

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: P199243

Luminaire Tested: **XNV2-AF-02-LED-U-T2R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199243  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24459)  
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-T2R-8030-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6794 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-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

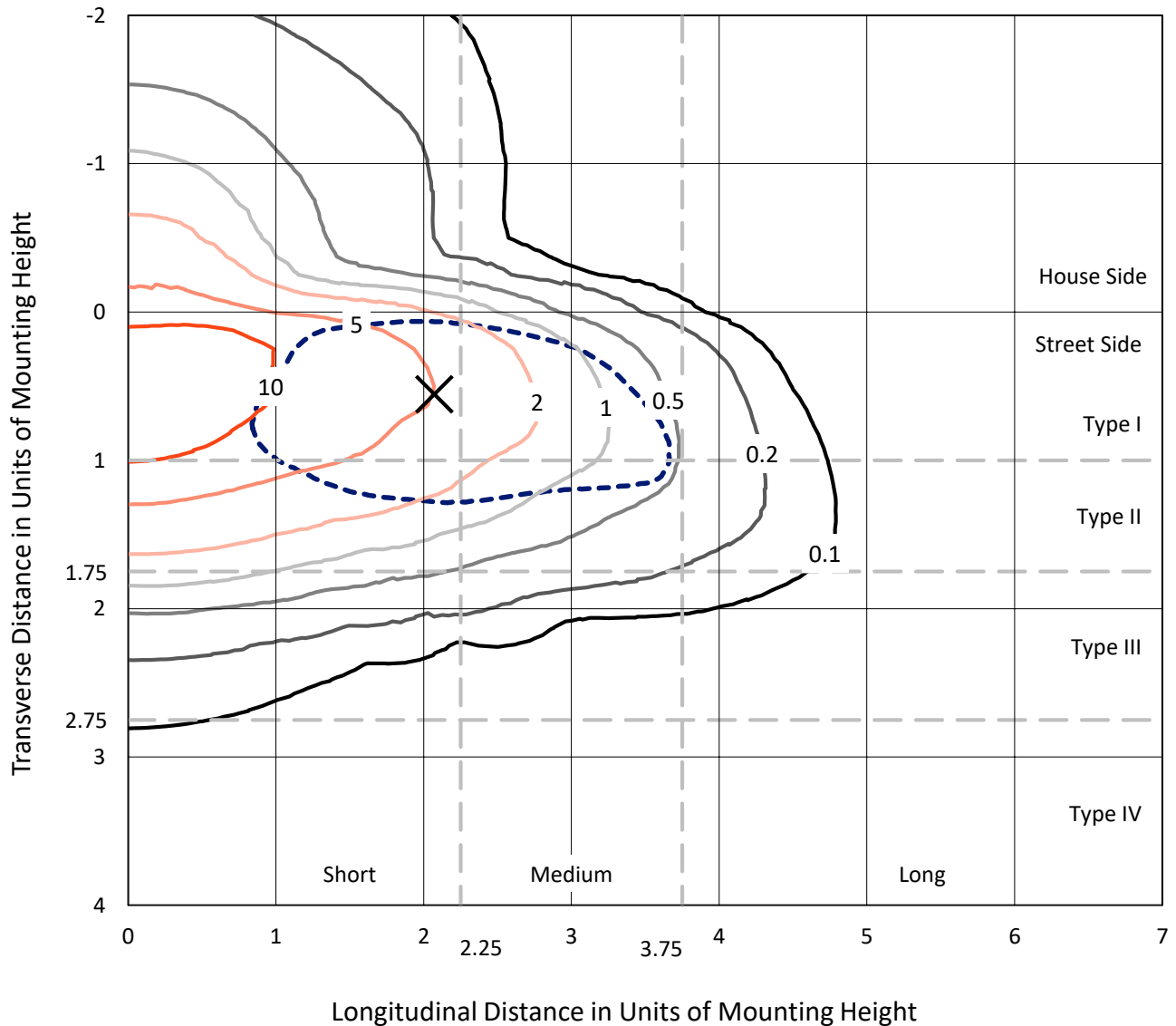


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

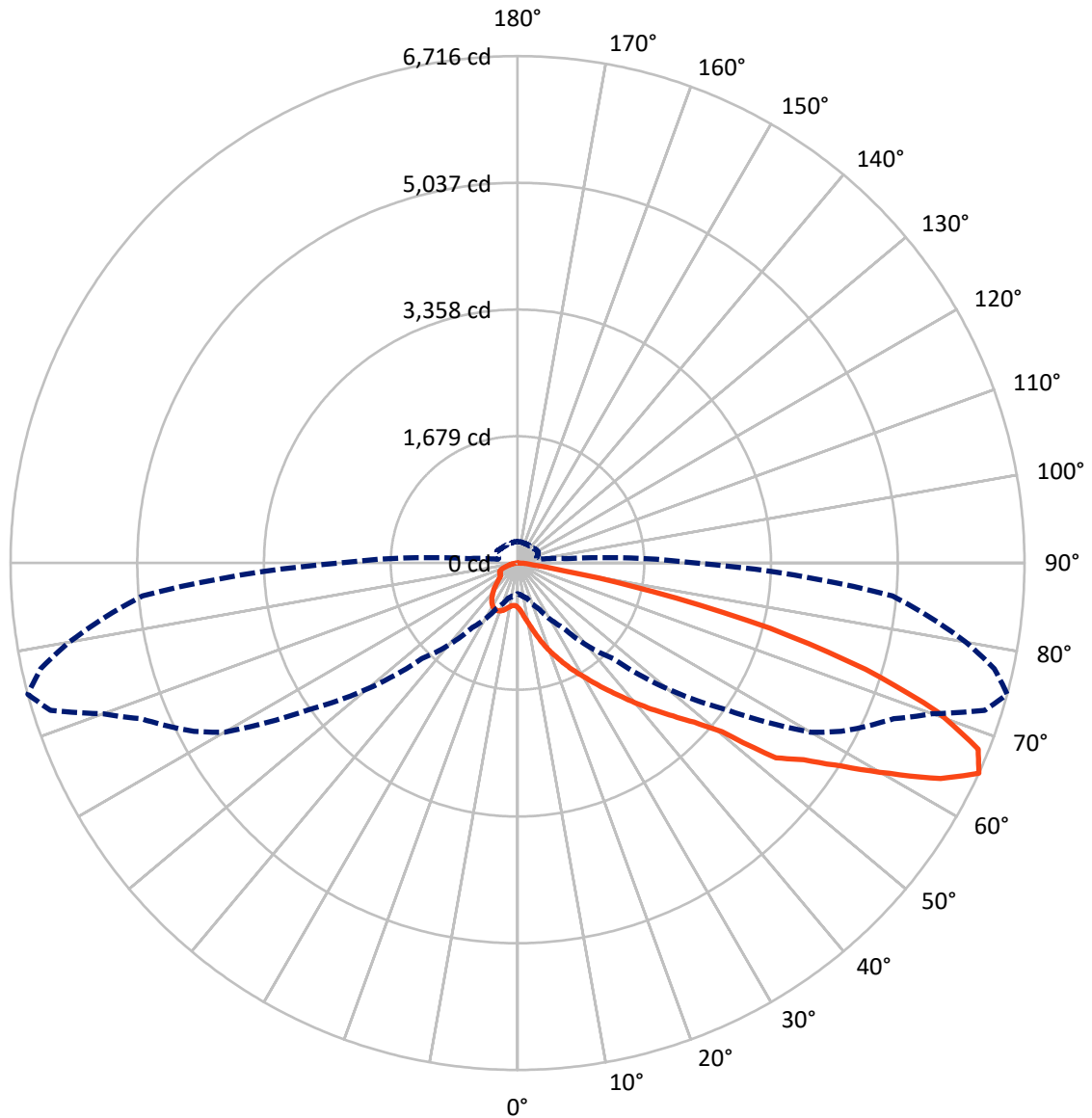


Based on 10 foot mounting height. Maximum calculated value = 16.9 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1020.9	0.0	1020.9
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	5773.1	0.0	5773.1
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	6794.0	0.0	6794.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.5	1.0
10°-20°	265.4	3.9
20°-30°	535.7	7.9
30°-40°	909.7	13.4
40°-50°	1268.9	18.7
50°-60°	1555.1	22.9
60°-70°	1463.2	21.5
70°-80°	641.6	9.4
80°-90°	84.9	1.2
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°	6794.0	100.0
0°-180°	6794.0	100.0

**Coefficient of Utilization**



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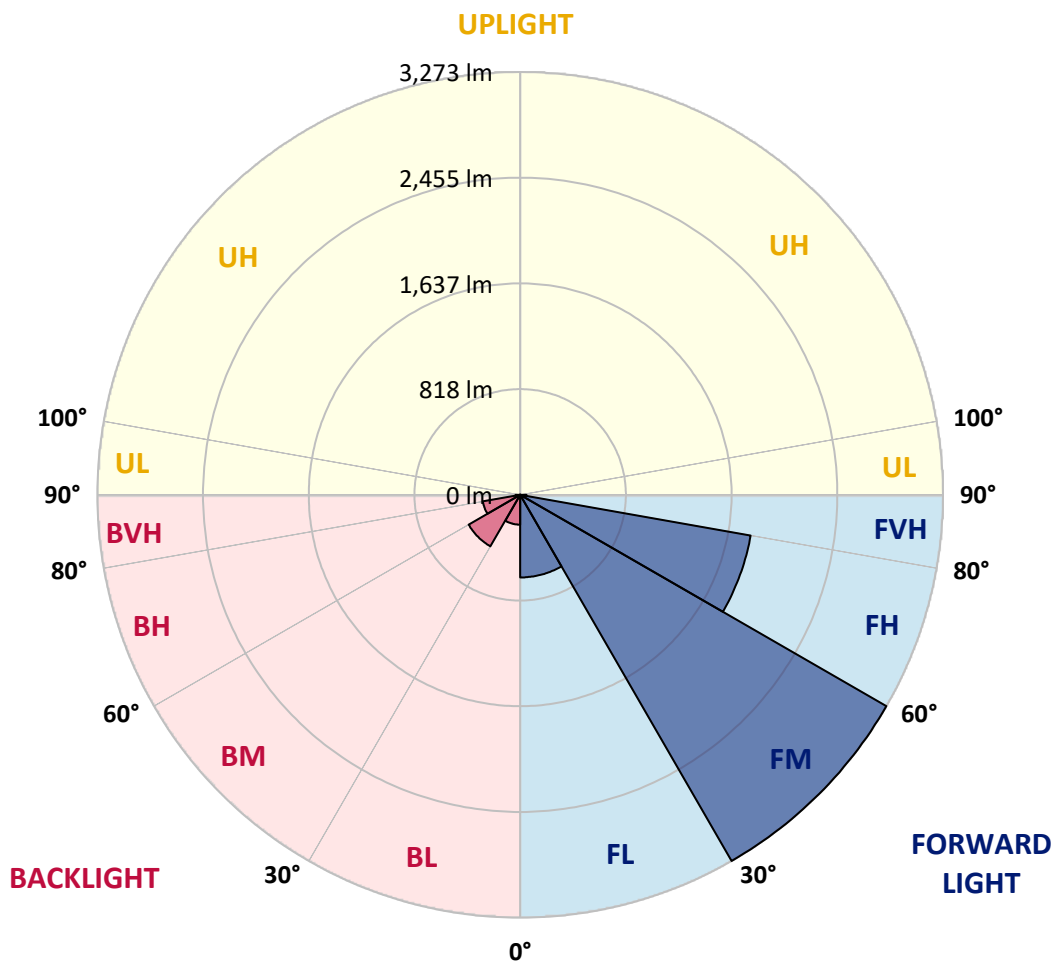
CATALOG NUMBER: XNV2-AF-02-LED-U-T2R-8030-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.5	9.4			
FM (30°-60°)	3273.0	48.2			
FH (60°-80°)	1811.3	26.7			G2/5000
FVH (80°-90°)	49.2	0.7			G1/100
BL (0°-30°)	231.1	3.4	B1/500		
BM (30°-60°)	460.7	6.8	B1/1000		
BH (60°-80°)	293.4	4.3	B1/500		G1/500
