

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: P271249

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271249
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-7027
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 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

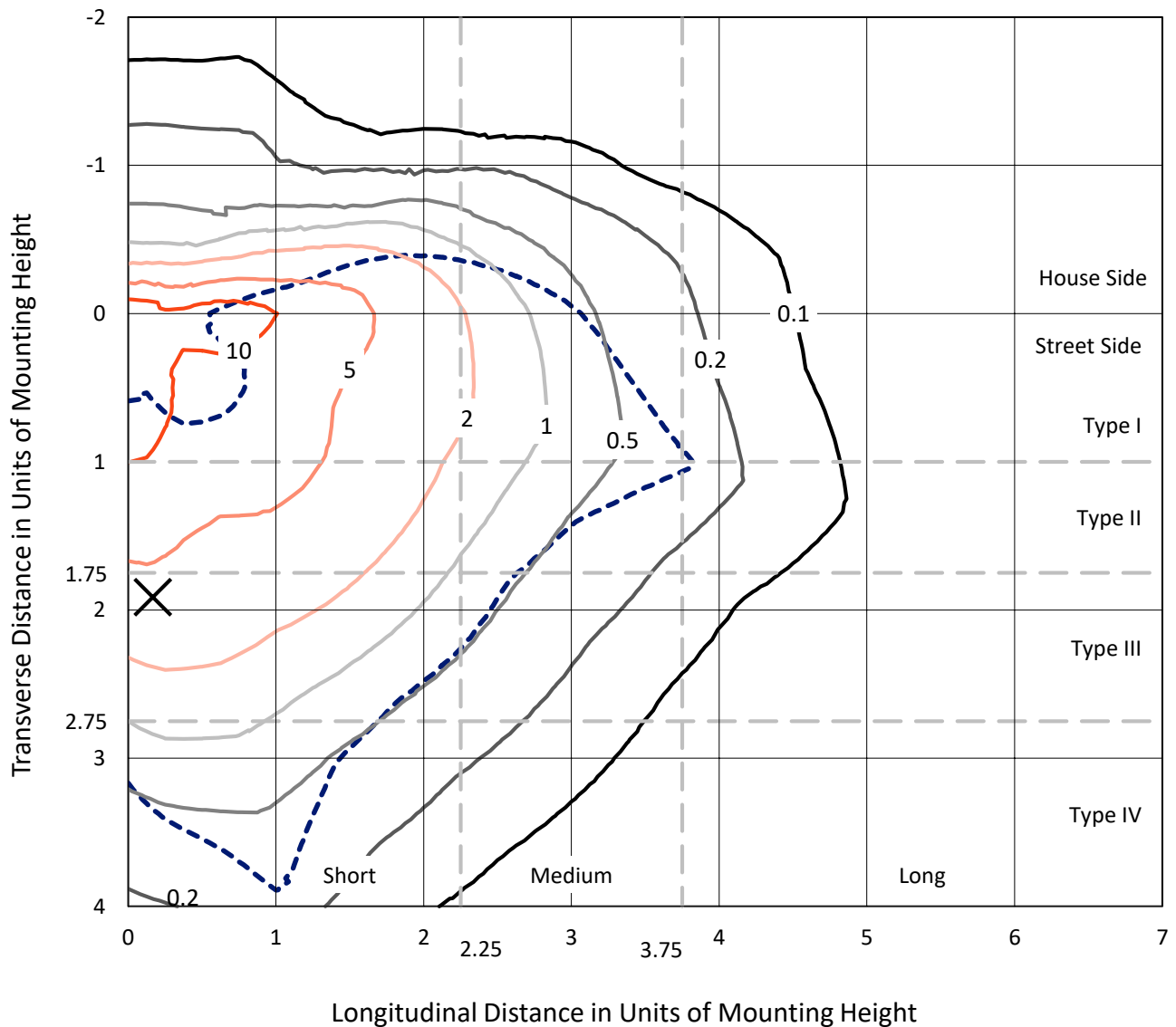


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Iso-Footcandle Lines of Horizontal Illumination

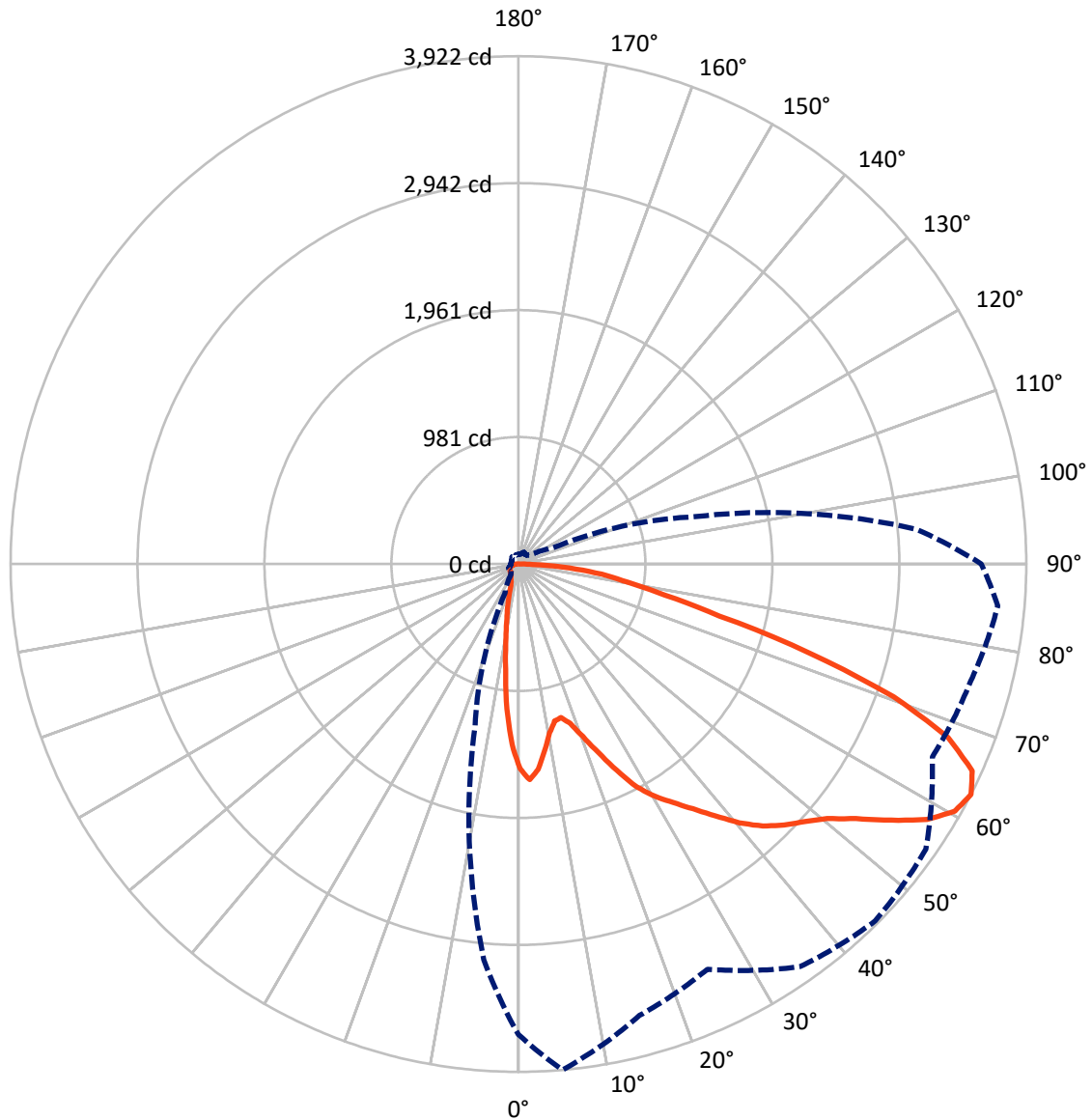
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 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	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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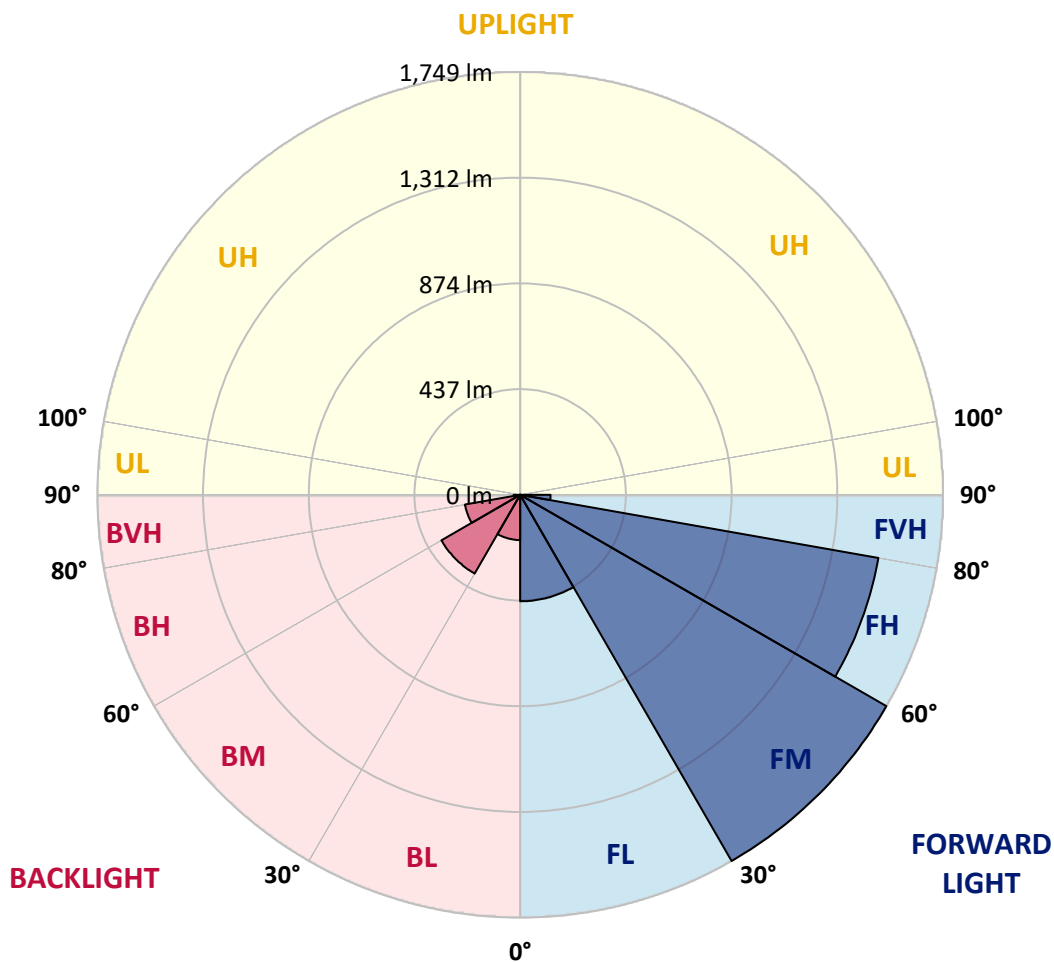
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	1668.2	1707.9	1759.7	1795.1	1809.1	1821.0	1801.1	1781.9	1745.9	1733.1
5°	1525.9	1592.4	1701.7	1805.9	1897.3	1949.9	1966.0	1929.3	1864.1	1769.8	1720.0
7.5°	1366.0	1453.7	1607.5	1760.7	1892.0	1979.4	1985.9	1913.2	1784.7	1630.2	1549.3
10°	1226.2	1325.5	1503.7	1674.9	1813.9	1903.4	1885.9	1783.9	1628.7	1453.1	1361.9
12.5°	1145.2	1244.5	1425.9	1599.8	1730.8	1764.7	1729.1	1643.3	1496.1	1320.1	1228.3
15°	1128.0	1230.4	1398.3	1545.1	1626.1	1604.3	1568.9	1525.5	1420.8	1276.9	1188.0
17.5°	1179.8	1294.3	1435.0	1515.4	1511.9	1459.6	1429.9	1438.4	1420.5	1323.9	1230.9
20°	1286.6	1421.8	1528.1	1507.3	1421.2	1347.5	1330.3	1396.2	1478.7	1442.0	1340.0
22.5°	1426.9	1580.9	1655.3	1530.5	1373.7	1294.3	1291.0	1393.9	1584.7	1620.7	1496.5
