

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: P198753

Luminaire Tested: **XNV2-AF-02-LED-U-SLR-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198753  
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-SLR-1200  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA 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: 11951.1 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

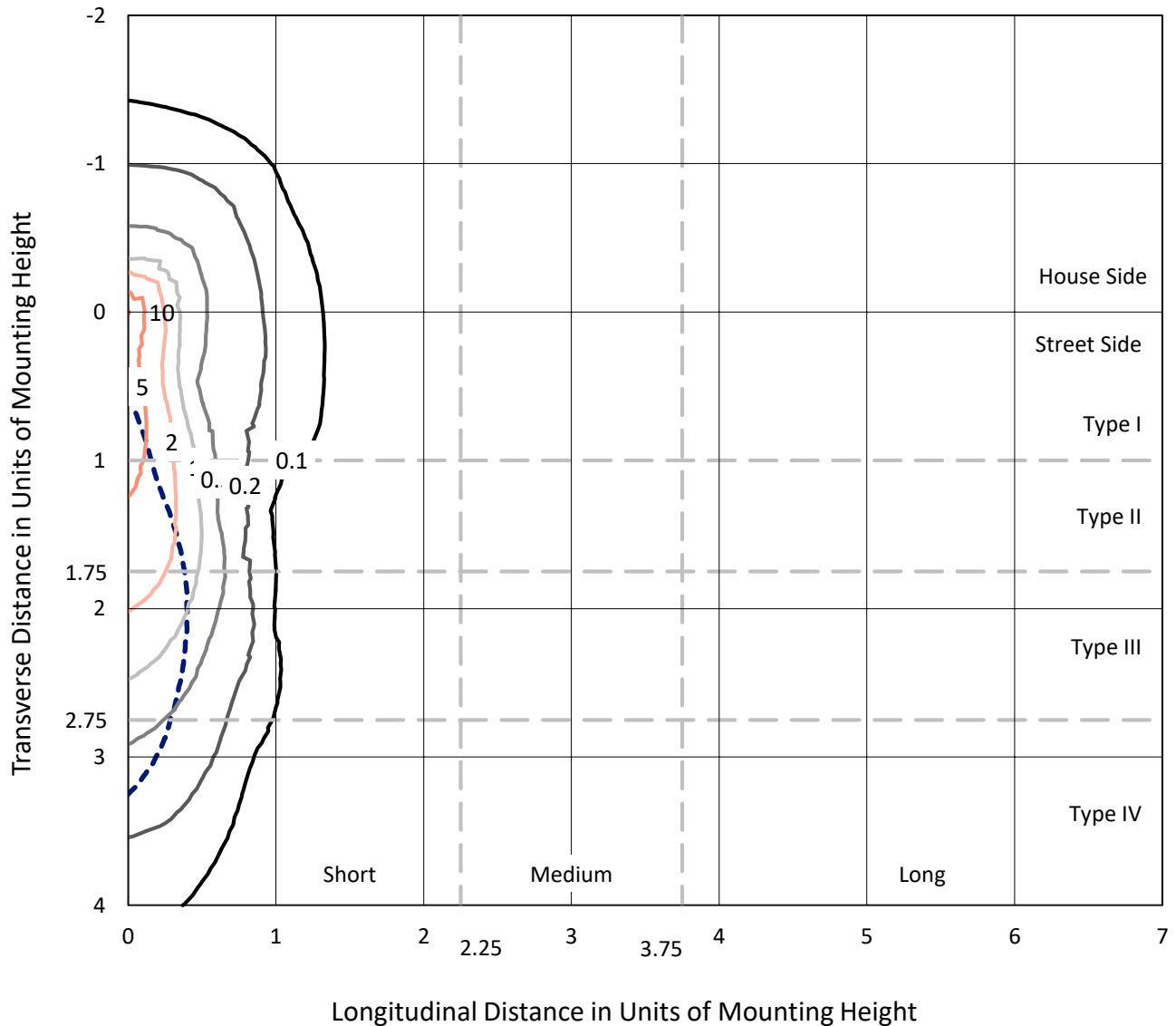
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

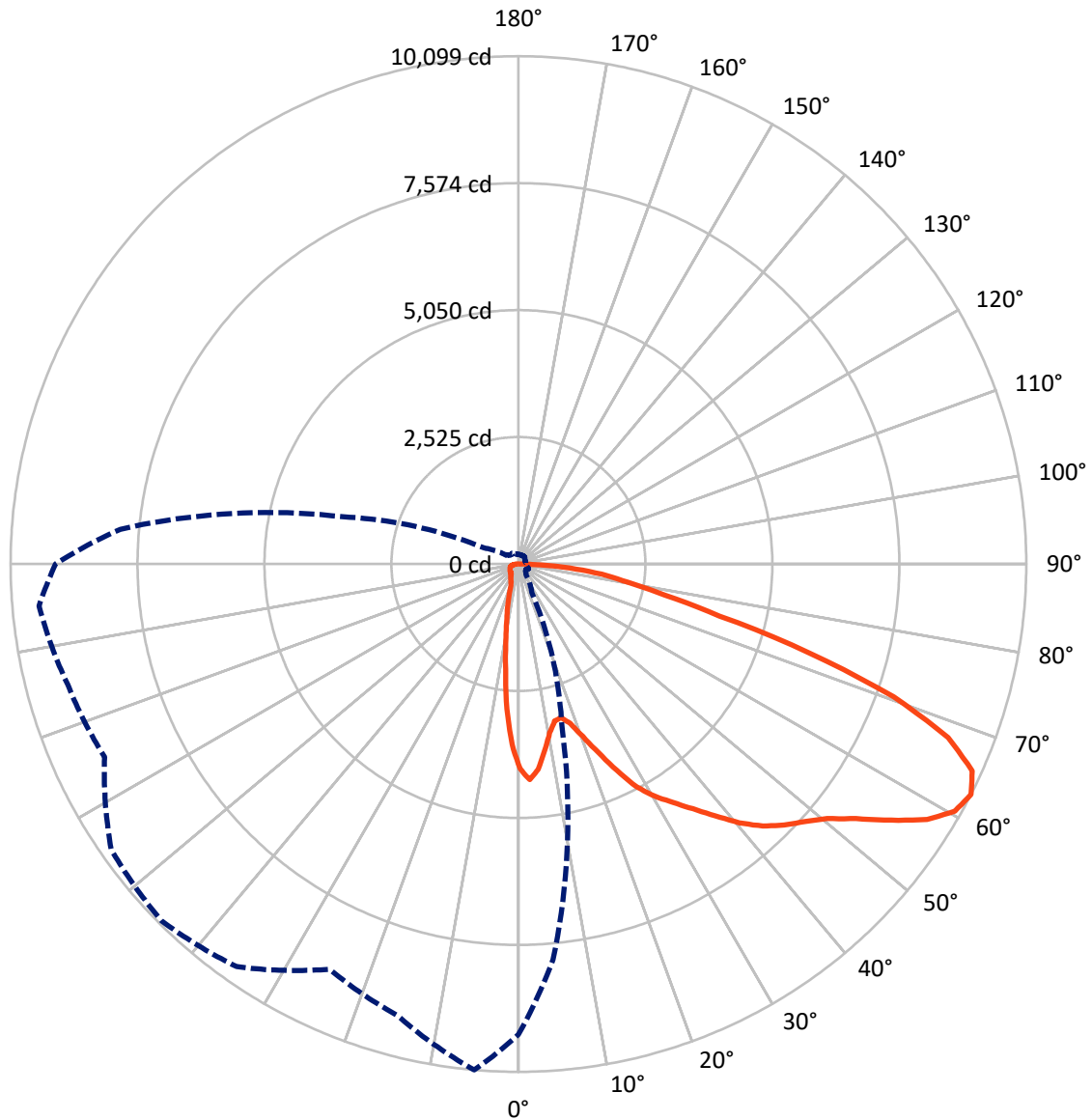
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 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	2117.2	0.0	2117.2
	% Fixture	17.7	0.0	17.7
<b>Street Side</b>	Lumens	9834.0	0.0	9834.0
	% Fixture	82.3	0.0	82.3
<b>Total</b>	Lumens	11951.1	0.0	11951.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.3	2.5
10°-20°	541.2	4.5
20°-30°	778.4	6.5
30°-40°	1192.2	10.0
40°-50°	1743.0	14.6
50°-60°	2536.1	21.2
60°-70°	2938.4	24.6
70°-80°	1531.7	12.8
