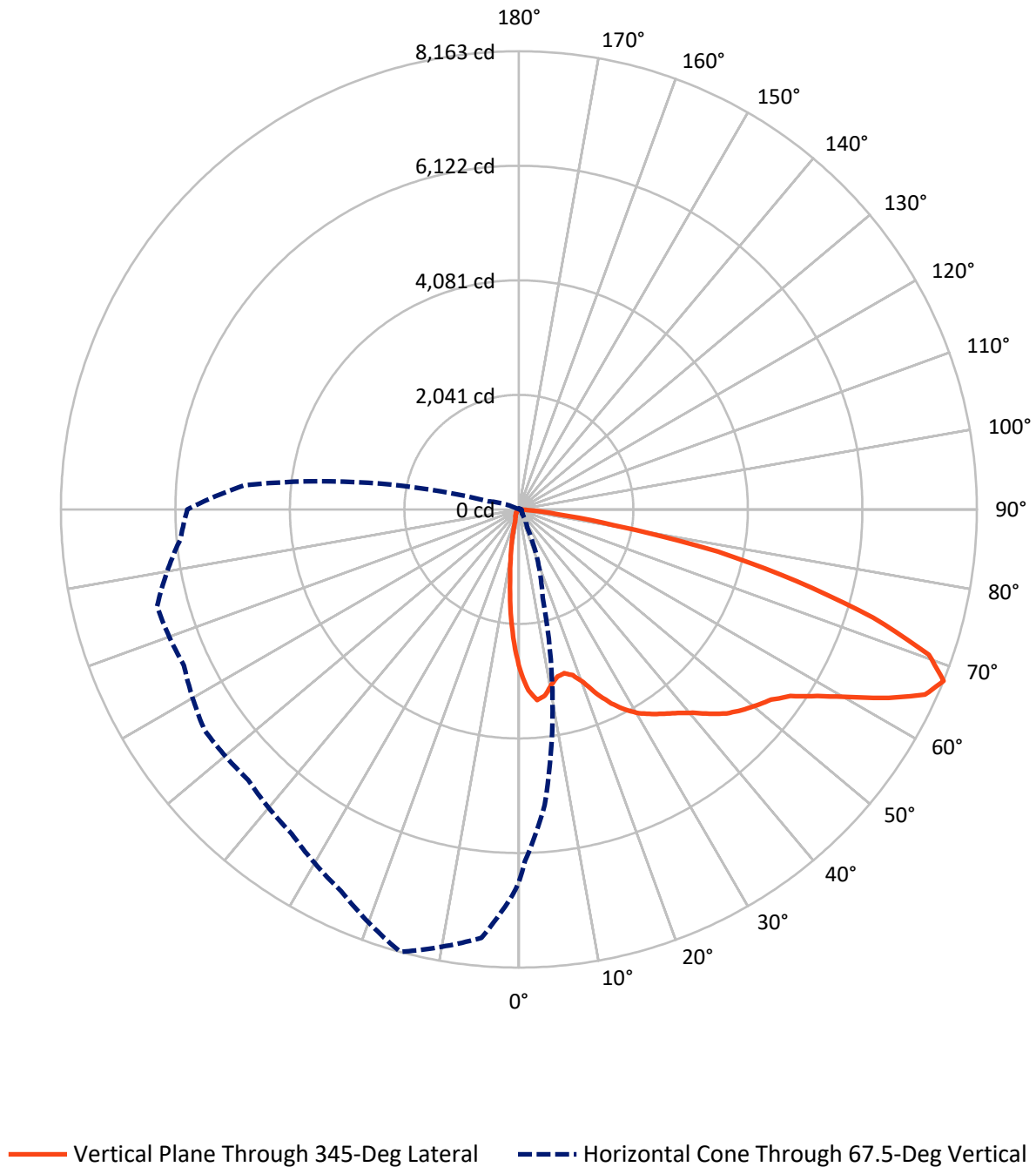
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1067.4	0.0	1067.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	7751.6	0.0	7751.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	8819.0	0.0	8819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	2.5
10°-20°	438.9	5.0
20°-30°	623.2	7.1
30°-40°	920.5	10.4
40°-50°	1327.5	15.1
50°-60°	1863.6	21.1
60°-70°	2172.4	24.6
70°-80°	1110.6	12.6
80°-90°	141.8	1.6
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°	8819.0	100.0
0°-180°	8819.0	100.0

Coefficient of Utilization



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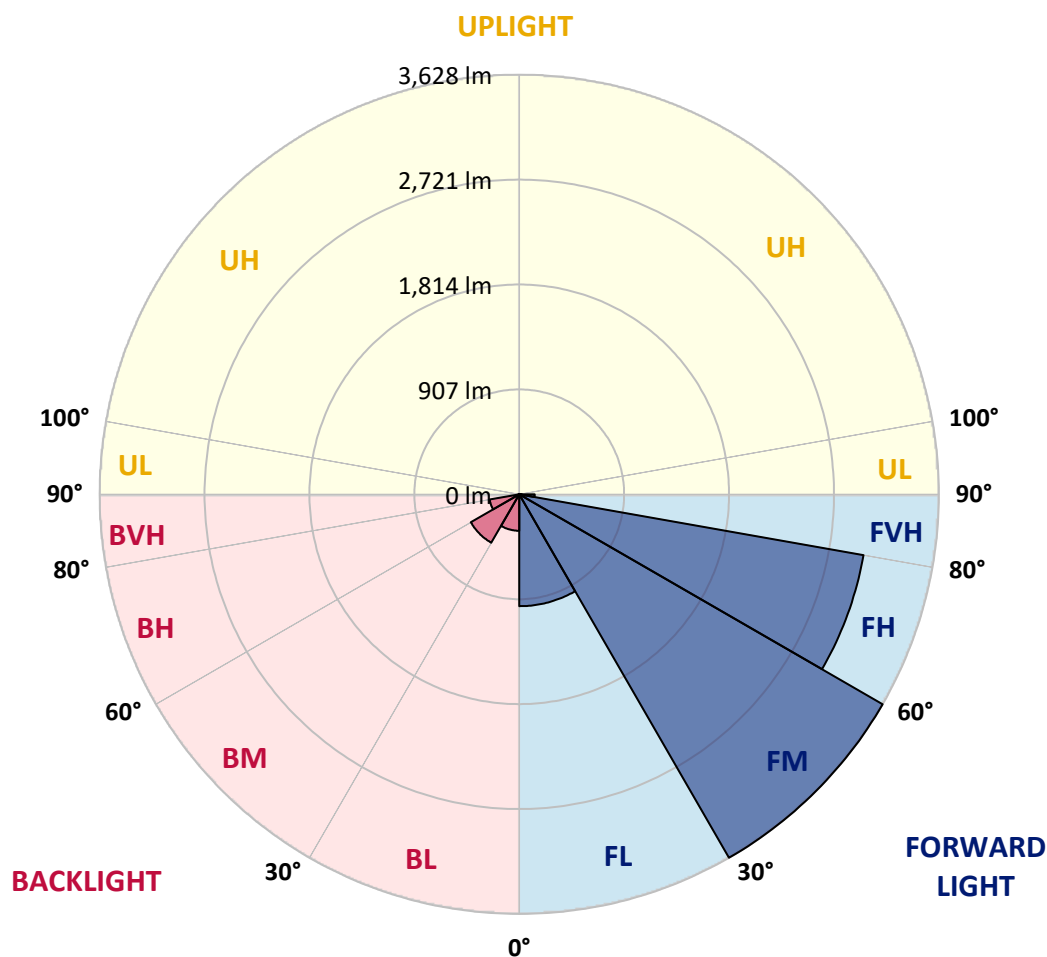
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	967.3	11.0			
FM	(30°-60°)	3628.3	41.1			
FH	(60°-80°)	3022.8	34.3			G2/5000
FVH	(80°-90°)	133.2	1.5			G2/225
BL	(0°-30°)	315.3	3.6	B1/500		
BM	(30°-60°)	483.4	5.5	B1/1000		
BH	(60°-80°)	260.2	2.9	B1/500		G1/500
BVH	(80°-90°)	8.6	0.1			G0/10
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8
2.5°	3145.6	3121.4	3094.6	3007.3	2926.3	2833.5	2757.9	2705.2	2639.2	2553.6	2531.9
5°	3123.0	3097.1	3013.2	2818.9	2648.8	2483.4	2323.8	2230.2	2114.1	1996.2	1967.0
7.5°	2896.2	2869.0	2747.9	2481.7	2252.8	2013.8	1806.6	1678.3	1547.1	1439.3	1382.1
10°	2660.1	2630.5	2494.2	2171.3	1889.3	1673.3	1521.2	1398.8	1274.7	1159.4	1067.5
12.5°	2497.6	2458.7	2310.8	1944.8	1699.2	1552.5	1410.5	1263.8	1095.9	972.2	871.1
15°	2429.5	2385.2	2228.9	1857.5	1631.9	1459.8	1274.7	1094.6	897.8	756.2	663.5
17.5°	2482.1	2424.5	2256.9	1851.7	1547.5	1313.1	1079.2	867.8	654.3	511.0	445.0
20°	2660.9	2585.3	2372.7	1850.0	1445.2	1138.9	842.3	603.3	431.2	346.8	312.1
22.5°	2942.5	2842.7	2539.0	1863.4	1339.5	955.9	608.3	409.9	323.8	279.9	259.5
25°	3282.6	3166.9	2778.4	1910.6	1246.7	777.9	442.0	323.8	273.2	241.1	223.9
