

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: P271253

Luminaire Tested: **XNV-AF-01-LED-U-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271253
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-SLR-7027
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4641.4 lumens
Efficiency: N/A
Efficacy: 80.0 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): 58
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

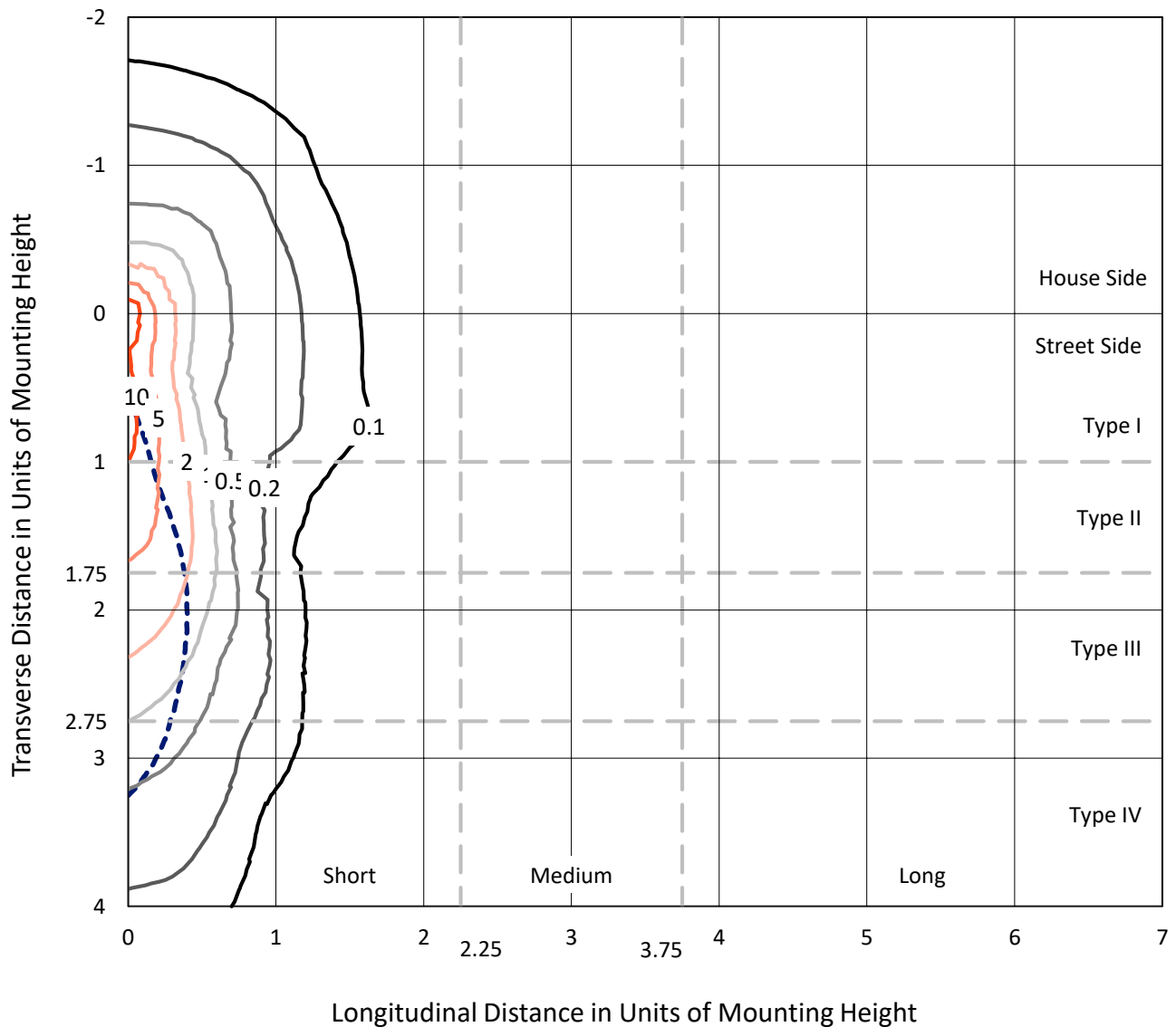


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Iso-Footcandle Lines of Horizontal Illumination

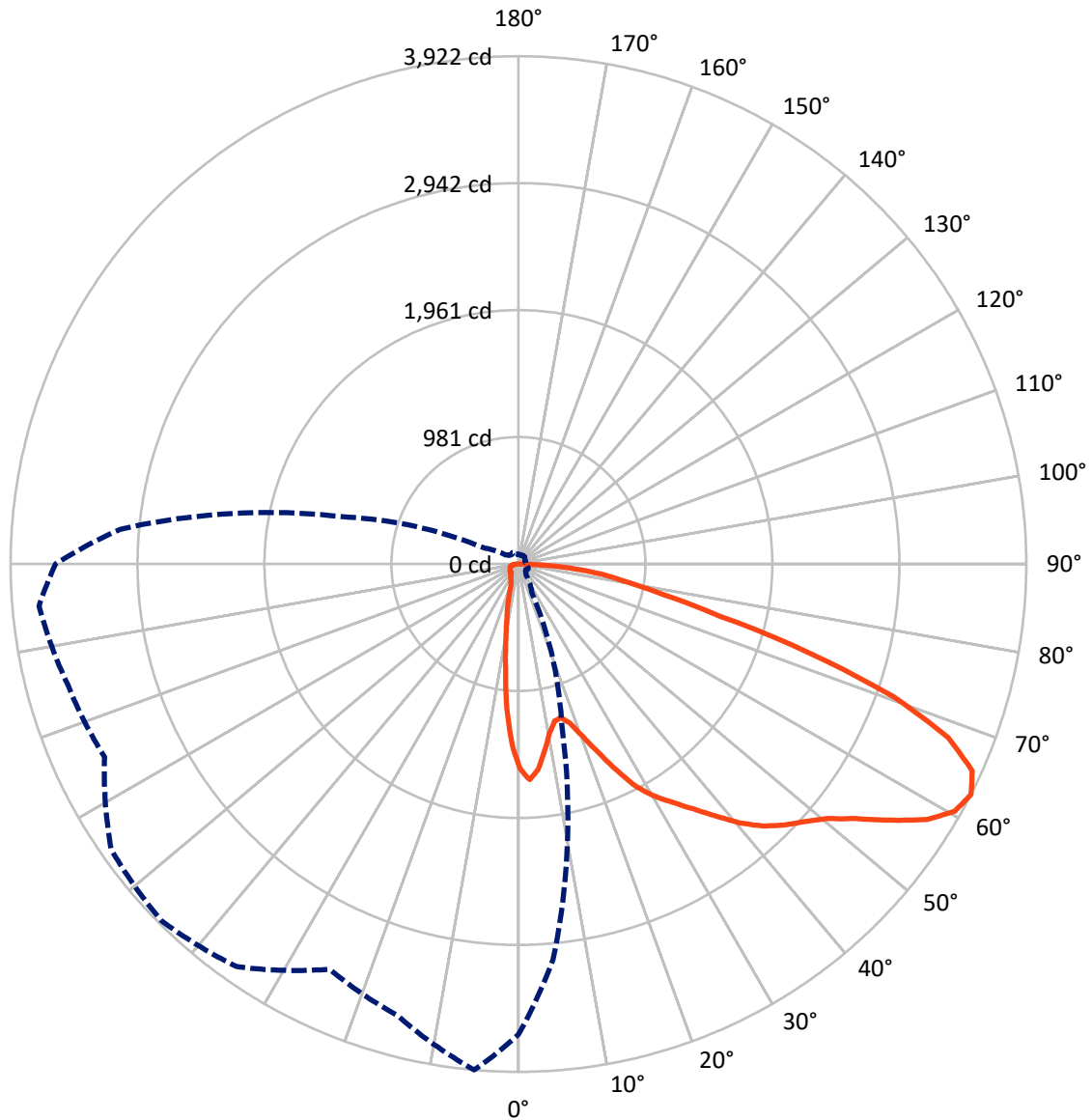
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.8 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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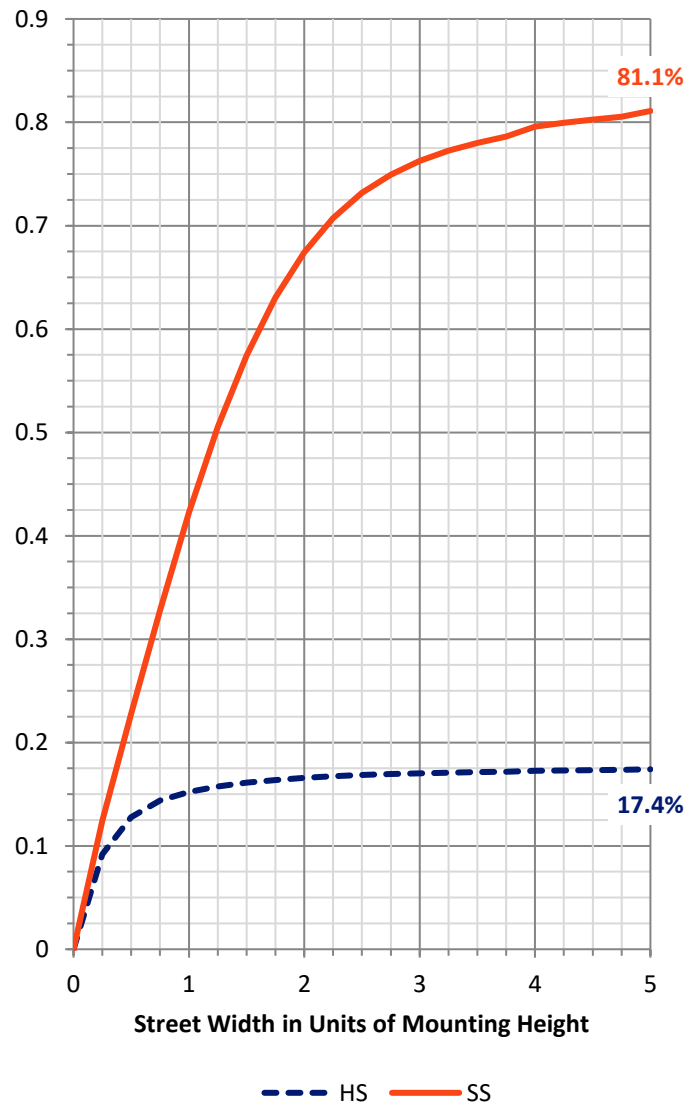
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.2	0.0	822.2
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	3819.2	0.0	3819.2
	% Fixture	82.3	0.0	82.3
Total	Lumens	4641.4	0.0	4641.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	2.5
10°-20°	210.2	4.5
20°-30°	302.3	6.5
30°-40°	463.0	10.0
40°-50°	676.9	14.6
50°-60°	984.9	21.2
60°-70°	1141.2	24.6
70°-80°	594.9	12.8
80°-90°	152.9	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°	4641.4	100.0
0°-180°	4641.4	100.0



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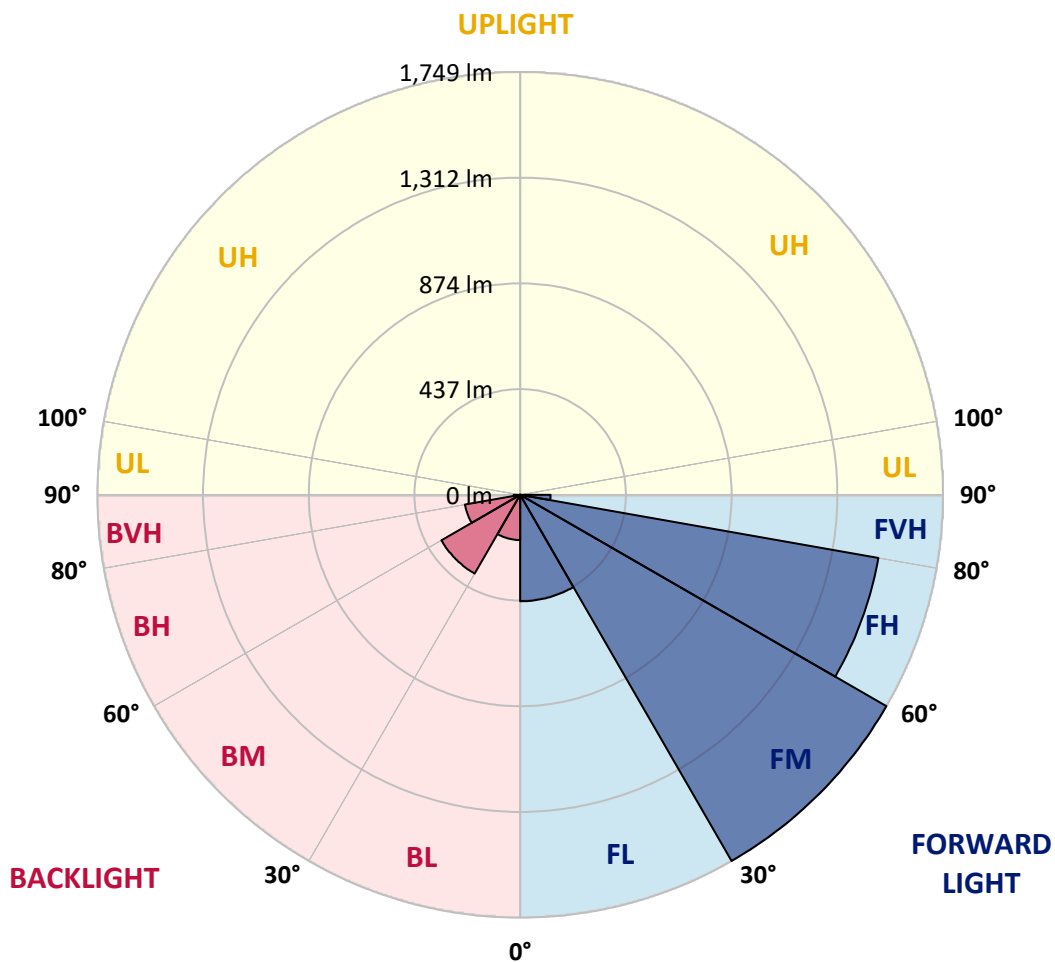
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.5	9.5			
