

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: P324066

Luminaire Tested: **GAN-SA2A-727-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324066
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-727-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 5912 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

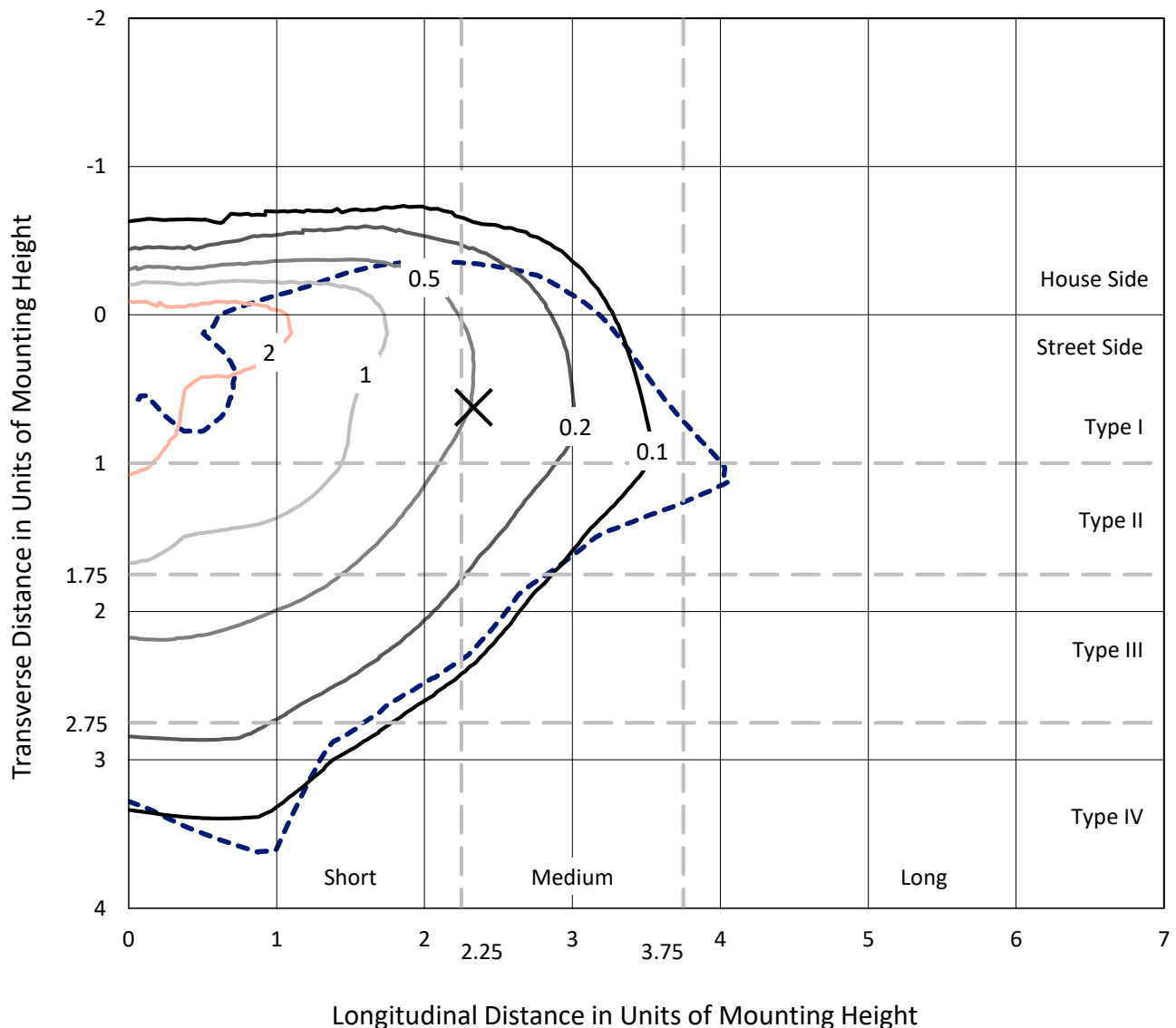
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

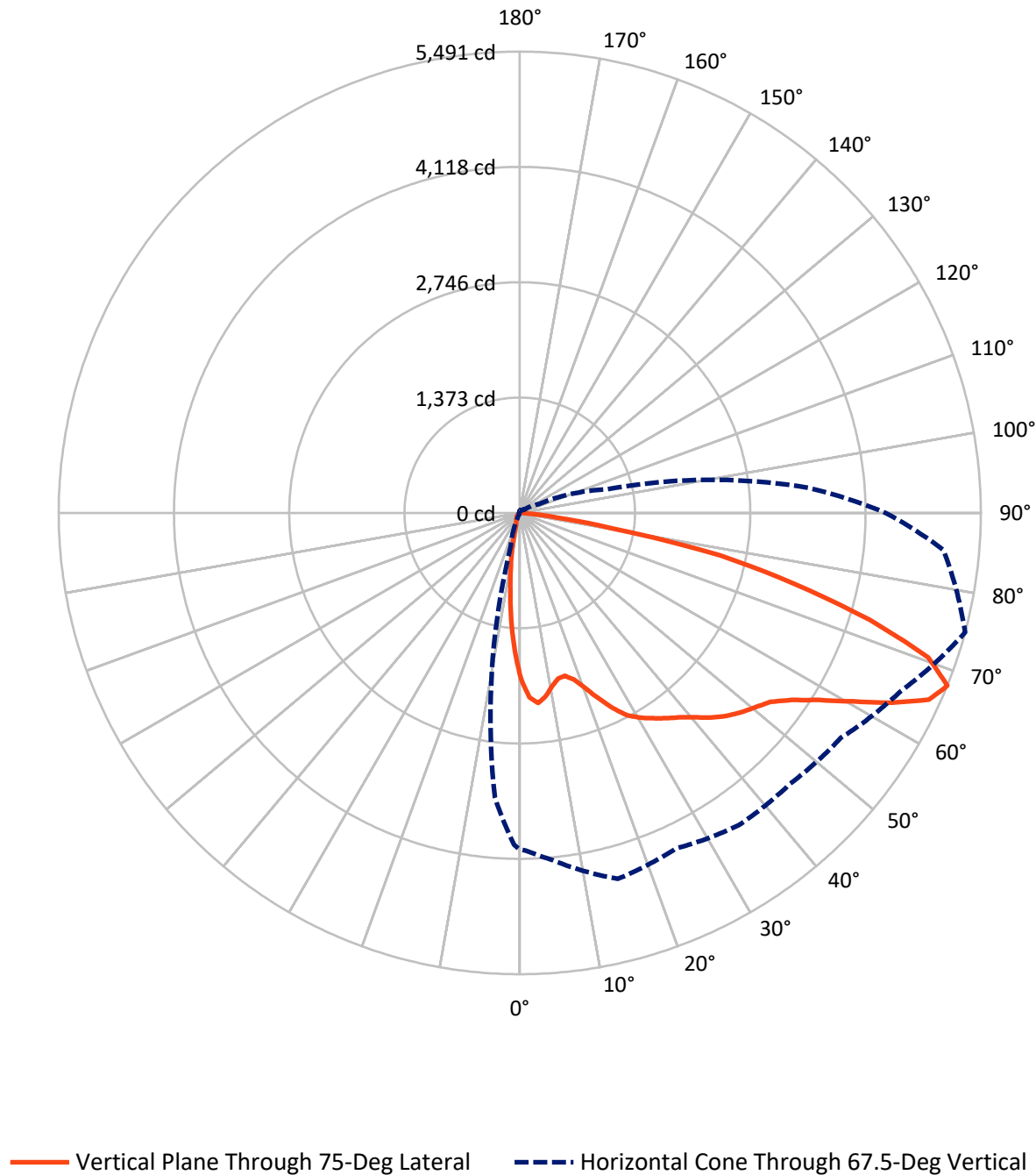
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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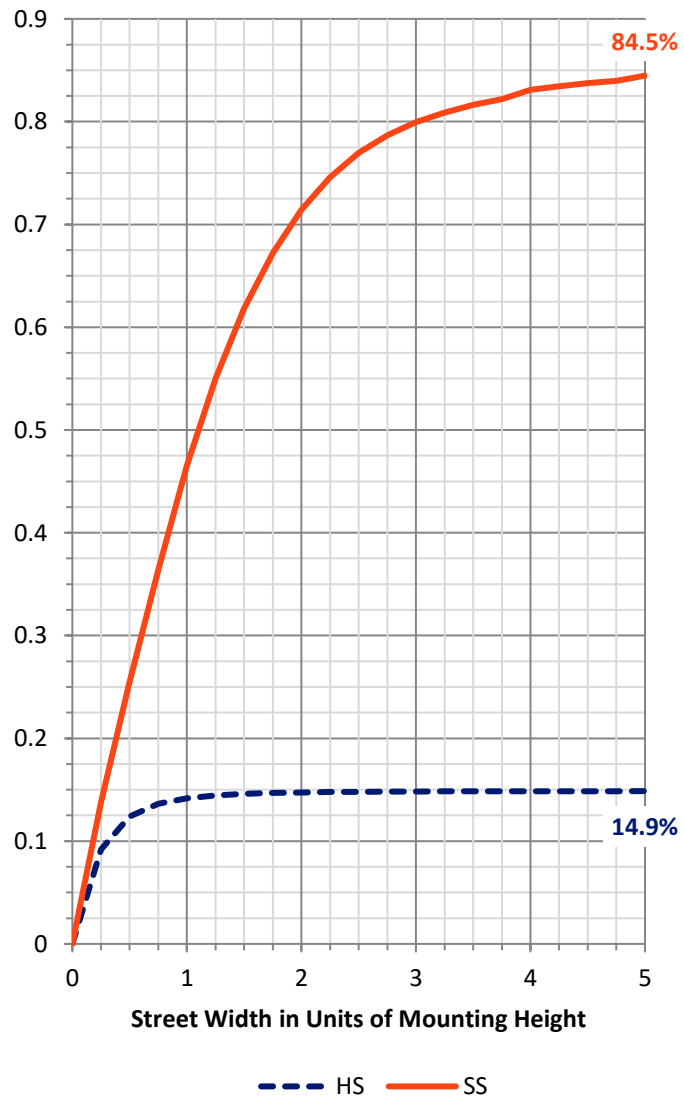
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.2	0.0	887.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5024.8	0.0	5024.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	5912.0	0.0	5912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	2.5
10°-20°	296.2	5.0
20°-30°	419.1	7.1
30°-40°	616.2	10.4
40°-50°	885.6	15.0
50°-60°	1246.8	21.1
60°-70°	1456.1	24.6
70°-80°	742.9	12.6
80°-90°	98.7	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°	5912.0	100.0
0°-180°	5912.0	100.0

Coefficient of Utilization



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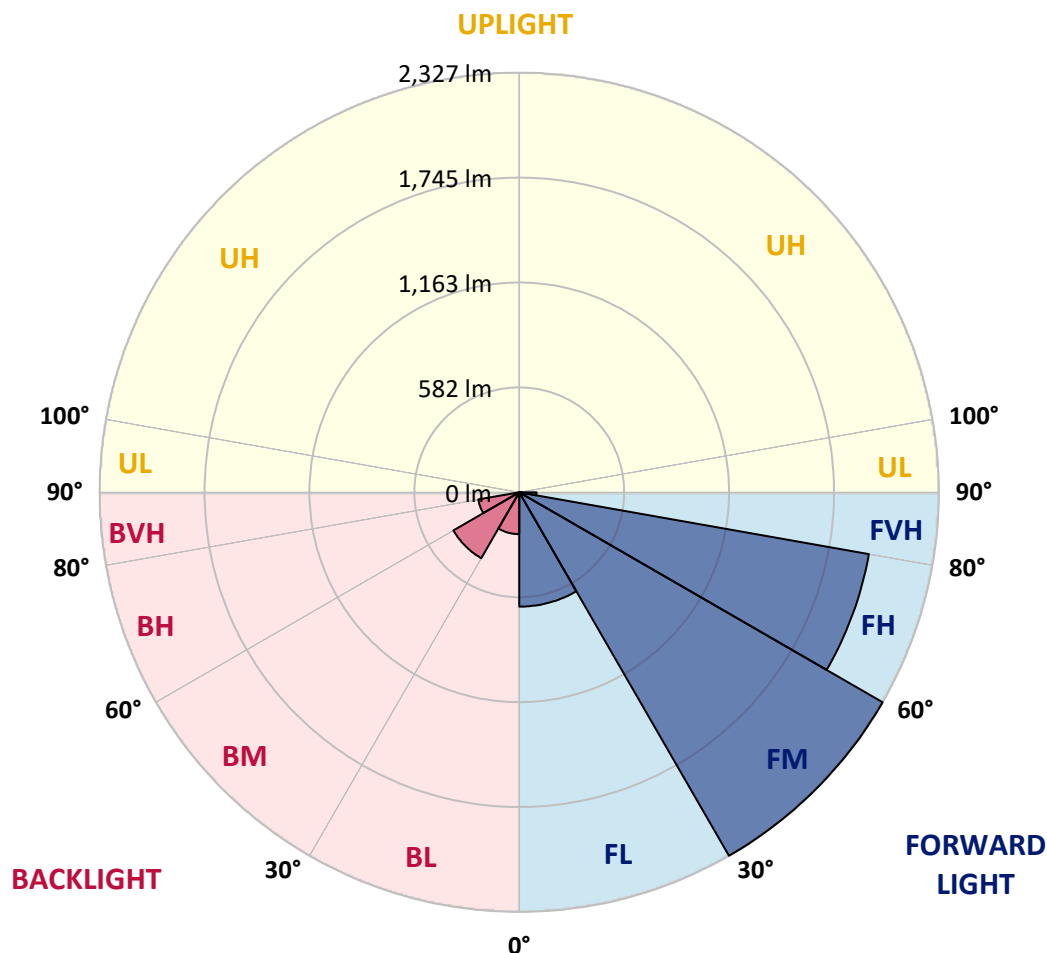
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	633.8	10.7			
FM	(30°-60°)	2326.9	39.4			
FH	(60°-80°)	1968.5	33.3			G2/5000
FVH	(80°-90°)	95.7	1.6			G1/100