27.5°	3606.0	3512.0	3080.8	1978.7	1174.8	634.2	358.9	274.5	233.5	212.2	198.5
30°	3929.0	3810.7	3391.3	2059.7	1088.4	536.9	315.4	250.3	209.3	186.8	178.0
32.5°	4163.8	4065.6	3634.4	2118.2	996.0	473.4	282.0	229.0	195.5	172.6	159.6
35°	4439.9	4328.8	3842.9	2131.2	936.7	433.3	253.6	206.0	169.6	149.2	135.4
37.5°	4738.2	4599.9	4083.5	2102.8	890.3	413.6	232.3	195.5	158.3	137.5	122.8
40°	5068.3	4912.0	4314.6	2061.8	844.8	406.9	216.0	187.6	149.6	128.3	113.2
42.5°	5415.9	5231.7	4514.7	2018.8	816.0	384.0	214.3	179.7	142.9	119.9	104.9
45°	5707.9	5521.2	4720.3	2004.6	795.5	358.9	221.4	174.2	138.3	113.2	98.6
47.5°	5940.7	5763.9	4930.8	2036.3	783.8	335.9	201.8	181.3	135.8	107.4	93.2
50°	6218.5	6018.4	5227.5	2131.2	766.7	312.9	182.6	207.6	135.8	103.6	88.6
52.5°	6566.9	6368.9	5558.4	2278.2	732.4	281.2	164.2	208.1	137.0	98.6	82.7
55°	7005.2	6861.5	6030.9	2439.5	677.7	234.4	142.1	178.8	132.0	89.4	77.3
57.5°	7425.5	7308.1	6461.7	2549.8	604.6	183.0	123.7	144.1	120.7	78.5	68.9
59°	7540.4	7412.1	6619.6	2554.8	549.8	159.6	114.5	119.1	118.2	73.5	63.9
60°	7540.4	7404.2	6665.1	2528.1	510.1	146.6	108.6	106.1	123.3	70.2	61.0
62.5°	7403.8	7212.4	6517.2	2347.2	416.1	124.9	94.8	87.7	110.7	63.1	53.9
65°	7119.7	6841.0	6013.4	2020.0	371.0	114.5	81.9	71.9	76.9	55.6	47.2
67.5°	6645.9	6268.2	5286.8	1631.9	353.0	111.6	70.6	61.0	58.1	47.6	41.4
70°	5811.6	5392.5	4404.8	1283.1	337.6	110.3	59.3	51.4	46.8	40.1	35.1
72.5°	4229.8	3792.8	3127.2	1003.1	328.4	112.8	47.6	43.0	38.4	31.3	27.2
75°	2419.5	2133.3	1757.7	662.6	279.9	107.8	36.8	35.9	27.6	22.6	18.8
77.5°	1250.0	1212.0	1053.3	254.4	134.1	47.2	24.2	20.9	16.3	13.8	11.3
80°	539.4	533.5	461.7	73.5	35.5	26.3	13.8	8.8	7.5	5.8	4.6
82.5°	186.3	186.3	164.2	24.7	15.9	13.0	1.7	0.0	0.0	0.0	0.0
85°	37.6	42.2	29.7	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8
2.5°	2505.5	2455.0	2451.6	2419.9	2380.2	2362.2	2351.8	2370.2	2392.7	2395.2	2429.1
