

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: P324255

Luminaire Tested: **GAN-SA1D-760-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6023 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

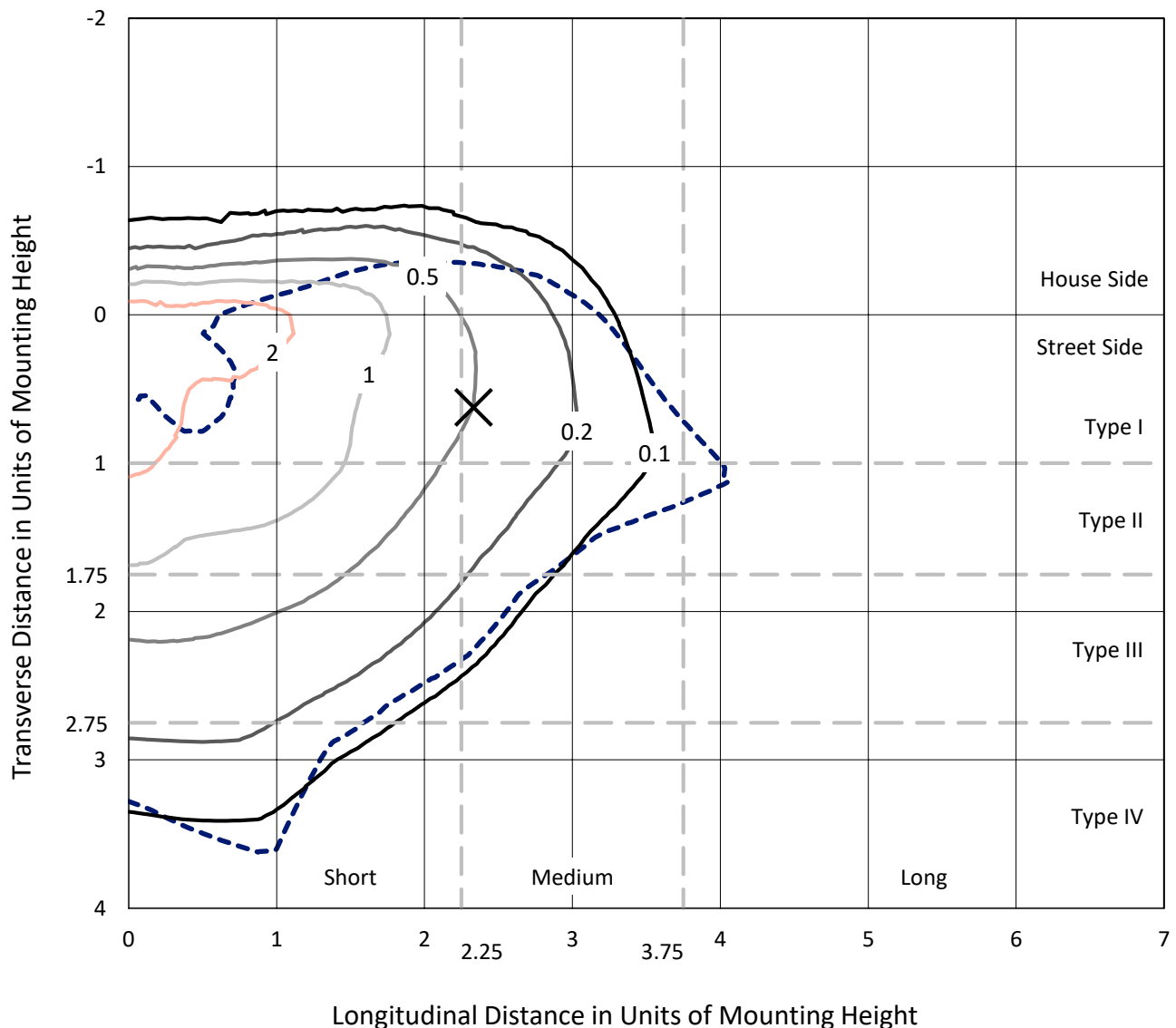
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

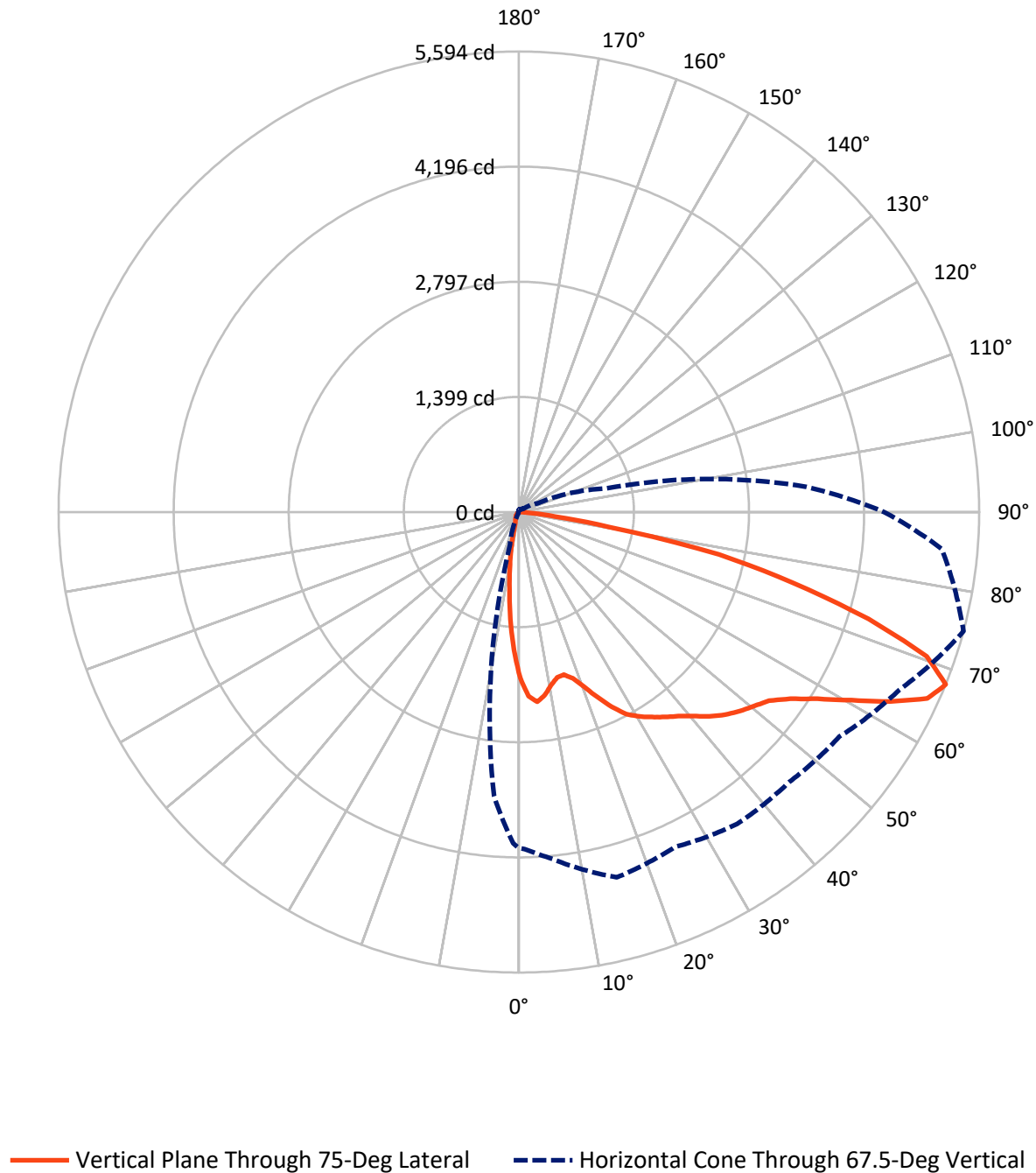
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	903.8	0.0	903.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5119.2	0.0	5119.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	6023.0	0.0	6023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	2.5
10°-20°	301.8	5.0
20°-30°	427.0	7.1
30°-40°	627.7	10.4
40°-50°	902.3	15.0
50°-60°	1270.2	21.1
60°-70°	1483.4	24.6
70°-80°	756.8	12.6
80°-90°	100.5	1.7
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°	6023.0	100.0
0°-180°	6023.0	100.0

Coefficient of Utilization



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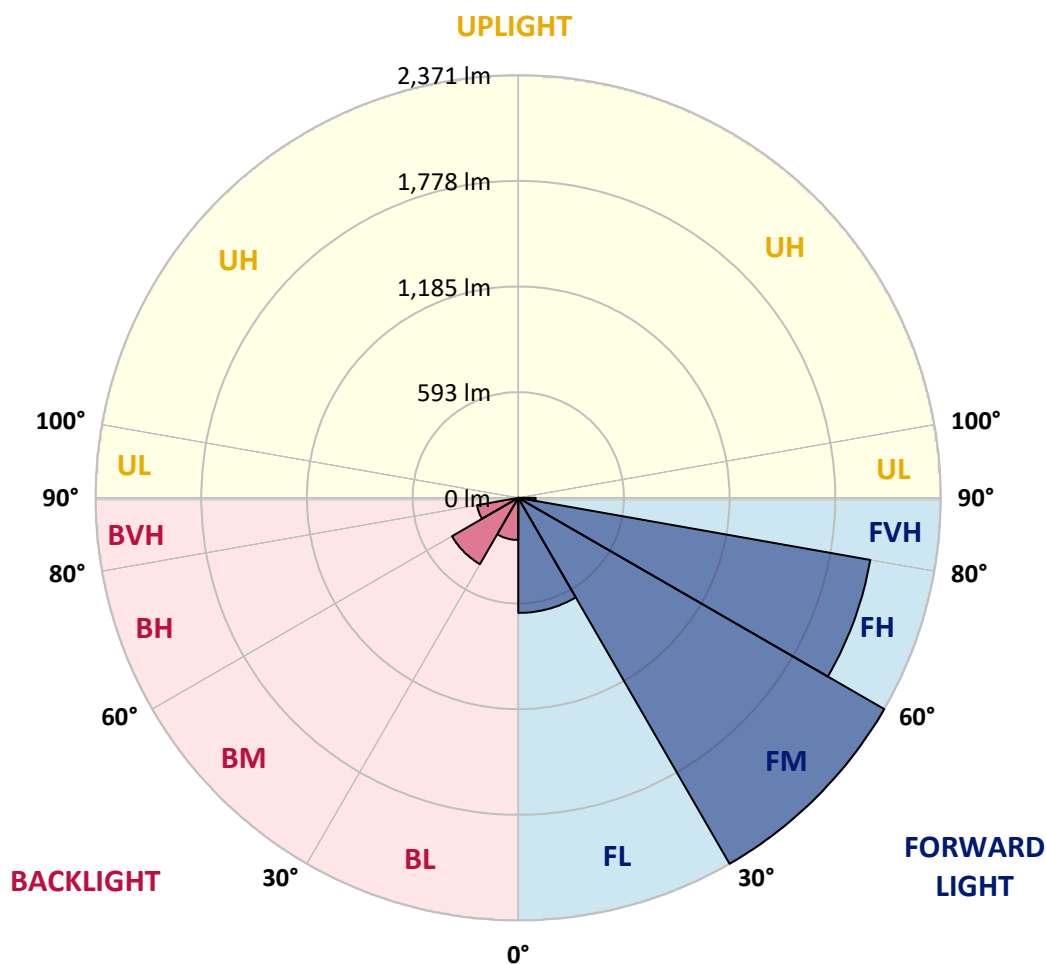
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	645.7	10.7			
FM	(30°-60°)	2370.5	39.4			
FH	(60°-80°)	2005.5	33.3			G2/5000
FVH	(80°-90°)	97.5	1.6			G1/100
BL	(0°-30°)	236.4	3.9	B1/500		
BM	(30°-60°)	429.6	7.1	B1/1000		
BH	(60°-80°)	234.8	3.9	B1/500		G1/500
BVH	(80°-90°)	3.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6
2.5°	2190.4	2193.8	2211.5	2252.6	2297.4	2300.8	2331.0	2299.9	2289.4	2239.2	2187.2
5°	2206.9	2220.0	2280.8	2401.5	2506.2	2539.9	2563.9	2502.8	2438.6	2315.9	2185.0
7.5°	2073.7	2095.7	2191.2	2417.8	2604.9	2687.7	2703.4	2607.8	2450.6	2248.6	2051.7
