

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: P271334

Luminaire Tested: **XNV2-AF-02-LED-U-SLR-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271334
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: XNV2-AF-02-LED-U-SLR-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6095.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' 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

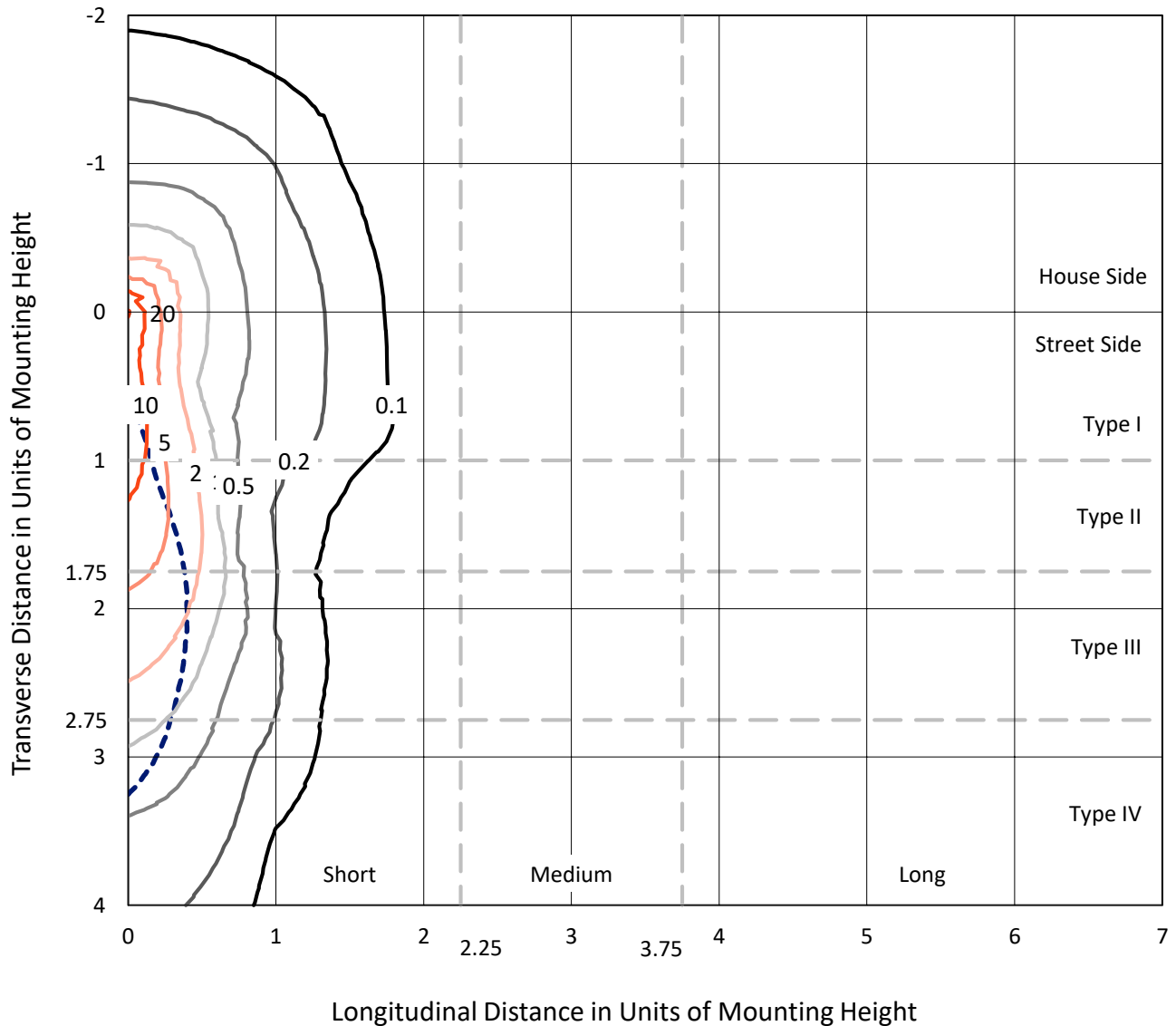


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

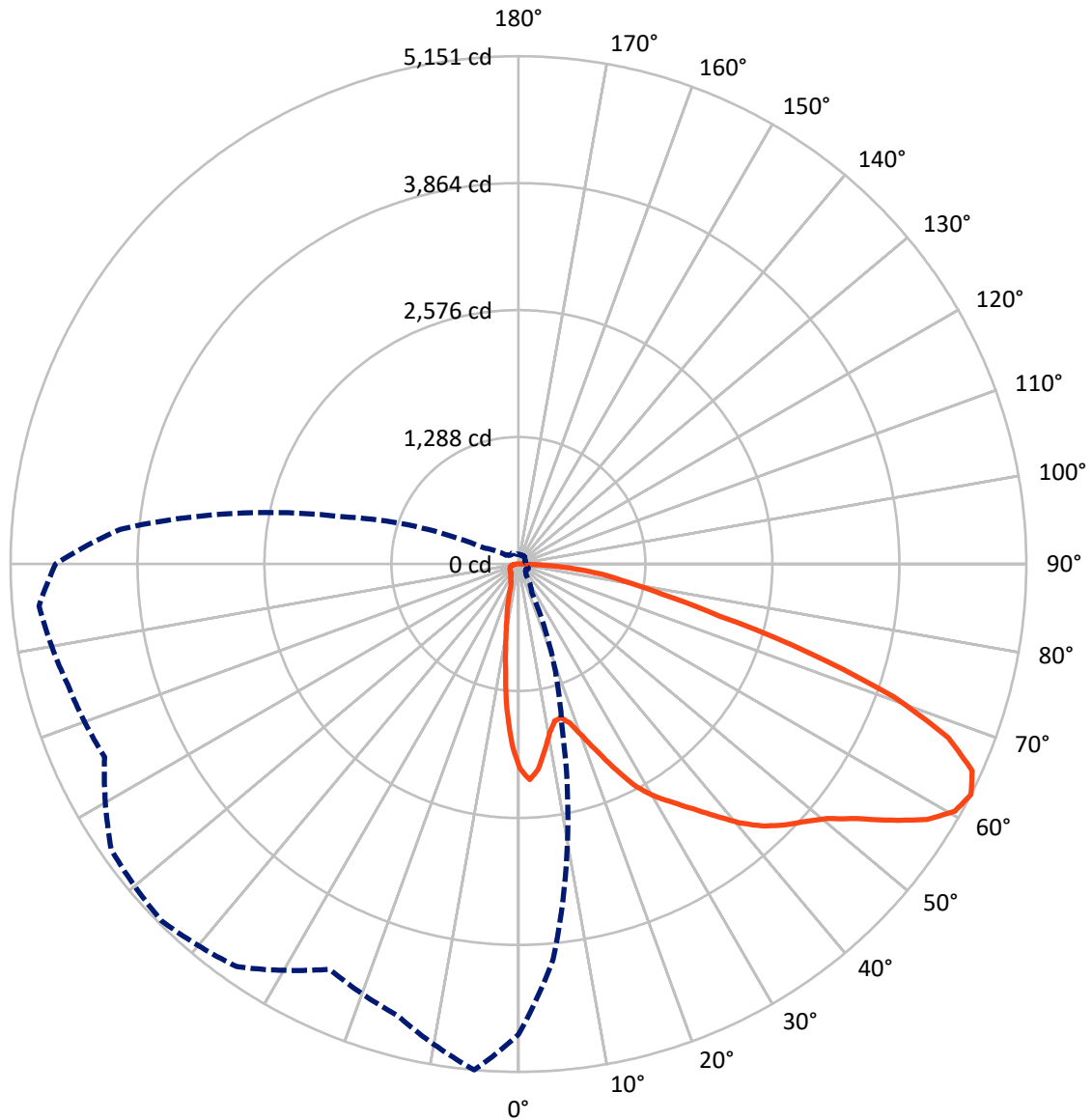


Based on 10 foot mounting height. Maximum calculated value = 20.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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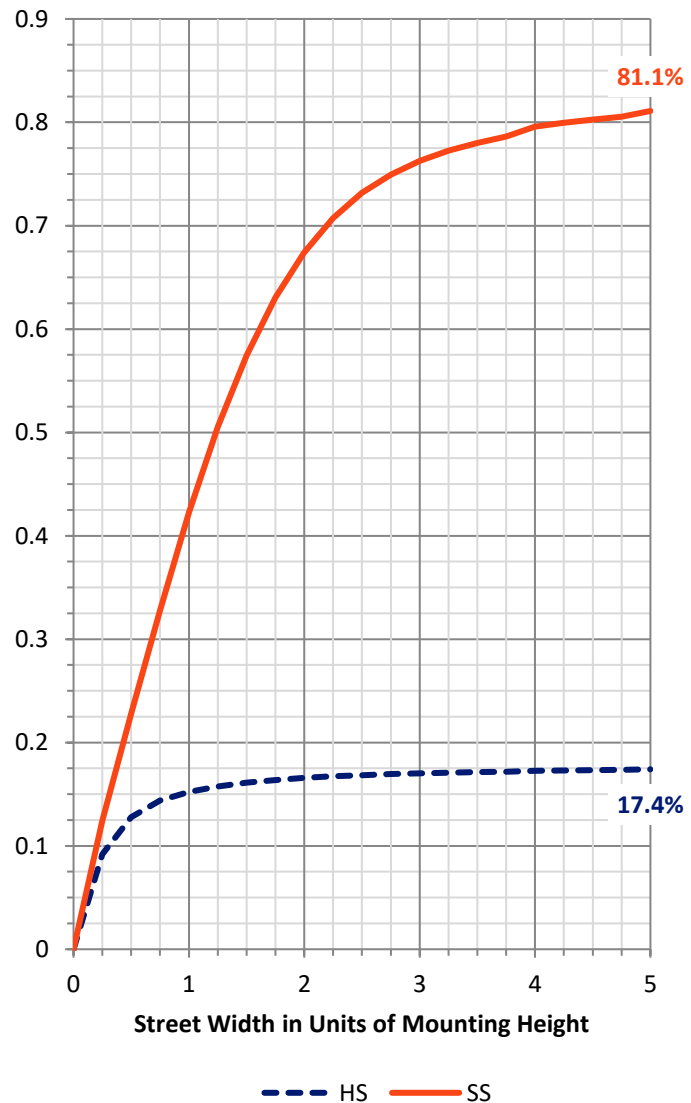
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1079.9	0.0	1079.9
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	5016.0	0.0	5016.0
	% Fixture	82.3	0.0	82.3
Total	Lumens	6095.9	0.0	6095.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.1	2.5
10°-20°	276.1	4.5
20°-30°	397.0	6.5
30°-40°	608.1	10.0
40°-50°	889.1	14.6
50°-60°	1293.6	21.2
60°-70°	1498.8	24.6
70°-80°	781.3	12.8
80°-90°	200.8	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°	6095.9	100.0
0°-180°	6095.9	100.0



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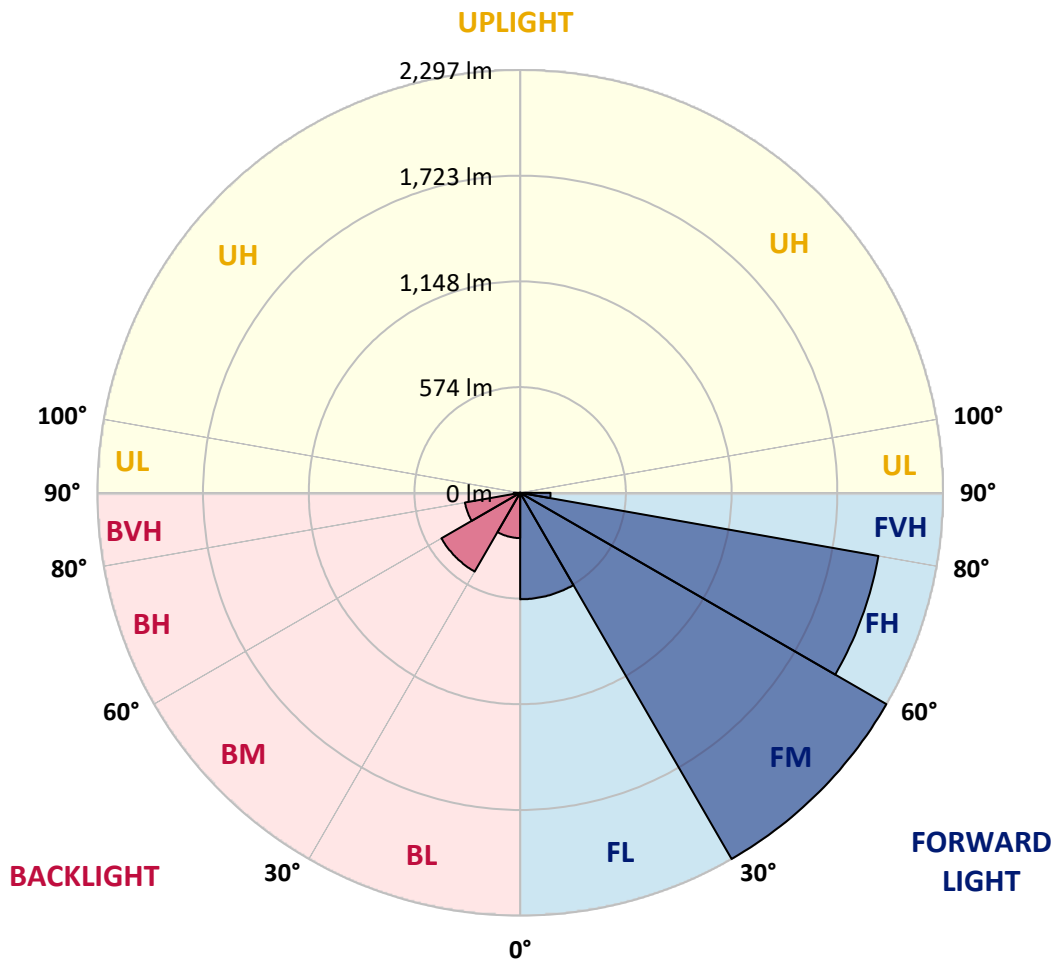
CATALOG NUMBER: XNV2-AF-02-LED-U-SLR-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	578.5	9.5			
