

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: P271252

Luminaire Tested: **XNV-AF-01-LED-U-SLL-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271252
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-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5091.9 lumens
Efficiency: N/A
Efficacy: 77.2 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

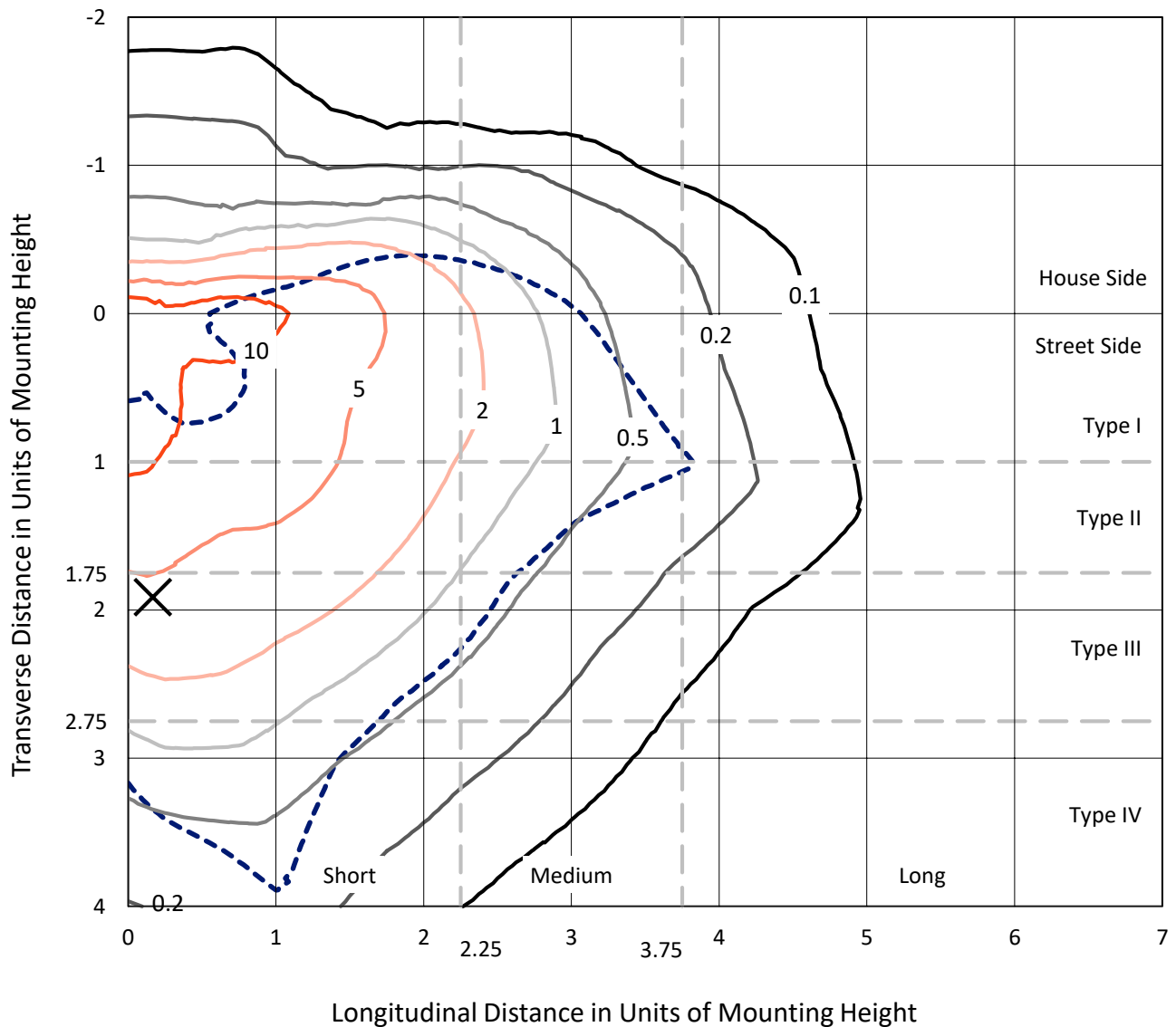


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Iso-Footcandle Lines of Horizontal Illumination

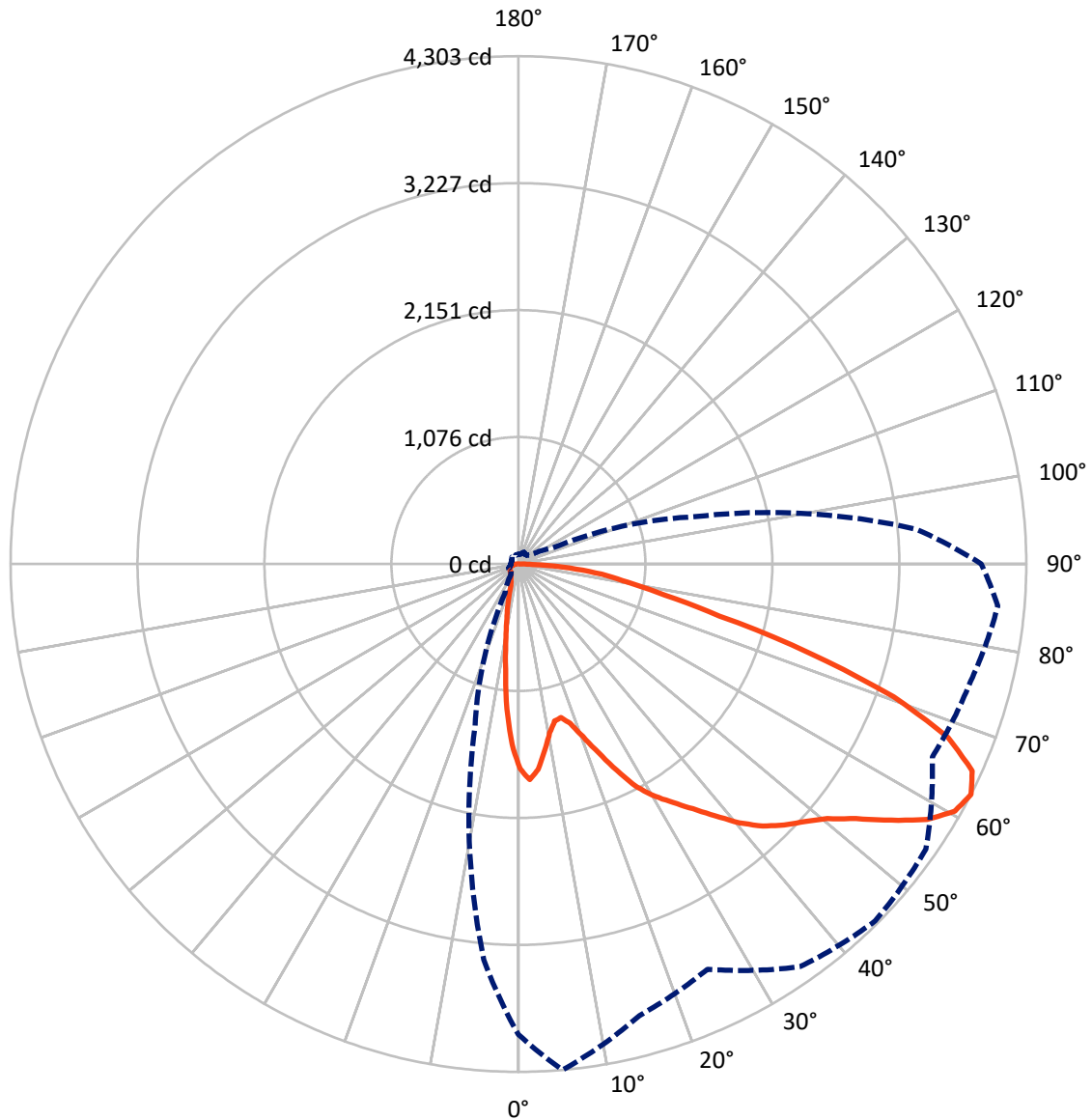
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.9 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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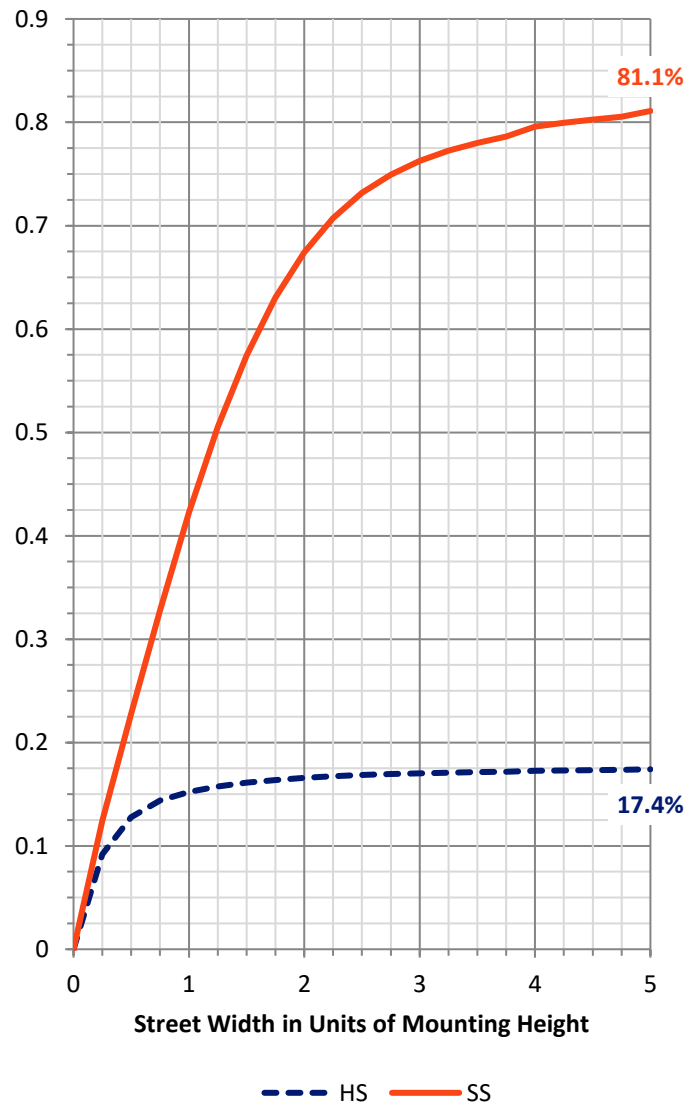
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	902.0	0.0	902.0
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	4189.9	0.0	4189.9
	% Fixture	82.3	0.0	82.3
Total	Lumens	5091.9	0.0	5091.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	2.5
10°-20°	230.6	4.5
20°-30°	331.6	6.5
30°-40°	507.9	10.0
40°-50°	742.6	14.6
50°-60°	1080.5	21.2
60°-70°	1252.0	24.6
70°-80°	652.6	12.8
80°-90°	167.8	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°	5091.9	100.0
0°-180°	5091.9	100.0



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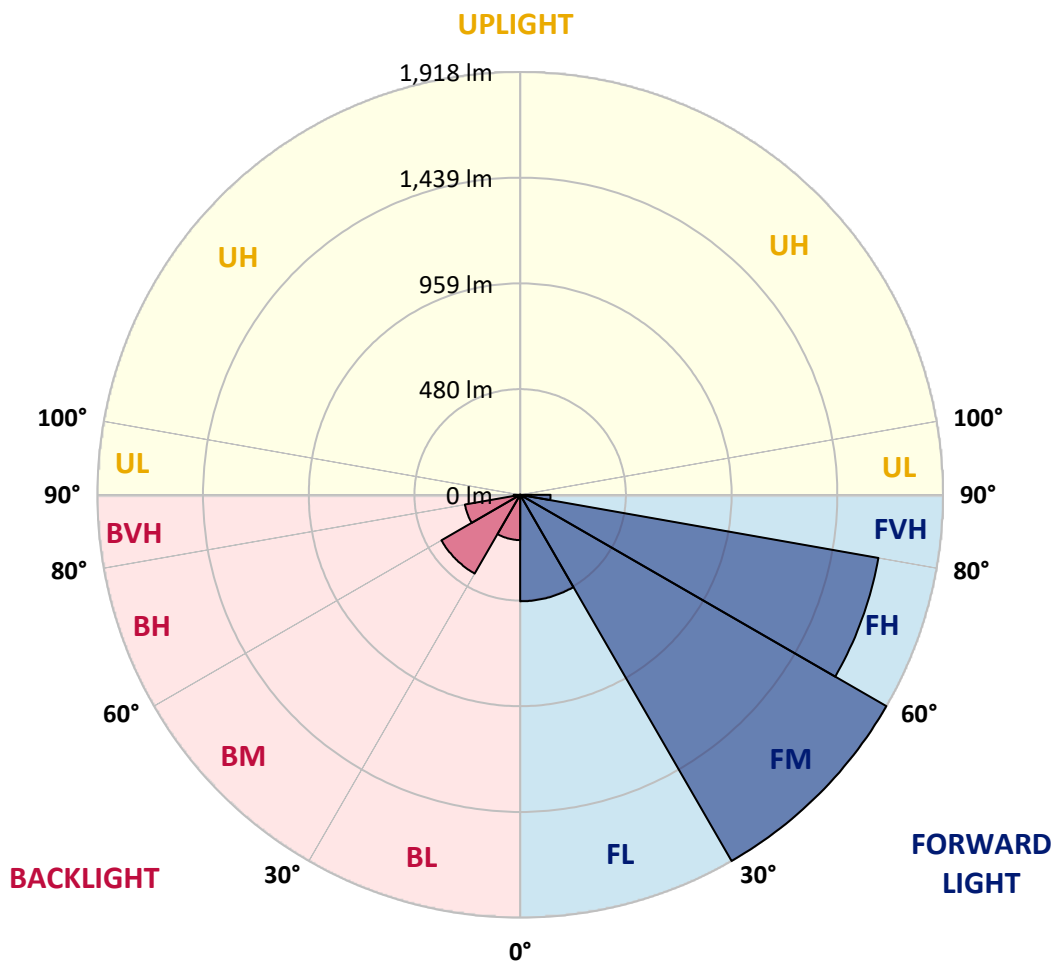
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.2	9.5			
FM	(30°-60°)	1918.4	37.7			