BL	(0°-30°)	232.0	3.9	B1/500		
BM	(30°-60°)	421.7	7.1	B1/1000		
BH	(60°-80°)	230.4	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°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	2150.0	2153.4	2170.7	2211.1	2255.0	2258.4	2288.1	2257.6	2247.2	2197.9	2146.9
5°	2166.3	2179.1	2238.8	2357.3	2460.0	2493.1	2516.6	2456.7	2393.7	2273.2	2144.7
7.5°	2035.5	2057.0	2150.8	2373.2	2556.9	2638.2	2653.6	2559.7	2405.4	2207.1	2013.9
10°	1868.0	1892.6	2005.8	2279.1	2531.4	2670.6	2691.9	2569.0	2347.2	2100.2	1872.5
12.5°	1732.4	1761.3	1877.0	2173.3	2443.8	2597.8	2639.8	2537.9	2296.8	2024.3	1775.9
15°	1670.0	1703.0	1824.6	2104.9	2346.6	2467.9	2502.6	2458.6	2268.8	2012.2	1753.4
17.5°	1705.8	1741.7	1867.2	2110.8	2255.3	2307.1	2335.1	2353.1	2268.8	2084.8	1819.0
20°	1852.9	1891.5	2024.3	2170.5	2179.7	2160.4	2190.3	2253.4	2295.1	2222.5	1976.4
22.5°	2056.2	2101.6	2251.4	2272.7	2142.7	2069.6	2073.6	2172.4	2343.0	2397.3	2194.8
25°	2304.0	2359.5	2511.8	2425.0	2158.1	2015.6	2014.2	2105.8	2389.7	2572.3	2438.2
27.5°	2550.2	2611.3	2745.1	2611.0	2221.7	2005.8	2003.0	2085.6	2435.4	2728.1	2704.0
30°	2756.6	2816.0	2931.4	2745.7	2290.3	2028.7	2015.3	2107.2	2462.6	2829.2	2897.8
32.5°	2924.7	2972.3	3065.5	2838.4	2363.7	2073.3	2044.1	2164.9	2508.8	2914.6	3075.9
35°	3109.5	3159.6	3196.9	2926.6	2446.0	2137.4	2095.7	2256.4	2579.9	3001.4	3271.1
37.5°	3320.4	3370.2	3365.7	3007.3	2550.5	2243.5	2216.9	2401.5	2690.5	3087.4	3489.0