FM	(30°-60°)	2296.7	37.7			
FH	(60°-80°)	1975.6	32.4			G2/5000
FVH	(80°-90°)	165.2	2.7			G2/225
BL	(0°-30°)	245.7	4.0	B1/500		
BM	(30°-60°)	494.1	8.1	B1/1000		
BH	(60°-80°)	304.5	5.0	B1/500		G1/500
BVH	(80°-90°)	35.6	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°	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	2145.4	2115.4	2046.0	1985.0	1909.0	1851.9	1782.5	1745.9	1718.8	1700.9	1686.2
5°	2003.9	1931.4	1798.9	1682.6	1557.1	1466.6	1360.5	1302.5	1266.7	1247.2	1238.5
7.5°	1794.1	1698.2	1526.6	1370.6	1213.7	1100.6	1020.1	934.3	888.9	859.1	849.4
10°	1610.7	1502.3	1297.7	1122.3	1001.2	920.7	851.8	773.0	714.7	663.8	644.9
12.5°	1504.1	1378.1	1144.8	986.1	884.4	798.2	725.3	640.4	579.0	526.0	505.7
15°	1481.6	1341.0	1080.8	899.5	774.8	670.9	583.4	491.1	430.9	387.2	373.1
17.5°	1549.7	1376.4	1053.7	820.3	670.0	543.3	435.4	336.3	286.4	262.6	256.7
20°	1689.7	1454.1	1040.9	749.1	568.4	418.2	301.0	228.4	203.7	196.6	196.2
22.5°	1874.0	1580.6	1055.0	690.8	473.0	308.5	220.5	187.8	177.7	173.7	173.7
25°	2082.2	1751.7	1092.6	646.2	389.0	239.9	190.0	172.4	164.0	160.0	160.4
27.5°	2336.9	1959.8	1143.9	605.1	328.8	210.5	177.7	162.7	154.2	150.2	150.7
30°	2528.5	2138.8	1188.1	567.5	297.9	198.4	171.0	156.9	147.6	141.9	141.5
32.5°	2708.1	2296.5	1223.9	540.6	280.2	177.2	154.7	144.1	136.2	129.4	128.2
35°	2906.6	2445.0	1240.6	539.7	268.8	160.0	141.5	128.5	120.6	113.1	111.7
37.5°	3131.5	2626.7	1254.8	545.0	262.6	148.9	135.3	122.9	116.2	108.8	107.0
