

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: P324226

Luminaire Tested: **GAN-SA2A-760-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324226
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-SA2A-760-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7069 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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



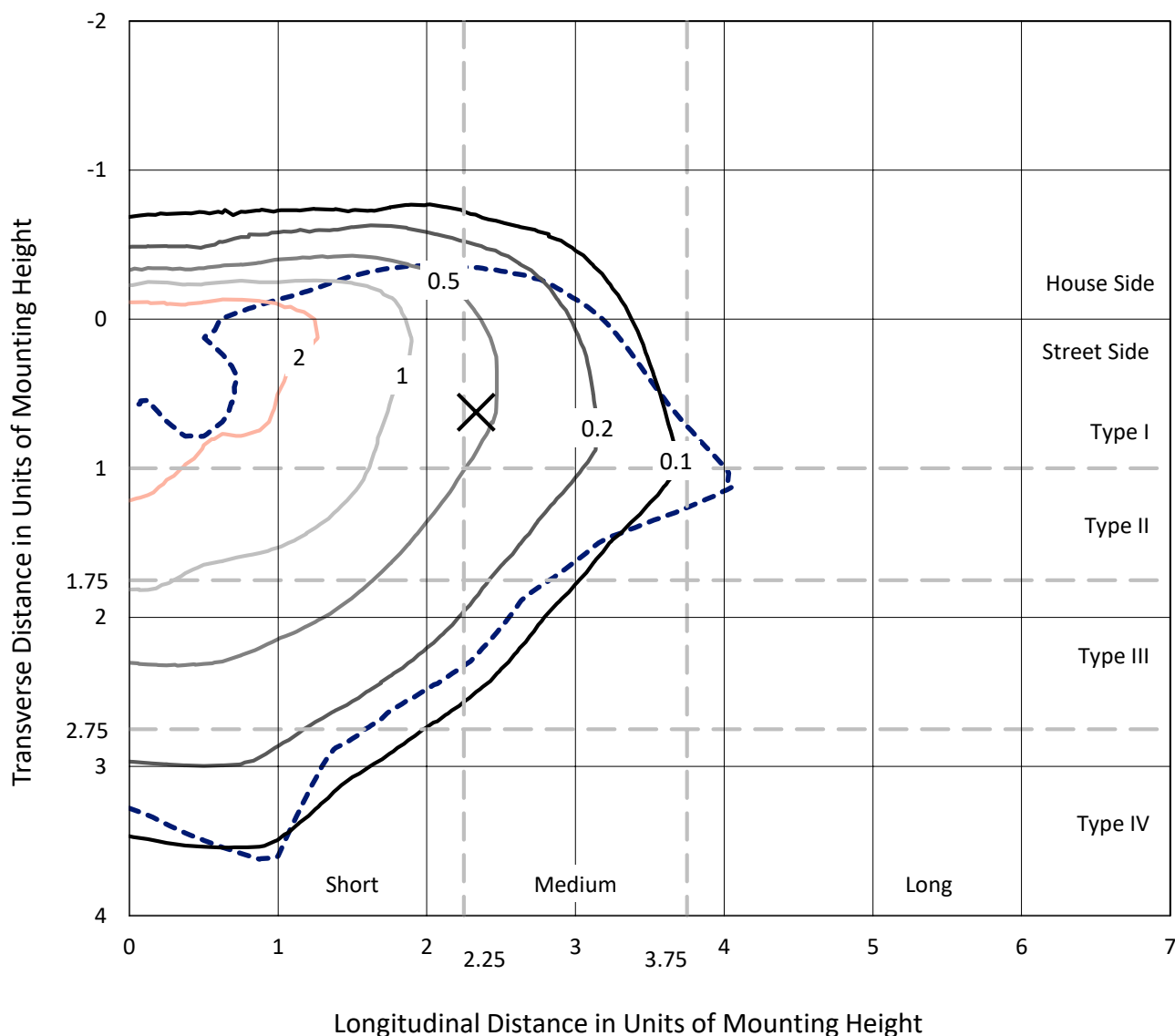
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

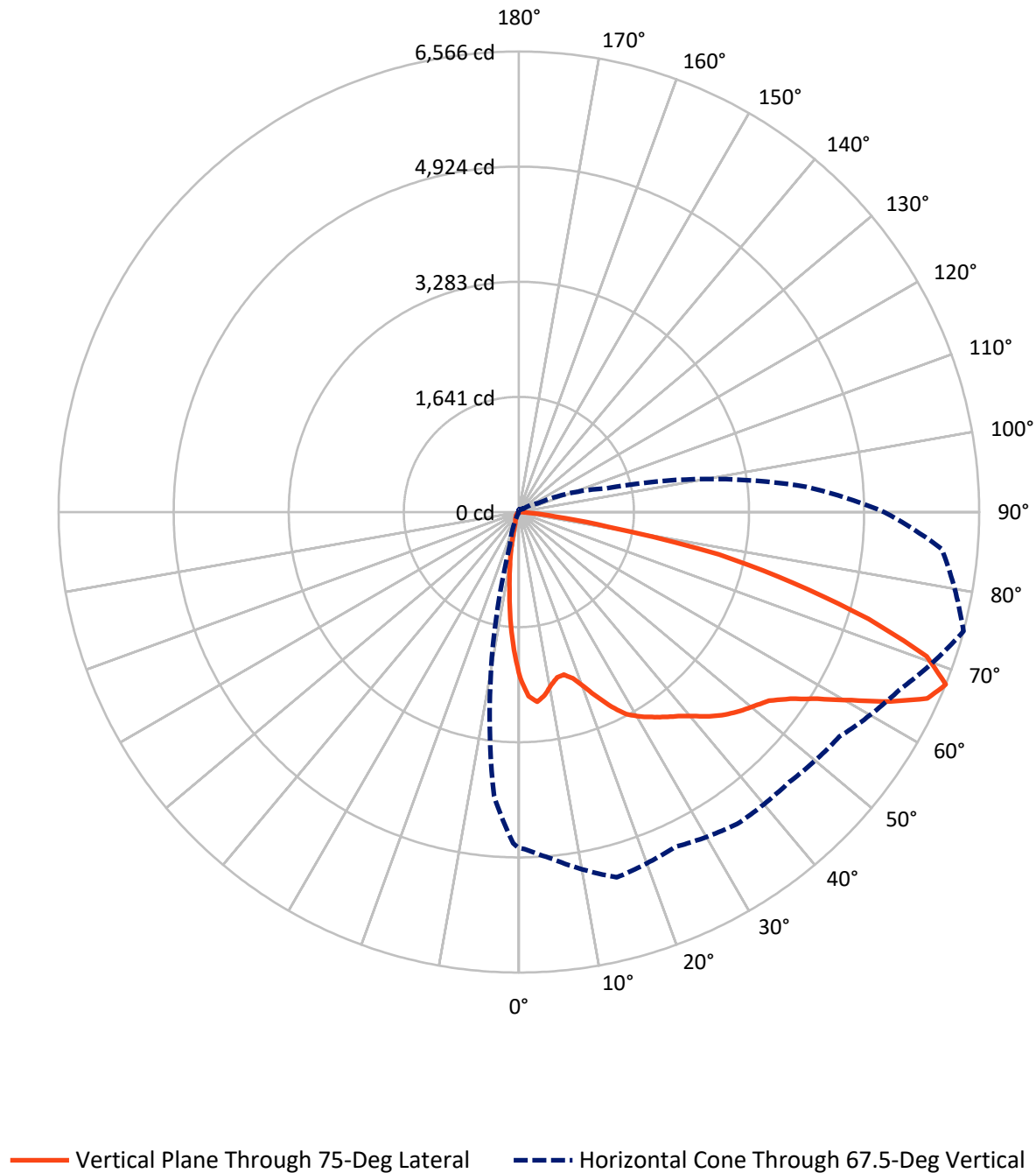
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1060.8	0.0	1060.8
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6008.2	0.0	6008.2
	% Fixture	85.0	0.0	85.0
Total	Lumens	7069.0	0.0	7069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	2.5
10°-20°	354.2	5.0
20°-30°	501.1	7.1
30°-40°	736.8	10.4
40°-50°	1059.0	15.0
50°-60°	1490.8	21.1
60°-70°	1741.1	24.6
70°-80°	888.2	12.6
80°-90°	118.0	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°	7069.0	100.0
0°-180°	7069.0	100.0

Coefficient of Utilization



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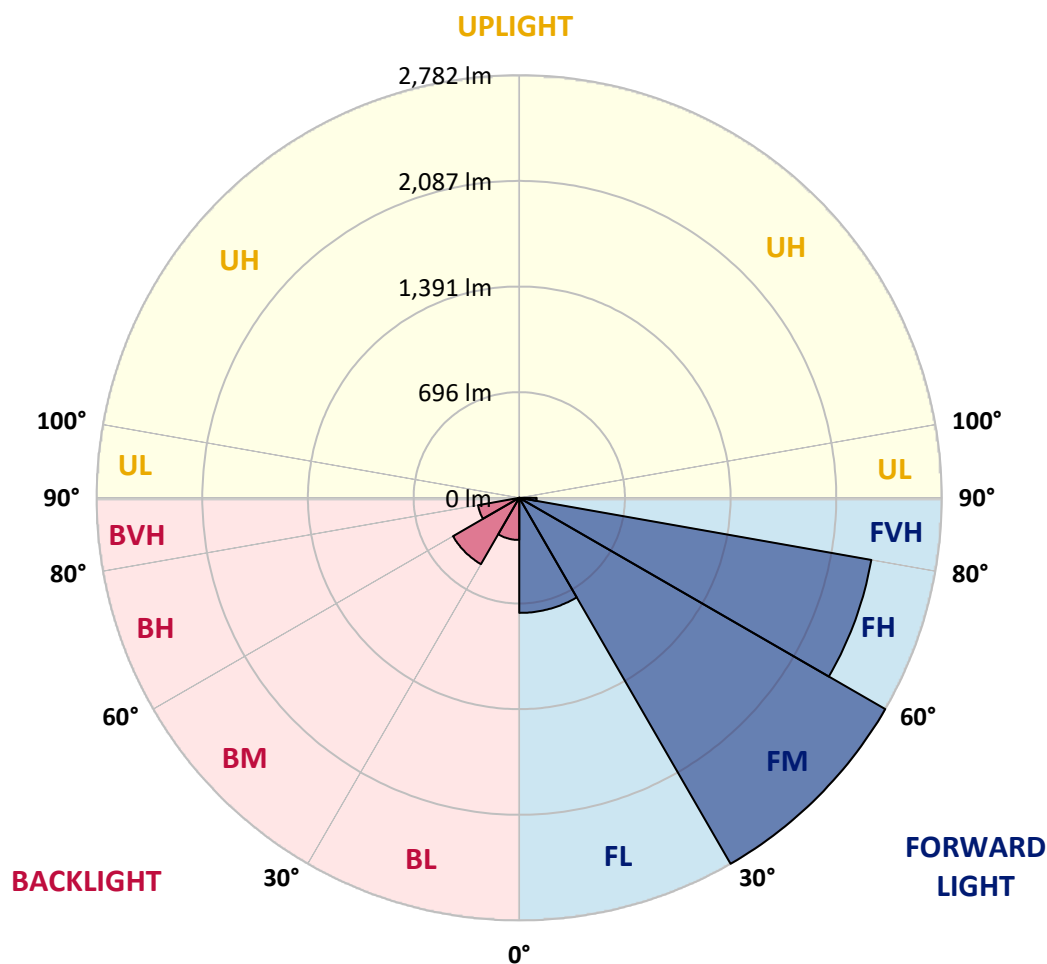
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	757.8	10.7			
FM	(30°-60°)	2782.2	39.4			
FH	(60°-80°)	2353.8	33.3			G2/5000
FVH	(80°-90°)	114.4	1.6			G2/225
BL	(0°-30°)	277.4	3.9	B1/500		
BM	(30°-60°)	504.3	7.1	B1/1000		
BH	(60°-80°)	275.5	3.9	B1/500		G1/500
BVH	(80°-90°)	3.6	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5
2.5°	2570.8	2574.8	2595.6	2643.8	2696.3	2700.4	2735.9	2699.4	2687.0	2628.0	2567.1
5°	2590.2	2605.6	2676.9	2818.6	2941.5	2981.0	3009.1	2937.5	2862.1	2718.1	2564.4
