

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: P197186

Luminaire Tested: **NVN-AF-02-LED-U-SLR-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197186  
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: NVN-AF-02-LED-U-SLR-8030-600  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5784 lumens  
Efficiency: N/A  
Efficacy: 87.6 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

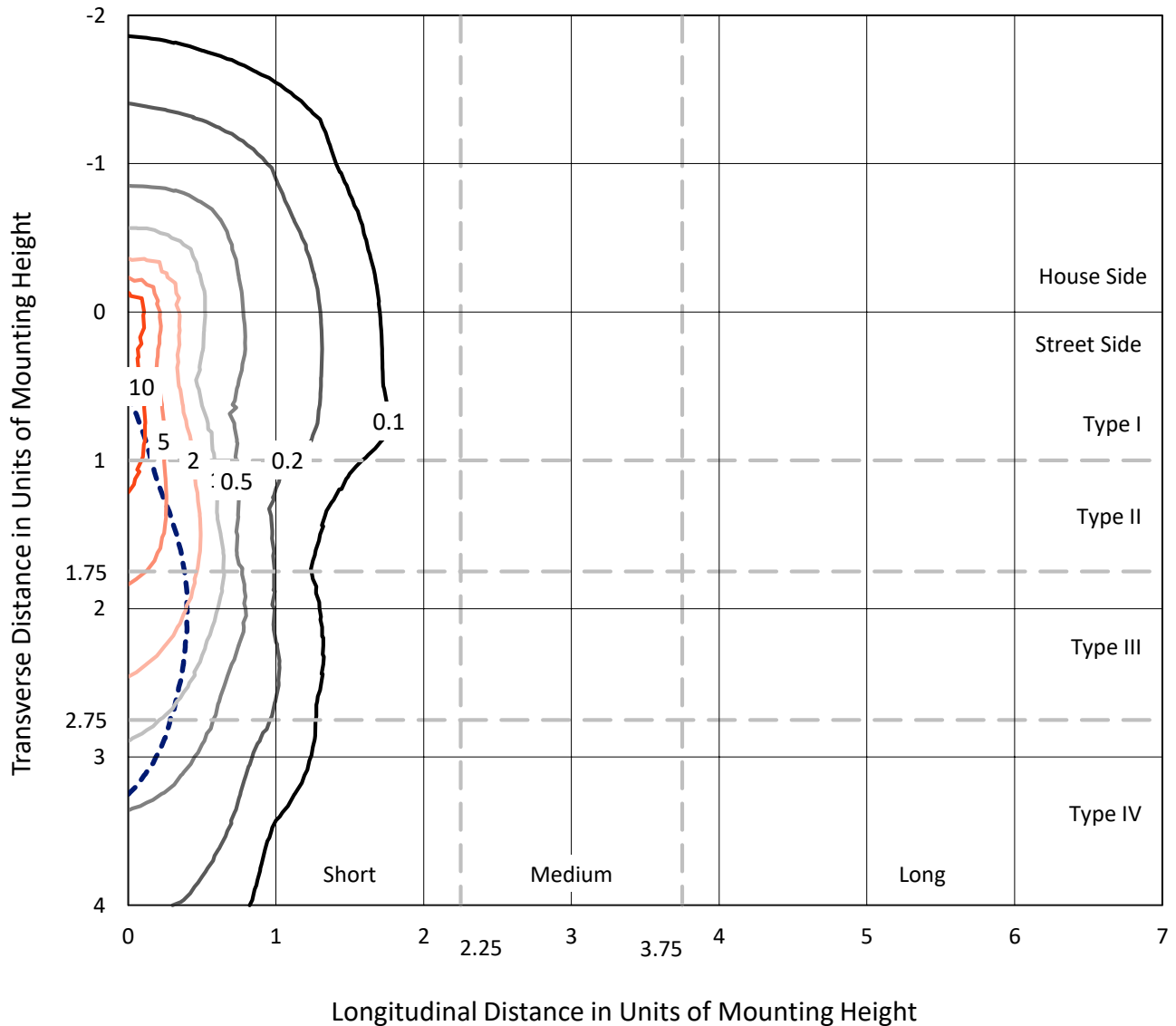
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

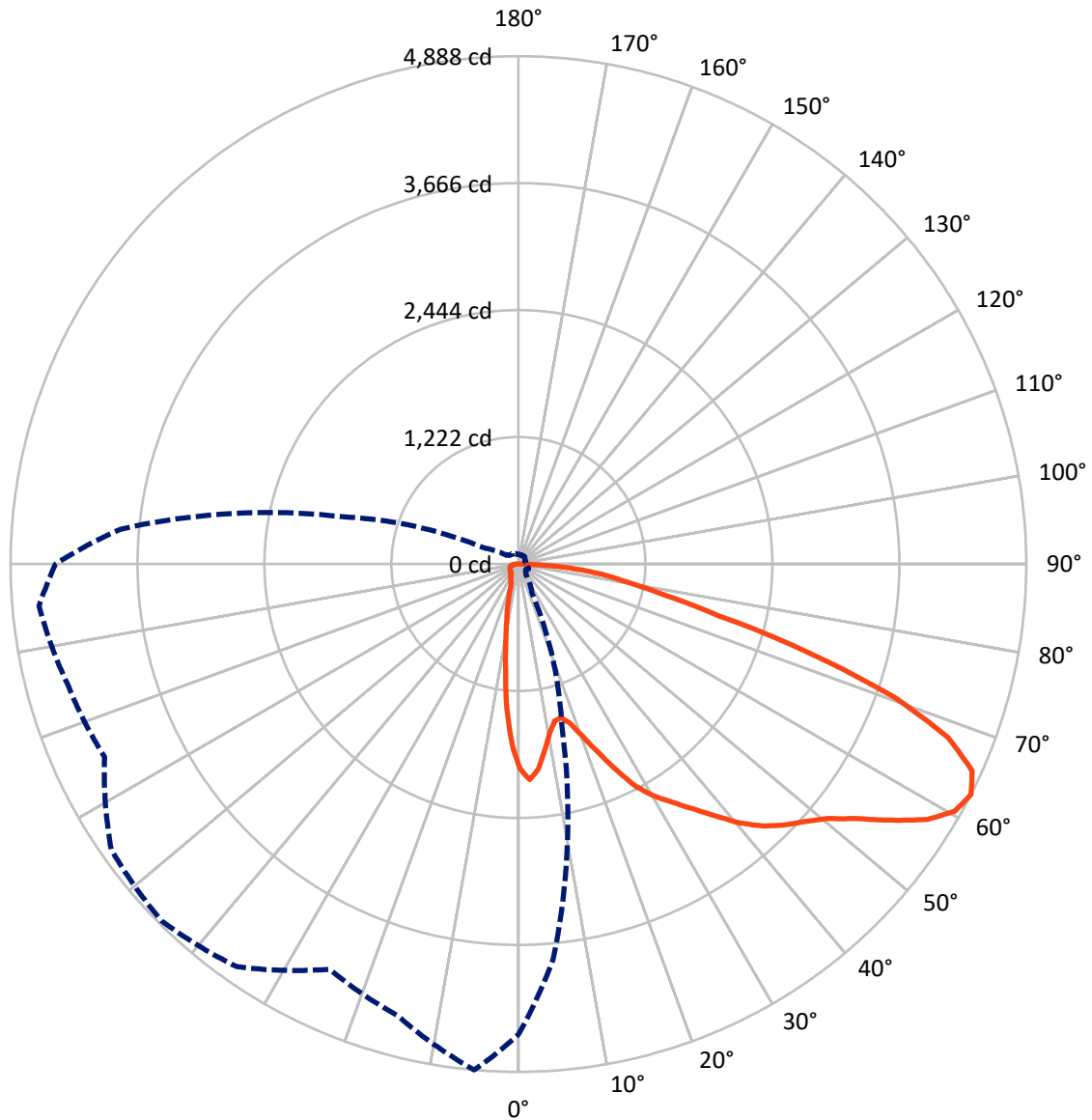
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.7 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
<b>House Side</b>	Lumens	1024.6	0.0	1024.6
	% Fixture	17.7	0.0	17.7
<b>Street Side</b>	Lumens	4759.4	0.0	4759.4
	% Fixture	82.3	0.0	82.3
<b>Total</b>	Lumens	5784.0	0.0	5784.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.4	2.5
10°-20°	261.9	4.5
20°-30°	376.7	6.5
30°-40°	577.0	10.0
40°-50°	843.6	14.6
50°-60°	1227.4	21.2
60°-70°	1422.1	24.6
70°-80°	741.3	12.8
80°-90°	190.6	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°	5784.0	100.0
0°-180°	5784.0	100.0

**Coefficient of Utilization**



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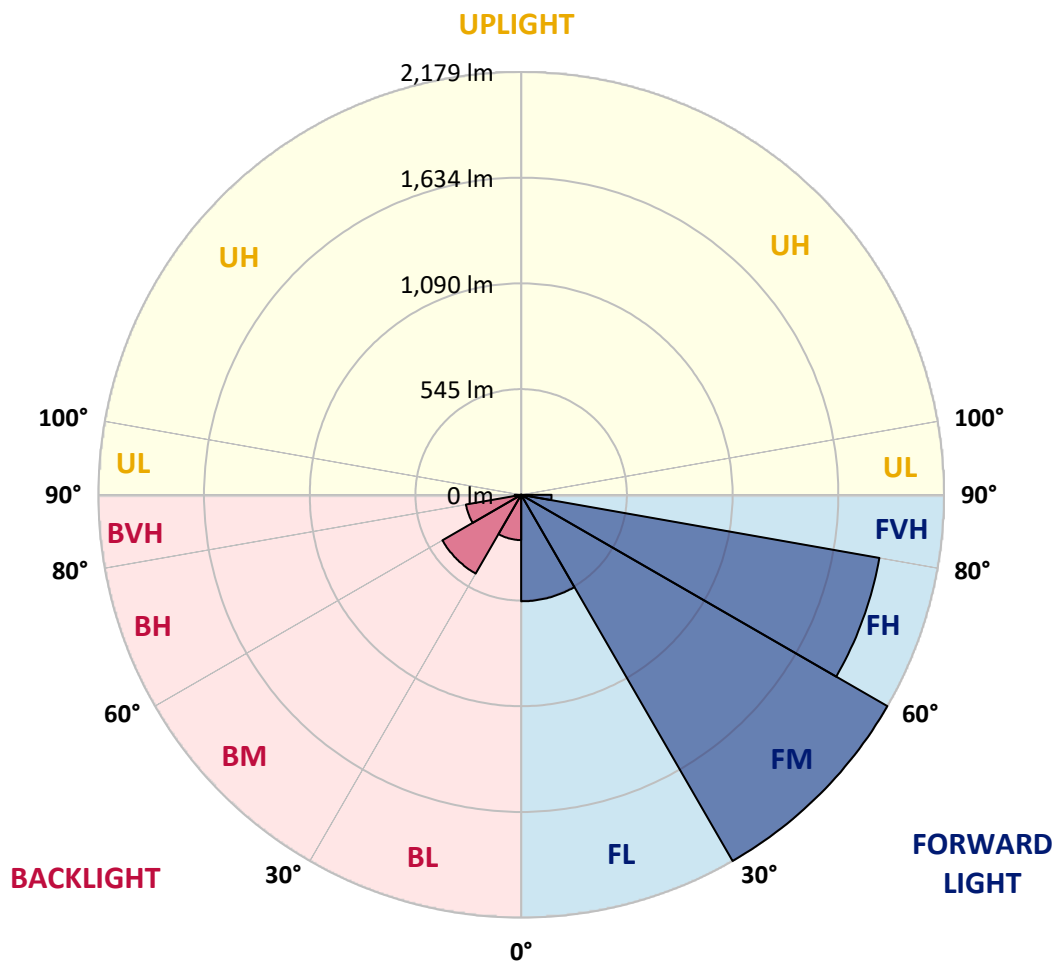
CATALOG NUMBER: NVN-AF-02-LED-U-SLR-8030-600

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.9	9.5			
FM	(30°-60°)	2179.1	37.7			
FH	(60°-80°)	1874.5	32.4			G2/5000
FVH	(80°-90°)	156.8	2.7			G2/225
BL	(0°-30°)	233.1	4.0	B1/500		
BM	(30°-60°)	468.8	8.1	B1/1000		
BH	(60°-80°)	288.9	5.0	B1/500		G1/500
BVH	(80°-90°)	33.8	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°	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9