40°	3365.8	2804.4	1265.8	549.5	261.6	141.5	130.3	119.4	112.6	104.7	102.9
42.5°	3566.9	2961.8	1281.0	547.6	255.5	140.1	127.3	116.2	110.0	102.0	99.9
45°	3727.7	3086.8	1304.2	547.2	246.1	143.2	126.4	115.3	107.8	99.4	97.6
47.5°	3877.5	3227.9	1353.8	545.5	236.1	142.3	131.2	114.4	107.0	98.5	97.2
50°	4049.1	3417.5	1438.2	532.2	221.9	136.2	140.1	113.5	104.7	97.2	95.8
52.5°	4287.8	3695.1	1563.3	508.4	202.5	129.4	141.5	113.1	101.1	94.6	92.9
55°	4568.4	3992.4	1698.2	473.9	176.7	117.9	134.3	111.4	97.6	90.5	87.9
57.5°	4785.5	4212.2	1792.3	424.3	151.6	111.4	119.7	107.3	93.2	86.1	84.0
60°	4846.4	4221.9	1809.0	365.2	138.8	107.0	102.9	117.0	89.7	82.3	79.9
62.5°	4773.6	4028.8	1699.5	323.5	134.3	102.5	93.8	111.7	86.1	78.7	76.4
65°	4557.5	3702.5	1454.1	317.3	138.8	98.5	88.8	89.3	82.6	75.2	72.9
67.5°	4052.7	3222.6	1145.7	321.4	144.1	94.6	85.2	81.3	78.7	72.0	69.3
70°	3295.9	2594.5	902.5	328.4	148.9	89.3	80.8	76.0	73.8	66.7	65.3
72.5°	2538.8	2076.5	712.0	323.5	153.8	84.0	74.6	70.7	68.1	61.4	60.0
75°	1802.9	1649.9	523.4	277.5	141.0	76.4	67.6	64.0	61.9	54.7	54.3
77.5°	1299.5	1235.8	364.3	208.6	111.4	67.3	59.6	56.6	55.2	47.3	47.3
80°	1036.5	940.5	217.8	136.2	81.3	55.7	49.9	48.6	47.3	39.3	39.7
82.5°	744.8	652.3	139.2	84.9	59.6	42.4	38.8	38.4	36.2	29.1	29.1
85°	381.9	333.2	89.3	57.0	42.0	27.4	25.6	24.8	23.4	18.1	18.1
87.5°	74.3	102.0	49.4	27.8	20.3	9.7	9.7	8.4	9.7	6.6	7.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	1714.1	1705.3	1699.1	1695.9	1740.6	1759.2	1780.4	1810.9	1831.6	1822.8	1851.0