FH	(60°-80°)	1650.2	32.4			G1/1800
FVH	(80°-90°)	138.0	2.7			G2/225
BL	(0°-30°)	205.2	4.0	B1/500		
BM	(30°-60°)	412.7	8.1	B1/1000		
BH	(60°-80°)	254.3	5.0	B1/500		G1/500
BVH	(80°-90°)	29.7	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°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1792.1	1830.0	1873.7	1930.5	1969.3	1984.7	1997.7	1975.9	1954.9	1915.4	1901.4
5°	1673.9	1747.1	1866.9	1981.1	2081.6	2139.1	2156.8	2116.5	2044.9	1941.5	1886.9
7.5°	1498.6	1594.9	1763.6	1931.6	2075.7	2171.7	2178.6	2098.9	1957.9	1788.3	1699.8
10°	1345.3	1454.3	1649.6	1837.5	1989.9	2088.1	2068.9	1957.0	1786.9	1594.1	1494.2
12.5°	1256.4	1365.2	1564.3	1755.2	1898.7	1936.0	1897.0	1802.8	1641.5	1448.3	1347.5
15°	1237.5	1349.8	1533.9	1694.9	1783.9	1759.9	1721.2	1673.5	1558.6	1400.6	1303.3
17.5°	1294.4	1420.0	1574.2	1662.5	1658.8	1601.1	1568.7	1578.0	1558.4	1452.4	1350.5
20°	1411.4	1559.8	1676.4	1653.6	1559.1	1478.3	1459.4	1531.8	1622.2	1581.9	1470.2
22.5°	1565.3	1734.4	1816.1	1679.1	1507.0	1420.0	1416.2	1529.2	1738.5	1778.0	1641.8
25°	1739.3	1936.3	1956.7	1724.1	1501.4	1414.7	1411.4	1569.1	1878.4	1972.1	1834.2
27.5°	1951.8	2140.2	2074.1	1784.4	1526.0	1429.9	1432.1	1637.0	2024.3	2164.1	2050.9
30°	2112.2	2284.8	2146.5	1843.4	1564.9	1456.4	1462.0	1710.5	2102.9	2297.4	2224.1
32.5°	2262.0	2408.6	2215.8	1901.7	1622.2	1495.9	1515.3	1802.0	2197.4	2411.9	2387.5
35°	2427.8	2547.1	2293.1	1964.1	1704.2	1565.3	1593.1	1889.1	2291.1	2526.4	2549.6
