

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: P271330

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271330
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-SLL-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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

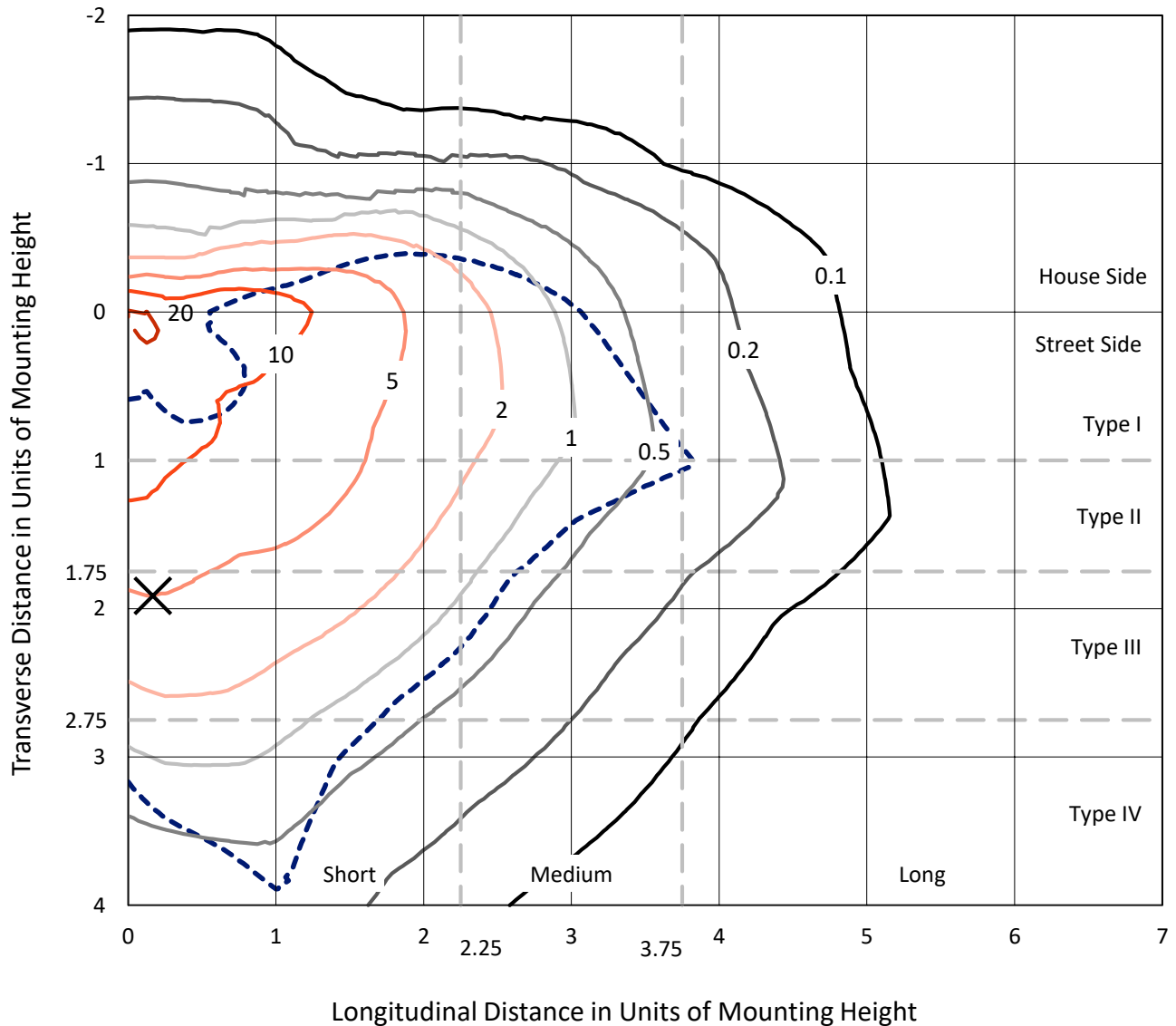


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

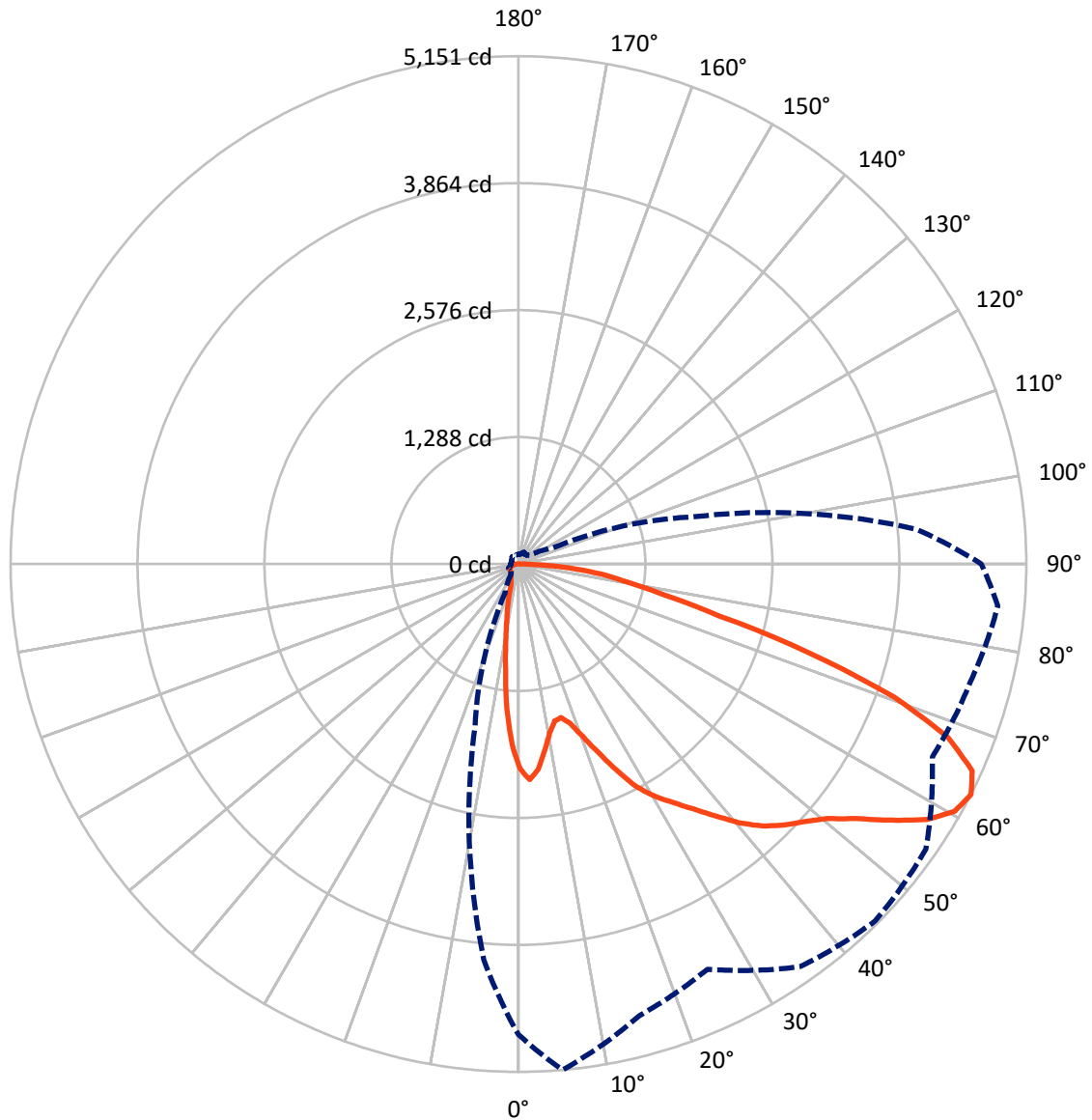


Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
 Type IV - Short - Non-Cutoff

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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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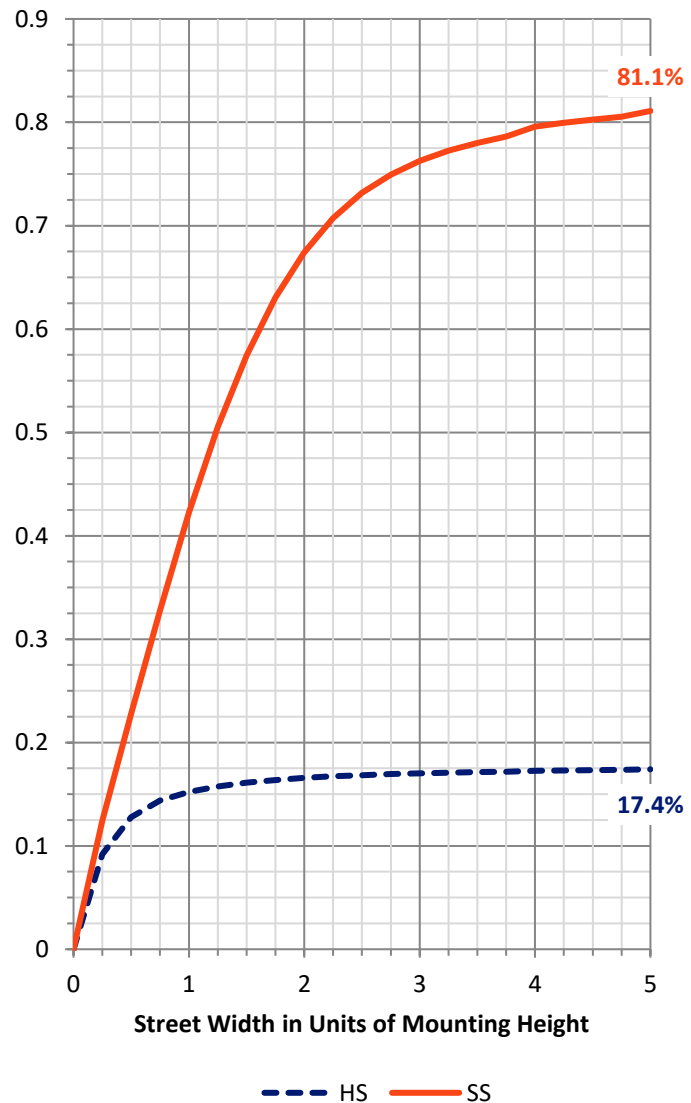
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	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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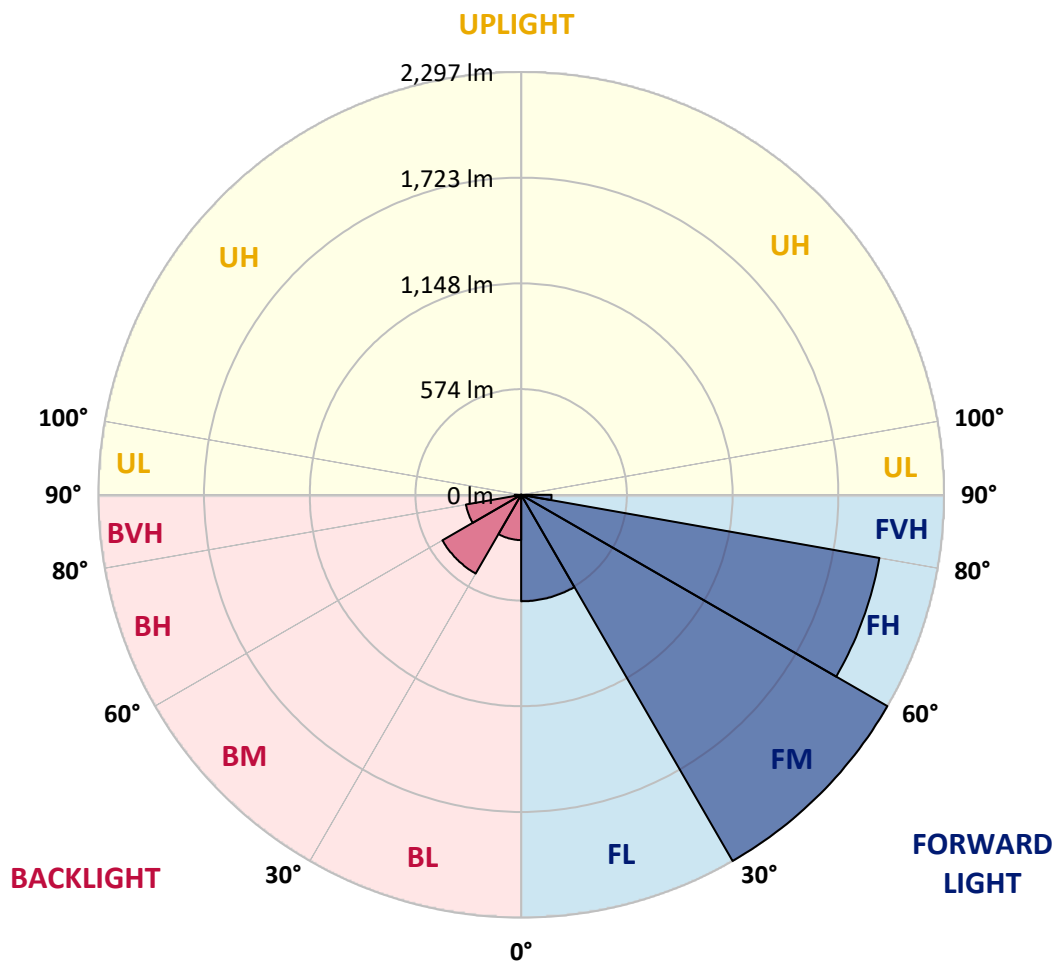
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	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	2191.0	2243.1	2311.2	2357.6	2376.1	2391.6	2365.5	2340.4	2293.1	2276.2
5°	2003.9	2091.6	2235.2	2371.7	2492.0	2560.9	2582.1	2533.8	2448.2	2324.5	2259.0
7.5°	1794.1	1909.3	2111.3	2312.4	2484.9	2599.8	2608.1	2512.6	2343.9	2141.0	2034.9
10°	1610.7	1741.1	1974.8	2199.8	2382.3	2500.0	2476.9	2343.0	2139.3	1908.4	1788.7