5°	1280.1	1286.3	1300.3	1322.5	1384.7	1414.4	1433.3	1458.6	1476.8	1458.6	1488.6
7.5°	875.2	884.4	914.5	960.0	1035.1	1068.3	1074.9	1075.5	1071.4	1041.8	1062.1
10°	644.4	625.8	632.4	665.1	732.4	762.0	765.0	757.1	755.8	743.8	766.9
12.5°	499.5	473.9	458.8	464.1	514.5	538.9	542.8	547.2	565.4	571.1	599.3
15°	372.5	359.3	348.4	343.4	376.6	395.6	397.8	408.4	427.5	432.8	457.0
17.5°	262.0	265.5	271.4	273.7	297.5	309.8	306.3	306.3	309.3	308.1	321.8
20°	200.2	207.2	218.4	229.0	250.5	257.6	248.8	237.8	230.8	227.2	230.2
22.5°	176.7	181.6	188.7	202.5	220.5	224.0	212.5	203.7	197.1	193.6	194.0
25°	164.0	168.8	174.6	185.6	201.1	202.8	192.2	186.5	181.2	177.7	176.7
27.5°	152.9	156.0	159.5	166.6	182.5	183.4	176.3	172.8	169.3	166.6	165.7
30°	142.8	144.1	145.4	152.5	164.4	165.7	162.2	160.4	159.1	157.4	157.4
32.5°	129.4	131.2	133.5	139.6	151.2	152.9	150.7	149.4	147.2	146.3	144.9
35°	113.5	117.9	122.9	130.3	142.8	143.6	141.0	137.0	131.7	130.3	129.4
37.5°	107.0	107.8	114.1	122.9	135.7	136.6	132.9	126.4	122.3	122.9	123.7
40°	102.5	103.8	107.3	116.2	129.0	130.3	127.3	122.3	118.4	118.8	120.3
42.5°	99.1	100.8	102.9	108.8	121.5	124.1	123.2	118.8	115.0	115.8	117.6
45°	97.2	98.5	98.5	102.5	115.0	118.8	119.4	115.8	112.6	113.5	115.8
47.5°	96.4	96.4	95.0	98.2	110.5	114.4	115.3	113.5	111.7	112.6	115.0
50°	95.0	93.2	91.9	94.6	107.0	110.5	111.4	110.0	110.9	112.6	114.1
52.5°	91.1	89.3	89.3	91.1	103.5	107.0	107.3	106.4	108.2	110.5	112.6