5°	1944.8	1891.8	1913.9	1857.5	1868.8	1857.5	1839.1	1842.5	1852.5	1821.2	1860.0
7.5°	1365.8	1325.7	1351.2	1336.1	1356.2	1364.1	1352.8	1336.1	1286.8	1281.0	1314.8
10°	1029.5	983.9	956.8	928.3	934.6	947.6	943.4	931.3	899.9	901.6	934.2
12.5°	827.2	776.3	722.4	652.6	635.5	645.1	635.5	628.4	598.3	600.8	629.6
15°	627.5	585.8	529.3	473.4	442.9	445.8	419.1	400.2	381.4	358.9	376.4
17.5°	423.6	398.2	381.4	364.7	328.4	320.0	286.2	249.8	235.6	225.2	232.7
20°	300.0	286.2	279.5	278.7	257.8	247.3	214.3	191.8	184.7	182.6	187.2
22.5°	250.7	240.7	231.0	225.6	215.2	203.0	178.0	166.7	161.7	159.2	162.5
25°	218.1	210.6	200.5	191.4	187.2	174.2	156.3	147.9	144.6	142.1	143.7
27.5°	193.9	187.2	175.5	169.6	166.3	155.0	139.5	132.9	129.9	129.1	128.7
30°	174.6	168.4	157.5	150.8	145.0	134.9	125.8	119.1	116.1	115.3	114.5
32.5°	155.4	150.4	143.3	136.6	130.4	121.2	113.2	107.8	103.2	102.4	101.9
35°	131.2	126.2	122.4	122.0	116.1	107.4	101.5	94.4	90.7	89.4	89.8
37.5°	116.6	109.9	101.5	104.4	102.8	96.5	88.6	81.5	77.7	76.9	76.9
40°	107.4	100.3	90.7	85.6	90.7	89.4	76.9	69.8	66.0	65.6	64.8
42.5°	98.6	91.5	80.6	72.3	74.8	78.5	66.4	59.7	56.0	55.1	53.9
45°	92.3	84.8	72.7	63.1	58.1	66.0	56.8	48.5	46.4	44.7	43.9
47.5°	86.5	79.4	65.6	54.7	46.4	47.6	45.5	39.7	37.2	35.5	35.1
50°	81.5	74.0	59.3	46.8	38.4	35.1	36.8	31.3	29.2	27.6	26.7
52.5°	75.6	68.5	52.6	40.5	32.2	27.6	28.0	24.7	22.6	21.3	20.9
55°	71.0	63.9	47.2	35.5	28.4	22.6	20.1	19.2	18.0	17.1	16.7
57.5°	64.8	58.1	41.8	30.1	24.2	18.4	15.5	15.5	15.0	14.2	13.8
59°	61.0	55.1	38.4	27.2	22.1	15.9	13.8	14.2	13.8	13.0	12.5
60°	58.1	52.6	35.9	25.1	20.9	14.6	12.5	13.4	13.0	12.1	11.7
62.5°	51.4	47.6	30.9	20.9	18.4	11.7	10.4	11.3	11.3	10.9	10.4
65°	45.1	40.9	26.3	17.5	17.1	10.0	8.4	10.0	10.4	9.6	8.8
67.5°	39.3	35.1	23.0	14.2	15.9	7.9	6.3	8.4	11.3	8.8	7.9
70°	33.4	29.2	18.0	11.3	16.7	5.4	5.0	7.5	13.4	9.6	7.5
72.5°	25.9	22.6	12.5	8.4	18.0	3.8	3.8	6.3	15.0	10.4	7.1