12.5°	1504.1	1634.5	1872.6	2101.2	2273.2	2317.7	2270.9	2158.3	1965.1	1733.9	1613.3
15°	1481.6	1616.0	1836.5	2029.2	2135.7	2107.0	2060.5	2003.5	1866.0	1677.0	1560.3
17.5°	1549.7	1700.0	1884.6	1990.3	1985.9	1917.0	1878.0	1889.0	1865.6	1738.8	1616.8
20°	1689.7	1867.3	2007.2	1979.7	1866.5	1769.8	1747.3	1833.8	1942.1	1893.9	1760.0
22.5°	1874.0	2076.5	2174.2	2010.1	1804.2	1700.0	1695.6	1830.7	2081.4	2128.7	1965.5
25°	2082.2	2318.3	2342.6	2064.0	1797.6	1693.8	1689.7	1878.4	2248.8	2361.1	2195.7
27.5°	2336.9	2562.2	2483.2	2136.1	1826.8	1711.8	1714.4	1959.8	2423.4	2590.9	2455.2
30°	2528.5	2735.5	2569.7	2206.9	1873.7	1743.7	1750.3	2047.7	2517.6	2750.5	2662.5
32.5°	2708.1	2883.6	2652.9	2276.8	1942.1	1791.0	1813.9	2157.4	2630.7	2887.5	2858.3
35°	2906.6	3049.2	2745.2	2351.5	2040.2	1874.0	1907.2	2261.7	2743.1	3024.6	3052.4
37.5°	3131.5	3238.8	2845.6	2457.0	2181.7	2027.8	2046.3	2368.2	2821.2	3176.1	3260.6
40°	3365.8	3451.5	2955.2	2598.0	2387.2	2235.6	2244.4	2504.7	2882.8	3333.0	3462.5
42.5°	3566.9	3633.6	3065.1	2773.1	2623.2	2447.3	2454.8	2651.9	2941.4	3468.3	3624.3
45°	3727.7	3776.8	3169.1	2957.4	2875.1	2711.7	2709.8	2801.8	3020.1	3582.4	3748.5
47.5°	3877.5	3903.7	3284.9	3136.8	3136.3	3051.9	2988.8	2978.6	3124.8	3678.2	3856.9
50°	4049.1	4058.8	3437.9	3318.0	3455.5	3442.2	3325.5	3203.0	3260.6	3786.0	3970.4
52.5°	4287.8	4288.1	3627.4	3494.9	3807.7	3849.7	3714.0	3457.2	3461.2	3996.0	4166.7