25°	1585.4	1765.1	1783.7	1571.6	1368.7	1289.5	1286.6	1430.2	1712.3	1797.8	1671.8
27.5°	1779.3	1950.8	1890.7	1626.4	1390.8	1303.4	1305.3	1492.2	1845.2	1972.7	1869.5
30°	1925.2	2082.8	1956.6	1680.3	1426.6	1327.7	1332.6	1559.2	1916.9	2094.2	2027.3
32.5°	2061.9	2195.5	2019.8	1733.5	1478.7	1363.5	1381.1	1642.6	2003.0	2198.5	2176.4
35°	2213.1	2321.7	2090.1	1790.3	1553.3	1426.9	1452.1	1722.1	2088.5	2302.8	2324.1
37.5°	2384.3	2466.0	2166.5	1870.8	1661.1	1543.9	1558.1	1803.1	2148.0	2418.2	2482.6
40°	2562.7	2627.9	2250.1	1978.1	1817.6	1702.2	1708.8	1907.1	2194.7	2537.7	2636.3
42.5°	2715.8	2766.6	2333.8	2111.3	1997.3	1863.4	1869.1	2019.2	2239.7	2640.7	2759.6
45°	2838.3	2875.7	2412.8	2251.7	2189.1	2064.7	2063.2	2133.3	2299.5	2727.6	2854.1
47.5°	2952.4	2972.2	2501.2	2388.4	2388.1	2323.7	2275.5	2268.0	2379.3	2800.6	2936.5
50°	3083.0	3090.3	2617.5	2526.4	2631.0	2620.8	2532.1	2438.8	2482.6	2882.8	3023.1
52.5°	3264.7	3265.0	2761.8	2660.9	2899.2	2931.2	2827.9	2632.4	2635.4	3042.6	3172.5
55°	3478.3	3493.1	2950.0	2822.1	3179.9	3234.3	3137.2	2862.2	2854.8	3300.4	3414.7
57.5°	3643.5	3721.9	3169.1	3023.8	3442.0	3513.0	3434.6	3100.4	3124.3	3566.2	3614.6
60°	3690.1	3873.4	3387.5	3249.9	3663.7	3770.5	3690.6	3357.9	3388.1	3738.8	3672.2
62.5°	3634.5	3922.2	3609.8	3452.5	3795.3	3897.7	3840.4	3526.4	3603.2	3716.6	3575.0
65°	3470.0	3851.6	3803.2	3538.7	3719.6	3756.1	3740.8	3535.2	3720.1	3506.7	3306.0
67.5°	3085.6	3578.9	3716.9	3354.5	3365.9	3327.0	3307.1	3295.0	3588.6	3167.8	2882.0
