

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: P198744

Luminaire Tested: **XNV-AF-01-LED-U-SLL-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24264)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SLL-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5995.5 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
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: 28.75 FT

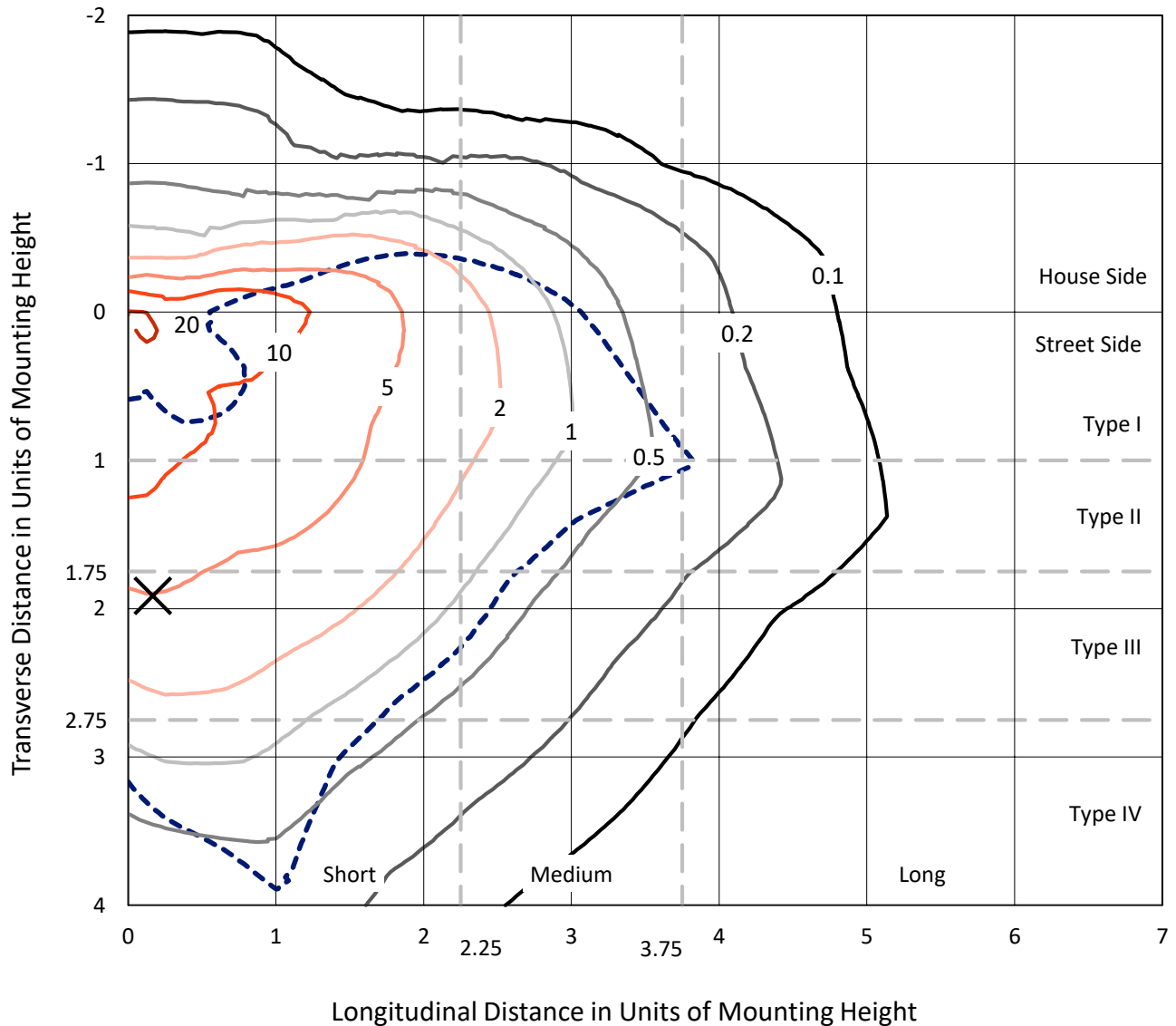


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Iso-Footcandle Lines of Horizontal Illumination

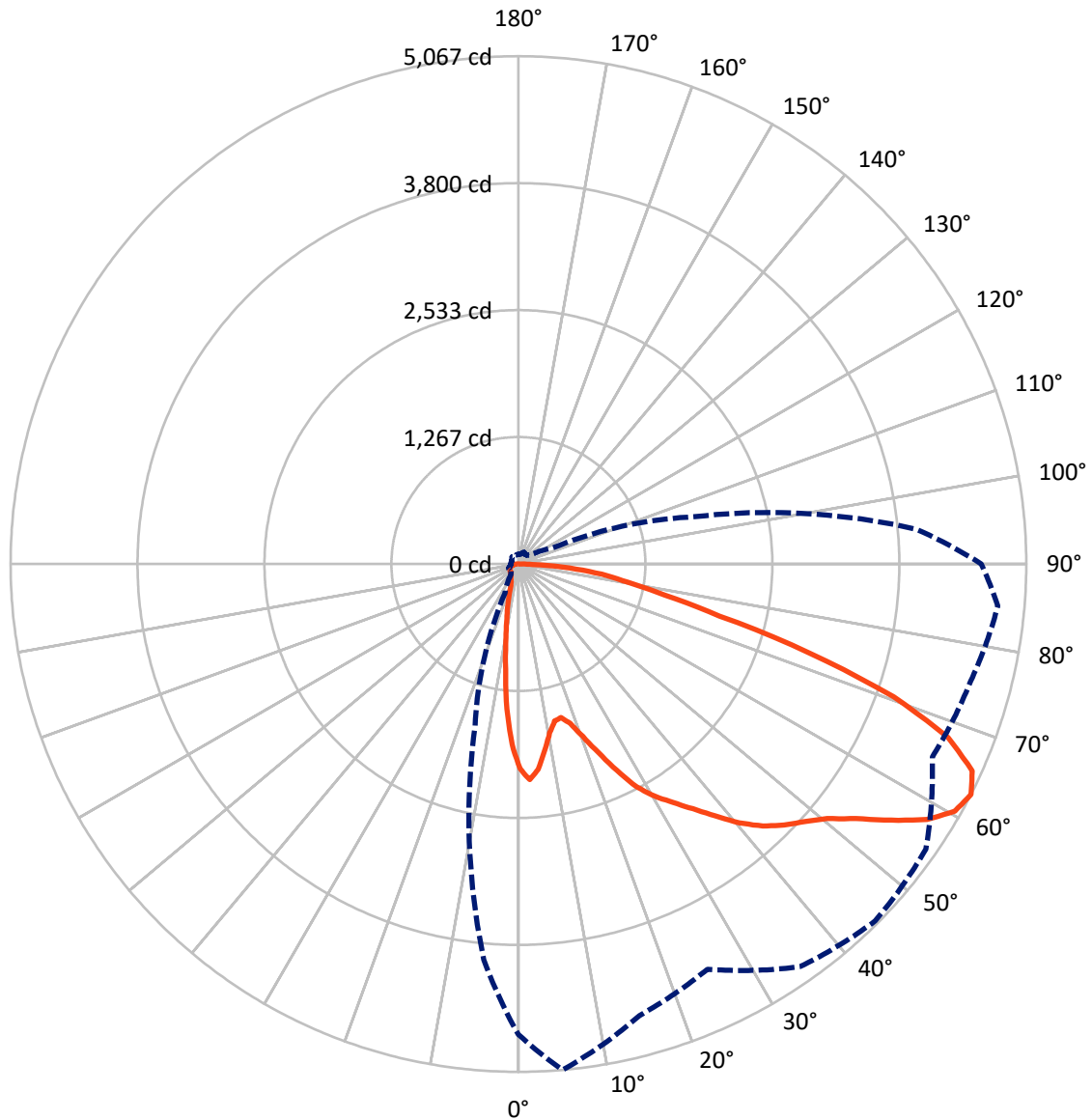
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1062.1	0.0	1062.1
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	4933.4	0.0	4933.4
	% Fixture	82.3	0.0	82.3
Total	Lumens	5995.5	0.0	5995.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	2.5
10°-20°	271.5	4.5
20°-30°	390.5	6.5
30°-40°	598.1	10.0
40°-50°	874.4	14.6
50°-60°	1272.3	21.2
60°-70°	1474.1	24.6
70°-80°	768.4	12.8
80°-90°	197.5	3.3
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°	5995.5	100.0
0°-180°	5995.5	100.0

Coefficient of Utilization



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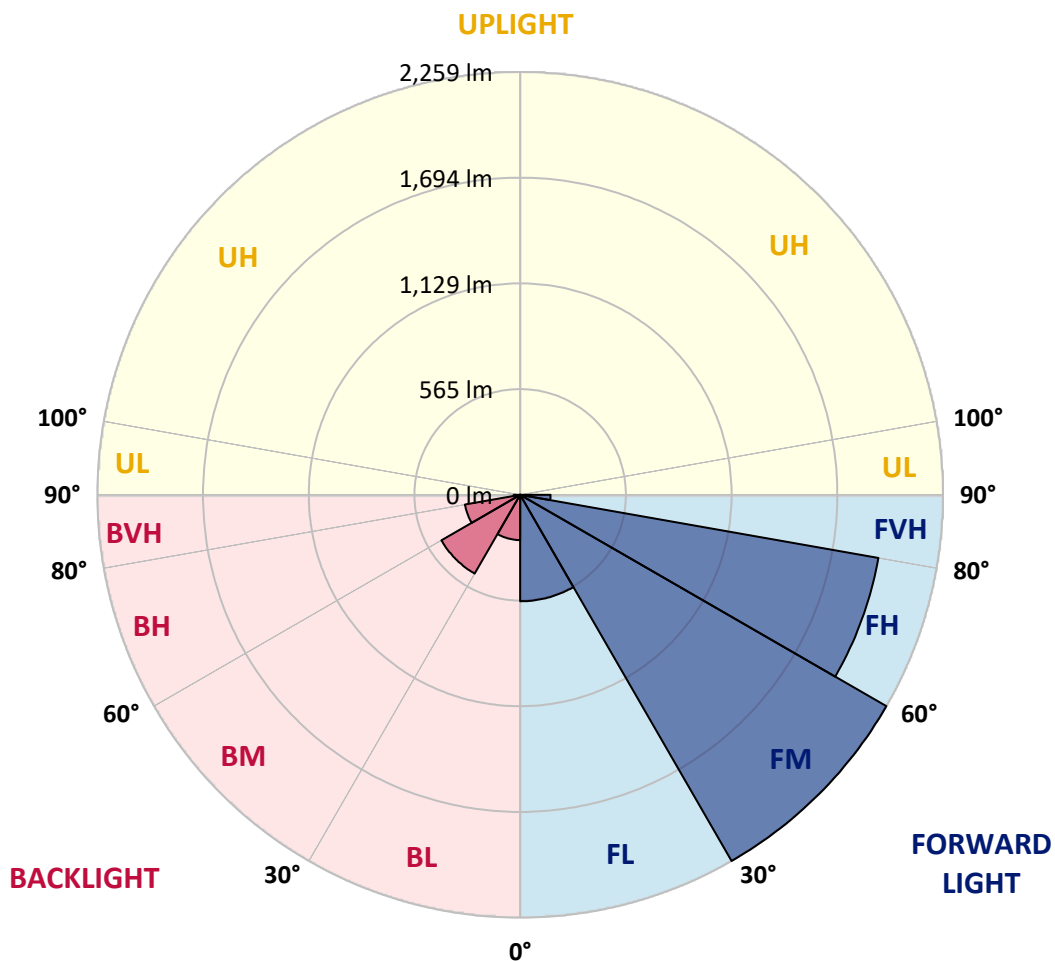
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	569.0	9.5			
FM	(30°-60°)	2258.8	37.7			
FH	(60°-80°)	1943.1	32.4			G2/5000
FVH	(80°-90°)	162.5	2.7			G2/225
BL	(0°-30°)	241.6	4.0	B1/500		
BM	(30°-60°)	486.0	8.1	B1/1000		
BH	(60°-80°)	299.5	5.0	B1/500		G1/500
BVH	(80°-90°)	35.0	0.6			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	2110.0	2154.8	2206.1	2273.1	2318.7	2337.0	2352.2	2326.6	2301.7	2255.3	2238.7