BVH (80°-90°)	35.7	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57.5°	60°	62.5°	65°
0°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	741.2	732.6	733.4	721.3	703.6	684.2	668.2	659.5	652.2	650.0	637.9
5°	969.4	958.6	954.7	927.1	885.6	836.3	787.5	768.5	752.9	743.4	720.0
7.5°	1156.1	1150.5	1145.3	1119.8	1078.8	1015.7	937.0	908.9	883.0	854.5	826.4
10°	1283.2	1281.0	1278.9	1261.2	1227.0	1172.1	1087.4	1056.7	1024.3	988.0	951.3
12.5°	1379.2	1379.2	1380.9	1366.2	1345.4	1303.1	1226.2	1197.6	1164.8	1126.7	1084.8
15°	1443.6	1445.3	1454.4	1458.7	1447.9	1420.6	1353.2	1328.2	1297.0	1259.4	1217.9
17.5°	1486.3	1489.8	1503.2	1517.5	1531.3	1521.8	1471.6	1448.3	1420.2	1385.6	1346.7
20°	1585.7	1581.4	1581.9	1577.5	1597.8	1605.2	1577.5	1558.1	1535.6	1504.1	1468.6
22.5°	1794.5	1786.3	1765.1	1711.1	1686.5	1683.9	1667.4	1657.1	1639.8	1619.9	1584.5
25°	2066.8	2057.3	2015.4	1926.3	1852.8	1785.0	1754.7	1748.3	1737.0	1723.6	1698.1
27.5°	2348.2	2337.8	2283.8	2171.4	2075.4	1938.4	1844.2	1835.6	1825.2	1819.6	1807.5
30°	2595.8	2584.6	2531.4	2417.3	2301.5	2138.1	1964.8	1934.5	1916.8	1918.5	1911.6
32.5°	2813.2	2803.3	2743.6	2627.4	2509.8	2351.2	2121.2	2074.1	2034.4	2019.7	2024.9
35°	2995.6	2986.5	2921.3	2804.1	2685.7	2553.9	2322.7	2251.8	2186.9	2146.3	2141.6
37.5°	3102.8	3097.6	3051.8	2952.4	2834.8	2738.0	2548.3	2469.6	2374.1	2314.9	2288.9
40°	3096.7	3102.3	3094.6	3049.6	2958.4	2888.0	2783.4	2705.6	2612.2	2524.1	2471.3
42.5°	3008.6	3016.3	3051.3	3074.7	3050.0	3007.3	2988.7	2930.8	2846.9	2753.6	2680.5
45°	2887.5	2894.5	2939.8	3024.1	3094.6	3106.7	3168.5	3139.5	3068.6	2989.1	2908.7
47.5°	2702.1	2715.5	2768.3	2902.2	3069.9	3186.6	3319.3	3332.7	3291.6	3226.0	3150.7