70°	2509.4	3075.2	3306.0	2807.4	2722.6	2684.9	2619.5	2781.1	3225.6	2699.0	2371.9
72.5°	1933.1	2352.8	2711.8	2128.3	1951.8	1964.7	1890.7	2126.5	2672.0	2086.5	1810.9
75°	1372.7	1604.3	2164.6	1529.2	1295.6	1294.9	1289.2	1530.5	2108.3	1497.6	1324.9
77.5°	989.5	1155.0	1695.8	1023.3	919.3	931.2	912.3	1040.1	1643.5	1077.2	981.7
80°	789.2	855.1	1096.1	682.5	684.5	712.0	708.0	711.4	1081.3	780.1	733.9
82.5°	567.0	649.1	837.9	523.0	452.7	481.9	487.6	527.7	762.9	551.6	483.9
85°	290.7	395.8	770.9	452.9	283.1	234.5	269.9	416.3	662.6	330.4	236.0
87.5°	56.6	109.8	565.0	251.7	127.2	64.3	106.0	176.3	385.4	59.8	29.3
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°	1711.2	1668.2	1627.8	1586.0	1553.8	1514.4	1475.6	1442.0	1409.4	1387.8	1394.6
5°	1669.5	1564.5	1470.3	1382.9	1331.6	1270.1	1215.1	1169.1	1133.4	1110.6	1124.4
7.5°	1479.4	1337.3	1213.3	1097.8	1025.1	945.2	881.3	836.3	808.7	793.3	815.8
10°	1284.8	1125.3	986.0	865.8	794.2	726.5	668.7	620.9	583.9	566.4	575.5
12.5°	1145.6	968.3	822.0	741.5	679.7	619.2	559.4	503.4	456.2	434.8	430.4
15°	1093.3	883.8	734.6	644.4	583.2	517.2	452.7	392.6	348.0	329.5	325.5
17.5°	1116.2	865.5	682.8	576.2	487.3	407.2	334.4	277.9	245.0	234.5	235.5
20°	1196.7	872.3	641.1	505.7	396.2	301.2	228.4	189.5	175.3	173.0	175.7
22.5°	1307.0	899.9	610.8	445.2	315.7	219.0	170.0	151.5	147.7	147.4	150.0
25°	1452.7	953.7	590.6	391.4	249.4	173.6	148.1	137.6	134.7	135.3	138.0
27.5°	1624.5	1022.0	577.5	344.9	205.0	154.8	138.2	129.3	126.2	126.9	128.8
