

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: P324396

Luminaire Tested: **GAN-SA2B-727-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324396
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-SA2B-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 7249 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

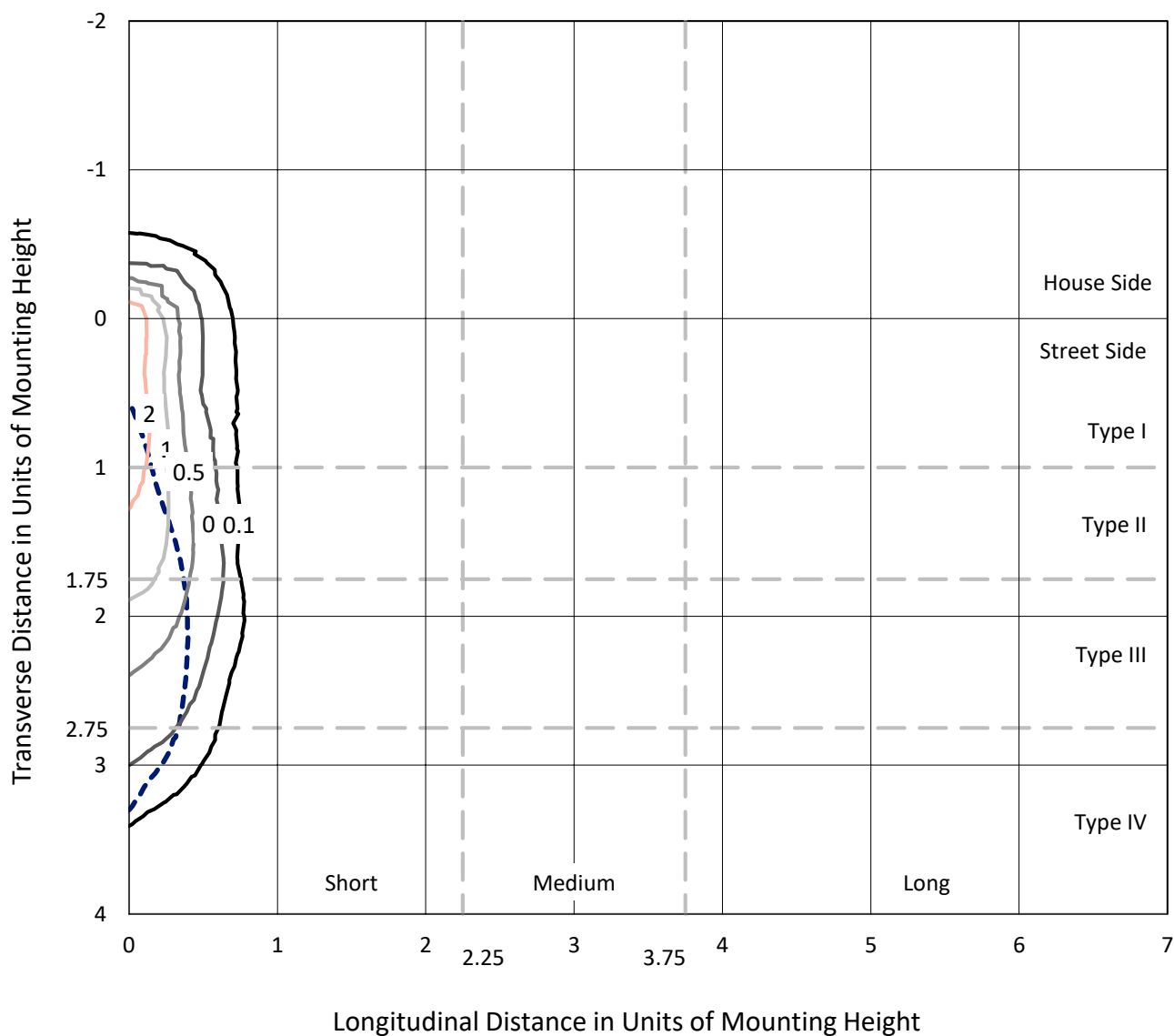
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

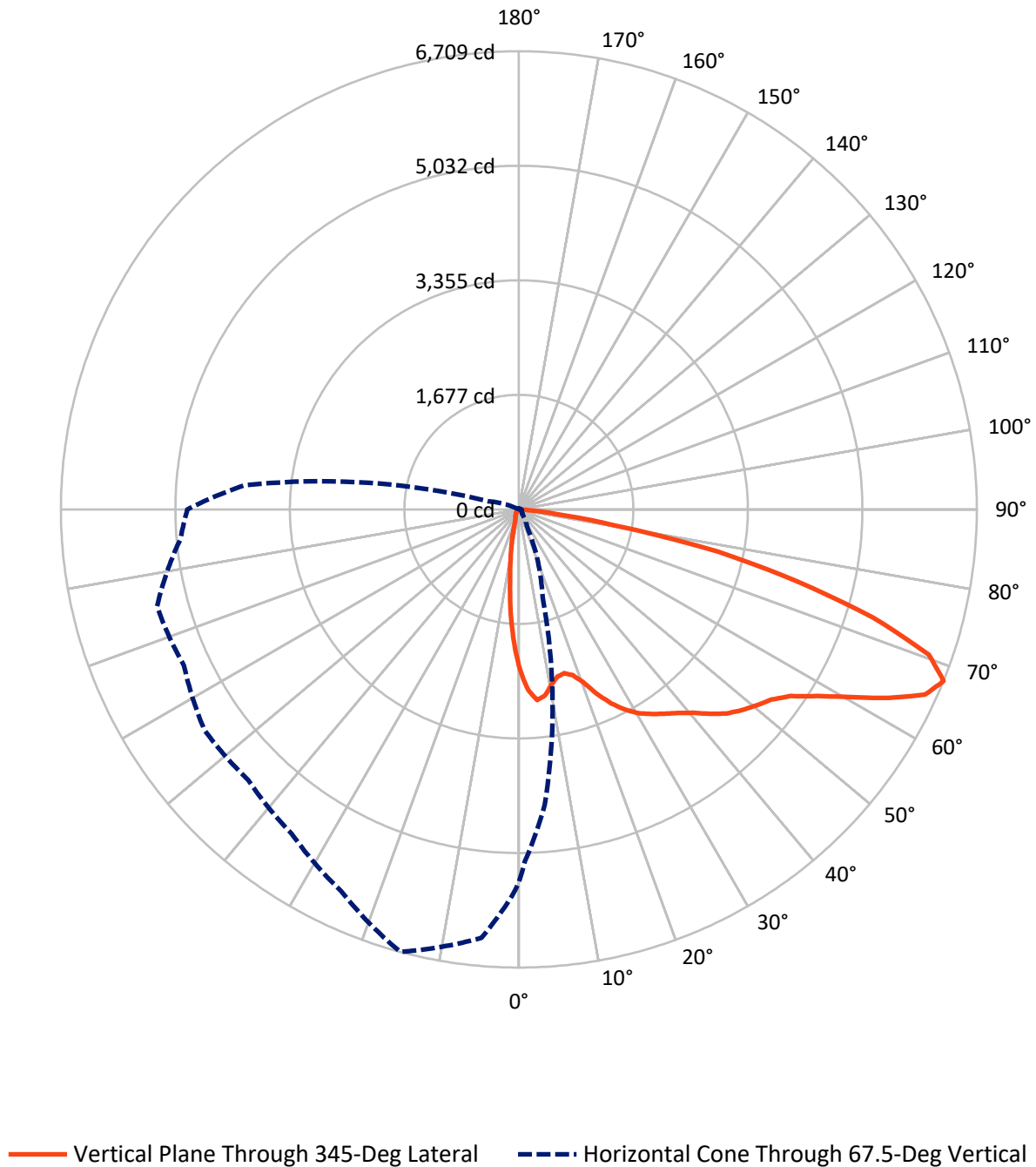
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	877.4	0.0	877.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	6371.6	0.0	6371.6
	% Fixture	87.9	0.0	87.9
Total	Lumens	7249.0	0.0	7249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	2.5
10°-20°	360.7	5.0
20°-30°	512.2	7.1
30°-40°	756.6	10.4
40°-50°	1091.2	15.1
50°-60°	1531.8	21.1
60°-70°	1785.7	24.6
70°-80°	912.9	12.6
80°-90°	116.6	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°	7249.0	100.0
0°-180°	7249.0	100.0

Coefficient of Utilization



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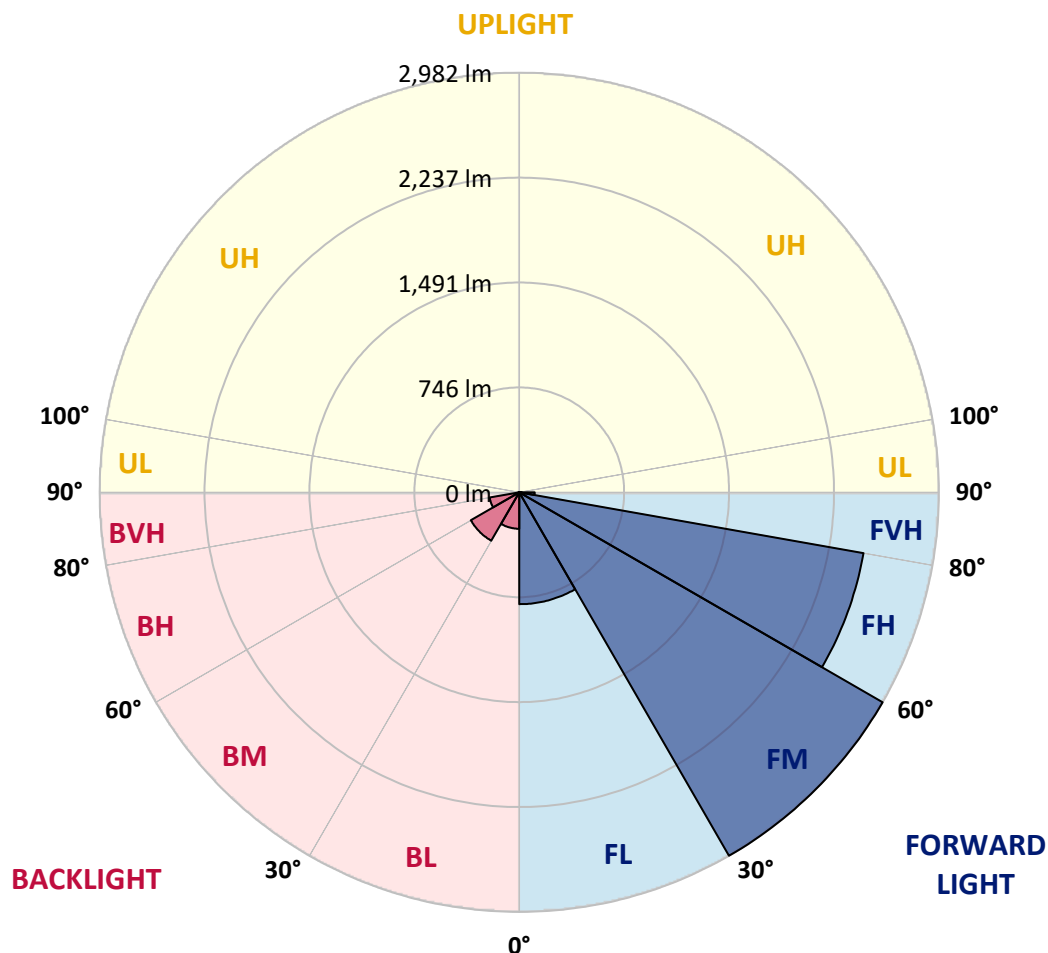
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.1	11.0			
FM	(30°-60°)	2982.4	41.1			
FH	(60°-80°)	2484.7	34.3			G2/5000
FVH	(80°-90°)	109.5	1.5			G2/225
BL	(0°-30°)	259.1	3.6	B1/500		
BM	(30°-60°)	397.3	5.5	B1/1000		
BH	(60°-80°)	213.8	2.9	B1/500		G1/500
BVH	(80°-90°)	7.1	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°	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3
2.5°	2585.6	2565.7	2543.7	2471.9	2405.3	2329.1	2266.9	2223.6	2169.4	2099.0	2081.1
5°	2567.1	2545.8	2476.7	2317.0	2177.3	2041.3	1910.1	1833.2	1737.7	1640.9	1616.8