37.5°	2615.8	2705.4	2376.8	2052.4	1822.3	1693.8	1709.4	1978.2	2356.6	2653.1	2723.5
40°	2811.3	2883.0	2468.5	2170.1	1994.0	1867.3	1874.8	2092.2	2407.8	2784.0	2892.3
42.5°	2979.4	3035.2	2560.3	2316.3	2191.1	2044.3	2050.6	2215.1	2457.0	2897.0	3027.4
45°	3113.7	3154.8	2647.0	2470.2	2401.6	2264.9	2263.5	2340.4	2522.7	2992.3	3131.1
47.5°	3238.8	3260.7	2743.9	2620.1	2619.7	2549.3	2496.5	2487.9	2610.1	3072.5	3221.6
50°	3382.2	3390.4	2871.6	2771.5	2886.3	2875.2	2777.7	2675.5	2723.5	3162.6	3316.5
52.5°	3581.5	3581.9	3030.0	2919.2	3180.5	3215.7	3102.3	2887.8	2891.1	3337.8	3480.4
55°	3816.0	3832.2	3236.4	3096.1	3488.5	3548.2	3441.5	3139.9	3131.9	3620.7	3746.2
57.5°	3997.3	4083.2	3476.7	3317.3	3776.0	3854.0	3768.0	3401.3	3427.6	3912.3	3965.5
60°	4048.2	4249.4	3716.3	3565.4	4019.3	4136.4	4048.9	3683.8	3717.0	4101.8	4028.5
62.5°	3987.2	4302.9	3960.3	3787.6	4163.7	4276.0	4213.2	3868.8	3952.9	4077.3	3921.9
65°	3806.7	4225.4	4172.3	3882.0	4080.7	4120.5	4103.9	3878.3	4081.0	3847.0	3626.9
67.5°	3385.2	3926.3	4077.8	3680.0	3692.7	3649.9	3628.1	3614.8	3937.0	3475.3	3161.8
70°	2753.0	3373.7	3626.9	3079.7	2986.8	2945.5	2873.8	3051.1	3538.8	2961.0	2602.1
72.5°	2120.5	2581.0	2974.9	2334.8	2141.3	2155.4	2074.1	2332.9	2931.3	2289.1	1986.6
75°	1505.9	1759.9	2374.6	1677.7	1421.4	1420.7	1414.4	1679.1	2313.0	1642.9	1453.5
77.5°	1085.4	1267.1	1860.4	1122.7	1008.6	1021.6	1000.9	1141.1	1803.2	1181.8	1077.0
80°	865.7	938.1	1202.4	748.6	751.0	781.2	776.8	780.4	1186.2	855.7	805.2