7.5°	2433.8	2459.6	2571.8	2837.7	3057.3	3154.4	3172.9	3060.7	2876.2	2639.1	2408.0
10°	2233.6	2263.0	2398.3	2725.1	3026.9	3193.3	3218.7	3071.7	2806.5	2511.2	2238.9
12.5°	2071.5	2106.0	2244.3	2598.6	2922.1	3106.2	3156.5	3034.6	2746.2	2420.4	2123.4
15°	1996.8	2036.3	2181.7	2516.9	2805.9	2950.8	2992.4	2939.8	2712.8	2406.0	2096.6
17.5°	2039.7	2082.5	2232.6	2523.9	2696.7	2758.6	2792.1	2813.6	2712.8	2492.8	2175.0
20°	2215.5	2261.7	2420.4	2595.2	2606.3	2583.2	2619.0	2694.3	2744.2	2657.5	2363.2
22.5°	2458.6	2512.8	2692.0	2717.4	2562.1	2474.7	2479.4	2597.6	2801.5	2866.5	2624.4
25°	2755.0	2821.3	3003.4	2899.6	2580.5	2410.0	2408.4	2517.9	2857.4	3075.8	2915.4
27.5°	3049.3	3122.3	3282.4	3122.0	2656.5	2398.3	2395.0	2493.8	2912.0	3261.9	3233.1
30°	3296.1	3367.1	3505.1	3283.0	2738.5	2425.8	2409.7	2519.5	2944.5	3382.8	3464.9
32.5°	3497.0	3553.9	3665.5	3393.9	2826.3	2479.0	2444.2	2588.5	2999.7	3485.0	3677.8
35°	3718.0	3778.0	3822.5	3499.4	2924.7	2555.7	2505.8	2698.0	3084.8	3588.8	3911.2
37.5°	3970.2	4029.8	4024.4	3595.8	3049.6	2682.6	2650.8	2871.5	3217.1	3691.6	4171.8
40°	4217.0	4277.9	4234.4	3701.3	3196.3	2891.9	2868.5	3132.0	3394.2	3823.2	4477.2
42.5°	4448.0	4514.0	4420.9	3801.1	3371.1	3155.8	3196.0	3467.5	3615.9	3985.3	4740.4
45°	4634.2	4701.5	4577.3	3898.2	3555.3	3475.9	3596.8	3839.3	3882.4	4122.2	4918.2
47.5°	4769.5	4833.1	4685.8	3995.3	3791.0	3867.4	4078.0	4229.0	4123.2	4241.1	5044.4
50°	4855.9	4905.5	4717.6	4116.9	4100.4	4324.1	4579.3	4653.0	4349.9	4348.2	5197.8
52.5°	4910.8	4933.3	4741.0	4243.8	4423.3	4821.4	5070.2	5093.3	4583.3	4466.1	5404.4
55°	5100.0	5118.1	4907.1	4397.5	4690.1	5257.1	5514.3	5492.8	4847.5	4696.8	5648.2