55°	4568.4	4587.9	3874.5	3706.5	4176.4	4247.9	4120.3	3759.1	3749.4	4334.6	4484.9
57.5°	4785.5	4888.4	4162.2	3971.2	4520.7	4614.0	4511.0	4072.0	4103.5	4683.9	4747.5
60°	4846.4	5087.3	4449.0	4268.2	4812.0	4952.0	4847.3	4410.1	4449.9	4910.6	4823.0
62.5°	4773.6	5151.4	4741.3	4534.4	4984.8	5119.1	5044.1	4631.7	4732.5	4881.3	4695.4
65°	4557.5	5058.5	4994.9	4647.6	4885.3	4933.0	4913.2	4643.1	4885.8	4605.5	4342.0
67.5°	4052.7	4700.7	4881.7	4405.7	4420.7	4369.5	4343.5	4327.6	4713.3	4160.5	3785.2
70°	3295.9	4038.9	4342.0	3687.2	3575.8	3526.1	3440.5	3652.6	4236.4	3544.7	3115.1
72.5°	2538.8	3090.0	3561.6	2795.2	2563.6	2580.3	2483.2	2792.9	3509.4	2740.3	2378.4
75°	1802.9	2107.0	2842.9	2008.4	1701.7	1700.9	1693.2	2010.1	2769.0	1966.8	1740.1
77.5°	1299.5	1516.9	2227.2	1344.1	1207.5	1223.0	1198.2	1366.2	2158.6	1414.8	1289.2
80°	1036.5	1123.2	1439.5	896.4	899.1	935.2	929.9	934.3	1420.1	1024.5	964.1
82.5°	744.8	852.6	1100.6	686.8	594.5	632.9	640.4	693.0	1002.0	724.5	635.6
85°	381.9	519.8	1012.6	594.9	371.7	308.1	354.6	546.8	870.3	434.1	309.8
87.5°	74.3	144.1	742.1	330.5	167.1	84.4	139.2	231.7	506.0	78.7	38.4
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°	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3	2078.3
2.5°	2247.5	2191.0	2137.8	2083.1	2040.7	1988.9	1938.2	1893.9	1851.0	1822.8	1831.6
5°	2192.8	2054.9	1931.0	1816.2	1749.0	1668.1	1596.0	1535.5	1488.6	1458.6	1476.8