40°	3526.8	3577.7	3541.3	3095.5	2673.2	2418.6	2399.0	2619.4	2838.7	3197.4	3744.4
42.5°	3720.0	3775.2	3697.3	3178.9	2819.3	2639.3	2672.9	2900.0	3024.1	3333.0	3964.5
45°	3875.7	3932.0	3828.1	3260.2	2973.4	2907.0	3008.1	3210.9	3247.0	3447.5	4113.2
47.5°	3988.9	4042.1	3918.9	3341.4	3170.5	3234.4	3410.6	3536.9	3448.4	3546.9	4218.8
50°	4061.1	4102.6	3945.5	3443.0	3429.3	3616.4	3829.8	3891.4	3638.0	3636.6	4347.1
52.5°	4107.1	4125.8	3965.1	3549.2	3699.3	4032.3	4240.4	4259.7	3833.2	3735.1	4519.9
55°	4265.3	4280.4	4104.0	3677.7	3922.5	4396.6	4611.7	4593.8	4054.1	3928.1	4723.7
57.5°	4535.3	4551.2	4391.0	3862.6	4103.1	4621.8	4880.9	4913.1	4313.2	4199.2	4942.2
60°	4670.8	4700.5	4643.4	4096.7	4278.2	4765.8	5064.3	5167.1	4636.9	4556.6	5153.9
62.5°	4547.9	4591.0	4673.9	4356.3	4452.1	4845.0	5121.4	5258.1	4968.5	4973.0	5284.4
65°	4302.5	4337.0	4477.6	4498.6	4552.9	4835.2	4980.3	5131.0	5171.6	5355.6	5277.4
67.5°	4006.2	4019.1	4138.4	4509.8	4406.7	4540.6	4556.3	4667.7	5011.1	5491.1	5065.4
70°	3579.7	3586.7	3690.9	4134.8	3787.0	3816.4	3793.1	3815.8	4308.1	5160.9	4530.2
72.5°	2881.0	2898.6	3046.8	3433.8	2758.9	2674.0	2856.6	2846.5	3317.9	4360.2	3364.6
75°	2121.2	2151.7	2375.5	2765.9	1936.3	1751.5	1884.8	1920.4	2358.7	3372.7	2104.1
77.5°	1485.2	1507.8	1724.6	2033.2	1401.4	1252.4	1204.3	1246.5	1556.8	2439.9	1060.0
80°	855.6	864.0	1002.3	1174.0	944.4	1080.5	978.8	1007.9	932.9	1085.5	455.9