75°	18.0	14.6	7.5	5.0	14.6	2.5	2.5	5.8	14.2	9.6	6.7
77.5°	10.4	7.9	2.5	0.4	7.5	0.0	0.4	4.2	10.0	5.8	2.9
80°	3.8	1.7	0.0	0.0	4.6	0.0	0.0	0.0	0.8	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8
2.5°	2437.8	2494.2	2544.8	2621.3	2711.9	2816.4	2906.2	3002.7	3093.4	3131.0	3156.9
5°	1868.0	1937.7	2019.2	2131.6	2281.2	2465.4	2638.0	2833.1	3042.8	3147.7	3246.3
7.5°	1320.7	1391.7	1492.8	1612.3	1793.2	2012.5	2238.1	2507.6	2791.7	2957.6	3120.9
10°	949.7	1037.0	1131.4	1294.8	1478.6	1686.6	1918.9	2219.8	2536.4	2720.3	2917.1
12.5°	646.3	745.8	888.7	1071.6	1287.7	1491.5	1693.3	1980.4	2348.0	2530.2	2741.2
15°	387.7	442.9	594.1	805.9	1070.8	1324.8	1545.8	1833.7	2225.6	2448.7	2668.1
17.5°	239.0	264.5	346.8	520.6	798.8	1120.1	1423.0	1784.0	2243.2	2514.7	2749.5
20°	190.5	200.5	226.9	307.5	529.3	894.5	1284.7	1774.0	2386.5	2720.7	2972.6
22.5°	165.4	175.1	192.6	223.5	333.0	669.7	1153.5	1783.2	2592.0	3029.4	3323.6
25°	145.8	154.2	170.9	196.4	244.0	471.7	1013.2	1824.1	2859.8	3412.6	3725.1
27.5°	130.4	137.5	152.9	176.3	209.3	329.2	854.0	1873.8	3177.3	3804.5	4112.8
30°	116.1	122.4	136.2	157.9	181.7	253.2	679.3	1907.7	3495.3	4112.8	4389.8
32.5°	104.0	108.6	121.2	139.5	157.9	201.8	516.4	1902.2	3731.3	4369.3	4589.1
35°	91.5	96.1	107.0	122.8	137.5	166.7	406.1	1800.7	3936.9	4635.5	4817.2
37.5°	77.7	83.6	94.0	108.2	118.2	146.6	328.4	1678.3	4145.4	4939.6	5071.6
40°	66.0	71.9	81.1	96.5	102.8	139.1	252.3	1529.1	4379.8	5279.7	5350.7
42.5°	54.7	60.2	69.8	83.1	96.9	119.9	186.8	1358.7	4605.0	5570.5	5605.2
45°	44.3	49.7	59.7	73.1	103.6	99.4	144.6	1176.1	4786.7	5812.4	5823.7
47.5°	35.1	40.1	50.6	68.9	96.5	79.4	103.2	1032.8	4939.2	6001.2	5971.6
50°	27.2	31.3	42.2	79.0	84.4	65.6	78.1	985.2	5075.8	6118.2	6041.3
52.5°	21.3	25.1	34.7	74.0	65.6	54.3	65.6	1029.9	5263.0	6215.1	6080.6
55°	17.1	20.9	27.2	42.2	44.7	46.0	56.0	1071.6	5585.9	6442.4	6312.5