7.5°	1943.0	1756.5	1593.4	1441.8	1346.3	1241.5	1157.6	1098.4	1062.1	1041.8	1071.4
10°	1687.6	1478.0	1295.0	1137.3	1043.1	954.3	878.3	815.5	766.9	743.8	755.8
12.5°	1504.5	1271.6	1079.9	973.8	892.8	813.2	734.5	661.2	599.3	571.1	565.4
15°	1436.0	1160.7	964.9	846.5	766.0	679.4	594.5	515.7	457.0	432.8	427.5
17.5°	1466.0	1136.7	896.8	756.7	640.0	534.9	439.4	365.2	321.8	308.1	309.3
20°	1571.8	1145.7	842.0	664.2	520.2	395.6	300.2	248.8	230.2	227.2	230.8
22.5°	1716.8	1181.9	802.1	584.7	414.6	287.7	223.1	198.9	194.0	193.6	197.1
25°	1908.1	1252.5	775.6	514.0	327.5	228.1	194.5	180.7	176.7	177.7	181.2
27.5°	2133.5	1342.3	758.4	453.0	269.2	203.3	181.6	169.7	165.7	166.6	169.3
30°	2339.5	1420.9	732.7	407.1	241.7	194.5	174.6	162.7	157.4	157.4	159.1
32.5°	2523.8	1489.1	702.7	372.5	216.6	174.6	158.2	148.9	144.9	146.3	147.2
35°	2687.3	1524.9	679.4	352.2	196.2	160.8	144.5	134.8	129.4	130.3	131.7
37.5°	2848.2	1538.5	663.8	341.3	181.6	152.5	137.5	129.4	123.7	122.9	122.3
40°	3001.1	1535.5	649.3	338.1	171.9	146.3	132.9	125.9	120.3	118.8	118.4
42.5°	3133.3	1525.3	635.6	329.7	165.3	141.9	129.4	123.2	117.6	115.8	115.0
45°	3253.9	1519.2	620.5	314.2	168.8	140.1	127.6	121.1	115.8	113.5	112.6
47.5°	3387.9	1541.2	603.8	297.5	168.0	140.6	127.6	120.3	115.0	112.6	111.7
50°	3547.4	1616.0	583.0	274.5	160.0	150.2	127.3	118.8	114.1	112.6	110.9