7.5°	2380.6	2358.3	2258.7	2039.9	1851.7	1655.3	1484.9	1379.5	1271.7	1183.1	1136.0
10°	2186.5	2162.2	2050.2	1784.7	1552.9	1375.4	1250.4	1149.8	1047.8	953.0	877.4
12.5°	2053.0	2021.0	1899.4	1598.6	1396.7	1276.1	1159.4	1038.8	900.8	799.1	716.0
15°	1997.0	1960.6	1832.1	1526.8	1341.4	1199.9	1047.8	899.8	738.0	621.6	545.3
17.5°	2040.3	1992.9	1855.1	1522.0	1272.0	1079.4	887.1	713.3	537.8	420.0	365.7
20°	2187.2	2125.1	1950.3	1520.7	1187.9	936.2	692.3	495.9	354.4	285.0	256.5
22.5°	2418.7	2336.6	2087.0	1531.6	1101.0	785.7	500.0	336.9	266.1	230.1	213.3
25°	2698.2	2603.1	2283.7	1570.5	1024.8	639.4	363.3	266.1	224.6	198.2	184.1
27.5°	2964.0	2886.8	2532.4	1626.4	965.7	521.3	295.0	225.6	192.0	174.5	163.1
30°	3229.5	3132.3	2787.5	1693.1	894.6	441.3	259.3	205.7	172.1	153.5	146.3
32.5°	3422.5	3341.8	2987.4	1741.1	818.7	389.1	231.8	188.2	160.7	141.8	131.2
35°	3649.5	3558.2	3158.8	1751.8	769.9	356.1	208.5	169.3	139.4	122.6	111.3
37.5°	3894.7	3781.0	3356.6	1728.4	731.8	340.0	190.9	160.7	130.2	113.0	101.0
40°	4166.0	4037.6	3546.5	1694.8	694.4	334.5	177.5	154.2	122.9	105.4	93.1
42.5°	4451.7	4300.3	3711.0	1659.4	670.7	315.6	176.2	147.7	117.4	98.6	86.2
45°	4691.8	4538.3	3879.9	1647.7	653.9	295.0	182.0	143.2	113.7	93.1	81.0
47.5°	4883.1	4737.8	4053.0	1673.8	644.3	276.1	165.9	149.0	111.6	88.3	76.6
50°	5111.4	4946.9	4296.9	1751.8	630.2	257.2	150.1	170.7	111.6	85.2	72.8
52.5°	5397.9	5235.1	4568.8	1872.7	602.0	231.1	135.0	171.0	112.6	81.0	68.0
55°	5758.1	5640.0	4957.3	2005.2	557.0	192.7	116.8	147.0	108.5	73.5	63.5
57.5°	6103.6	6007.1	5311.3	2095.9	496.9	150.4	101.7	118.5	99.2	64.6	56.7
59°	6198.0	6092.6	5441.1	2100.0	451.9	131.2	94.1	97.9	97.2	60.4	52.5