10°	1903.1	1928.2	2043.4	2321.9	2579.0	2720.8	2742.5	2617.2	2391.2	2139.6	1907.6
12.5°	1765.0	1794.4	1912.2	2214.1	2489.7	2646.6	2689.4	2585.5	2339.9	2062.3	1809.2
15°	1701.3	1735.0	1858.8	2144.4	2390.7	2514.2	2549.6	2504.8	2311.4	2050.0	1786.4
17.5°	1737.9	1774.4	1902.2	2150.4	2297.7	2350.4	2379.0	2397.2	2311.4	2123.9	1853.1
20°	1887.7	1927.0	2062.3	2211.2	2220.6	2200.9	2231.5	2295.7	2338.2	2264.3	2013.5
22.5°	2094.8	2141.0	2293.7	2315.3	2183.0	2108.5	2112.5	2213.2	2387.0	2442.3	2236.0
25°	2347.3	2403.8	2559.0	2470.6	2198.7	2053.4	2052.0	2145.3	2434.6	2620.6	2484.0
27.5°	2598.1	2660.3	2796.7	2660.0	2263.4	2043.4	2040.6	2124.8	2481.1	2779.3	2754.7
30°	2808.4	2868.9	2986.4	2797.2	2333.3	2066.8	2053.1	2146.7	2508.8	2882.3	2952.2
32.5°	2979.6	3028.1	3123.1	2891.7	2408.1	2112.2	2082.5	2205.5	2555.9	2969.3	3133.6
35°	3167.9	3218.9	3256.9	2981.6	2492.0	2177.5	2135.0	2298.8	2628.3	3057.7	3332.5
37.5°	3382.7	3433.5	3428.9	3063.7	2598.4	2285.7	2258.6	2446.6	2741.0	3145.3	3554.5
40°	3593.0	3644.9	3607.8	3153.6	2723.3	2464.0	2444.0	2668.6	2892.0	3257.5	3814.7
42.5°	3789.9	3846.1	3766.8	3238.6	2872.3	2688.8	2723.1	2954.5	3080.9	3395.6	4038.9
45°	3948.5	4005.8	3900.0	3321.4	3029.2	2961.6	3064.6	3271.2	3308.0	3512.2	4190.4
47.5°	4063.8	4118.0	3992.4	3404.1	3230.1	3295.1	3474.6	3603.3	3513.1	3613.5	4298.0
50°	4137.4	4179.6	4019.5	3507.7	3493.7	3684.3	3901.7	3964.5	3706.3	3704.8	4428.7
52.5°	4184.2	4203.3	4039.5	3615.8	3768.7	4108.0	4320.0	4339.7	3905.1	3805.3	4604.7
55°	4345.4	4360.8	4181.0	3746.8	3996.1	4479.2	4698.3	4680.1	4130.2	4001.9	4812.4