55°	86.1	86.1	86.6	88.5	101.7	104.4	103.8	102.9	104.7	107.3	109.7
57.5°	81.7	81.3	83.5	85.8	99.4	101.1	100.3	100.3	101.7	103.8	106.1
60°	79.1	77.0	78.7	82.3	97.2	99.1	97.6	97.2	99.4	101.1	102.9
62.5°	76.4	74.3	75.5	79.1	94.1	95.5	94.6	94.6	96.7	98.2	99.9
65°	72.6	71.7	72.6	76.0	91.4	91.9	91.9	92.3	94.1	95.0	96.7
67.5°	69.0	69.0	69.3	72.9	89.3	88.5	88.5	90.5	91.1	91.9	93.8
70°	64.5	65.3	65.3	69.9	87.6	84.4	84.9	86.6	87.6	88.5	88.8
72.5°	59.6	60.0	60.9	66.7	84.9	80.5	80.8	82.3	82.6	84.0	84.4
75°	54.3	54.7	56.1	63.6	83.2	76.4	75.5	76.4	77.3	78.2	77.9
77.5°	48.1	49.0	50.3	61.9	77.3	75.5	69.0	69.9	70.7	70.7	70.2
80°	40.7	42.0	44.1	59.2	65.3	72.9	61.4	61.9	62.3	62.3	61.4
82.5°	30.5	33.1	36.2	49.0	51.3	62.3	53.0	53.9	52.6	51.7	51.3
85°	19.9	22.1	26.5	34.0	37.5	49.0	43.7	44.1	41.5	41.1	41.1
87.5°	7.9	8.4	11.9	17.2	22.5	30.5	31.4	32.2	30.1	30.1	30.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	1893.9	1938.2	1988.9	2040.7	2083.1	2137.8	2191.0	2247.5	2276.2	2293.1	2340.4
5°	1535.5	1596.0	1668.1	1749.0	1816.2	1931.0	2054.9	2192.8	2259.0	2324.5	2448.2
7.5°	1098.4	1157.6	1241.5	1346.3	1441.8	1593.4	1756.5	1943.0	2034.9	2141.0	2343.9
10°	815.5	878.3	954.3	1043.1	1137.3	1295.0	1478.0	1687.6	1788.7	1908.4	2139.3
12.5°	661.2	734.5	813.2	892.8	973.8	1079.9	1271.6	1504.5	1613.3	1733.9	1965.1
15°	515.7	594.5	679.4	766.0	846.5	964.9	1160.7	1436.0	1560.3	1677.0	1866.0
17.5°	365.2	439.4	534.9	640.0	756.7	896.8	1136.7	1466.0	1616.8	1738.8	1865.6