FM	(30°-60°)	1748.7	37.7			
FH	(60°-80°)	1504.2	32.4			G1/1800
FVH	(80°-90°)	125.8	2.7			G2/225
BL	(0°-30°)	187.1	4.0	B1/500		
BM	(30°-60°)	376.2	8.1	B1/1000		
BH	(60°-80°)	231.8	5.0	B1/500		G1/500
BVH	(80°-90°)	27.1	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°	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4
2.5°	1633.5	1610.7	1557.8	1511.4	1453.5	1410.1	1357.2	1329.3	1308.8	1294.9	1283.9
5°	1525.9	1470.6	1369.6	1281.2	1185.7	1116.7	1035.8	991.8	964.5	949.7	943.0
7.5°	1366.0	1292.9	1162.3	1043.7	924.0	837.9	776.8	711.4	676.8	654.2	646.8
10°	1226.2	1143.8	988.0	854.5	762.2	700.9	648.4	588.6	544.2	505.4	491.1
12.5°	1145.2	1049.3	871.6	750.9	673.4	607.8	552.3	487.6	440.9	400.5	385.1
15°	1128.0	1021.1	822.8	684.9	589.9	510.9	444.2	373.9	328.2	294.9	284.0
17.5°	1179.8	1048.0	802.2	624.6	510.1	413.6	331.5	256.0	218.1	200.0	195.6
20°	1286.6	1107.3	792.6	570.5	432.8	318.4	229.2	174.0	155.1	149.7	149.4
22.5°	1426.9	1203.4	803.3	526.0	360.1	234.8	168.0	143.0	135.3	132.3	132.3
25°	1585.4	1333.7	831.9	492.0	296.1	182.7	144.6	131.2	124.9	121.8	122.2
27.5°	1779.3	1492.2	870.9	460.7	250.4	160.2	135.3	123.8	117.5	114.4	114.8
30°	1925.2	1628.4	904.7	432.2	226.8	151.2	130.3	119.5	112.4	108.1	107.6
32.5°	2061.9	1748.6	931.8	411.6	213.3	134.9	117.8	109.8	103.7	98.6	97.6
35°	2213.1	1861.6	944.7	411.0	204.6	121.8	107.6	97.9	91.8	86.1	85.1
37.5°	2384.3	1999.9	955.3	414.9	200.0	113.4	102.9	93.6	88.6	82.7	81.4