57.5°	5422.8	5441.9	5250.4	4618.5	4906.1	5526.3	5836.1	5874.6	5157.3	5021.0	5909.4
60°	5584.9	5620.4	5552.1	4898.4	5115.4	5698.4	6055.4	6178.3	5544.4	5448.3	6162.6
62.5°	5437.9	5489.5	5588.6	5208.9	5323.4	5793.2	6123.7	6287.1	5940.9	5946.2	6318.6
65°	5144.6	5185.8	5353.9	5379.0	5443.9	5781.5	5954.9	6135.1	6183.7	6403.7	6310.2
67.5°	4790.3	4805.7	4948.3	5392.4	5269.1	5429.2	5448.0	5581.2	5991.8	6565.7	6056.7
70°	4280.3	4288.6	4413.2	4944.0	4528.1	4563.2	4535.4	4562.6	5151.3	6170.9	5416.8
72.5°	3444.8	3465.9	3643.0	4105.8	3298.8	3197.3	3415.6	3403.6	3967.2	5213.5	4023.1
75°	2536.3	2572.8	2840.3	3307.1	2315.3	2094.3	2253.7	2296.2	2820.3	4032.8	2515.9
77.5°	1775.8	1802.9	2062.1	2431.1	1675.7	1497.5	1439.9	1490.5	1861.5	2917.4	1267.5
80°	1023.0	1033.1	1198.5	1403.8	1129.2	1291.9	1170.4	1205.2	1115.4	1297.9	545.2
82.5°	669.4	671.1	735.7	835.5	703.2	817.1	604.8	773.2	686.1	521.4	177.5
85°	361.7	363.7	426.6	593.0	398.2	225.0	132.3	271.6	424.3	119.5	48.6
87.5°	39.8	36.5	128.6	215.7	110.5	20.4	7.0	30.5	68.0	7.7	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°	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5
2.5°	2535.9	2508.2	2438.8	2365.5	2306.6	2251.3	2195.7	2127.7	2075.2	2064.5	2047.0
5°	2481.7	2393.6	2248.3	2102.3	1984.8	1836.4	1742.3	1669.0	1597.3	1593.0	1578.6
7.5°	2292.2	2176.3	1971.7	1769.8	1604.3	1463.0	1320.4	1224.9	1149.9	1123.5	1107.7
10°	2110.0	1979.7	1724.2	1493.8	1346.2	1221.3	1120.8	1021.0	930.6	868.3	840.2
12.5°	1982.7	1838.8	1557.1	1358.6	1252.7	1134.2	1011.6	887.1	782.9	707.9	662.0
15°	1933.5	1779.8	1501.2	1305.0	1174.4	1024.4	867.6	725.3	609.8	541.8	500.6