30°	1781.2	1082.0	557.9	309.9	184.2	148.1	132.9	123.8	119.8	119.8	121.1
32.5°	1921.6	1133.8	535.1	283.7	164.8	132.9	120.6	113.4	110.4	111.4	112.1
35°	2046.1	1161.0	517.2	268.2	149.4	122.4	110.0	102.6	98.6	99.3	100.3
37.5°	2168.6	1171.5	505.4	259.8	138.2	116.2	104.7	98.6	94.2	93.6	93.2
40°	2285.0	1169.1	494.3	257.5	131.0	111.4	101.2	95.8	91.5	90.5	90.2
42.5°	2385.7	1161.4	483.9	251.0	125.9	108.1	98.6	94.0	89.6	88.2	87.5
45°	2477.5	1156.7	472.5	239.3	128.5	106.7	97.2	92.2	88.2	86.4	85.8
47.5°	2579.6	1173.5	459.8	226.6	127.9	107.0	97.2	91.5	87.5	85.8	85.1
50°	2700.9	1230.4	443.9	208.9	121.8	114.4	96.8	90.5	86.9	85.8	84.5
52.5°	2872.6	1322.6	422.1	186.5	117.0	122.2	96.6	88.8	85.8	84.1	82.5
55°	3107.9	1414.8	393.7	162.6	109.8	116.8	97.2	86.9	83.5	81.7	79.8
57.5°	3300.6	1484.8	358.1	142.7	102.9	110.4	96.3	84.5	80.8	79.1	77.4
60°	3288.2	1491.5	324.1	130.0	99.0	99.3	98.6	82.7	78.4	77.1	75.6
62.5°	3084.6	1408.4	292.5	123.4	95.8	90.5	100.6	80.8	76.0	74.6	73.8
65°	2745.7	1214.9	275.6	123.4	93.2	85.8	87.9	78.1	73.8	72.4	71.7
67.5°	2316.0	976.3	259.8	126.2	89.6	82.5	79.8	75.4	71.3	70.0	69.3
70°	1856.3	768.3	248.7	124.9	86.1	78.7	75.4	71.7	67.6	67.4	66.7
72.5°	1456.2	617.1	243.6	124.9	81.0	74.4	71.0	68.4	64.3	63.9	62.9
75°	1166.8	463.3	222.8	122.4	76.0	68.6	65.7	63.3	59.2	59.6	58.8
77.5°	903.5	327.8	186.0	110.4	69.7	62.3	59.8	58.2	53.4	53.9	53.9
80°	706.6	213.3	144.4	91.5	62.3	54.8	53.2	51.8	46.8	47.4	47.4
82.5°	484.2	126.9	104.7	73.8	53.4	46.8	46.4	44.5	39.0	39.3	40.1