40°	2562.7	2135.4	963.8	418.3	199.2	107.6	99.3	90.9	85.8	79.8	78.4
42.5°	2715.8	2255.0	975.3	417.0	194.6	106.7	96.8	88.6	83.8	77.8	76.0
45°	2838.3	2350.3	993.0	416.6	187.4	109.1	96.3	87.9	82.1	75.6	74.4
47.5°	2952.4	2457.7	1030.7	415.2	179.8	108.3	99.9	87.1	81.4	75.1	74.0
50°	3083.0	2602.0	1095.0	405.1	168.9	103.7	106.7	86.4	79.8	74.0	73.0
52.5°	3264.7	2813.4	1190.3	387.0	154.1	98.6	107.6	86.1	77.1	72.0	70.6
55°	3478.3	3039.9	1292.9	360.8	134.7	89.8	102.2	84.8	74.4	69.0	67.0
57.5°	3643.5	3207.0	1364.6	323.1	115.4	84.8	91.2	81.7	71.0	65.7	63.9
60°	3690.1	3214.6	1377.5	277.9	105.7	81.4	78.4	89.2	68.4	62.6	60.9
62.5°	3634.5	3067.4	1294.0	246.3	102.2	78.1	71.3	85.1	65.7	59.8	58.2
65°	3470.0	2819.2	1107.3	241.6	105.7	75.1	67.6	68.0	62.9	57.2	55.5
67.5°	3085.6	2453.6	872.3	244.7	109.8	72.0	64.9	62.0	59.8	54.8	52.8
70°	2509.4	1975.5	687.3	250.1	113.4	68.0	61.5	57.9	56.2	50.8	49.8
72.5°	1933.1	1580.9	542.1	246.3	117.0	63.9	56.9	53.9	51.8	46.8	45.8
75°	1372.7	1256.3	398.5	211.3	107.3	58.2	51.6	48.8	47.2	41.7	41.4
77.5°	989.5	941.0	277.2	158.8	84.8	51.2	45.5	43.1	42.1	36.0	36.0
80°	789.2	716.0	165.8	103.7	62.0	42.4	38.0	37.0	36.0	30.0	30.4
82.5°	567.0	496.8	106.0	64.6	45.5	32.2	29.6	29.3	27.6	22.2	22.2
85°	290.7	253.7	68.0	43.4	32.0	20.9	19.6	18.9	17.8	13.8	13.8
87.5°	56.6	77.8	37.6	21.2	15.5	7.4	7.4	6.4	7.4	5.0	5.4
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°	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4