60°	6198.0	6086.1	5478.6	2078.0	419.3	120.5	89.3	87.2	101.3	57.7	50.1
62.5°	6085.7	5928.4	5357.0	1929.3	342.0	102.7	78.0	72.1	91.0	51.9	44.3
65°	5852.2	5623.1	4942.8	1660.4	305.0	94.1	67.3	59.1	63.2	45.7	38.8
67.5°	5462.8	5152.3	4345.6	1341.4	290.2	91.7	58.0	50.1	47.7	39.1	34.0
70°	4777.0	4432.5	3620.7	1054.6	277.5	90.7	48.8	42.2	38.5	33.0	28.8
72.5°	3476.8	3117.6	2570.5	824.5	269.9	92.7	39.1	35.4	31.6	25.8	22.3
75°	1988.7	1753.5	1444.8	544.7	230.1	88.6	30.2	29.5	22.7	18.5	15.5
77.5°	1027.5	996.3	865.8	209.1	110.2	38.8	19.9	17.2	13.4	11.3	9.3
80°	443.4	438.5	379.5	60.4	29.2	21.6	11.3	7.2	6.2	4.8	3.8
82.5°	153.2	153.2	135.0	20.3	13.0	10.6	1.4	0.0	0.0	0.0	0.0
85°	30.9	34.7	24.4	0.0	4.5	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°	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3
2.5°	2059.5	2017.9	2015.2	1989.1	1956.5	1941.7	1933.1	1948.2	1966.8	1968.8	1996.6
5°	1598.6	1555.0	1573.2	1526.8	1536.1	1526.8	1511.7	1514.5	1522.7	1497.0	1528.9
7.5°	1122.6	1089.7	1110.6	1098.3	1114.7	1121.3	1112.0	1098.3	1057.7	1052.9	1080.7
10°	846.2	808.8	786.4	763.1	768.2	778.9	775.4	765.5	739.7	741.1	767.9
12.5°	680.0	638.1	593.8	536.4	522.3	530.2	522.3	516.5	491.8	493.8	517.5
15°	515.8	481.5	435.1	389.1	364.0	366.4	344.4	329.0	313.5	295.0	309.4
17.5°	348.2	327.3	313.5	299.8	269.9	263.1	235.2	205.4	193.7	185.1	191.3
20°	246.6	235.2	229.7	229.1	211.9	203.3	176.2	157.6	151.8	150.1	153.9
22.5°	206.1	197.8	189.9	185.4	176.9	166.9	146.3	137.0	132.9	130.8	133.6
25°	179.3	173.1	164.8	157.3	153.9	143.2	128.4	121.6	118.8	116.8	118.1
27.5°	159.3	153.9	144.2	139.4	136.7	127.4	114.7	109.2	106.8	106.1	105.8
30°	143.5	138.4	129.5	124.0	119.2	110.9	103.4	97.9	95.5	94.8	94.1