57.5°	4620.4	4636.7	4473.5	3935.1	4180.2	4708.6	4972.5	5005.3	4394.2	4278.0	5035.0
60°	4758.5	4788.8	4730.6	4173.6	4358.5	4855.2	5159.4	5264.1	4724.0	4642.1	5250.7
62.5°	4633.3	4677.2	4761.7	4438.1	4535.7	4936.0	5217.6	5356.8	5061.8	5066.4	5383.6
65°	4383.3	4418.4	4561.6	4583.0	4638.4	4926.0	5073.8	5227.3	5268.7	5456.1	5376.5
67.5°	4081.5	4094.6	4216.1	4594.5	4489.5	4625.8	4641.8	4755.4	5105.2	5594.2	5160.5
70°	3646.9	3654.1	3760.2	4212.4	3858.1	3888.0	3864.3	3887.4	4389.0	5257.8	4615.3
72.5°	2935.1	2953.0	3104.0	3498.3	2810.7	2724.2	2910.2	2900.0	3380.1	4442.1	3427.8
75°	2161.0	2192.1	2420.1	2817.8	1972.7	1784.4	1920.2	1956.4	2402.9	3436.1	2143.6
77.5°	1513.0	1536.1	1757.0	2071.4	1427.7	1275.9	1226.9	1269.9	1586.1	2485.7	1079.9
80°	871.6	880.2	1021.1	1196.0	962.1	1100.8	997.2	1026.9	950.4	1105.9	464.5
82.5°	570.3	571.8	626.8	711.9	599.2	696.2	515.3	658.8	584.6	444.2	151.2
85°	308.1	309.9	363.5	505.3	339.2	191.7	112.7	231.4	361.5	101.9	41.4
87.5°	34.0	31.1	109.6	183.7	94.2	17.4	6.0	26.0	57.9	6.6	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°	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6
2.5°	2160.7	2137.0	2078.0	2015.5	1965.3	1918.2	1870.8	1812.9	1768.1	1759.0	1744.1
5°	2114.5	2039.4	1915.6	1791.2	1691.1	1564.7	1484.5	1422.0	1361.0	1357.3	1345.0
7.5°	1953.0	1854.3	1679.9	1507.9	1367.0	1246.5	1125.0	1043.7	979.8	957.2	943.8
10°	1797.8	1686.8	1469.1	1272.8	1147.0	1040.6	955.0	869.9	792.9	739.8	715.9
12.5°	1689.4	1566.7	1326.7	1157.5	1067.4	966.4	861.9	755.8	667.1	603.2	564.1
15°	1647.4	1516.5	1279.1	1111.9	1000.6	872.8	739.3	618.0	519.6	461.6	426.5