2.5°	1305.1	1298.3	1293.6	1291.3	1325.3	1339.5	1355.5	1378.8	1394.6	1387.8	1409.4
5°	974.7	979.3	990.0	1006.9	1054.3	1076.9	1091.4	1110.6	1124.4	1110.6	1133.4
7.5°	666.4	673.4	696.2	731.0	788.2	813.3	818.4	818.7	815.8	793.3	808.7
10°	490.7	476.6	481.6	506.5	557.6	580.1	582.6	576.4	575.5	566.4	583.9
12.5°	380.3	360.8	349.4	353.4	391.8	410.3	413.3	416.6	430.4	434.8	456.2
15°	283.7	273.7	265.2	261.4	286.6	301.2	302.9	311.0	325.5	329.5	348.0
17.5°	199.6	202.3	206.6	208.2	226.6	236.0	233.2	233.2	235.5	234.5	245.0
20°	152.4	157.8	166.2	174.4	190.8	196.2	189.5	181.1	175.7	173.0	175.3
22.5°	134.7	138.2	143.6	154.1	168.0	170.6	161.9	155.1	150.0	147.4	147.7
25°	124.9	128.5	132.9	141.4	153.2	154.5	146.5	142.0	138.0	135.3	134.7
27.5°	116.4	118.8	121.5	126.9	139.0	139.6	134.2	131.6	128.8	126.9	126.2
30°	108.7	109.8	110.8	116.2	125.3	126.2	123.4	122.2	121.1	119.8	119.8
32.5°	98.6	99.9	101.6	106.3	115.2	116.4	114.8	113.7	112.1	111.4	110.4
35°	86.4	89.8	93.6	99.3	108.7	109.4	107.3	104.4	100.3	99.3	98.6
37.5°	81.4	82.1	86.9	93.6	103.3	103.9	101.2	96.3	93.2	93.6	94.2
40°	78.1	79.1	81.7	88.6	98.3	99.3	96.8	93.2	90.2	90.5	91.5
42.5°	75.4	76.7	78.4	82.7	92.5	94.5	94.0	90.5	87.5	88.2	89.6
45°	74.0	75.1	75.1	78.1	87.5	90.5	90.9	88.2	85.8	86.4	88.2
47.5°	73.3	73.3	72.4	74.6	84.1	87.1	87.9	86.4	85.1	85.8	87.5
50°	72.4	71.0	70.0	72.0	81.4	84.1	84.8	83.8	84.5	85.8	86.9
52.5°	69.3	68.0	68.0	69.3	78.7	81.4	81.7	81.0	82.5	84.1	85.8