17.5°	1992.1	1813.3	1496.9	1239.7	1057.2	870.7	697.5	529.4	420.6	369.0	342.6
20°	2140.8	1919.8	1495.2	1159.6	917.9	688.5	472.5	348.3	282.3	253.5	241.1
22.5°	2351.1	2055.7	1508.6	1080.6	772.9	491.9	326.2	255.8	222.0	206.6	199.6
25°	2621.7	2246.6	1546.4	1009.0	636.6	367.0	254.2	214.3	190.5	178.5	173.5
27.5°	2910.0	2466.3	1605.4	946.7	525.7	292.7	217.7	183.5	166.4	158.1	153.4
30°	3147.8	2720.8	1665.0	877.4	445.4	255.2	199.2	167.4	147.7	142.3	138.0
32.5°	3355.7	2913.3	1707.2	814.7	392.8	226.7	180.2	149.7	136.3	125.9	121.2
35°	3571.0	3073.7	1705.8	770.9	356.6	205.3	164.1	133.9	117.9	105.8	102.1
37.5°	3804.1	3254.9	1676.7	733.4	340.9	188.2	155.0	125.6	109.5	97.4	92.8
40°	4077.0	3445.1	1646.9	698.2	336.5	174.5	148.7	118.9	101.8	90.1	85.4
42.5°	4342.9	3616.6	1620.8	672.1	317.8	174.1	143.0	113.9	95.8	84.4	79.0
45°	4555.5	3776.3	1615.7	656.3	298.0	180.2	140.0	110.5	91.1	79.7	74.7
47.5°	4732.3	3949.8	1647.9	645.3	279.3	164.4	147.3	108.2	86.7	75.7	70.0
50°	4942.6	4162.7	1723.6	627.2	259.5	148.0	168.8	108.8	83.0	71.7	65.6
52.5°	5236.0	4457.4	1834.7	596.7	232.4	132.9	166.1	109.5	79.0	67.3	61.3
55°	5564.8	4825.4	1954.3	546.2	194.6	113.2	142.3	104.8	71.3	62.6	56.9
57.5°	5910.4	5159.3	2025.3	485.9	154.7	97.8	113.9	95.4	63.0	56.3	52.6
60°	5964.7	5286.2	1992.8	411.9	122.9	85.1	84.4	97.1	56.3	49.6	46.9
62.5°	5829.7	5126.8	1835.7	345.9	102.8	74.7	69.3	84.7	50.9	44.2	41.5
65°	5570.2	4695.8	1581.2	311.8	95.4	64.0	57.6	59.6	44.5	38.5	36.2
67.5°	5209.2	4120.5	1298.3	292.3	94.4	54.9	49.2	45.2	38.5	33.5	31.5
70°	4471.1	3432.7	1035.7	281.6	91.8	46.2	41.5	36.8	32.1	28.5	26.8