32.5°	127.8	123.6	117.8	112.3	107.1	99.6	93.1	88.6	84.8	84.1	83.8
35°	107.8	103.7	100.6	100.3	95.5	88.3	83.5	77.6	74.5	73.5	73.8
37.5°	95.8	90.3	83.5	85.9	84.5	79.3	72.8	67.0	63.9	63.2	63.2
40°	88.3	82.4	74.5	70.4	74.5	73.5	63.2	57.4	54.3	53.9	53.2
42.5°	81.0	75.2	66.3	59.4	61.5	64.6	54.6	49.1	46.0	45.3	44.3
45°	75.9	69.7	59.8	51.9	47.7	54.3	46.7	39.8	38.1	36.7	36.1
47.5°	71.1	65.2	53.9	45.0	38.1	39.1	37.4	32.6	30.6	29.2	28.8
50°	67.0	60.8	48.8	38.5	31.6	28.8	30.2	25.8	24.0	22.7	22.0
52.5°	62.2	56.3	43.3	33.3	26.4	22.7	23.0	20.3	18.5	17.5	17.2
55°	58.4	52.5	38.8	29.2	23.4	18.5	16.5	15.8	14.8	14.1	13.7
57.5°	53.2	47.7	34.3	24.7	19.9	15.1	12.7	12.7	12.4	11.7	11.3
59°	50.1	45.3	31.6	22.3	18.2	13.0	11.3	11.7	11.3	10.6	10.3
60°	47.7	43.3	29.5	20.6	17.2	12.0	10.3	11.0	10.6	10.0	9.6
62.5°	42.2	39.1	25.4	17.2	15.1	9.6	8.6	9.3	9.3	8.9	8.6
65°	37.1	33.7	21.6	14.4	14.1	8.2	6.9	8.2	8.6	7.9	7.2
67.5°	32.3	28.8	18.9	11.7	13.0	6.5	5.2	6.9	9.3	7.2	6.5
70°	27.5	24.0	14.8	9.3	13.7	4.5	4.1	6.2	11.0	7.9	6.2
72.5°	21.3	18.5	10.3	6.9	14.8	3.1	3.1	5.2	12.4	8.6	5.8
75°	14.8	12.0	6.2	4.1	12.0	2.1	2.1	4.8	11.7	7.9	5.5
77.5°	8.6	6.5	2.1	0.3	6.2	0.0	0.3	3.4	8.2	4.8	2.4
80°	3.1	1.4	0.0	0.0	3.8	0.0	0.0	0.0	0.7	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°	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3
2.5°	2003.8	2050.2	2091.8	2154.6	2229.1	2315.0	2388.8	2468.2	2542.7	2573.6	2594.9
5°	1535.4	1592.8	1659.7	1752.1	1875.1	2026.5	2168.3	2328.7	2501.1	2587.3	2668.4
7.5°	1085.5	1143.9	1227.0	1325.3	1474.0	1654.2	1839.7	2061.2	2294.7	2431.1	2565.3
10°	780.6	852.4	930.0	1064.3	1215.4	1386.4	1577.3	1824.6	2084.9	2236.0	2397.8