2.5°	2035.6	2007.1	1941.3	1883.4	1811.3	1757.2	1691.3	1656.5	1630.9	1613.7	1599.9
5°	1901.4	1832.6	1706.8	1596.5	1477.4	1391.5	1290.8	1235.9	1201.9	1183.5	1175.1
7.5°	1702.2	1611.2	1448.5	1300.5	1151.6	1044.2	967.9	886.5	843.4	815.3	806.0
10°	1528.2	1425.4	1231.3	1064.8	949.9	873.5	808.1	733.5	678.1	629.9	611.9
12.5°	1427.1	1307.6	1086.2	935.6	839.2	757.4	688.2	607.7	549.4	499.1	479.8
15°	1405.7	1272.4	1025.4	853.4	735.2	636.6	553.6	465.9	408.9	367.4	353.9
17.5°	1470.3	1305.9	999.8	778.4	635.8	515.4	413.1	319.1	271.8	249.1	243.7
20°	1603.3	1379.7	987.6	710.8	539.3	396.7	285.6	216.8	193.3	186.6	186.2
22.5°	1778.1	1499.7	1001.0	655.5	448.7	292.7	209.3	178.2	168.6	164.8	164.8
25°	1975.7	1662.0	1036.7	613.1	369.0	227.7	180.3	163.6	155.6	151.8	152.2
27.5°	2217.2	1859.5	1085.3	574.1	312.0	199.6	168.6	154.3	146.4	142.6	143.0
30°	2399.2	2029.3	1127.3	538.5	282.7	188.3	162.3	148.9	140.1	134.6	134.2
32.5°	2569.5	2179.0	1161.2	512.9	265.9	168.2	146.8	136.7	129.2	122.9	121.6
35°	2757.8	2320.0	1177.2	512.1	255.0	151.8	134.2	122.0	114.5	107.4	106.1
37.5°	2971.2	2492.3	1190.6	517.1	249.1	141.3	128.3	116.6	110.3	103.2	101.5
40°	3193.5	2660.9	1201.1	521.3	248.3	134.2	123.7	113.2	106.9	99.4	97.7
42.5°	3384.3	2810.2	1215.3	519.6	242.4	132.9	120.8	110.3	104.4	96.9	94.8
45°	3537.0	2928.9	1237.6	519.2	233.6	135.9	119.9	109.5	102.3	94.4	92.7
47.5°	3679.1	3062.7	1284.5	517.5	223.9	135.0	124.6	108.6	101.5	93.5	92.3
50°	3841.9	3242.6	1364.6	504.9	210.5	129.2	132.9	107.8	99.4	92.3	91.0
52.5°	4068.3	3505.9	1483.3	482.3	192.1	122.9	134.2	107.4	96.0	89.7	88.1
55°	4334.6	3788.2	1611.2	449.6	167.7	112.0	127.5	105.7	92.7	86.0	83.5