50°	2433.7	2451.4	2525.4	2716.0	2976.6	3268.7	3543.6	3594.6	3578.2	3511.6	3435.6
52.5°	2158.8	2176.6	2275.1	2477.8	2826.2	3302.5	3764.5	3895.0	3989.2	4057.9	4071.3
55°	1872.7	1892.6	2000.7	2234.0	2625.6	3259.7	3922.2	4070.5	4166.0	4237.7	4266.7
57.5°	1549.9	1572.3	1676.9	1912.9	2342.1	3087.6	4097.7	4307.8	4449.9	4560.6	4622.8
60°	1179.5	1207.6	1316.1	1553.8	1969.5	2758.3	4175.9	4486.7	4712.7	4878.7	4977.2
62.5°	747.7	776.2	889.0	1135.8	1545.6	2308.4	3954.6	4408.0	4793.5	5039.0	5219.7
65°	408.0	420.5	483.2	669.0	1042.0	1791.0	3393.6	3928.3	4483.7	4831.6	5109.1
67.5°	306.0	307.7	314.2	359.6	554.9	1209.3	2653.3	3143.0	3759.7	4207.5	4539.0
70°	268.0	268.0	268.8	269.3	301.2	655.2	1797.5	2248.3	2813.6	3266.6	3678.5
72.5°	240.3	237.7	236.8	231.7	236.0	335.8	978.5	1383.5	1860.2	2368.5	2752.7
75°	207.5	207.0	207.0	201.8	204.4	236.4	424.4	663.9	1033.4	1506.7	1884.8
77.5°	179.4	176.3	176.8	173.7	182.0	181.1	201.4	273.6	449.9	791.4	1105.1
80°	147.8	145.7	146.9	145.2	158.2	134.0	135.7	167.3	223.4	347.1	489.3
82.5°	109.3	110.2	118.4	117.6	133.1	90.3	99.4	124.9	150.4	172.9	188.0
85°	64.0	65.3	85.1	89.5	97.7	47.5	60.9	74.3	83.8	92.9	96.8
87.5°	6.9	9.1	47.5	48.8	43.7	14.3	24.6	31.1	33.3	35.4	31.1
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):**

	67.5°	70°	72.5°	75°	77.5°	80°	85°	90°	95°	100°	102.5°
0°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	634.0	628.4	622.4	618.9	612.9	607.7	598.2	590.4	581.7	575.7	573.1
5°	708.4	695.0	680.7	670.3	657.4	646.1	624.5	598.6	590.4	573.1	568.8
7.5°	805.2	781.0	756.8	736.9	714.4	695.8	659.5	612.9	606.8	579.2	573.1
10°	918.9	883.4	847.5	816.9	784.0	755.5	701.9	636.2	629.7	594.3	588.2