82.5°	622.0	712.1	919.2	573.7	496.6	528.7	535.0	578.9	837.0	605.1	530.9
85°	319.0	434.2	845.8	496.9	310.5	257.4	296.1	456.7	727.0	362.6	258.8
87.5°	62.1	120.4	619.9	276.1	139.5	70.4	116.3	193.4	422.7	65.8	32.1
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°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1877.4	1830.0	1785.8	1739.9	1704.5	1661.3	1618.9	1581.9	1546.2	1522.5	1530.0
5°	1831.6	1716.4	1612.9	1517.0	1461.0	1393.4	1333.2	1282.6	1243.4	1218.3	1233.5
7.5°	1623.0	1467.1	1330.8	1204.3	1124.6	1037.1	966.9	917.4	887.2	870.2	894.9
10°	1409.6	1234.6	1081.6	950.0	871.3	797.1	733.6	681.2	640.5	621.4	631.2
12.5°	1256.6	1062.2	902.0	813.3	745.8	679.3	613.6	552.3	500.6	477.0	472.1
15°	1199.4	969.5	806.0	707.0	639.9	567.5	496.6	430.8	381.7	361.5	356.9
17.5°	1224.6	949.6	749.0	632.0	534.6	446.7	367.0	305.0	268.8	257.4	258.4
20°	1312.9	957.0	703.4	555.0	434.5	330.4	250.6	207.9	192.3	189.7	192.7
22.5°	1434.0	987.1	670.0	488.5	346.2	240.3	186.5	166.1	162.1	161.8	164.7
25°	1593.9	1046.3	647.9	429.4	273.5	190.5	162.5	150.9	147.7	148.4	151.4
27.5°	1782.1	1121.3	633.6	378.5	224.8	169.8	151.8	141.8	138.5	139.1	141.5
30°	1954.2	1186.9	612.1	340.0	201.9	162.5	145.9	135.9	131.4	131.4	132.9
32.5°	2108.1	1243.9	587.0	311.3	180.9	145.9	132.2	124.4	121.1	122.2	123.0
35°	2244.7	1273.6	567.5	294.3	163.9	134.3	120.7	112.6	108.2	109.0	110.0
37.5°	2379.2	1285.1	554.6	285.0	151.8	127.4	114.9	108.2	103.3	102.6	102.2