20°	248.8	300.2	395.6	520.2	664.2	842.0	1145.7	1571.8	1760.0	1893.9	1942.1
22.5°	198.9	223.1	287.7	414.6	584.7	802.1	1181.9	1716.8	1965.5	2128.7	2081.4
25°	180.7	194.5	228.1	327.5	514.0	775.6	1252.5	1908.1	2195.7	2361.1	2248.8
27.5°	169.7	181.6	203.3	269.2	453.0	758.4	1342.3	2133.5	2455.2	2590.9	2423.4
30°	162.7	174.6	194.5	241.7	407.1	732.7	1420.9	2339.5	2662.5	2750.5	2517.6
32.5°	148.9	158.2	174.6	216.6	372.5	702.7	1489.1	2523.8	2858.3	2887.5	2630.7
35°	134.8	144.5	160.8	196.2	352.2	679.4	1524.9	2687.3	3052.4	3024.6	2743.1
37.5°	129.4	137.5	152.5	181.6	341.3	663.8	1538.5	2848.2	3260.6	3176.1	2821.2
40°	125.9	132.9	146.3	171.9	338.1	649.3	1535.5	3001.1	3462.5	3333.0	2882.8
42.5°	123.2	129.4	141.9	165.3	329.7	635.6	1525.3	3133.3	3624.3	3468.3	2941.4
45°	121.1	127.6	140.1	168.8	314.2	620.5	1519.2	3253.9	3748.5	3582.4	3020.1
47.5°	120.3	127.6	140.6	168.0	297.5	603.8	1541.2	3387.9	3856.9	3678.2	3124.8
50°	118.8	127.3	150.2	160.0	274.5	583.0	1616.0	3547.4	3970.4	3786.0	3260.6
52.5°	116.7	126.8	160.4	153.8	244.9	554.3	1737.1	3772.8	4166.7	3996.0	3461.2
55°	114.1	127.6	153.4	144.1	213.4	517.2	1858.1	4081.8	4484.9	4334.6	3749.4
57.5°	110.9	126.4	144.9	135.3	187.3	470.4	1950.1	4335.0	4747.5	4683.9	4103.5
60°	108.8	129.4	130.3	130.0	170.6	425.6	1958.9	4318.7	4823.0	4910.6	4449.9
62.5°	106.1	132.1	118.8	125.9	162.2	384.0	1849.7	4051.3	4695.4	4881.3	4732.5
65°	102.5	115.3	112.6	122.3	162.2	361.9	1595.6	3606.2	4342.0	4605.5	4885.8