72.5°	3290.7	2432.5	805.7	269.9	92.4	36.8	36.2	30.5	25.8	22.1	21.4
75°	1901.4	1389.7	528.4	218.7	88.1	28.5	30.1	21.4	18.1	15.4	15.4
77.5°	1013.3	847.5	201.3	91.1	32.1	18.1	17.1	12.7	11.4	9.4	9.0
80°	441.7	373.0	60.6	25.4	17.7	9.7	6.4	5.7	5.0	4.0	3.7
82.5°	156.4	135.0	19.8	12.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.5	25.4	0.0	3.0	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°	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5
2.5°	2011.5	2004.2	1960.6	1962.3	1970.0	1981.1	1955.0	1967.0	1999.5	2030.6	2042.4
5°	1555.5	1557.1	1530.7	1547.1	1561.8	1571.9	1529.7	1530.3	1556.1	1591.3	1609.7
7.5°	1096.0	1093.3	1094.7	1133.9	1161.7	1141.6	1157.3	1102.7	1106.1	1131.2	1112.4
10°	814.7	777.9	757.1	786.6	817.1	806.0	778.9	761.2	773.5	801.3	799.3
12.5°	640.3	587.4	556.2	535.1	560.2	539.5	538.8	523.4	506.7	509.7	554.2
15°	481.5	443.0	406.2	372.4	371.7	364.7	328.8	288.7	285.3	287.3	310.4
17.5°	331.2	318.1	303.1	273.9	266.2	236.8	201.9	185.9	177.8	181.5	189.2
20°	232.7	227.7	229.4	213.6	202.6	174.5	154.0	147.7	146.3	150.0	153.7
22.5°	192.9	183.8	182.8	175.8	164.8	144.3	133.3	129.6	127.9	131.3	133.9
25°	168.8	159.7	156.0	151.7	140.0	125.9	119.2	115.9	114.2	116.2	117.9
27.5°	148.7	140.3	137.0	133.9	122.6	112.5	107.2	104.1	102.8	103.5	105.1
30°	133.6	126.2	121.9	118.2	108.5	101.5	96.8	93.8	92.4	92.4	94.1
32.5°	117.9	113.9	109.8	105.1	96.1	91.4	86.7	83.4	82.0	82.4	83.7
35°	98.1	96.8	97.8	93.4	85.7	81.7	77.0	73.3	72.3	72.7	74.0
37.5°	87.1	81.0	84.7	82.4	78.0	72.7	66.6	63.3	61.6	62.6	63.3
40°	80.0	72.7	70.0	72.3	71.7	63.0	57.6	54.2	52.9	53.2	53.9
42.5°	74.0	65.3	59.3	58.9	63.0	54.9	49.2	46.2	44.5	44.5	45.2