52.5°	3772.8	1737.1	554.3	244.9	153.8	160.4	126.8	116.7	112.6	110.5	108.2
55°	4081.8	1858.1	517.2	213.4	144.1	153.4	127.6	114.1	109.7	107.3	104.7
57.5°	4335.0	1950.1	470.4	187.3	135.3	144.9	126.4	110.9	106.1	103.8	101.7
60°	4318.7	1958.9	425.6	170.6	130.0	130.3	129.4	108.8	102.9	101.1	99.4
62.5°	4051.3	1849.7	384.0	162.2	125.9	118.8	132.1	106.1	99.9	98.2	96.7
65°	3606.2	1595.6	361.9	162.2	122.3	112.6	115.3	102.5	96.7	95.0	94.1
67.5°	3041.8	1282.2	341.3	165.7	117.6	108.2	104.7	99.1	93.8	91.9	91.1
70°	2438.0	1009.1	326.7	164.0	113.1	103.5	99.1	94.1	88.8	88.5	87.6
72.5°	1912.5	810.6	319.9	164.0	106.4	97.6	93.2	89.7	84.4	84.0	82.6
75°	1532.4	608.6	292.6	160.8	99.9	90.2	86.1	83.2	77.9	78.2	77.3
77.5°	1186.8	430.5	244.3	144.9	91.4	81.7	78.7	76.4	70.2	70.7	70.7
80°	928.2	280.2	189.6	120.3	81.7	72.0	69.9	68.1	61.4	62.3	62.3
82.5°	636.0	166.6	137.5	96.7	70.2	61.4	60.9	58.3	51.3	51.7	52.6
85°	347.5	109.7	91.4	71.7	55.2	49.9	49.0	47.7	41.1	41.1	41.5
87.5°	64.0	58.7	53.9	47.3	37.1	35.8	34.5	35.8	30.9	30.1	30.1
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):

	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°	1810.9	1780.4	1759.2	1740.6	1695.9	1699.1	1705.3	1714.1	1686.2	1700.9	1718.8
5°	1458.6	1433.3	1414.4	1384.7	1322.5	1300.3	1286.3	1280.1	1238.5	1247.2	1266.7
7.5°	1075.5	1074.9	1068.3	1035.1	960.0	914.5	884.4	875.2	849.4	859.1	888.9