82.5°	559.8	561.2	615.3	698.7	588.1	683.3	505.8	646.7	573.8	436.1	148.4
85°	302.5	304.1	356.8	496.0	333.0	188.2	110.6	227.1	354.8	100.0	40.6
87.5°	33.3	30.5	107.5	180.4	92.4	17.1	5.9	25.5	56.9	6.4	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°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	2120.9	2097.6	2039.7	1978.3	1929.0	1882.8	1836.3	1779.5	1735.5	1726.6	1712.0
5°	2075.5	2001.9	1880.3	1758.2	1659.9	1535.8	1457.1	1395.8	1335.9	1332.2	1320.2
7.5°	1917.0	1820.1	1649.0	1480.1	1341.8	1223.6	1104.3	1024.5	961.7	939.6	926.4
10°	1764.6	1655.7	1442.0	1249.3	1125.8	1021.4	937.4	853.9	778.3	726.2	702.7
12.5°	1658.2	1537.8	1302.3	1136.2	1047.7	948.6	846.1	741.9	654.8	592.0	553.7
15°	1617.1	1488.5	1255.5	1091.4	982.2	856.7	725.6	606.6	510.0	453.1	418.7
17.5°	1666.1	1516.5	1251.9	1036.8	884.1	728.2	583.4	442.8	351.8	308.6	286.5
20°	1790.4	1605.6	1250.5	969.8	767.6	575.8	395.2	291.3	236.1	212.0	201.6
22.5°	1966.3	1719.3	1261.7	903.7	646.4	411.4	272.8	214.0	185.7	172.8	166.9
25°	2192.6	1878.9	1293.3	843.8	532.4	306.9	212.6	179.2	159.4	149.3	145.1
27.5°	2433.7	2062.6	1342.6	791.7	439.7	244.8	182.0	153.5	139.2	132.2	128.3
30°	2632.6	2275.5	1392.5	733.8	372.5	213.4	166.6	140.0	123.5	119.0	115.4
32.5°	2806.5	2436.5	1427.7	681.4	328.5	189.6	150.7	125.2	114.0	105.3	101.4
35°	2986.5	2570.7	1426.6	644.7	298.3	171.7	137.2	112.0	98.6	88.5	85.4
37.5°	3181.5	2722.2	1402.3	613.3	285.1	157.4	129.7	105.0	91.6	81.5	77.6