85°	264.6	83.5	69.7	54.4	42.1	38.0	37.4	36.3	31.4	31.4	31.6
87.5°	48.8	44.7	41.1	36.0	28.2	27.3	26.2	27.3	23.5	22.8	22.8
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):

	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°	1378.8	1355.5	1339.5	1325.3	1291.3	1293.6	1298.3	1305.1	1283.9	1294.9	1308.8
5°	1110.6	1091.4	1076.9	1054.3	1006.9	990.0	979.3	974.7	943.0	949.7	964.5
7.5°	818.7	818.4	813.3	788.2	731.0	696.2	673.4	666.4	646.8	654.2	676.8
10°	576.4	582.6	580.1	557.6	506.5	481.6	476.6	490.7	491.1	505.4	544.2
12.5°	416.6	413.3	410.3	391.8	353.4	349.4	360.8	380.3	385.1	400.5	440.9
15°	311.0	302.9	301.2	286.6	261.4	265.2	273.7	283.7	284.0	294.9	328.2
17.5°	233.2	233.2	236.0	226.6	208.2	206.6	202.3	199.6	195.6	200.0	218.1
20°	181.1	189.5	196.2	190.8	174.4	166.2	157.8	152.4	149.4	149.7	155.1
22.5°	155.1	161.9	170.6	168.0	154.1	143.6	138.2	134.7	132.3	132.3	135.3
25°	142.0	146.5	154.5	153.2	141.4	132.9	128.5	124.9	122.2	121.8	124.9
27.5°	131.6	134.2	139.6	139.0	126.9	121.5	118.8	116.4	114.8	114.4	117.5
30°	122.2	123.4	126.2	125.3	116.2	110.8	109.8	108.7	107.6	108.1	112.4
32.5°	113.7	114.8	116.4	115.2	106.3	101.6	99.9	98.6	97.6	98.6	103.7
35°	104.4	107.3	109.4	108.7	99.3	93.6	89.8	86.4	85.1	86.1	91.8
37.5°	96.3	101.2	103.9	103.3	93.6	86.9	82.1	81.4	81.4	82.7	88.6
40°	93.2	96.8	99.3	98.3	88.6	81.7	79.1	78.1	78.4	79.8	85.8
42.5°	90.5	94.0	94.5	92.5	82.7	78.4	76.7	75.4	76.0	77.8	83.8
45°	88.2	90.9	90.5	87.5	78.1	75.1	75.1	74.0	74.4	75.6	82.1
47.5°	86.4	87.9	87.1	84.1	74.6	72.4	73.3	73.3	74.0	75.1	81.4