5°	1970.9	2057.1	2198.3	2332.6	2450.9	2518.7	2539.6	2492.2	2407.8	2286.1	2221.7
7.5°	1764.5	1877.9	2076.6	2274.4	2443.9	2557.0	2565.3	2471.3	2305.2	2105.7	2001.4
10°	1584.0	1712.3	1942.3	2163.5	2343.1	2458.7	2436.1	2304.4	2104.0	1877.0	1759.3
12.5°	1479.3	1607.6	1841.8	2066.6	2235.7	2279.6	2233.5	2122.6	1932.7	1705.4	1586.7
15°	1457.1	1589.3	1806.2	1995.8	2100.5	2072.3	2026.6	1970.5	1835.4	1649.3	1534.5
17.5°	1524.1	1671.9	1853.6	1957.5	1953.1	1885.3	1847.0	1858.0	1834.9	1710.2	1590.2
20°	1661.9	1836.6	1974.0	1947.1	1835.8	1740.6	1718.4	1803.6	1910.1	1862.7	1731.0
22.5°	1843.2	2042.2	2138.3	1977.1	1774.5	1671.9	1667.5	1800.6	2047.0	2093.6	1933.2
25°	2047.9	2280.1	2304.0	2030.0	1768.0	1665.8	1661.9	1847.6	2211.8	2322.2	2159.7
27.5°	2298.3	2520.0	2442.2	2100.9	1796.6	1683.6	1686.2	1927.4	2383.5	2548.3	2414.8
30°	2487.0	2690.4	2527.4	2170.5	1842.7	1714.9	1721.4	2014.0	2476.1	2705.2	2618.7
32.5°	2663.5	2836.0	2609.1	2239.1	1910.1	1761.4	1784.0	2121.8	2587.3	2839.9	2811.3
35°	2858.6	2999.1	2700.0	2312.7	2006.6	1843.2	1875.8	2224.4	2697.8	2974.7	3002.1
37.5°	3079.9	3185.6	2798.7	2416.5	2145.7	1994.4	2012.7	2329.2	2774.8	3123.8	3206.8
40°	3310.3	3394.7	2906.4	2555.2	2347.9	2198.7	2207.4	2463.5	2835.1	3278.1	3405.5
42.5°	3508.1	3573.7	3014.7	2727.4	2580.0	2407.0	2414.4	2608.2	2893.0	3411.1	3564.6
45°	3666.4	3714.5	3116.8	2908.7	2827.7	2666.9	2665.2	2755.6	2970.3	3523.2	3686.7
47.5°	3813.7	3839.3	3230.8	3085.1	3084.7	3001.6	2939.4	2929.5	3073.4	3617.7	3793.2
50°	3982.3	3991.9	3381.2	3263.3	3398.5	3385.5	3270.8	3150.3	3206.8	3723.7	3905.0
52.5°	4217.1	4217.5	3567.6	3437.2	3745.0	3786.2	3652.9	3400.3	3404.2	3930.2	4097.9