40°	3409.7	2881.2	1377.3	583.9	281.5	145.9	124.3	99.4	85.1	75.3	71.4
42.5°	3632.1	3024.6	1355.5	562.1	265.8	145.6	119.6	95.2	80.1	70.6	66.1
45°	3809.9	3158.2	1351.3	548.9	249.3	150.7	117.1	92.4	76.2	66.7	62.5
47.5°	3957.8	3303.3	1378.2	539.7	233.6	137.5	123.2	90.5	72.5	63.3	58.5
50°	4133.7	3481.4	1441.5	524.5	217.0	123.8	141.1	91.0	69.5	59.9	54.9
52.5°	4379.0	3727.9	1534.4	499.1	194.4	111.2	138.9	91.6	66.1	56.3	51.3
55°	4654.0	4035.6	1634.4	456.8	162.7	94.7	119.0	87.7	59.7	52.4	47.6
57.5°	4943.0	4314.9	1693.8	406.4	129.4	81.8	95.2	79.8	52.7	47.0	44.0
60°	4988.4	4421.0	1666.6	344.5	102.8	71.1	70.6	81.2	47.0	41.4	39.2
62.5°	4875.5	4287.7	1535.3	289.3	86.0	62.5	58.0	70.9	42.6	37.0	34.7
65°	4658.5	3927.3	1322.4	260.7	79.8	53.5	48.2	49.9	37.2	32.2	30.2
67.5°	4356.6	3446.1	1085.8	244.5	79.0	45.9	41.2	37.8	32.2	28.0	26.3
70°	3739.3	2870.9	866.2	235.5	76.7	38.6	34.7	30.8	26.9	23.8	22.4
72.5°	2752.1	2034.3	673.8	225.7	77.3	30.8	30.2	25.5	21.6	18.5	17.9
75°	1590.2	1162.2	441.9	182.9	73.7	23.8	25.2	17.9	15.1	12.9	12.9
77.5°	847.5	708.8	168.3	76.2	26.9	15.1	14.3	10.6	9.5	7.8	7.6
80°	369.4	312.0	50.7	21.3	14.8	8.1	5.3	4.8	4.2	3.4	3.1
82.5°	130.8	112.9	16.5	10.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.7	21.3	0.0	2.5	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°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	1682.3	1676.2	1639.7	1641.1	1647.6	1656.8	1635.0	1645.1	1672.2	1698.3	1708.1