57.5°	4540.5	3996.6	1700.5	402.6	143.8	105.7	113.6	101.9	88.5	81.8	79.7
60°	4598.4	4005.8	1716.5	346.4	131.7	101.5	97.7	111.1	85.1	78.0	75.9
62.5°	4529.2	3822.6	1612.5	307.0	127.5	97.3	88.9	106.1	81.8	74.6	72.6
65°	4324.1	3513.1	1379.7	301.1	131.7	93.5	84.3	84.7	78.4	71.3	69.2
67.5°	3845.2	3057.6	1087.0	304.9	136.7	89.7	80.9	77.2	74.6	68.4	65.8
70°	3127.2	2461.7	856.4	311.6	141.3	84.7	76.7	72.1	70.0	63.3	62.1
72.5°	2408.9	1970.2	675.6	307.0	145.9	79.7	70.9	67.1	64.6	58.3	57.0
75°	1710.6	1565.5	496.5	263.4	133.8	72.6	64.2	60.8	58.7	52.0	51.6
77.5°	1232.9	1172.6	345.6	197.9	105.7	63.7	56.6	53.7	52.4	44.9	44.9
80°	983.4	892.4	206.7	129.2	77.2	52.8	47.4	46.1	44.9	37.3	37.7
82.5°	706.6	619.0	132.1	80.5	56.6	40.3	36.9	36.5	34.4	27.7	27.7
85°	362.3	316.2	84.7	54.1	39.8	26.0	24.3	23.5	22.2	17.2	17.2
87.5°	70.5	96.9	47.0	26.4	19.3	9.2	9.2	8.0	9.2	6.3	6.7
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9
2.5°	1626.3	1617.9	1612.1	1609.1	1651.5	1669.1	1689.2	1718.2	1737.9	1729.5	1756.3
5°	1214.5	1220.4	1233.8	1254.8	1313.9	1342.0	1360.0	1383.9	1401.1	1383.9	1412.4
7.5°	830.4	839.2	867.7	910.9	982.2	1013.6	1019.9	1020.3	1016.6	988.5	1007.7
10°	611.4	593.8	600.1	631.2	694.9	723.0	725.9	718.4	717.1	705.8	727.6
12.5°	473.9	449.6	435.3	440.3	488.1	511.2	515.0	519.2	536.4	541.8	568.7
15°	353.5	340.9	330.5	325.9	357.3	375.3	377.4	387.5	405.5	410.6	433.6
17.5°	248.7	252.0	257.5	259.6	282.2	294.0	290.6	290.6	293.6	292.3	305.3
20°	190.0	196.7	207.2	217.2	237.8	244.5	236.1	225.6	218.9	215.6	218.5
22.5°	167.7	172.4	179.1	192.1	209.3	212.6	201.7	193.3	187.0	183.7	184.1
25°	155.6	160.2	165.7	176.1	190.8	192.5	182.4	177.0	171.9	168.6	167.7