50°	83.8	84.8	84.1	81.4	72.0	70.0	71.0	72.4	73.0	74.0	79.8
52.5°	81.0	81.7	81.4	78.7	69.3	68.0	68.0	69.3	70.6	72.0	77.1
55°	78.4	79.1	79.4	77.4	67.4	65.9	65.7	65.7	67.0	69.0	74.4
57.5°	76.4	76.4	77.1	75.6	65.2	63.6	62.0	62.3	63.9	65.7	71.0
60°	74.0	74.4	75.4	74.0	62.6	59.8	58.6	60.2	60.9	62.6	68.4
62.5°	72.0	72.0	72.8	71.7	60.2	57.5	56.6	58.2	58.2	59.8	65.7
65°	70.3	70.0	70.0	69.7	57.9	55.2	54.4	55.2	55.5	57.2	62.9
67.5°	69.0	67.4	67.4	68.0	55.5	52.8	52.6	52.6	52.8	54.8	59.8
70°	65.9	64.6	64.3	66.7	53.2	49.8	49.8	49.1	49.8	50.8	56.2
72.5°	62.6	61.5	61.3	64.6	50.8	46.4	45.8	45.5	45.8	46.8	51.8
75°	58.2	57.5	58.2	63.3	48.5	42.7	41.7	41.4	41.4	41.7	47.2
77.5°	53.2	52.6	57.5	58.8	47.2	38.4	37.4	36.7	36.0	36.0	42.1
80°	47.2	46.8	55.5	49.8	45.0	33.6	32.0	30.9	30.4	30.0	36.0
82.5°	41.1	40.3	47.4	39.0	37.4	27.6	25.2	23.3	22.2	22.2	27.6
85°	33.6	33.2	37.4	28.6	26.0	20.2	16.8	15.1	13.8	13.8	17.8
87.5°	24.6	23.9	23.3	17.2	13.1	9.2	6.4	6.1	5.4	5.0	7.4
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°	1329.3	1357.2	1410.1	1453.5	1511.4	1557.8	1610.7	1633.5
5°	991.8	1035.8	1116.7	1185.7	1281.2	1369.6	1470.6	1525.9
7.5°	711.4	776.8	837.9	924.0	1043.7	1162.3	1292.9	1366.0
10°	588.6	648.4	700.9	762.2	854.5	988.0	1143.8	1226.2
12.5°	487.6	552.3	607.8	673.4	750.9	871.6	1049.3	1145.2
15°	373.9	444.2	510.9	589.9	684.9	822.8	1021.1	1128.0
17.5°	256.0	331.5	413.6	510.1	624.6	802.2	1048.0	1179.8
20°	174.0	229.2	318.4	432.8	570.5	792.6	1107.3	1286.6