12.5°	1045.9	1002.7	956.5	910.6	871.8	831.6	758.5	672.5	662.1	620.2	612.0
15°	1176.9	1130.2	1076.6	1021.3	973.3	920.2	828.1	720.0	701.0	651.8	640.5
17.5°	1306.1	1255.5	1199.4	1137.6	1081.4	1017.8	903.3	773.2	740.4	682.9	668.6
20°	1431.0	1379.6	1320.4	1259.9	1189.9	1117.2	980.2	825.5	775.4	708.8	690.2
22.5°	1544.7	1500.6	1441.4	1371.8	1300.9	1219.2	1058.5	877.8	806.1	728.7	704.9
25°	1664.4	1624.2	1565.4	1498.4	1415.9	1325.1	1139.3	927.5	830.7	739.5	710.1
27.5°	1785.4	1750.8	1695.5	1625.1	1536.5	1435.8	1221.4	973.3	850.6	743.0	707.5
30°	1914.7	1887.9	1836.9	1758.2	1668.7	1557.2	1310.9	1018.3	863.1	738.2	695.8
32.5°	2037.0	2036.1	1990.7	1909.0	1812.7	1689.9	1405.1	1063.6	869.6	724.8	675.5
35°	2164.0	2181.8	2147.6	2069.8	1968.2	1832.1	1509.2	1112.1	870.0	701.0	649.2
37.5°	2308.4	2339.9	2324.8	2250.9	2144.2	1994.2	1631.6	1166.5	867.4	668.2	610.7
40°	2472.6	2515.8	2515.4	2453.2	2339.1	2175.7	1773.8	1227.5	861.4	627.1	565.3
42.5°	2660.6	2712.1	2726.3	2665.0	2549.6	2374.1	1936.7	1294.4	851.9	586.5	517.3
45°	2875.9	2921.3	2948.0	2891.0	2775.2	2590.2	2123.8	1370.5	840.2	534.2	462.5
47.5°	3106.2	3159.0	3199.2	3150.3	3026.7	2836.5	2345.6	1468.6	835.9	474.6	403.2
50°	3391.9	3446.4	3533.2	3511.2	3443.3	3290.4	2814.5	1700.3	837.6	417.9	353.5
52.5°	4100.7	4225.6	4335.4	4286.6	4125.4	3863.0	3195.7	1829.1	801.3	371.7	319.0
55°	4314.7	4456.4	4618.5	4598.2	4443.5	4179.0	3496.9	1936.7	766.3	338.0	296.5
57.5°	4689.0	4856.2	5082.7	5078.4	4888.6	4590.8	3884.6	2065.5	751.2	318.5	285.3
60°	5085.3	5298.4	5611.3	5660.1	5454.0	5144.1	4342.8	2223.7	753.3	307.7	278.8
62.5°	5374.9	5687.3	6142.4	6288.5	6045.6	5704.2	4818.2	2381.9	740.4	295.2	271.0