40°	2506.8	1282.6	542.3	282.4	143.5	122.2	111.1	105.2	100.4	99.4	99.0
42.5°	2617.2	1274.1	530.9	275.4	138.1	118.4	108.2	102.9	98.3	96.7	95.9
45°	2718.0	1268.9	518.3	262.5	141.0	117.0	106.7	101.1	96.7	95.0	94.1
47.5°	2829.8	1287.5	504.3	248.6	140.2	117.4	106.7	100.4	95.9	94.1	93.5
50°	2963.1	1349.8	487.1	229.2	133.7	125.6	106.3	99.4	95.2	94.1	92.6
52.5°	3151.4	1450.9	462.9	204.5	128.5	133.9	106.0	97.5	94.1	92.3	90.5
55°	3409.4	1552.1	431.9	178.4	120.4	128.1	106.7	95.2	91.5	89.7	87.5
57.5°	3621.1	1628.8	392.7	156.6	112.9	121.1	105.6	92.6	88.7	86.7	84.9
60°	3607.4	1636.3	355.5	142.6	108.5	109.0	108.2	90.8	86.0	84.5	83.1
62.5°	3384.1	1545.1	320.9	135.5	105.2	99.4	110.4	88.7	83.5	81.9	80.8
65°	3012.2	1332.7	302.4	135.5	102.2	94.1	96.4	85.7	80.8	79.4	78.6
67.5°	2540.8	1071.0	285.0	138.5	98.3	90.5	87.5	82.7	78.2	76.7	76.0
70°	2036.5	842.9	272.8	137.0	94.5	86.3	82.7	78.6	74.2	73.8	73.1
72.5°	1597.5	677.1	267.2	137.0	89.0	81.6	78.0	75.0	70.4	70.2	69.0
75°	1279.9	508.4	244.3	134.3	83.5	75.3	72.0	69.3	64.9	65.3	64.6
77.5°	991.3	359.6	204.2	121.1	76.4	68.4	65.8	63.9	58.7	59.1	59.1
80°	775.2	234.1	158.5	100.4	68.4	60.1	58.3	56.9	51.4	52.0	52.0
82.5°	531.3	139.1	114.9	80.8	58.7	51.4	50.9	48.8	42.8	43.2	43.9
85°	290.2	91.5	76.4	59.7	46.2	41.7	41.1	39.9	34.3	34.3	34.8
87.5°	53.4	49.0	45.0	39.4	31.0	30.0	28.7	30.0	25.8	25.2	25.2
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°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1512.6	1487.1	1469.4	1453.8	1416.5	1419.1	1424.4	1431.7	1408.5	1420.7	1435.9