27.5°	145.1	148.0	151.4	158.1	173.2	174.0	167.3	164.0	160.6	158.1	157.3
30°	135.5	136.7	138.0	144.7	156.0	157.3	153.9	152.2	151.0	149.3	149.3
32.5°	122.9	124.6	126.6	132.5	143.4	145.1	143.0	141.7	139.7	138.8	137.6
35°	107.8	112.0	116.6	123.7	135.5	136.3	133.8	130.0	125.0	123.7	122.9
37.5°	101.5	102.3	108.2	116.6	128.7	129.6	126.2	119.9	116.2	116.6	117.4
40°	97.3	98.6	101.9	110.3	122.5	123.7	120.8	116.2	112.4	112.8	114.1
42.5°	93.9	95.6	97.7	103.2	115.3	117.8	117.0	112.8	109.0	109.9	111.6
45°	92.3	93.5	93.5	97.3	109.0	112.8	113.2	109.9	106.9	107.8	109.9
47.5°	91.4	91.4	90.2	93.1	104.8	108.6	109.5	107.8	106.1	106.9	109.0
50°	90.2	88.5	87.2	89.7	101.5	104.8	105.7	104.4	105.3	106.9	108.2
52.5°	86.4	84.7	84.7	86.4	98.1	101.5	101.9	101.1	102.7	104.8	106.9
55°	81.8	81.8	82.2	83.9	96.5	99.0	98.6	97.7	99.4	101.9	104.0
57.5°	77.6	77.2	79.3	81.4	94.4	96.0	95.2	95.2	96.5	98.6	100.6
60°	75.1	73.0	74.6	78.0	92.3	93.9	92.7	92.3	94.4	96.0	97.7
62.5°	72.6	70.5	71.7	75.1	89.3	90.6	89.7	89.7	91.8	93.1	94.8
65°	68.8	67.9	68.8	72.1	86.8	87.2	87.2	87.6	89.3	90.2	91.8
67.5°	65.4	65.4	65.8	69.2	84.7	83.9	83.9	86.0	86.4	87.2	88.9
70°	61.2	62.1	62.1	66.3	83.0	80.1	80.5	82.2	83.0	83.9	84.3
72.5°	56.6	57.0	57.9	63.3	80.5	76.3	76.7	78.0	78.4	79.7	80.1
75°	51.6	52.0	53.3	60.4	78.8	72.6	71.7	72.6	73.4	74.2	73.8
77.5°	45.7	46.6	47.8	58.7	73.4	71.7	65.4	66.3	67.1	67.1	66.7
80°	38.6	39.8	41.9	56.2	62.1	69.2	58.3	58.7	59.1	59.1	58.3
82.5°	28.9	31.5	34.4	46.6	48.6	59.1	50.3	51.2	49.9	49.1	48.6
85°	18.9	21.0	25.2	32.3	35.6	46.6	41.5	41.9	39.4	39.0	39.0
87.5°	7.5	8.0	11.3	16.4	21.4	28.9	29.8	30.6	28.5	28.5	29.4
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9