17.5°	1697.3	1545.0	1275.4	1056.2	900.7	741.8	594.3	451.1	358.4	314.4	291.9
20°	1824.0	1635.7	1273.9	988.1	782.1	586.6	402.6	296.7	240.5	216.0	205.4
22.5°	2003.2	1751.6	1285.4	920.7	658.5	419.1	277.9	218.0	189.2	176.0	170.0
25°	2233.7	1914.2	1317.6	859.7	542.4	312.7	216.6	182.6	162.3	152.1	147.8
27.5°	2479.4	2101.4	1367.8	806.6	447.9	249.4	185.5	156.4	141.8	134.7	130.7
30°	2682.0	2318.2	1418.6	747.5	379.5	217.4	169.8	142.7	125.8	121.3	117.6
32.5°	2859.2	2482.3	1454.5	694.2	334.7	193.2	153.5	127.5	116.1	107.3	103.3
35°	3042.6	2618.9	1453.4	656.8	303.9	174.9	139.8	114.1	100.4	90.2	87.0
37.5°	3241.2	2773.3	1428.6	624.8	290.5	160.3	132.1	107.0	93.3	83.0	79.0
40°	3473.7	2935.3	1403.2	594.9	286.7	148.7	126.7	101.3	86.7	76.8	72.8
42.5°	3700.3	3081.4	1380.9	572.6	270.8	148.4	121.8	97.0	81.6	71.9	67.3
45°	3881.4	3217.5	1376.7	559.2	253.9	153.5	119.3	94.2	77.6	67.9	63.6
47.5°	4032.1	3365.3	1404.0	549.8	238.0	140.1	125.5	92.2	73.9	64.5	59.6
50°	4211.3	3546.8	1468.5	534.4	221.1	126.1	143.8	92.7	70.8	61.1	55.9
52.5°	4461.2	3797.9	1563.3	508.4	198.0	113.3	141.5	93.3	67.3	57.3	52.2
55°	4741.4	4111.4	1665.1	465.4	165.8	96.4	121.3	89.3	60.8	53.4	48.5
57.5°	5035.8	4395.9	1725.6	414.0	131.8	83.3	97.0	81.3	53.6	47.9	44.8
60°	5082.1	4504.0	1697.9	350.9	104.7	72.5	71.9	82.7	47.9	42.2	39.9
62.5°	4967.1	4368.2	1564.1	294.7	87.6	63.6	59.1	72.2	43.4	37.7	35.4
65°	4746.0	4001.0	1347.3	265.6	81.3	54.5	49.1	50.8	37.9	32.8	30.8
67.5°	4438.4	3510.8	1106.2	249.1	80.5	46.8	41.9	38.5	32.8	28.5	26.8
70°	3809.5	2924.8	882.5	240.0	78.2	39.4	35.4	31.4	27.4	24.3	22.8
72.5°	2803.8	2072.5	686.5	230.0	78.7	31.4	30.8	26.0	22.0	18.8	18.3