5°	1300.9	1302.3	1280.1	1293.9	1306.2	1314.6	1279.3	1279.9	1301.4	1330.8	1346.2
7.5°	916.6	914.4	915.5	948.3	971.5	954.7	967.9	922.2	925.0	946.0	930.4
10°	681.4	650.6	633.2	657.9	683.3	674.1	651.4	636.6	646.9	670.2	668.5
12.5°	535.5	491.2	465.2	447.5	468.5	451.2	450.6	437.7	423.7	426.2	463.5
15°	402.7	370.5	339.7	311.4	310.9	305.0	275.0	241.4	238.6	240.3	259.6
17.5°	277.0	266.1	253.5	229.1	222.6	198.0	168.9	155.4	148.7	151.8	158.2
20°	194.6	190.4	191.8	178.7	169.4	145.9	128.8	123.5	122.4	125.5	128.5
22.5°	161.3	153.8	152.9	147.0	137.8	120.7	111.5	108.4	107.0	109.8	112.0
25°	141.1	133.6	130.5	126.9	117.1	105.3	99.7	96.9	95.5	97.2	98.6
27.5°	124.3	117.3	114.5	112.0	102.5	94.1	89.6	87.1	86.0	86.5	87.9
30°	111.7	105.6	101.9	98.9	90.7	84.9	80.9	78.4	77.3	77.3	78.7
32.5°	98.6	95.2	91.9	87.9	80.4	76.5	72.5	69.7	68.6	68.9	70.0
35°	82.1	80.9	81.8	78.1	71.7	68.3	64.4	61.3	60.5	60.8	61.9
37.5°	72.8	67.8	70.9	68.9	65.3	60.8	55.7	52.9	51.5	52.4	52.9
40°	66.9	60.8	58.5	60.5	59.9	52.7	48.2	45.4	44.2	44.5	45.1
42.5°	61.9	54.6	49.6	49.3	52.7	45.9	41.2	38.6	37.2	37.2	37.8
45°	57.1	49.3	43.1	38.4	44.2	38.9	34.4	32.2	30.5	30.5	30.8
47.5°	53.5	44.8	37.5	31.4	33.3	31.9	28.3	26.0	24.4	24.4	24.6
50°	50.1	40.3	32.5	26.3	24.9	26.3	23.0	20.4	19.3	19.0	19.6
52.5°	46.5	35.8	27.7	22.4	19.6	19.9	17.9	16.2	14.8	14.8	15.4
55°	42.8	32.2	24.1	19.0	16.2	14.8	14.3	13.2	12.0	12.0	12.6
57.5°	39.2	28.3	20.4	15.7	12.9	11.8	11.8	10.9	10.1	10.1	10.6