55°	65.7	65.7	65.9	67.4	77.4	79.4	79.1	78.4	79.8	81.7	83.5
57.5°	62.3	62.0	63.6	65.2	75.6	77.1	76.4	76.4	77.4	79.1	80.8
60°	60.2	58.6	59.8	62.6	74.0	75.4	74.4	74.0	75.6	77.1	78.4
62.5°	58.2	56.6	57.5	60.2	71.7	72.8	72.0	72.0	73.8	74.6	76.0
65°	55.2	54.4	55.2	57.9	69.7	70.0	70.0	70.3	71.7	72.4	73.8
67.5°	52.6	52.6	52.8	55.5	68.0	67.4	67.4	69.0	69.3	70.0	71.3
70°	49.1	49.8	49.8	53.2	66.7	64.3	64.6	65.9	66.7	67.4	67.6
72.5°	45.5	45.8	46.4	50.8	64.6	61.3	61.5	62.6	62.9	63.9	64.3
75°	41.4	41.7	42.7	48.5	63.3	58.2	57.5	58.2	58.8	59.6	59.2
77.5°	36.7	37.4	38.4	47.2	58.8	57.5	52.6	53.2	53.9	53.9	53.4
80°	30.9	32.0	33.6	45.0	49.8	55.5	46.8	47.2	47.4	47.4	46.8
82.5°	23.3	25.2	27.6	37.4	39.0	47.4	40.3	41.1	40.1	39.3	39.0
85°	15.1	16.8	20.2	26.0	28.6	37.4	33.2	33.6	31.6	31.4	31.4
87.5°	6.1	6.4	9.2	13.1	17.2	23.3	23.9	24.6	22.8	22.8	23.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4
2.5°	1442.0	1475.6	1514.4	1553.8	1586.0	1627.8	1668.2	1711.2	1733.1	1745.9	1781.9
5°	1169.1	1215.1	1270.1	1331.6	1382.9	1470.3	1564.5	1669.5	1720.0	1769.8	1864.1
7.5°	836.3	881.3	945.2	1025.1	1097.8	1213.3	1337.3	1479.4	1549.3	1630.2	1784.7
10°	620.9	668.7	726.5	794.2	865.8	986.0	1125.3	1284.8	1361.9	1453.1	1628.7
12.5°	503.4	559.4	619.2	679.7	741.5	822.0	968.3	1145.6	1228.3	1320.1	1496.1
15°	392.6	452.7	517.2	583.2	644.4	734.6	883.8	1093.3	1188.0	1276.9	1420.8
17.5°	277.9	334.4	407.2	487.3	576.2	682.8	865.5	1116.2	1230.9	1323.9	1420.5