67.5°	99.1	104.7	108.2	117.6	165.7	341.3	1282.2	3041.8	3785.2	4160.5	4713.3
70°	94.1	99.1	103.5	113.1	164.0	326.7	1009.1	2438.0	3115.1	3544.7	4236.4
72.5°	89.7	93.2	97.6	106.4	164.0	319.9	810.6	1912.5	2378.4	2740.3	3509.4
75°	83.2	86.1	90.2	99.9	160.8	292.6	608.6	1532.4	1740.1	1966.8	2769.0
77.5°	76.4	78.7	81.7	91.4	144.9	244.3	430.5	1186.8	1289.2	1414.8	2158.6
80°	68.1	69.9	72.0	81.7	120.3	189.6	280.2	928.2	964.1	1024.5	1420.1
82.5°	58.3	60.9	61.4	70.2	96.7	137.5	166.6	636.0	635.6	724.5	1002.0
85°	47.7	49.0	49.9	55.2	71.7	91.4	109.7	347.5	309.8	434.1	870.3
87.5°	35.8	34.5	35.8	37.1	47.3	53.9	58.7	64.0	38.4	78.7	506.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	2365.5	2391.6	2376.1	2357.6	2311.2	2243.1	2191.0	2145.4
5°	2533.8	2582.1	2560.9	2492.0	2371.7	2235.2	2091.6	2003.9
7.5°	2512.6	2608.1	2599.8	2484.9	2312.4	2111.3	1909.3	1794.1
10°	2343.0	2476.9	2500.0	2382.3	2199.8	1974.8	1741.1	1610.7
12.5°	2158.3	2270.9	2317.7	2273.2	2101.2	1872.6	1634.5	1504.1
15°	2003.5	2060.5	2107.0	2135.7	2029.2	1836.5	1616.0	1481.6
17.5°	1889.0	1878.0	1917.0	1985.9	1990.3	1884.6	1700.0	1549.7
20°	1833.8	1747.3	1769.8	1866.5	1979.7	2007.2	1867.3	1689.7
22.5°	1830.7	1695.6	1700.0	1804.2	2010.1	2174.2	2076.5	1874.0
25°	1878.4	1689.7	1693.8	1797.6	2064.0	2342.6	2318.3	2082.2
27.5°	1959.8	1714.4	1711.8	1826.8	2136.1	2483.2	2562.2	2336.9
30°	2047.7	1750.3	1743.7	1873.7	2206.9	2569.7	2735.5	2528.5