45°	68.3	58.9	51.6	45.9	52.9	46.5	41.2	38.5	36.5	36.5	36.8
47.5°	64.0	53.6	44.9	37.5	39.8	38.2	33.8	31.1	29.1	29.1	29.5
50°	59.9	48.2	38.8	31.5	29.8	31.5	27.5	24.4	23.1	22.8	23.4
52.5°	55.6	42.9	33.2	26.8	23.4	23.8	21.4	19.4	17.7	17.7	18.4
55°	51.2	38.5	28.8	22.8	19.4	17.7	17.1	15.7	14.4	14.4	15.1
57.5°	46.9	33.8	24.4	18.8	15.4	14.1	14.1	13.1	12.1	12.1	12.7
60°	42.9	29.1	20.1	15.4	12.1	11.7	12.1	11.1	10.4	10.4	11.1
62.5°	38.2	24.8	16.4	12.7	9.7	9.4	10.4	9.7	9.0	9.0	9.7
65°	32.5	21.1	13.1	9.7	7.4	7.4	8.7	8.0	7.4	7.4	8.0
67.5°	27.5	17.7	10.0	7.0	5.4	5.7	7.4	6.7	6.4	6.4	7.0
70°	22.8	13.7	7.0	4.4	3.0	4.4	5.7	5.7	5.7	5.7	6.4
72.5°	17.1	9.4	4.0	1.7	1.3	3.0	4.7	5.4	5.0	5.0	6.0
75°	11.1	5.4	1.3	0.0	0.0	1.7	3.7	4.4	4.4	4.0	5.0
77.5°	6.4	1.7	0.0	0.0	0.0	0.0	2.3	2.0	1.7	1.3	2.3
80°	1.7	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°	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5	2371.5
2.5°	2089.6	2129.1	2184.7	2243.6	2334.4	2406.4	2477.0	2537.6	2561.1	2570.8
5°	1653.9	1711.8	1793.2	1897.7	2061.4	2208.8	2358.1	2508.5	2573.8	2590.2
7.5°	1186.8	1260.8	1364.2	1495.2	1687.1	1877.9	2086.6	2307.2	2408.4	2433.8
10°	878.4	968.8	1087.3	1225.3	1408.5	1604.7	1832.1	2084.2	2199.7	2233.6
12.5°	623.2	745.4	904.1	1071.9	1230.6	1405.8	1635.8	1913.8	2035.0	2071.5
15°	366.0	484.2	672.1	896.8	1100.0	1277.5	1511.3	1826.4	1960.0	1996.8
17.5°	210.0	268.9	410.9	661.4	937.3	1183.1	1472.1	1848.1	2005.5	2039.7
20°	160.4	179.2	236.8	426.0	747.1	1090.3	1472.1	1971.4	2165.3	2215.5
22.5°	140.3	154.0	177.5	254.2	549.9	990.9	1489.2	2149.5	2403.0	2458.6
25°	124.6	137.0	157.1	191.2	375.1	872.7	1529.7	2368.2	2683.0	2755.0