2.5°	1797.0	1838.9	1887.2	1936.2	1976.5	2028.5	2078.8	2132.5	2159.8	2175.7	2220.6
5°	1456.9	1514.3	1582.7	1659.4	1723.2	1832.2	1949.7	2080.5	2143.4	2205.5	2322.9
7.5°	1042.1	1098.3	1178.0	1277.4	1368.0	1511.8	1666.6	1843.6	1930.8	2031.4	2223.9
10°	773.7	833.3	905.4	989.7	1079.0	1228.8	1402.4	1601.2	1697.2	1810.8	2029.8
12.5°	627.4	697.0	771.6	847.1	923.9	1024.5	1206.5	1427.5	1530.7	1645.2	1864.5
15°	489.4	564.1	644.6	726.8	803.1	915.5	1101.3	1362.5	1480.4	1591.1	1770.6
17.5°	346.4	416.9	507.4	607.2	718.0	850.9	1078.6	1391.1	1534.1	1649.8	1770.2
20°	236.1	284.8	375.3	493.6	630.3	798.9	1087.0	1491.3	1669.9	1797.0	1842.7
22.5°	188.7	211.8	273.0	393.4	554.8	761.2	1121.4	1628.8	1864.9	2019.7	1974.8
25°	171.5	184.5	216.4	310.8	487.7	736.0	1188.5	1810.4	2083.4	2240.3	2133.8
27.5°	161.0	172.4	192.9	255.4	429.9	719.6	1273.6	2024.3	2329.6	2458.4	2299.4
30°	154.3	165.7	184.5	229.4	386.2	695.3	1348.3	2219.7	2526.3	2609.7	2388.7
32.5°	141.3	150.1	165.7	205.5	353.5	666.8	1412.9	2394.6	2712.1	2739.7	2496.1
35°	127.9	137.1	152.7	186.2	334.2	644.6	1446.8	2549.8	2896.2	2869.8	2602.6
37.5°	122.9	130.4	144.7	172.4	323.8	629.9	1459.8	2702.4	3093.7	3013.6	2676.8
40°	119.5	126.2	138.8	163.1	320.8	616.1	1456.9	2847.5	3285.3	3162.5	2735.1
42.5°	117.0	122.9	134.6	156.8	312.9	603.1	1447.2	2972.9	3438.8	3290.8	2790.9
45°	114.9	121.2	132.9	160.2	298.2	588.8	1441.4	3087.4	3556.7	3399.0	2865.6
47.5°	114.1	121.2	133.4	159.4	282.2	572.9	1462.3	3214.5	3659.4	3490.0	2965.0
50°	112.8	120.8	142.6	151.8	260.4	553.1	1533.2	3365.9	3767.2	3592.3	3093.7
52.5°	110.7	120.4	152.2	145.9	232.3	525.9	1648.1	3579.7	3953.4	3791.5	3284.1