65°	5392.6	5842.5	6488.2	6715.5	6469.6	6030.9	4985.9	2350.7	662.6	278.3	258.5
67.5°	4960.4	5546.4	6330.9	6580.3	6328.7	5829.5	4692.0	2055.1	538.5	248.9	236.8
70°	4131.4	4811.7	5626.0	5903.9	5696.0	5190.7	4083.4	1641.5	402.4	210.0	204.4
72.5°	3192.7	3827.1	4566.6	4823.8	4664.8	4220.4	3220.8	1196.3	287.4	170.3	166.0
75°	2282.5	2822.7	3359.5	3457.6	3300.7	2892.7	2089.7	747.3	201.4	139.6	133.6
77.5°	1413.3	1764.7	1957.4	1831.2	1631.1	1355.8	850.6	369.1	134.0	113.7	107.6
80°	627.1	736.0	687.2	612.4	483.6	397.6	259.8	163.8	86.4	87.7	84.3
82.5°	210.9	223.0	217.0	215.7	194.5	170.3	110.2	70.9	48.4	56.2	54.9
85°	102.9	107.6	108.1	111.9	97.2	75.6	29.8	28.1	20.7	30.3	31.6
87.5°	31.1	31.6	28.5	31.1	25.1	17.3	5.6	7.8	3.9	7.3	7.3
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):**

	105°	107.5°	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°
0°	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	568.3	566.6	563.6	560.1	559.3	554.9	553.7	551.5	550.2	548.0	546.3
5°	563.2	560.1	556.7	552.8	552.8	546.7	544.1	541.5	541.5	537.7	535.9
7.5°	568.3	564.5	560.6	557.1	558.4	551.5	548.9	546.3	545.9	542.0	540.3
10°	583.0	579.2	574.4	570.9	569.6	564.0	561.0	557.1	554.5	551.9	549.3
12.5°	605.5	600.3	594.3	586.9	583.9	579.2	574.4	569.2	563.2	560.6	556.7
15°	632.3	623.7	615.5	606.4	598.2	593.4	586.9	578.7	570.5	567.0	561.9
17.5°	654.4	645.3	633.6	622.8	608.1	604.2	595.1	585.2	571.8	570.5	562.7
20°	672.9	659.1	644.8	631.9	609.4	607.2	596.0	584.3	565.3	565.3	555.8
22.5°	683.3	664.3	647.4	630.1	602.1	600.3	587.4	573.5	550.2	551.1	539.4
25°	685.0	662.1	641.0	620.2	587.8	584.8	568.3	553.2	527.7	526.0	513.9
27.5°	678.1	651.3	626.7	601.6	566.6	560.1	542.0	523.8	498.8	494.4	481.5