10°	757.1	765.0	762.0	732.4	665.1	632.4	625.8	644.4	644.9	663.8	714.7
12.5°	547.2	542.8	538.9	514.5	464.1	458.8	473.9	499.5	505.7	526.0	579.0
15°	408.4	397.8	395.6	376.6	343.4	348.4	359.3	372.5	373.1	387.2	430.9
17.5°	306.3	306.3	309.8	297.5	273.7	271.4	265.5	262.0	256.7	262.6	286.4
20°	237.8	248.8	257.6	250.5	229.0	218.4	207.2	200.2	196.2	196.6	203.7
22.5°	203.7	212.5	224.0	220.5	202.5	188.7	181.6	176.7	173.7	173.7	177.7
25°	186.5	192.2	202.8	201.1	185.6	174.6	168.8	164.0	160.4	160.0	164.0
27.5°	172.8	176.3	183.4	182.5	166.6	159.5	156.0	152.9	150.7	150.2	154.2
30°	160.4	162.2	165.7	164.4	152.5	145.4	144.1	142.8	141.5	141.9	147.6
32.5°	149.4	150.7	152.9	151.2	139.6	133.5	131.2	129.4	128.2	129.4	136.2
35°	137.0	141.0	143.6	142.8	130.3	122.9	117.9	113.5	111.7	113.1	120.6
37.5°	126.4	132.9	136.6	135.7	122.9	114.1	107.8	107.0	107.0	108.8	116.2
40°	122.3	127.3	130.3	129.0	116.2	107.3	103.8	102.5	102.9	104.7	112.6
42.5°	118.8	123.2	124.1	121.5	108.8	102.9	100.8	99.1	99.9	102.0	110.0
45°	115.8	119.4	118.8	115.0	102.5	98.5	98.5	97.2	97.6	99.4	107.8
47.5°	113.5	115.3	114.4	110.5	98.2	95.0	96.4	96.4	97.2	98.5	107.0
50°	110.0	111.4	110.5	107.0	94.6	91.9	93.2	95.0	95.8	97.2	104.7
52.5°	106.4	107.3	107.0	103.5	91.1	89.3	89.3	91.1	92.9	94.6	101.1
55°	102.9	103.8	104.4	101.7	88.5	86.6	86.1	86.1	87.9	90.5	97.6
57.5°	100.3	100.3	101.1	99.4	85.8	83.5	81.3	81.7	84.0	86.1	93.2