57.5°	14.2	18.0	22.1	29.7	33.8	38.9	49.7	1076.2	5966.6	6820.1	6697.3
59°	13.0	16.3	20.1	26.3	29.7	35.5	46.8	1051.2	6100.7	6957.6	6896.2
60°	12.1	15.5	18.8	24.2	27.6	33.4	45.1	1027.4	6106.5	6952.6	6981.0
62.5°	10.4	13.8	16.7	20.5	23.4	28.4	40.5	939.2	5859.2	6724.9	6930.0
65°	9.2	12.1	15.0	17.5	20.1	25.5	36.8	778.4	5436.8	6357.6	6581.1
67.5°	8.4	10.4	13.8	15.5	18.0	22.6	32.6	554.8	4909.1	5908.5	6053.5
70°	7.5	10.0	12.5	14.2	16.3	19.6	28.0	318.8	4145.4	5250.9	5354.1
72.5°	7.1	9.6	11.3	13.4	14.6	17.5	25.5	150.0	3035.3	4206.4	4475.9
75°	6.3	8.8	10.4	12.5	13.8	15.9	21.7	71.9	2018.8	3044.1	3350.3
77.5°	3.8	7.1	9.6	11.3	12.1	13.8	18.0	41.4	1288.5	2107.0	2481.7
80°	0.0	2.5	7.1	9.6	10.4	11.7	13.8	32.6	689.4	1203.7	1444.7
82.5°	0.0	0.0	5.0	7.5	7.1	7.9	10.4	20.5	310.8	786.7	886.6
85°	0.0	0.0	1.7	5.8	5.0	3.8	7.1	7.1	68.1	398.2	496.8
87.5°	0.0	0.0	0.0	0.4	2.5	1.7	2.9	0.8	0.4	29.7	120.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8	2872.8
2.5°	3247.5	3278.5	3330.7	3355.3	3343.2	3291.8	3230.4	3167.7	3131.0	3145.6
5°	3447.2	3606.4	3698.3	3728.8	3677.9	3562.6	3411.7	3212.9	3142.3	3123.0
7.5°	3447.2	3746.8	3936.5	3969.9	3856.3	3630.2	3347.4	3037.0	2933.8	2896.2
10°	3326.1	3733.9	3998.3	4051.4	3892.6	3554.6	3175.7	2821.4	2699.0	2660.1
12.5°	3189.5	3628.6	3907.2	3980.4	3850.0	3479.4	3056.6	2675.6	2531.4	2497.6
15°	3105.5	3499.1	3729.7	3782.7	3727.6	3435.5	3028.2	2631.7	2462.1	2429.5
17.5°	3135.6	3398.8	3481.9	3512.8	3550.0	3420.1	3105.5	2727.8	2513.0	2482.1
20°	3248.8	3293.1	3250.0	3288.9	3389.2	3435.1	3289.7	2960.1	2702.3	2660.9
22.5°	3441.0	3238.3	3117.6	3133.1	3255.1	3484.8	3571.3	3291.8	2994.4	2942.5
25°	3664.9	3282.6	3044.1	3030.3	3155.6	3550.4	3828.7	3652.8	3339.9	3282.6
27.5°	3946.5	3382.1	3029.0	3015.2	3120.9	3611.9	4042.6	4009.6	3703.8	3606.0
30°	4163.8	3479.8	3073.7	3042.0	3155.6	3654.5	4214.3	4312.5	3993.7	3929.0