55°	4493.1	4512.2	3810.6	3645.5	4107.6	4177.9	4052.3	3697.1	3687.6	4263.1	4411.0
57.5°	4706.6	4807.9	4093.6	3905.8	4446.2	4537.9	4436.6	4005.0	4035.8	4606.6	4669.2
60°	4766.5	5003.5	4375.8	4198.0	4732.7	4870.5	4767.5	4337.5	4376.6	4829.6	4743.5
62.5°	4694.8	5066.5	4663.1	4459.7	4902.6	5034.8	4960.9	4555.3	4654.4	4800.9	4617.9
65°	4482.3	4975.2	4912.6	4571.0	4804.8	4851.8	4832.2	4566.6	4805.2	4529.6	4270.5
67.5°	3985.8	4623.1	4801.3	4333.1	4348.0	4297.5	4271.8	4256.2	4635.7	4091.9	3722.8
70°	3241.6	3972.3	4270.5	3626.4	3516.8	3468.1	3383.7	3592.4	4166.7	3486.3	3063.8
72.5°	2496.9	3039.1	3502.9	2749.1	2521.3	2537.8	2442.2	2746.9	3451.5	2695.2	2339.2
75°	1773.2	2072.3	2796.0	1975.3	1673.6	1672.7	1665.4	1977.1	2723.4	1934.4	1711.4
77.5°	1278.1	1491.9	2190.4	1322.0	1187.6	1202.8	1178.4	1343.6	2123.1	1391.5	1268.0
80°	1019.4	1104.6	1415.9	881.6	884.2	919.8	914.6	919.0	1396.7	1007.6	948.1
82.5°	732.4	838.5	1082.4	675.6	584.7	622.5	629.9	681.6	985.5	712.5	625.1
85°	375.6	511.2	995.9	585.1	365.6	303.0	348.6	537.8	855.9	426.9	304.7
87.5°	73.0	141.7	729.9	325.2	164.3	83.1	137.0	227.8	497.8	77.3	37.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	2210.5	2154.8	2102.7	2048.8	2007.0	1956.2	1906.2	1862.7	1820.5	1792.7	1801.4
5°	2156.6	2020.9	1899.2	1786.2	1720.1	1640.6	1569.7	1510.2	1464.0	1434.5	1452.4
7.5°	1911.0	1727.6	1567.2	1418.0	1324.1	1221.1	1138.5	1080.2	1044.6	1024.6	1053.7
10°	1659.7	1453.6	1273.7	1118.5	1025.9	938.6	863.8	802.0	754.2	731.6	743.4
12.5°	1479.7	1250.7	1062.0	957.7	878.1	799.8	722.5	650.3	589.4	561.6	556.0
15°	1412.4	1141.5	949.0	832.5	753.3	668.2	584.7	507.3	449.5	425.5	420.3