60°	97.2	97.6	99.1	97.2	82.3	78.7	77.0	79.1	79.9	82.3	89.7
62.5°	94.6	94.6	95.5	94.1	79.1	75.5	74.3	76.4	76.4	78.7	86.1
65°	92.3	91.9	91.9	91.4	76.0	72.6	71.7	72.6	72.9	75.2	82.6
67.5°	90.5	88.5	88.5	89.3	72.9	69.3	69.0	69.0	69.3	72.0	78.7
70°	86.6	84.9	84.4	87.6	69.9	65.3	65.3	64.5	65.3	66.7	73.8
72.5°	82.3	80.8	80.5	84.9	66.7	60.9	60.0	59.6	60.0	61.4	68.1
75°	76.4	75.5	76.4	83.2	63.6	56.1	54.7	54.3	54.3	54.7	61.9
77.5°	69.9	69.0	75.5	77.3	61.9	50.3	49.0	48.1	47.3	47.3	55.2
80°	61.9	61.4	72.9	65.3	59.2	44.1	42.0	40.7	39.7	39.3	47.3
82.5°	53.9	53.0	62.3	51.3	49.0	36.2	33.1	30.5	29.1	29.1	36.2
85°	44.1	43.7	49.0	37.5	34.0	26.5	22.1	19.9	18.1	18.1	23.4
87.5°	32.2	31.4	30.5	22.5	17.2	11.9	8.4	7.9	7.0	6.6	9.7
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°	1745.9	1782.5	1851.9	1909.0	1985.0	2046.0	2115.4	2145.4
5°	1302.5	1360.5	1466.6	1557.1	1682.6	1798.9	1931.4	2003.9
7.5°	934.3	1020.1	1100.6	1213.7	1370.6	1526.6	1698.2	1794.1
10°	773.0	851.8	920.7	1001.2	1122.3	1297.7	1502.3	1610.7
12.5°	640.4	725.3	798.2	884.4	986.1	1144.8	1378.1	1504.1
15°	491.1	583.4	670.9	774.8	899.5	1080.8	1341.0	1481.6
17.5°	336.3	435.4	543.3	670.0	820.3	1053.7	1376.4	1549.7
20°	228.4	301.0	418.2	568.4	749.1	1040.9	1454.1	1689.7
22.5°	187.8	220.5	308.5	473.0	690.8	1055.0	1580.6	1874.0
25°	172.4	190.0	239.9	389.0	646.2	1092.6	1751.7	2082.2
27.5°	162.7	177.7	210.5	328.8	605.1	1143.9	1959.8	2336.9