20°	189.5	228.4	301.2	396.2	505.7	641.1	872.3	1196.7	1340.0	1442.0	1478.7
22.5°	151.5	170.0	219.0	315.7	445.2	610.8	899.9	1307.0	1496.5	1620.7	1584.7
25°	137.6	148.1	173.6	249.4	391.4	590.6	953.7	1452.7	1671.8	1797.8	1712.3
27.5°	129.3	138.2	154.8	205.0	344.9	577.5	1022.0	1624.5	1869.5	1972.7	1845.2
30°	123.8	132.9	148.1	184.2	309.9	557.9	1082.0	1781.2	2027.3	2094.2	1916.9
32.5°	113.4	120.6	132.9	164.8	283.7	535.1	1133.8	1921.6	2176.4	2198.5	2003.0
35°	102.6	110.0	122.4	149.4	268.2	517.2	1161.0	2046.1	2324.1	2302.8	2088.5
37.5°	98.6	104.7	116.2	138.2	259.8	505.4	1171.5	2168.6	2482.6	2418.2	2148.0
40°	95.8	101.2	111.4	131.0	257.5	494.3	1169.1	2285.0	2636.3	2537.7	2194.7
42.5°	94.0	98.6	108.1	125.9	251.0	483.9	1161.4	2385.7	2759.6	2640.7	2239.7
45°	92.2	97.2	106.7	128.5	239.3	472.5	1156.7	2477.5	2854.1	2727.6	2299.5
47.5°	91.5	97.2	107.0	127.9	226.6	459.8	1173.5	2579.6	2936.5	2800.6	2379.3
50°	90.5	96.8	114.4	121.8	208.9	443.9	1230.4	2700.9	3023.1	2882.8	2482.6
52.5°	88.8	96.6	122.2	117.0	186.5	422.1	1322.6	2872.6	3172.5	3042.6	2635.4
55°	86.9	97.2	116.8	109.8	162.6	393.7	1414.8	3107.9	3414.7	3300.4	2854.8
57.5°	84.5	96.3	110.4	102.9	142.7	358.1	1484.8	3300.6	3614.6	3566.2	3124.3
60°	82.7	98.6	99.3	99.0	130.0	324.1	1491.5	3288.2	3672.2	3738.8	3388.1
62.5°	80.8	100.6	90.5	95.8	123.4	292.5	1408.4	3084.6	3575.0	3716.6	3603.2
65°	78.1	87.9	85.8	93.2	123.4	275.6	1214.9	2745.7	3306.0	3506.7	3720.1
67.5°	75.4	79.8	82.5	89.6	126.2	259.8	976.3	2316.0	2882.0	3167.8	3588.6