12.5°	531.3	613.0	730.5	880.9	1058.4	1226.0	1391.9	1627.8	1930.0	2079.7	2253.2
15°	318.7	364.0	488.3	662.5	880.2	1089.0	1270.6	1507.3	1829.4	2012.8	2193.1
17.5°	196.4	217.4	285.0	427.9	656.6	920.7	1169.7	1466.4	1843.8	2067.0	2260.0
20°	156.6	164.8	186.5	252.8	435.1	735.3	1056.0	1458.2	1961.6	2236.3	2443.4
22.5°	136.0	143.9	158.3	183.7	273.7	550.5	948.2	1465.7	2130.6	2490.1	2731.9
25°	119.9	126.7	140.5	161.4	200.6	387.7	832.8	1499.4	2350.7	2805.0	3061.9
27.5°	107.1	113.0	125.7	144.9	172.1	270.6	701.9	1540.2	2611.7	3127.2	3380.6
30°	95.5	100.6	112.0	129.8	149.4	208.1	558.4	1568.1	2873.0	3380.6	3608.3
32.5°	85.5	89.3	99.6	114.7	129.8	165.9	424.5	1563.6	3067.1	3591.5	3772.1
35°	75.2	79.0	87.9	101.0	113.0	137.0	333.8	1480.1	3236.0	3810.2	3959.6
37.5°	63.9	68.7	77.3	88.9	97.2	120.5	269.9	1379.5	3407.4	4060.2	4168.8
40°	54.3	59.1	66.6	79.3	84.5	114.4	207.4	1256.9	3600.1	4339.8	4398.2
42.5°	45.0	49.5	57.4	68.3	79.7	98.6	153.5	1116.8	3785.2	4578.8	4607.3
45°	36.4	40.9	49.1	60.1	85.2	81.7	118.8	966.7	3934.6	4777.6	4786.9
47.5°	28.8	33.0	41.6	56.7	79.3	65.2	84.8	848.9	4059.9	4932.9	4908.5
50°	22.3	25.8	34.7	64.9	69.4	53.9	64.2	809.8	4172.2	5029.0	4965.8
52.5°	17.5	20.6	28.5	60.8	53.9	44.6	53.9	846.5	4326.0	5108.7	4998.1
55°	14.1	17.2	22.3	34.7	36.7	37.8	46.0	880.9	4591.5	5295.5	5188.7
57.5°	11.7	14.8	18.2	24.4	27.8	31.9	40.9	884.6	4904.4	5606.0	5505.0
59°	10.6	13.4	16.5	21.6	24.4	29.2	38.5	864.0	5014.6	5719.0	5668.5
60°	10.0	12.7	15.5	19.9	22.7	27.5	37.1	844.5	5019.4	5714.8	5738.2
62.5°	8.6	11.3	13.7	16.8	19.2	23.4	33.3	772.0	4816.1	5527.7	5696.3
65°	7.6	10.0	12.4	14.4	16.5	20.9	30.2	639.8	4468.9	5225.8	5409.5
67.5°	6.9	8.6	11.3	12.7	14.8	18.5	26.8	456.1	4035.2	4856.6	4975.8