30°	662.1	630.6	602.9	574.0	537.2	526.9	507.8	489.3	463.8	458.1	446.0
32.5°	636.6	600.8	570.1	541.1	500.5	487.5	468.5	449.9	425.3	421.0	409.7
35°	602.9	562.7	530.3	499.6	459.0	445.6	427.4	411.0	388.5	386.8	379.0
37.5°	560.6	518.6	484.1	454.7	416.2	409.3	390.7	378.6	360.0	361.8	357.9
40°	512.6	469.8	437.0	411.0	377.7	371.7	360.5	351.4	335.4	340.1	340.6
42.5°	464.2	421.4	391.6	368.2	339.7	335.8	328.0	322.9	310.8	320.3	324.2
45°	409.3	369.5	344.0	326.3	305.1	305.1	301.2	300.8	292.6	306.0	309.9
47.5°	356.1	325.0	307.3	296.5	281.8	288.7	287.4	290.9	284.8	298.7	302.1
50°	315.9	294.3	283.5	278.3	268.0	278.8	281.4	286.1	280.9	293.0	295.6
52.5°	290.4	276.2	270.1	268.8	261.5	274.9	279.2	283.5	277.5	288.7	288.3
55°	276.2	266.7	264.5	267.1	261.5	274.4	278.8	281.8	276.6	284.4	284.0
57.5°	271.0	265.8	267.1	271.0	267.1	277.9	280.1	283.5	278.3	281.8	283.5
60°	270.6	270.6	275.7	280.9	278.3	286.1	287.4	287.0	282.2	282.7	283.5
62.5°	268.0	274.4	283.1	291.3	290.4	299.9	300.8	295.2	291.3	287.0	285.7
65°	259.8	270.6	283.1	294.3	296.1	310.8	312.5	306.9	304.3	296.9	291.3
67.5°	241.6	255.4	270.1	284.0	287.0	306.9	310.8	312.9	314.2	309.5	302.1
70°	210.9	225.2	240.3	256.3	260.6	282.7	290.9	300.8	308.6	315.5	312.9
72.5°	171.6	184.6	197.5	212.2	218.7	241.6	252.4	269.7	281.8	299.5	306.9
75°	136.1	143.9	151.7	160.8	166.0	188.4	201.8	222.6	239.0	263.6	280.1
77.5°	107.2	111.1	115.0	118.9	121.0	133.6	144.4	165.1	184.1	215.2	239.4
80°	82.6	84.7	85.1	86.4	85.6	91.6	95.5	108.1	124.5	155.2	183.7
82.5°	53.2	54.9	55.8	57.9	53.6	61.4	64.0	65.3	73.9	96.4	116.7
85°	29.8	30.3	30.7	31.6	25.5	33.3	33.7	31.6	30.7	39.8	44.9