75°	1620.0	1184.1	450.2	186.3	75.0	24.3	25.7	18.3	15.4	13.1	13.1
77.5°	863.4	722.1	171.5	77.6	27.4	15.4	14.6	10.8	9.7	8.0	7.7
80°	376.3	317.8	51.6	21.7	15.1	8.3	5.4	4.9	4.3	3.4	3.1
82.5°	133.2	115.0	16.8	10.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.2	21.7	0.0	2.6	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°	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6
2.5°	1713.9	1707.6	1670.5	1672.0	1678.5	1687.9	1665.7	1676.0	1703.6	1730.2	1740.1
5°	1325.3	1326.7	1304.2	1318.2	1330.7	1339.3	1303.3	1303.9	1325.9	1355.8	1371.5
7.5°	933.8	931.6	932.7	966.1	989.8	972.6	986.1	939.5	942.4	963.8	947.8
10°	694.2	662.8	645.1	670.2	696.2	686.8	663.6	648.5	659.1	682.8	681.1
12.5°	545.5	500.4	473.9	455.9	477.3	459.6	459.1	446.0	431.7	434.3	472.2
15°	410.3	377.5	346.1	317.3	316.7	310.7	280.2	245.9	243.1	244.8	264.5
17.5°	282.2	271.1	258.2	233.4	226.8	201.7	172.0	158.4	151.5	154.6	161.2
20°	198.3	194.0	195.4	182.0	172.6	148.7	131.2	125.8	124.7	127.8	131.0
22.5°	164.3	156.6	155.8	149.8	140.4	123.0	113.6	110.4	109.0	111.8	114.1
25°	143.8	136.1	133.0	129.2	119.3	107.3	101.6	98.7	97.3	99.0	100.4
27.5°	126.7	119.5	116.7	114.1	104.4	95.9	91.3	88.7	87.6	88.2	89.6
30°	113.8	107.6	103.9	100.7	92.4	86.5	82.5	79.9	78.7	78.7	80.2
32.5°	100.4	97.0	93.6	89.6	81.9	77.9	73.9	71.0	69.9	70.2	71.3
35°	83.6	82.5	83.3	79.6	73.0	69.6	65.6	62.5	61.6	61.9	63.1
37.5°	74.2	69.0	72.2	70.2	66.5	61.9	56.8	53.9	52.5	53.4	53.9
40°	68.2	61.9	59.6	61.6	61.1	53.6	49.1	46.2	45.1	45.4	45.9
42.5°	63.1	55.6	50.5	50.2	53.6	46.8	41.9	39.4	37.9	37.9	38.5