55°	108.2	121.2	145.5	136.7	202.6	490.7	1763.0	3872.9	4255.4	4112.8	3557.5
57.5°	105.3	119.9	137.6	128.3	177.8	446.2	1850.3	4113.2	4504.5	4444.1	3893.4
60°	103.2	122.9	123.7	123.3	161.9	403.9	1858.7	4097.7	4576.2	4659.2	4222.2
62.5°	100.6	125.4	112.8	119.5	153.9	364.4	1755.1	3844.0	4455.0	4631.5	4490.2
65°	97.3	109.5	106.9	116.2	153.9	343.5	1513.9	3421.6	4119.9	4369.8	4635.7
67.5°	93.9	99.4	102.7	111.6	157.3	323.8	1216.6	2886.1	3591.5	3947.5	4472.2
70°	89.3	93.9	98.1	107.4	155.6	309.9	957.4	2313.2	2955.7	3363.4	4019.7
72.5°	85.1	88.5	92.7	101.1	155.6	303.6	769.1	1814.6	2256.6	2600.1	3329.8
75°	78.8	81.8	85.6	94.8	152.7	277.6	577.5	1454.0	1651.1	1866.2	2627.4
77.5°	72.6	74.6	77.6	86.8	137.6	231.9	408.5	1126.0	1223.3	1342.4	2048.2
80°	64.6	66.3	68.4	77.6	114.1	179.9	265.9	880.7	914.6	972.1	1347.4
82.5°	55.4	57.9	58.3	66.7	91.8	130.4	158.1	603.5	603.1	687.3	950.7
85°	45.3	46.6	47.4	52.4	67.9	86.8	104.0	329.6	294.0	411.8	825.7
87.5°	34.0	32.7	34.0	35.2	44.9	51.2	55.8	60.8	36.5	74.6	480.2
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°	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9	1971.9
2.5°	2244.5	2269.2	2254.5	2236.9	2192.9	2128.3	2078.8	2035.6
5°	2404.3	2450.0	2429.8	2364.4	2250.3	2120.8	1984.5	1901.4
7.5°	2384.1	2474.7	2466.7	2357.7	2194.1	2003.3	1811.7	1702.2
10°	2223.1	2350.2	2372.0	2260.4	2087.2	1873.7	1651.9	1528.2
12.5°	2047.8	2154.7	2199.2	2156.8	1993.7	1776.9	1550.8	1427.1
15°	1901.0	1955.1	1999.1	2026.4	1925.3	1742.5	1533.2	1405.7
17.5°	1792.4	1781.9	1818.8	1884.2	1888.4	1788.2	1612.9	1470.3
20°	1740.0	1657.8	1679.2	1771.0	1878.4	1904.4	1771.8	1603.3
22.5°	1737.0	1608.7	1612.9	1711.9	1907.3	2062.9	1970.2	1778.1