5°	1218.3	1197.4	1181.5	1156.7	1104.6	1086.2	1074.4	1069.3	1034.5	1041.9	1058.2
7.5°	898.2	897.9	892.3	864.7	801.8	763.9	738.8	731.0	709.7	717.7	742.4
10°	632.4	639.1	636.4	611.7	555.6	528.4	522.8	538.3	538.7	554.6	597.0
12.5°	457.1	453.4	450.1	429.7	387.7	383.2	395.8	417.3	422.4	439.4	483.6
15°	341.1	332.3	330.4	314.5	286.9	291.0	300.2	311.3	311.6	323.4	360.0
17.5°	255.8	255.8	258.8	248.6	228.4	226.7	221.9	218.9	214.4	219.2	239.3
20°	198.6	207.9	215.2	209.3	191.2	182.4	173.2	167.3	163.9	164.3	170.1
22.5°	170.1	177.5	187.1	184.2	169.2	157.7	151.8	147.7	145.0	145.0	148.4
25°	155.8	160.5	169.5	168.1	155.0	145.9	141.0	137.0	133.9	133.7	137.0
27.5°	144.4	147.3	153.3	152.5	139.1	133.3	130.3	127.7	125.9	125.6	128.8
30°	133.9	135.5	138.5	137.4	127.4	121.5	120.4	119.3	118.1	118.4	123.2
32.5°	124.8	125.9	127.7	126.2	116.7	111.5	109.7	108.2	107.1	108.2	113.7
35°	114.4	117.8	120.1	119.3	109.0	102.6	98.5	95.0	93.5	94.5	100.8
37.5°	105.6	111.1	114.1	113.4	102.6	95.2	90.1	89.3	89.3	90.8	97.0
40°	102.2	106.3	109.0	107.7	97.0	89.7	86.7	85.7	86.0	87.5	94.1
42.5°	99.4	102.9	103.8	101.5	90.8	86.0	84.3	82.7	83.5	85.2	91.9
45°	96.7	99.7	99.4	95.9	85.7	82.4	82.4	81.2	81.6	83.1	90.1
47.5°	95.0	96.4	95.6	92.3	81.9	79.4	80.5	80.5	81.2	82.4	89.3
50°	91.9	93.1	92.3	89.3	79.1	76.7	78.0	79.4	80.0	81.2	87.5
52.5°	89.0	89.7	89.3	86.3	76.0	74.6	74.6	76.0	77.6	79.1	84.5