70°	71.7	75.4	78.7	86.1	124.9	248.7	768.3	1856.3	2371.9	2699.0	3225.6
72.5°	68.4	71.0	74.4	81.0	124.9	243.6	617.1	1456.2	1810.9	2086.5	2672.0
75°	63.3	65.7	68.6	76.0	122.4	222.8	463.3	1166.8	1324.9	1497.6	2108.3
77.5°	58.2	59.8	62.3	69.7	110.4	186.0	327.8	903.5	981.7	1077.2	1643.5
80°	51.8	53.2	54.8	62.3	91.5	144.4	213.3	706.6	733.9	780.1	1081.3
82.5°	44.5	46.4	46.8	53.4	73.8	104.7	126.9	484.2	483.9	551.6	762.9
85°	36.3	37.4	38.0	42.1	54.4	69.7	83.5	264.6	236.0	330.4	662.6
87.5°	27.3	26.2	27.3	28.2	36.0	41.1	44.7	48.8	29.3	59.8	385.4
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°	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4	1582.4
2.5°	1801.1	1821.0	1809.1	1795.1	1759.7	1707.9	1668.2	1633.5
5°	1929.3	1966.0	1949.9	1897.3	1805.9	1701.7	1592.4	1525.9
7.5°	1913.2	1985.9	1979.4	1892.0	1760.7	1607.5	1453.7	1366.0
10°	1783.9	1885.9	1903.4	1813.9	1674.9	1503.7	1325.5	1226.2
12.5°	1643.3	1729.1	1764.7	1730.8	1599.8	1425.9	1244.5	1145.2
15°	1525.5	1568.9	1604.3	1626.1	1545.1	1398.3	1230.4	1128.0
17.5°	1438.4	1429.9	1459.6	1511.9	1515.4	1435.0	1294.3	1179.8
20°	1396.2	1330.3	1347.5	1421.2	1507.3	1528.1	1421.8	1286.6
22.5°	1393.9	1291.0	1294.3	1373.7	1530.5	1655.3	1580.9	1426.9
25°	1430.2	1286.6	1289.5	1368.7	1571.6	1783.7	1765.1	1585.4
27.5°	1492.2	1305.3	1303.4	1390.8	1626.4	1890.7	1950.8	1779.3
30°	1559.2	1332.6	1327.7	1426.6	1680.3	1956.6	2082.8	1925.2