17.5°	1442.0	1118.1	882.0	744.2	629.4	526.0	432.1	359.1	316.5	303.0	304.3
20°	1545.8	1126.8	828.1	653.4	511.7	389.0	295.1	244.7	226.5	223.4	226.9
22.5°	1688.4	1162.4	789.0	575.1	407.7	282.9	219.5	195.6	190.9	190.4	193.8
25°	1876.6	1231.9	762.9	505.5	322.1	224.3	191.3	177.8	173.9	174.7	178.2
27.5°	2098.4	1320.2	745.9	445.6	264.7	200.0	178.7	166.9	163.1	163.9	166.5
30°	2300.9	1397.6	720.8	400.4	237.7	191.3	171.8	160.0	154.8	154.8	156.5
32.5°	2482.2	1464.6	691.2	366.4	213.0	171.8	155.6	146.5	142.6	143.9	144.7
35°	2643.0	1499.7	668.2	346.5	193.0	158.3	142.2	132.6	127.4	128.3	129.5
37.5°	2801.2	1513.3	652.9	335.6	178.7	150.0	135.2	127.4	121.7	120.8	120.4
40°	2951.6	1510.2	638.6	332.6	169.1	143.9	130.8	123.9	118.3	116.9	116.5
42.5°	3081.6	1500.2	625.1	324.3	162.5	139.5	127.4	121.3	115.6	113.9	113.0
45°	3200.3	1494.1	610.3	309.0	166.0	137.8	125.6	119.1	113.9	111.7	110.9
47.5°	3332.1	1515.8	593.8	292.6	165.2	138.2	125.6	118.3	113.0	110.9	110.0
50°	3489.0	1589.3	573.4	270.0	157.3	147.8	125.2	116.9	112.1	110.9	109.1
52.5°	3710.7	1708.4	545.1	240.8	151.3	157.8	124.8	114.8	110.9	108.6	106.5
55°	4014.5	1827.5	508.6	210.0	141.7	150.9	125.6	112.1	107.8	105.7	103.0
57.5°	4263.6	1917.9	462.6	184.3	133.0	142.6	124.3	109.1	104.3	102.2	99.9
60°	4247.5	1926.6	418.6	167.8	127.8	128.3	127.4	106.9	101.3	99.5	97.8
62.5°	3984.5	1819.2	377.8	159.6	123.9	116.9	130.0	104.3	98.2	96.5	95.2
65°	3546.8	1569.3	356.0	159.6	120.4	110.9	113.4	100.9	95.2	93.5	92.6
67.5°	2991.6	1261.1	335.6	163.1	115.6	106.5	103.0	97.4	92.2	90.4	89.5
70°	2397.8	992.5	321.2	161.3	111.3	101.7	97.4	92.6	87.4	87.0	86.0