30°	156.9	171.0	198.4	297.9	567.5	1188.1	2138.8	2528.5
32.5°	144.1	154.7	177.2	280.2	540.6	1223.9	2296.5	2708.1
35°	128.5	141.5	160.0	268.8	539.7	1240.6	2445.0	2906.6
37.5°	122.9	135.3	148.9	262.6	545.0	1254.8	2626.7	3131.5
40°	119.4	130.3	141.5	261.6	549.5	1265.8	2804.4	3365.8
42.5°	116.2	127.3	140.1	255.5	547.6	1281.0	2961.8	3566.9
45°	115.3	126.4	143.2	246.1	547.2	1304.2	3086.8	3727.7
47.5°	114.4	131.2	142.3	236.1	545.5	1353.8	3227.9	3877.5
50°	113.5	140.1	136.2	221.9	532.2	1438.2	3417.5	4049.1
52.5°	113.1	141.5	129.4	202.5	508.4	1563.3	3695.1	4287.8
55°	111.4	134.3	117.9	176.7	473.9	1698.2	3992.4	4568.4
57.5°	107.3	119.7	111.4	151.6	424.3	1792.3	4212.2	4785.5
60°	117.0	102.9	107.0	138.8	365.2	1809.0	4221.9	4846.4
62.5°	111.7	93.8	102.5	134.3	323.5	1699.5	4028.8	4773.6
65°	89.3	88.8	98.5	138.8	317.3	1454.1	3702.5	4557.5
67.5°	81.3	85.2	94.6	144.1	321.4	1145.7	3222.6	4052.7
70°	76.0	80.8	89.3	148.9	328.4	902.5	2594.5	3295.9
72.5°	70.7	74.6	84.0	153.8	323.5	712.0	2076.5	2538.8
75°	64.0	67.6	76.4	141.0	277.5	523.4	1649.9	1802.9
77.5°	56.6	59.6	67.3	111.4	208.6	364.3	1235.8	1299.5
80°	48.6	49.9	55.7	81.3	136.2	217.8	940.5	1036.5
82.5°	38.4	38.8	42.4	59.6	84.9	139.2	652.3	744.8
85°	24.8	25.6	27.4	42.0	57.0	89.3	333.2	381.9
87.5°	8.4	9.7	9.7	20.3	27.8	49.4	102.0	74.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)