32.5°	2157.4	1813.9	1791.0	1942.1	2276.8	2652.9	2883.6	2708.1
35°	2261.7	1907.2	1874.0	2040.2	2351.5	2745.2	3049.2	2906.6
37.5°	2368.2	2046.3	2027.8	2181.7	2457.0	2845.6	3238.8	3131.5
40°	2504.7	2244.4	2235.6	2387.2	2598.0	2955.2	3451.5	3365.8
42.5°	2651.9	2454.8	2447.3	2623.2	2773.1	3065.1	3633.6	3566.9
45°	2801.8	2709.8	2711.7	2875.1	2957.4	3169.1	3776.8	3727.7
47.5°	2978.6	2988.8	3051.9	3136.3	3136.8	3284.9	3903.7	3877.5
50°	3203.0	3325.5	3442.2	3455.5	3318.0	3437.9	4058.8	4049.1
52.5°	3457.2	3714.0	3849.7	3807.7	3494.9	3627.4	4288.1	4287.8
55°	3759.1	4120.3	4247.9	4176.4	3706.5	3874.5	4587.9	4568.4
57.5°	4072.0	4511.0	4614.0	4520.7	3971.2	4162.2	4888.4	4785.5
60°	4410.1	4847.3	4952.0	4812.0	4268.2	4449.0	5087.3	4846.4
62.5°	4631.7	5044.1	5119.1	4984.8	4534.4	4741.3	5151.4	4773.6
65°	4643.1	4913.2	4933.0	4885.3	4647.6	4994.9	5058.5	4557.5
67.5°	4327.6	4343.5	4369.5	4420.7	4405.7	4881.7	4700.7	4052.7
70°	3652.6	3440.5	3526.1	3575.8	3687.2	4342.0	4038.9	3295.9
72.5°	2792.9	2483.2	2580.3	2563.6	2795.2	3561.6	3090.0	2538.8
75°	2010.1	1693.2	1700.9	1701.7	2008.4	2842.9	2107.0	1802.9
77.5°	1366.2	1198.2	1223.0	1207.5	1344.1	2227.2	1516.9	1299.5
80°	934.3	929.9	935.2	899.1	896.4	1439.5	1123.2	1036.5
82.5°	693.0	640.4	632.9	594.5	686.8	1100.6	852.6	744.8
85°	546.8	354.6	308.1	371.7	594.9	1012.6	519.8	381.9
87.5°	231.7	139.2	84.4	167.1	330.5	742.1	144.1	74.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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