72.5°	1881.0	797.3	314.8	161.3	104.8	96.1	91.8	88.3	83.1	82.6	81.3
75°	1507.1	598.6	287.8	158.3	98.2	88.7	84.8	81.7	76.5	76.9	76.1
77.5°	1167.2	423.4	240.4	142.6	90.0	80.4	77.3	75.2	69.2	69.6	69.6
80°	912.9	275.6	186.5	118.3	80.4	70.9	68.6	66.9	60.5	61.3	61.3
82.5°	625.5	163.9	135.2	95.2	69.2	60.5	59.9	57.4	50.4	50.8	51.8
85°	341.7	107.8	90.0	70.4	54.3	49.1	48.3	47.0	40.4	40.4	40.8
87.5°	63.0	57.8	53.0	46.5	36.5	35.2	33.9	35.2	30.4	29.6	29.6
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	1781.0	1751.0	1730.1	1711.9	1667.9	1671.0	1677.1	1685.8	1658.4	1672.7	1690.5
5°	1434.5	1409.7	1391.1	1362.0	1300.7	1278.9	1265.0	1258.9	1218.0	1226.7	1245.9
7.5°	1057.6	1057.2	1050.7	1018.0	944.2	899.4	869.8	860.7	835.5	845.1	874.2
10°	744.6	752.5	749.4	720.3	654.3	622.1	615.5	633.8	634.2	652.9	702.9
12.5°	538.2	533.8	529.9	506.0	456.4	451.2	466.1	491.2	497.3	517.3	569.5
15°	401.7	391.3	389.0	370.4	337.8	342.6	353.4	366.4	366.9	380.8	423.8
17.5°	301.3	301.3	304.7	292.6	269.0	266.9	261.3	257.8	252.6	258.2	281.7
20°	233.8	244.7	253.4	246.4	225.2	214.7	203.9	196.9	193.0	193.4	200.4
22.5°	200.4	209.1	220.4	217.0	199.1	185.7	178.7	173.9	170.8	170.8	174.7
25°	183.4	189.1	199.6	197.8	182.6	171.8	166.0	161.3	157.8	157.3	161.3
27.5°	170.0	173.5	180.4	179.5	163.9	156.9	153.4	150.4	148.2	147.8	151.7
30°	157.8	159.6	163.1	161.7	150.0	143.0	141.7	140.5	139.1	139.5	145.2
32.5°	146.9	148.2	150.4	148.6	137.4	131.2	129.1	127.4	126.0	127.4	133.9
35°	134.7	138.7	141.3	140.5	128.3	120.8	116.1	111.7	110.0	111.3	118.7
37.5°	124.3	130.8	134.3	133.5	120.8	112.1	106.1	105.2	105.2	106.9	114.4
40°	120.4	125.2	128.3	126.9	114.4	105.7	102.2	100.9	101.3	103.0	110.9