80°-90°	393.7	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°	11951.1	100.0
0°-180°	11951.1	100.0



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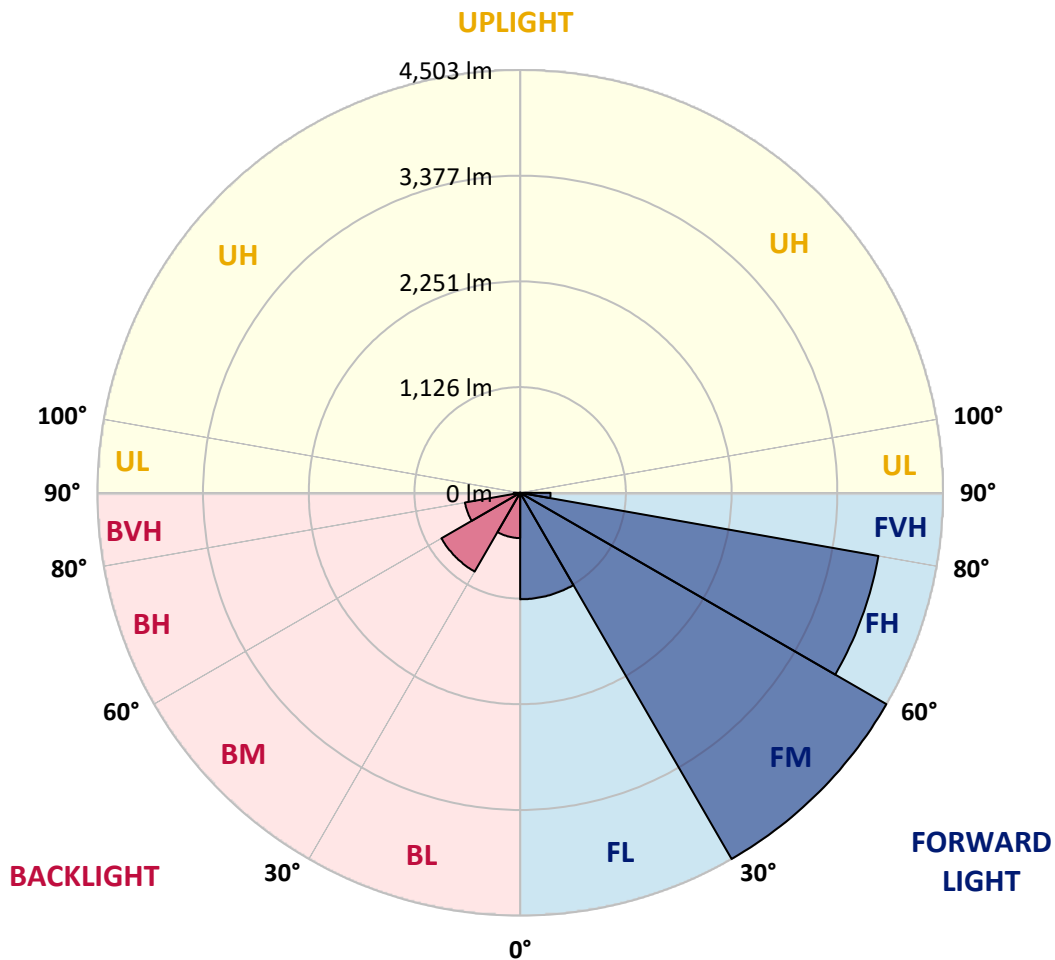
CATALOG NUMBER: XNV2-AF-02-LED-U-SLR-1200

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1134.2	9.5			
FM	(30°-60°)	4502.6	37.7			
FH	(60°-80°)	3873.2	32.4			G2/5000
FVH	(80°-90°)	323.9	2.7			G3/500
BL	(0°-30°)	481.7	4.0	B1/500		
BM	(30°-60°)	968.7	8.1	B1/1000		
BH	(60°-80°)	597.0	5.0	B2/1000		G2/1000
BVH	(80°-90°)	69.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4
2.5°	4206.1	4147.1	4011.1	3891.5	3742.5	3630.8	3494.7	3422.8	3369.9	3334.4	3305.8
5°	3928.8	3786.7	3526.7	3298.8	3052.8	2875.1	2667.1	2553.6	2483.4	2445.4	2428.0
7.5°	3517.2	3329.2	2992.9	2687.1	2379.5	2157.6	2000.0	1831.8	1742.6	1684.5	1665.5
10°	3157.6	2945.3	2544.1	2200.1	1962.6	1805.0	1669.8	1515.5	1401.1	1301.5	1264.3
12.5°	2948.8	2701.8	2244.3	1933.2	1733.9	1564.9	1422.0	1255.6	1135.2	1031.1	991.3