32.5°	4319.6	3595.1	3146.4	3100.5	3253.4	3728.0	4346.8	4589.9	4261.9	4163.8
35°	4438.3	3720.5	3263.8	3188.2	3387.9	3839.6	4470.8	4885.3	4547.3	4439.9
37.5°	4549.4	3896.4	3447.2	3357.0	3598.9	4019.2	4602.0	5220.4	4866.5	4738.2
40°	4704.4	4095.7	3730.1	3649.9	3953.6	4264.0	4765.8	5569.7	5229.6	5068.3
42.5°	4859.4	4309.6	4019.6	4041.4	4396.1	4561.5	4977.2	5939.0	5588.0	5415.9
45°	5001.0	4530.2	4432.0	4532.3	4806.8	4887.8	5187.4	6152.5	5874.2	5707.9
47.5°	5127.2	4805.9	4841.9	5108.8	5273.9	5183.2	5344.5	6336.7	6087.3	5940.7
50°	5273.9	5162.7	5382.1	5759.8	5811.6	5450.6	5487.3	6554.8	6336.3	6218.5
52.5°	5434.3	5538.7	5980.3	6313.3	6296.6	5741.0	5631.1	6799.2	6677.7	6566.9
55°	5616.4	5842.5	6507.2	6831.4	6817.2	6065.2	5869.2	7101.3	7105.5	7005.2
57.5°	5886.8	6104.0	6864.8	7250.5	7274.3	6439.5	6272.8	7439.7	7492.4	7425.5
59°	6080.6	6273.6	7006.5	7425.5	7522.4	6729.0	6567.8	7636.1	7601.4	7540.4
60°	6224.3	6381.4	7076.6	7517.0	7666.6	6925.4	6785.4	7751.4	7614.4	7540.4
62.5°	6579.9	6616.2	7203.2	7620.6	7832.4	7361.6	7397.9	7947.8	7524.5	7403.8
65°	6745.8	6764.6	7201.6	7435.1	7672.0	7701.3	7953.6	7953.6	7305.2	7119.7
67.5°	6676.4	6585.7	6844.4	6820.1	7056.6	7499.5	8162.5	7662.0	6885.7	6645.9
70°	6112.4	5763.5	5648.6	5659.1	5840.0	6523.1	7748.9	6803.8	6091.9	5811.6
72.5°	5085.8	4249.0	3965.3	4289.1	4336.3	5013.1	6603.7	5123.9	4492.6	4229.8
75°	4090.7	2995.2	2533.9	2875.7	2955.9	3668.7	5108.4	3191.1	2624.2	2419.5
77.5°	2938.8	2150.0	1818.3	1794.4	1898.1	2326.7	3624.8	1606.0	1339.5	1250.0
80°	1669.5	1415.1	1523.7	1437.6	1489.9	1454.8	1722.2	704.4	577.0	539.4
82.5°	1007.7	836.4	905.8	754.1	954.2	831.0	663.5	225.6	195.9	186.3
85°	655.5	457.1	238.1	159.6	328.8	531.0	148.3	61.4	47.2	37.6
87.5°	226.0	116.6	11.7	5.0	35.1	99.0	5.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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