42.5°	116.9	121.3	122.1	119.6	106.9	101.3	99.1	97.4	98.2	100.5	108.2
45°	113.9	117.3	116.9	113.0	100.9	97.0	97.0	95.6	96.1	97.8	106.1
47.5°	111.7	113.4	112.6	108.6	96.5	93.5	94.7	94.7	95.6	97.0	105.2
50°	108.2	109.6	108.6	105.2	93.0	90.4	91.8	93.5	94.3	95.6	103.0
52.5°	104.8	105.7	105.2	101.7	89.5	87.8	87.8	89.5	91.2	93.0	99.5
55°	101.3	102.2	102.6	99.9	87.0	85.2	84.8	84.8	86.5	89.1	96.1
57.5°	98.7	98.7	99.5	97.8	84.3	82.1	80.0	80.4	82.6	84.8	91.8
60°	95.6	96.1	97.4	95.6	80.8	77.3	75.6	77.8	78.7	80.8	88.3
62.5°	93.0	93.0	93.9	92.6	77.8	74.4	73.0	75.2	75.2	77.3	84.8
65°	90.8	90.4	90.4	90.0	74.8	71.3	70.4	71.3	71.7	73.9	81.3
67.5°	89.1	87.0	87.0	87.8	71.7	68.2	67.8	67.8	68.2	70.9	77.3
70°	85.2	83.5	83.1	86.0	68.6	64.3	64.3	63.4	64.3	65.7	72.6
72.5°	80.8	79.6	79.1	83.5	65.7	59.9	59.1	58.7	59.1	60.5	66.9
75°	75.2	74.4	75.2	81.7	62.6	55.2	53.9	53.5	53.5	53.9	60.9
77.5°	68.6	67.8	74.4	76.1	60.9	49.5	48.3	47.4	46.5	46.5	54.3
80°	60.9	60.5	71.7	64.3	58.2	43.5	41.3	40.0	39.1	38.7	46.5
82.5°	53.0	52.2	61.3	50.4	48.3	35.6	32.6	30.0	28.6	28.6	35.6
85°	43.5	43.1	48.3	36.9	33.5	26.1	21.7	19.5	17.8	17.8	23.0
87.5°	31.7	30.9	30.0	22.2	17.0	11.8	8.3	7.8	7.0	6.5	9.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	1717.1	1753.1	1821.5	1877.5	1952.3	2012.2	2080.5	2110.0
5°	1281.0	1338.0	1442.4	1531.5	1654.9	1769.3	1899.6	1970.9
7.5°	919.0	1003.3	1082.4	1193.7	1348.0	1501.5	1670.2	1764.5
10°	760.3	837.7	905.5	984.6	1103.8	1276.3	1477.6	1584.0
12.5°	629.9	713.3	785.1	869.8	969.9	1125.9	1355.4	1479.3
15°	482.9	573.8	659.9	762.0	884.6	1062.8	1318.9	1457.1
17.5°	330.8	428.2	534.3	659.0	806.8	1036.4	1353.7	1524.1