22.5°	143.0	168.0	234.8	360.1	526.0	803.3	1203.4	1426.9
25°	131.2	144.6	182.7	296.1	492.0	831.9	1333.7	1585.4
27.5°	123.8	135.3	160.2	250.4	460.7	870.9	1492.2	1779.3
30°	119.5	130.3	151.2	226.8	432.2	904.7	1628.4	1925.2
32.5°	109.8	117.8	134.9	213.3	411.6	931.8	1748.6	2061.9
35°	97.9	107.6	121.8	204.6	411.0	944.7	1861.6	2213.1
37.5°	93.6	102.9	113.4	200.0	414.9	955.3	1999.9	2384.3
40°	90.9	99.3	107.6	199.2	418.3	963.8	2135.4	2562.7
42.5°	88.6	96.8	106.7	194.6	417.0	975.3	2255.0	2715.8
45°	87.9	96.3	109.1	187.4	416.6	993.0	2350.3	2838.3
47.5°	87.1	99.9	108.3	179.8	415.2	1030.7	2457.7	2952.4
50°	86.4	106.7	103.7	168.9	405.1	1095.0	2602.0	3083.0
52.5°	86.1	107.6	98.6	154.1	387.0	1190.3	2813.4	3264.7
55°	84.8	102.2	89.8	134.7	360.8	1292.9	3039.9	3478.3
57.5°	81.7	91.2	84.8	115.4	323.1	1364.6	3207.0	3643.5
60°	89.2	78.4	81.4	105.7	277.9	1377.5	3214.6	3690.1
62.5°	85.1	71.3	78.1	102.2	246.3	1294.0	3067.4	3634.5
65°	68.0	67.6	75.1	105.7	241.6	1107.3	2819.2	3470.0
67.5°	62.0	64.9	72.0	109.8	244.7	872.3	2453.6	3085.6
70°	57.9	61.5	68.0	113.4	250.1	687.3	1975.5	2509.4
72.5°	53.9	56.9	63.9	117.0	246.3	542.1	1580.9	1933.1
75°	48.8	51.6	58.2	107.3	211.3	398.5	1256.3	1372.7
77.5°	43.1	45.5	51.2	84.8	158.8	277.2	941.0	989.5
80°	37.0	38.0	42.4	62.0	103.7	165.8	716.0	789.2
82.5°	29.3	29.6	32.2	45.5	64.6	106.0	496.8	567.0
85°	18.9	19.6	20.9	32.0	43.4	68.0	253.7	290.7
87.5°	6.4	7.4	7.4	15.5	21.2	37.6	77.8	56.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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