55°	86.0	86.7	87.1	84.9	73.8	72.4	72.0	72.0	73.5	75.6	81.6
57.5°	83.8	83.8	84.5	83.1	71.7	69.8	67.9	68.4	70.2	72.0	78.0
60°	81.2	81.6	82.7	81.2	68.7	65.8	64.3	66.0	66.8	68.7	75.0
62.5°	79.1	79.1	79.8	78.6	66.0	63.2	62.1	63.9	63.9	65.8	72.0
65°	77.2	76.7	76.7	76.4	63.5	60.5	59.7	60.5	60.9	62.7	69.0
67.5°	75.6	73.8	73.8	74.6	60.9	58.0	57.6	57.6	58.0	60.1	65.8
70°	72.4	70.8	70.4	73.1	58.3	54.6	54.6	53.9	54.6	55.8	61.7
72.5°	68.7	67.6	67.3	70.8	55.8	50.9	50.2	49.9	50.2	51.4	56.9
75°	63.9	63.2	63.9	69.3	53.2	46.9	45.8	45.5	45.5	45.8	51.7
77.5°	58.3	57.6	63.2	64.6	51.7	42.1	41.1	40.2	39.4	39.4	46.2
80°	51.7	51.4	60.9	54.6	49.4	36.9	35.0	34.0	33.2	32.9	39.4
82.5°	45.0	44.2	52.0	42.8	41.1	30.3	27.7	25.5	24.3	24.3	30.3
85°	36.9	36.6	41.1	31.4	28.4	22.2	18.4	16.6	15.1	15.1	19.6
87.5°	26.9	26.2	25.5	18.9	14.5	10.1	6.9	6.6	5.8	5.5	8.2
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°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1458.3	1488.9	1546.9	1594.5	1658.0	1708.9	1767.0	1792.1
5°	1087.9	1136.4	1225.0	1300.7	1405.5	1502.7	1613.4	1673.9
7.5°	780.4	852.1	919.2	1013.7	1144.9	1275.1	1418.5	1498.6
10°	645.7	711.5	768.9	836.2	937.4	1084.0	1254.9	1345.3
12.5°	535.0	605.8	666.7	738.8	823.7	956.2	1151.2	1256.4
15°	410.2	487.3	560.5	647.1	751.3	902.6	1120.1	1237.5
17.5°	281.0	363.6	453.7	559.7	685.1	880.2	1149.7	1294.4
20°	190.9	251.4	349.3	474.8	625.8	869.5	1214.7	1411.4
22.5°	156.9	184.2	257.8	395.1	577.0	881.2	1320.1	1565.3