20°	224.7	296.0	411.2	559.0	736.8	1023.8	1430.2	1661.9
22.5°	184.7	217.0	303.4	465.1	679.4	1037.7	1554.5	1843.2
25°	169.5	186.9	236.0	382.6	635.6	1074.6	1722.8	2047.9
27.5°	160.0	174.7	206.9	323.5	595.2	1125.0	1927.4	2298.3
30°	154.4	168.3	195.2	293.0	558.1	1168.5	2103.6	2487.0
32.5°	141.7	152.1	174.3	275.6	531.6	1203.7	2258.8	2663.5
35°	126.5	139.1	157.3	264.3	530.8	1220.2	2404.8	2858.6
37.5°	120.8	133.0	146.5	258.2	536.0	1234.1	2583.5	3079.9
40°	117.3	128.3	139.1	257.4	540.3	1245.0	2758.2	3310.3
42.5°	114.4	125.2	137.8	251.2	538.6	1259.8	2913.0	3508.1
45°	113.4	124.3	140.9	242.1	538.2	1282.8	3036.0	3666.4
47.5°	112.6	129.1	139.9	232.1	536.4	1331.5	3174.6	3813.7
50°	111.7	137.8	133.9	218.2	523.3	1414.5	3361.1	3982.3
52.5°	111.3	139.1	127.4	199.1	499.9	1537.6	3634.1	4217.1
55°	109.6	132.2	116.1	173.9	466.1	1670.2	3926.7	4493.1
57.5°	105.7	117.8	109.6	149.1	417.4	1762.7	4142.7	4706.6
60°	115.2	101.3	105.2	136.5	359.1	1779.2	4152.4	4766.5
62.5°	110.0	92.2	100.9	132.2	318.2	1671.4	3962.4	4694.8
65°	87.8	87.4	97.0	136.5	312.1	1430.2	3641.5	4482.3
67.5°	80.0	83.9	93.0	141.7	316.0	1126.8	3169.4	3985.8
70°	74.8	79.6	87.8	146.5	322.9	887.7	2551.8	3241.6
72.5°	69.6	73.4	82.6	151.3	318.2	700.3	2042.2	2496.9
75°	63.0	66.5	75.2	138.7	273.0	514.6	1622.8	1773.2
77.5°	55.6	58.7	66.1	109.6	205.2	358.2	1215.5	1278.1
80°	47.8	49.1	54.7	80.0	133.9	214.3	925.1	1019.4
82.5°	37.8	38.3	41.7	58.7	83.5	137.0	641.6	732.4
85°	24.3	25.2	26.9	41.3	56.1	87.8	327.8	375.6
87.5°	8.3	9.5	9.5	19.9	27.4	48.7	100.5	73.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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