60°	35.8	24.4	16.8	12.9	10.1	9.8	10.1	9.2	8.7	8.7	9.2
62.5°	31.9	20.7	13.7	10.6	8.1	7.8	8.7	8.1	7.6	7.6	8.1
65°	27.2	17.6	10.9	8.1	6.2	6.2	7.3	6.7	6.2	6.2	6.7
67.5°	23.0	14.8	8.4	5.9	4.5	4.8	6.2	5.6	5.3	5.3	5.9
70°	19.0	11.5	5.9	3.6	2.5	3.6	4.8	4.8	4.8	4.8	5.3
72.5°	14.3	7.8	3.4	1.4	1.1	2.5	3.9	4.5	4.2	4.2	5.0
75°	9.2	4.5	1.1	0.0	0.0	1.4	3.1	3.6	3.6	3.4	4.2
77.5°	5.3	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°	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4	1983.4
2.5°	1747.6	1780.6	1827.1	1876.4	1952.3	2012.5	2071.6	2122.3	2141.9	2150.0
5°	1383.2	1431.7	1499.7	1587.1	1724.0	1847.3	1972.2	2097.9	2152.5	2166.3
7.5°	992.5	1054.4	1141.0	1250.5	1410.9	1570.6	1745.0	1929.6	2014.2	2035.5
10°	734.6	810.2	909.4	1024.7	1177.9	1342.0	1532.2	1743.1	1839.7	1868.0
12.5°	521.2	623.4	756.2	896.5	1029.2	1175.7	1368.1	1600.5	1701.9	1732.4
15°	306.1	405.0	562.1	750.0	920.0	1068.4	1263.9	1527.4	1639.2	1670.0
17.5°	175.6	224.9	343.6	553.1	783.9	989.4	1231.1	1545.6	1677.3	1705.8
20°	134.1	149.8	198.0	356.2	624.8	911.9	1231.1	1648.7	1810.9	1852.9
22.5°	117.3	128.8	148.4	212.6	459.9	828.7	1245.4	1797.7	2009.7	2056.2
25°	104.2	114.5	131.3	159.9	313.7	729.8	1279.3	1980.6	2243.8	2304.0
27.5°	93.3	103.1	118.2	140.0	214.5	610.5	1325.0	2195.1	2502.0	2550.2
30°	83.5	92.7	106.4	121.8	165.5	475.3	1363.9	2397.3	2704.8	2756.6
32.5°	74.2	82.6	94.9	106.4	135.5	351.5	1368.1	2557.5	2873.1	2924.7