45°	58.2	50.2	43.9	39.1	45.1	39.7	35.1	32.8	31.1	31.1	31.4
47.5°	54.5	45.7	38.2	32.0	34.0	32.5	28.8	26.5	24.8	24.8	25.1
50°	51.1	41.1	33.1	26.8	25.4	26.8	23.4	20.8	19.7	19.4	20.0
52.5°	47.4	36.5	28.2	22.8	20.0	20.3	18.3	16.5	15.1	15.1	15.7
55°	43.7	32.8	24.5	19.4	16.5	15.1	14.6	13.4	12.3	12.3	12.8
57.5°	39.9	28.8	20.8	16.0	13.1	12.0	12.0	11.1	10.3	10.3	10.8
60°	36.5	24.8	17.1	13.1	10.3	10.0	10.3	9.4	8.8	8.8	9.4
62.5°	32.5	21.1	14.0	10.8	8.3	8.0	8.8	8.3	7.7	7.7	8.3
65°	27.7	18.0	11.1	8.3	6.3	6.3	7.4	6.8	6.3	6.3	6.8
67.5°	23.4	15.1	8.6	6.0	4.6	4.9	6.3	5.7	5.4	5.4	6.0
70°	19.4	11.7	6.0	3.7	2.6	3.7	4.9	4.9	4.9	4.9	5.4
72.5°	14.6	8.0	3.4	1.4	1.1	2.6	4.0	4.6	4.3	4.3	5.1
75°	9.4	4.6	1.1	0.0	0.0	1.4	3.1	3.7	3.7	3.4	4.3
77.5°	5.4	1.4	0.0	0.0	0.0	0.0	2.0	1.7	1.4	1.1	2.0
80°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6	2020.6
2.5°	1780.4	1814.0	1861.4	1911.6	1988.9	2050.3	2110.5	2162.1	2182.1	2190.4
5°	1409.2	1458.5	1527.9	1616.9	1756.4	1881.9	2009.2	2137.3	2192.9	2206.9
7.5°	1011.2	1074.2	1162.4	1273.9	1437.4	1600.1	1777.8	1965.8	2052.0	2073.7
10°	748.4	825.4	926.4	1044.0	1200.0	1367.2	1561.0	1775.8	1874.2	1903.1
12.5°	531.0	635.1	770.4	913.3	1048.5	1197.8	1393.8	1630.6	1733.9	1765.0
15°	311.9	412.6	572.6	764.1	937.3	1088.5	1287.6	1556.1	1670.0	1701.3
17.5°	178.9	229.1	350.1	563.5	798.6	1008.0	1254.3	1574.7	1708.8	1737.9
20°	136.7	152.6	201.7	362.9	636.5	929.0	1254.3	1679.7	1844.9	1887.7
22.5°	119.5	131.2	151.2	216.6	468.5	844.3	1268.8	1831.4	2047.4	2094.8
25°	106.1	116.7	133.8	162.9	319.6	743.5	1303.3	2017.8	2286.0	2347.3
27.5°	95.0	105.0	120.4	142.7	218.6	622.0	1349.8	2236.3	2549.0	2598.1