32.5°	1642.6	1381.1	1363.5	1478.7	1733.5	2019.8	2195.5	2061.9
35°	1722.1	1452.1	1426.9	1553.3	1790.3	2090.1	2321.7	2213.1
37.5°	1803.1	1558.1	1543.9	1661.1	1870.8	2166.5	2466.0	2384.3
40°	1907.1	1708.8	1702.2	1817.6	1978.1	2250.1	2627.9	2562.7
42.5°	2019.2	1869.1	1863.4	1997.3	2111.3	2333.8	2766.6	2715.8
45°	2133.3	2063.2	2064.7	2189.1	2251.7	2412.8	2875.7	2838.3
47.5°	2268.0	2275.5	2323.7	2388.1	2388.4	2501.2	2972.2	2952.4
50°	2438.8	2532.1	2620.8	2631.0	2526.4	2617.5	3090.3	3083.0
52.5°	2632.4	2827.9	2931.2	2899.2	2660.9	2761.8	3265.0	3264.7
55°	2862.2	3137.2	3234.3	3179.9	2822.1	2950.0	3493.1	3478.3
57.5°	3100.4	3434.6	3513.0	3442.0	3023.8	3169.1	3721.9	3643.5
60°	3357.9	3690.6	3770.5	3663.7	3249.9	3387.5	3873.4	3690.1
62.5°	3526.4	3840.4	3897.7	3795.3	3452.5	3609.8	3922.2	3634.5
65°	3535.2	3740.8	3756.1	3719.6	3538.7	3803.2	3851.6	3470.0
67.5°	3295.0	3307.1	3327.0	3365.9	3354.5	3716.9	3578.9	3085.6
70°	2781.1	2619.5	2684.9	2722.6	2807.4	3306.0	3075.2	2509.4
72.5°	2126.5	1890.7	1964.7	1951.8	2128.3	2711.8	2352.8	1933.1
75°	1530.5	1289.2	1294.9	1295.6	1529.2	2164.6	1604.3	1372.7
77.5°	1040.1	912.3	931.2	919.3	1023.3	1695.8	1155.0	989.5
80°	711.4	708.0	712.0	684.5	682.5	1096.1	855.1	789.2
82.5°	527.7	487.6	481.9	452.7	523.0	837.9	649.1	567.0
85°	416.3	269.9	234.5	283.1	452.9	770.9	395.8	290.7
87.5°	176.3	106.0	64.3	127.2	251.7	565.0	109.8	56.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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