35°	65.5	73.1	84.3	93.3	112.3	277.5	1302.8	2696.4	3041.4	3109.5
37.5°	57.1	64.4	74.2	80.9	98.9	226.3	1203.1	2851.3	3257.4	3320.4
40°	49.3	55.7	65.8	70.3	93.5	173.9	1094.7	3013.7	3469.1	3526.8
42.5°	42.0	48.2	58.0	66.7	82.1	129.9	977.7	3166.1	3659.5	3720.0
45°	35.0	41.4	51.3	70.6	68.1	97.2	852.5	3267.2	3809.9	3875.7
47.5°	28.3	35.6	49.0	67.2	54.3	71.4	753.4	3362.9	3923.9	3988.9
50°	22.7	30.0	55.2	59.9	44.5	54.6	711.9	3448.6	3998.7	4061.1
52.5°	18.5	25.2	52.1	45.9	37.2	45.1	734.3	3587.6	4067.9	4107.1
55°	15.4	19.9	31.4	31.9	31.6	38.4	762.0	3787.0	4246.8	4265.3
57.5°	13.4	16.0	21.8	24.6	26.6	34.2	762.6	4073.2	4523.8	4535.3
60°	11.5	14.0	18.2	19.9	23.0	30.5	734.9	4173.2	4632.7	4670.8
62.5°	10.1	12.3	15.1	16.5	19.3	27.4	669.9	4028.4	4483.2	4547.9
65°	9.0	11.2	12.6	14.0	17.1	24.6	562.9	3738.8	4235.0	4302.5
67.5°	7.8	9.8	11.2	12.6	15.4	21.8	414.5	3402.4	3950.2	4006.2
70°	7.0	8.7	10.1	11.2	13.4	18.5	251.5	2887.1	3556.5	3579.7
72.5°	6.7	7.8	9.2	10.1	11.8	16.2	127.4	2121.7	2843.2	2881.0
75°	5.9	7.0	8.4	9.0	10.4	14.0	51.8	1393.6	2060.4	2121.2
77.5°	4.8	6.4	7.6	8.1	9.0	11.5	26.3	890.6	1445.9	1485.2
80°	1.7	4.8	6.4	6.7	7.6	8.4	17.4	487.6	838.8	855.6
82.5°	0.0	3.1	5.0	4.8	5.3	6.4	11.2	231.9	553.7	559.8
85°	0.0	1.4	3.9	3.1	2.2	4.5	3.9	50.7	290.4	302.5
87.5°	0.0	0.0	0.3	1.4	1.1	1.7	0.6	0.3	26.3	33.3
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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