25°	144.0	158.7	200.5	324.8	539.7	912.7	1463.1	1739.3
27.5°	135.9	148.4	175.8	274.7	505.4	955.4	1637.0	1951.8
30°	131.1	142.9	165.7	248.8	474.0	992.4	1786.5	2112.2
32.5°	120.4	129.3	148.0	234.1	451.5	1022.4	1918.3	2262.0
35°	107.4	118.1	133.7	224.4	450.8	1036.4	2042.3	2427.8
37.5°	102.6	112.9	124.4	219.2	455.3	1048.1	2194.1	2615.8
40°	99.7	109.0	118.1	218.6	458.9	1057.3	2342.5	2811.3
42.5°	97.0	106.3	117.0	213.3	457.4	1069.9	2473.9	2979.4
45°	96.4	105.6	119.7	205.6	457.1	1089.5	2578.4	3113.7
47.5°	95.6	109.7	118.8	197.2	455.6	1130.8	2696.3	3238.8
50°	95.0	117.0	113.7	185.3	444.5	1201.4	2854.5	3382.2
52.5°	94.5	118.1	108.2	169.2	424.5	1305.9	3086.4	3581.5
55°	93.1	112.3	98.5	147.7	395.8	1418.5	3334.9	3816.0
57.5°	89.7	100.0	93.1	126.7	354.4	1497.0	3518.4	3997.3
60°	97.8	86.0	89.3	115.9	305.0	1511.0	3526.6	4048.2
62.5°	93.5	78.2	85.7	112.3	270.2	1419.5	3365.2	3987.2
65°	74.6	74.2	82.4	115.9	265.1	1214.7	3092.8	3806.7
67.5°	67.9	71.2	79.1	120.4	268.5	957.0	2691.9	3385.2
70°	63.5	67.6	74.6	124.4	274.3	753.9	2167.2	2753.0
72.5°	59.1	62.4	70.2	128.5	270.2	594.8	1734.4	2120.5
75°	53.4	56.6	63.9	117.8	231.9	437.1	1378.2	1505.9
77.5°	47.3	49.9	56.1	93.1	174.2	304.3	1032.2	1085.4
80°	40.7	41.7	46.5	67.9	113.7	181.9	785.7	865.7
82.5°	32.1	32.5	35.5	49.9	70.8	116.3	544.9	622.0
85°	20.8	21.4	22.8	35.0	47.6	74.6	278.4	319.0
87.5°	6.9	8.2	8.2	17.0	23.3	41.3	85.2	62.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)