25°	1782.3	1603.3	1607.0	1705.6	1958.5	2222.7	2199.6	1975.7
27.5°	1859.5	1626.7	1624.2	1733.3	2026.8	2356.0	2431.1	2217.2
30°	1942.9	1660.7	1654.4	1777.7	2093.9	2438.2	2595.5	2399.2
32.5°	2046.9	1721.1	1699.3	1842.7	2160.2	2517.1	2736.0	2569.5
35°	2145.9	1809.6	1778.1	1935.8	2231.1	2604.7	2893.2	2757.8
37.5°	2247.0	1941.7	1924.1	2070.0	2331.3	2699.9	3073.1	2971.2
40°	2376.6	2129.6	2121.2	2265.0	2465.1	2803.9	3274.9	3193.5
42.5°	2516.2	2329.2	2322.1	2489.0	2631.1	2908.3	3447.6	3384.3
45°	2658.4	2571.2	2572.8	2728.0	2806.0	3006.9	3583.5	3537.0
47.5°	2826.1	2835.8	2895.8	2975.9	2976.3	3116.8	3703.9	3679.1
50°	3039.2	3155.3	3266.1	3278.6	3148.2	3261.9	3851.1	3841.9
52.5°	3280.3	3524.0	3652.7	3612.9	3316.0	3441.8	4068.7	4068.3
55°	3566.7	3909.4	4030.6	3962.6	3516.8	3676.2	4353.1	4334.6
57.5°	3863.7	4280.1	4377.8	4289.3	3768.0	3949.2	4638.2	4540.5
60°	4184.5	4599.2	4698.6	4565.7	4049.9	4221.4	4827.0	4598.4
62.5°	4394.6	4785.9	4857.2	4729.7	4302.3	4498.6	4887.8	4529.2
65°	4405.5	4661.7	4680.6	4635.3	4409.7	4739.3	4799.7	4324.1
67.5°	4106.1	4121.2	4145.9	4194.5	4180.3	4631.9	4460.0	3845.2
70°	3465.7	3264.4	3345.7	3392.7	3498.4	4119.9	3832.2	3127.2
72.5°	2650.0	2356.0	2448.3	2432.3	2652.1	3379.3	2931.8	2408.9
75°	1907.3	1606.6	1613.7	1614.6	1905.6	2697.4	1999.1	1710.6
77.5°	1296.3	1136.9	1160.4	1145.7	1275.3	2113.2	1439.3	1232.9
80°	886.5	882.4	887.4	853.0	850.5	1365.9	1065.6	983.4
82.5°	657.6	607.7	600.5	564.1	651.7	1044.2	809.0	706.6
85°	518.8	336.3	292.3	352.7	564.5	960.8	493.2	362.3
87.5°	219.8	132.1	80.1	158.5	313.7	704.1	136.7	70.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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