70°	6.2	8.2	10.3	11.7	13.4	16.1	23.0	262.0	3407.4	4316.1	4400.9
72.5°	5.8	7.9	9.3	11.0	12.0	14.4	20.9	123.3	2494.9	3457.5	3679.0
75°	5.2	7.2	8.6	10.3	11.3	13.0	17.9	59.1	1659.4	2502.2	2753.9
77.5°	3.1	5.8	7.9	9.3	10.0	11.3	14.8	34.0	1059.1	1731.9	2039.9
80°	0.0	2.1	5.8	7.9	8.6	9.6	11.3	26.8	566.6	989.4	1187.5
82.5°	0.0	0.0	4.1	6.2	5.8	6.5	8.6	16.8	255.5	646.7	728.7
85°	0.0	0.0	1.4	4.8	4.1	3.1	5.8	5.8	56.0	327.3	408.3
87.5°	0.0	0.0	0.0	0.3	2.1	1.4	2.4	0.7	0.3	24.4	98.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3	2361.3
2.5°	2669.4	2694.8	2737.7	2758.0	2748.0	2705.8	2655.3	2603.8	2573.6	2585.6
5°	2833.5	2964.4	3039.9	3065.0	3023.1	2928.3	2804.4	2640.9	2582.9	2567.1
7.5°	2833.5	3079.8	3235.7	3263.2	3169.8	2984.0	2751.5	2496.3	2411.5	2380.6
10°	2734.0	3069.1	3286.5	3330.1	3199.6	2921.8	2610.3	2319.1	2218.5	2186.5
12.5°	2621.7	2982.6	3211.7	3271.8	3164.6	2860.0	2512.5	2199.3	2080.8	2053.0
15°	2552.6	2876.1	3065.7	3109.3	3064.0	2823.9	2489.1	2163.2	2023.8	1997.0
17.5°	2577.4	2793.7	2862.1	2887.5	2918.0	2811.2	2552.6	2242.2	2065.7	2040.3
20°	2670.4	2706.8	2671.5	2703.4	2785.8	2823.6	2704.1	2433.1	2221.2	2187.2
22.5°	2828.4	2661.8	2562.6	2575.3	2675.6	2864.5	2935.5	2705.8	2461.3	2418.7
25°	3012.5	2698.2	2502.2	2490.8	2593.8	2918.4	3147.1	3002.5	2745.3	2698.2
27.5°	3243.9	2780.0	2489.8	2478.5	2565.3	2968.9	3322.9	3295.8	3044.4	2964.0
30°	3422.5	2860.3	2526.5	2500.4	2593.8	3003.9	3464.1	3544.8	3282.7	3229.5
32.5°	3550.6	2955.1	2586.3	2548.5	2674.2	3064.3	3572.9	3772.8	3503.2	3422.5
35°	3648.1	3058.1	2682.8	2620.6	2784.8	3156.0	3674.9	4015.6	3737.8	3649.5
37.5°	3739.5	3202.7	2833.5	2759.4	2958.2	3303.7	3782.8	4291.0	4000.1	3894.7