27.5°	111.5	123.2	141.3	167.4	256.5	730.0	1584.3	2624.7	2991.7	3049.3
30°	99.8	110.8	127.2	145.7	197.9	568.3	1630.8	2866.5	3234.1	3296.1
32.5°	88.7	98.8	113.5	127.2	162.1	420.3	1635.8	3058.0	3435.4	3497.0
35°	78.4	87.4	100.8	111.5	134.3	331.9	1557.8	3224.1	3636.7	3718.0
37.5°	68.3	77.0	88.7	96.8	118.2	270.6	1438.6	3409.3	3894.8	3970.2
40°	58.9	66.6	78.7	84.1	111.8	208.0	1309.0	3603.5	4148.0	4217.0
42.5°	50.2	57.6	69.3	79.7	98.1	155.4	1169.0	3785.7	4375.7	4448.0
45°	41.9	49.6	61.3	84.4	81.4	116.2	1019.3	3906.6	4555.5	4634.2
47.5°	33.8	42.5	58.6	80.4	65.0	85.4	900.8	4021.1	4691.8	4769.5
50°	27.1	35.8	66.0	71.7	53.2	65.3	851.2	4123.6	4781.2	4855.9
52.5°	22.1	30.1	62.3	54.9	44.5	53.9	878.0	4289.6	4863.9	4910.8
55°	18.4	23.8	37.5	38.2	37.8	45.9	911.2	4528.1	5077.9	5100.0
57.5°	16.1	19.1	26.1	29.5	31.8	40.9	911.8	4870.3	5409.1	5422.8
60°	13.7	16.7	21.8	23.8	27.5	36.5	878.7	4989.9	5539.4	5584.9
62.5°	12.1	14.7	18.1	19.8	23.1	32.8	801.0	4816.7	5360.6	5437.9
65°	10.7	13.4	15.1	16.7	20.4	29.5	673.1	4470.5	5063.9	5144.6
67.5°	9.4	11.7	13.4	15.1	18.4	26.1	495.6	4068.3	4723.3	4790.3
70°	8.4	10.4	12.1	13.4	16.1	22.1	300.7	3452.1	4252.5	4280.3
72.5°	8.0	9.4	11.1	12.1	14.1	19.4	152.4	2537.0	3399.6	3444.8
75°	7.0	8.4	10.0	10.7	12.4	16.7	62.0	1666.3	2463.6	2536.3
77.5°	5.7	7.7	9.0	9.7	10.7	13.7	31.5	1064.9	1728.9	1775.8
80°	2.0	5.7	7.7	8.0	9.0	10.0	20.8	583.0	1002.9	1023.0
82.5°	0.0	3.7	6.0	5.7	6.4	7.7	13.4	277.3	662.0	669.4
85°	0.0	1.7	4.7	3.7	2.7	5.4	4.7	60.6	347.3	361.7
87.5°	0.0	0.0	0.3	1.7	1.3	2.0	0.7	0.3	31.5	39.8
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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