30°	85.0	94.4	108.4	124.1	168.6	484.2	1389.5	2442.3	2755.6	2808.4
32.5°	75.6	84.2	96.7	108.4	138.1	358.1	1393.8	2605.5	2927.1	2979.6
35°	66.8	74.5	85.9	95.0	114.4	282.7	1327.3	2747.0	3098.5	3167.9
37.5°	58.2	65.6	75.6	82.5	100.7	230.5	1225.7	2904.8	3318.5	3382.7
40°	50.2	56.8	67.0	71.6	95.3	177.2	1115.3	3070.3	3534.2	3593.0
42.5°	42.8	49.1	59.1	67.9	83.6	132.4	996.0	3225.5	3728.2	3789.9
45°	35.7	42.2	52.2	71.9	69.3	99.0	868.5	3328.5	3881.4	3948.5
47.5°	28.8	36.2	49.9	68.5	55.4	72.8	767.5	3426.1	3997.6	4063.8
50°	23.1	30.5	56.2	61.1	45.4	55.6	725.3	3513.4	4073.8	4137.4
52.5°	18.8	25.7	53.1	46.8	37.9	45.9	748.1	3654.9	4144.2	4184.2
55°	15.7	20.3	32.0	32.5	32.2	39.1	776.3	3858.1	4326.5	4345.4
57.5°	13.7	16.3	22.3	25.1	27.1	34.8	776.9	4149.6	4608.7	4620.4
60°	11.7	14.3	18.5	20.3	23.4	31.1	748.7	4251.5	4719.7	4758.5
62.5°	10.3	12.6	15.4	16.8	19.7	28.0	682.5	4104.0	4567.4	4633.3
65°	9.1	11.4	12.8	14.3	17.4	25.1	573.5	3809.0	4314.6	4383.3
67.5°	8.0	10.0	11.4	12.8	15.7	22.3	422.3	3466.3	4024.4	4081.5
70°	7.1	8.8	10.3	11.4	13.7	18.8	256.2	2941.3	3623.2	3646.9
72.5°	6.8	8.0	9.4	10.3	12.0	16.5	129.8	2161.6	2896.5	2935.1
75°	6.0	7.1	8.6	9.1	10.6	14.3	52.8	1419.7	2099.1	2161.0
77.5°	4.9	6.6	7.7	8.3	9.1	11.7	26.8	907.3	1473.1	1513.0
80°	1.7	4.9	6.6	6.8	7.7	8.6	17.7	496.7	854.5	871.6
82.5°	0.0	3.1	5.1	4.9	5.4	6.6	11.4	236.2	564.1	570.3
85°	0.0	1.4	4.0	3.1	2.3	4.6	4.0	51.6	295.9	308.1
87.5°	0.0	0.0	0.3	1.4	1.1	1.7	0.6	0.3	26.8	34.0
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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