40°	3866.9	3366.5	3066.0	3000.1	3249.8	3504.9	3917.4	4578.1	4298.6	4166.0
42.5°	3994.3	3542.4	3304.0	3321.9	3613.5	3749.4	4091.1	4881.7	4593.2	4451.7
45°	4110.7	3723.7	3643.0	3725.4	3951.0	4017.7	4263.9	5057.2	4828.5	4691.8
47.5°	4214.4	3950.3	3979.9	4199.3	4335.0	4260.5	4393.0	5208.6	5003.6	4883.1
50°	4335.0	4243.6	4423.9	4734.4	4777.0	4480.2	4510.5	5387.9	5208.3	5111.4
52.5°	4466.8	4552.7	4915.7	5189.4	5175.7	4718.9	4628.6	5588.8	5488.9	5397.9
55°	4616.6	4802.4	5348.7	5615.2	5603.6	4985.4	4824.3	5837.1	5840.5	5758.1
57.5°	4838.8	5017.4	5642.7	5959.7	5979.3	5293.1	5156.1	6115.3	6158.5	6103.6
59°	4998.1	5156.8	5759.1	6103.6	6183.3	5531.1	5398.5	6276.7	6248.2	6198.0
60°	5116.3	5245.4	5816.8	6178.8	6301.7	5692.5	5577.5	6371.5	6258.8	6198.0
62.5°	5408.5	5438.4	5920.9	6264.0	6438.1	6051.0	6080.9	6532.9	6185.0	6085.7
65°	5544.8	5560.3	5919.5	6111.5	6306.2	6330.2	6537.7	6537.7	6004.7	5852.2
67.5°	5487.8	5413.3	5625.9	5606.0	5800.3	6164.4	6709.4	6298.0	5659.9	5462.8
70°	5024.2	4737.5	4643.0	4651.6	4800.3	5361.8	6369.4	5592.6	5007.4	4777.0
72.5°	4180.4	3492.6	3259.4	3525.5	3564.3	4120.7	5428.1	4211.7	3692.8	3476.8
75°	3362.4	2462.0	2082.8	2363.8	2429.7	3015.6	4199.0	2623.0	2157.0	1988.7
77.5°	2415.6	1767.2	1494.6	1475.0	1560.2	1912.5	2979.5	1320.1	1101.0	1027.5
80°	1372.3	1163.2	1252.4	1181.7	1224.6	1195.8	1415.6	579.0	474.3	443.4
82.5°	828.3	687.5	744.5	619.9	784.4	683.1	545.3	185.4	161.1	153.2
85°	538.8	375.7	195.7	131.2	270.3	436.5	121.9	50.5	38.8	30.9
87.5°	185.8	95.8	9.6	4.1	28.8	81.4	4.5	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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