15°	2904.6	2629.0	2118.6	1763.4	1519.0	1315.4	1143.8	962.7	844.9	759.0	731.3
17.5°	3038.1	2698.3	2065.7	1608.3	1313.7	1065.0	853.6	659.4	561.5	514.7	503.5
20°	3312.7	2850.9	2040.7	1468.8	1114.3	819.7	590.1	448.0	399.5	385.7	384.7
22.5°	3674.0	3098.7	2068.4	1354.4	927.2	604.9	432.4	368.3	348.3	340.5	340.5
25°	4082.2	3434.0	2142.1	1266.8	762.5	470.6	372.6	338.0	321.5	313.6	314.6
27.5°	4581.3	3842.2	2242.5	1186.3	644.7	412.5	348.3	318.9	302.4	294.6	295.5
30°	4957.3	4193.1	2329.2	1112.6	584.0	389.0	335.3	307.6	289.4	278.1	277.3
32.5°	5309.2	4502.4	2399.4	1059.8	549.3	347.5	303.3	282.4	266.9	253.9	251.3
35°	5698.2	4793.5	2432.4	1058.0	526.8	313.6	277.3	252.2	236.6	221.9	219.2
37.5°	6139.3	5149.7	2460.1	1068.4	514.7	292.1	265.1	240.9	227.9	213.2	209.7
40°	6598.5	5498.1	2481.7	1077.1	513.0	277.3	255.6	233.9	221.0	205.4	201.9
42.5°	6992.8	5806.6	2511.1	1073.6	500.8	274.7	249.6	227.9	215.7	200.2	195.8
45°	7308.3	6051.8	2557.1	1072.8	482.6	280.8	247.9	226.2	211.4	195.0	191.5