87.5°	7.3	6.9	7.3	7.3	3.0	6.9	6.9	4.8	3.5	6.5	5.2
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):**

	135°	145°	155°	165°	175°	180°
0°	588.7	588.7	588.7	588.7	588.7	588.7
2.5°	542.4	541.5	542.0	539.8	539.0	539.4
5°	533.8	532.0	532.0	530.7	529.0	529.0
7.5°	537.7	534.2	532.9	530.3	527.7	528.2
10°	543.7	537.7	533.3	529.4	526.4	526.4
12.5°	547.6	536.8	530.3	525.1	521.7	521.7
15°	548.5	532.0	522.5	516.9	513.5	513.5
17.5°	543.3	522.5	510.4	503.1	499.2	500.1
20°	530.3	504.8	490.5	482.8	478.9	479.3
22.5°	510.0	480.6	464.2	455.1	451.2	451.2
25°	482.3	450.4	432.6	425.3	421.8	421.8
27.5°	450.8	417.9	402.4	396.8	394.6	394.6
30°	415.3	388.1	376.9	373.0	369.5	369.5
32.5°	385.5	366.1	362.2	357.0	347.9	347.5
35°	361.8	359.6	356.6	341.0	328.0	326.3
37.5°	348.8	361.8	342.7	315.9	305.6	305.1
40°	341.9	354.0	321.1	308.2	306.9	306.9
42.5°	325.4	334.1	319.8	312.5	312.5	312.9
45°	308.2	315.5	322.9	316.4	318.5	319.0
47.5°	296.1	310.8	322.9	317.2	321.6	324.2
50°	284.8	306.4	316.4	316.4	321.1	321.6
52.5°	282.2	300.4	310.3	315.1	315.5	313.3
55°	282.7	295.6	305.6	311.6	309.0	309.0
57.5°	282.2	293.0	301.7	303.8	305.1	305.1
60°	282.7	289.6	296.5	295.6	299.9	299.9
62.5°	284.0	284.8	288.3	287.4	293.9	293.9
65°	287.0	278.8	276.6	277.5	285.3	284.8
67.5°	292.6	270.6	263.6	264.1	275.3	273.6
70°	300.8	259.3	248.9	246.4	265.4	262.3
72.5°	303.4	246.4	229.9	227.3	238.6	229.9
75°	291.3	236.0	209.6	201.0	196.2	193.6
77.5°	259.8	229.5	188.4	170.3	162.9	161.2
80°	215.2	216.1	160.8	139.2	161.6	161.2
82.5°	162.5	186.7	128.8	120.6	117.1	97.7
85°	78.7	140.5	99.0	83.0	49.7	47.1
87.5°	6.9	58.8	57.1	37.2	16.9	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)