47.5°	7602.0	6328.2	2654.1	1069.3	462.7	279.1	257.4	224.4	209.7	193.2	190.7
50°	7938.2	6699.9	2819.7	1043.3	435.0	266.9	274.7	222.7	205.4	190.7	188.0
52.5°	8406.1	7244.1	3064.9	996.5	396.9	253.9	277.3	221.9	198.5	185.5	182.0
55°	8956.3	7827.3	3329.2	928.9	346.6	231.4	263.4	218.4	191.5	177.7	172.5
57.5°	9381.8	8258.0	3513.7	831.9	297.2	218.4	234.9	210.5	182.8	169.0	164.6
60°	9501.4	8277.0	3546.7	715.8	272.1	209.7	201.9	229.7	175.9	161.2	156.8
62.5°	9358.5	7898.3	3331.8	634.3	263.4	201.0	183.7	219.2	169.0	154.3	149.9
65°	8934.7	7258.9	2850.9	622.2	272.1	193.2	174.2	175.0	162.0	147.3	143.0
67.5°	7945.2	6317.8	2246.0	629.9	282.4	185.5	167.3	159.5	154.3	141.3	136.1
70°	6461.7	5086.5	1769.4	643.8	292.1	175.0	158.6	149.0	144.7	130.8	128.3
72.5°	4977.3	4070.9	1395.9	634.3	301.6	164.6	146.5	138.6	133.5	120.4	117.8
75°	3534.5	3234.7	1025.9	544.2	276.4	149.9	132.6	125.6	121.3	107.4	106.6
77.5°	2547.6	2422.8	714.0	409.0	218.4	131.8	117.0	110.9	108.3	92.7	92.7
80°	2032.0	1844.0	427.2	266.9	159.5	109.1	97.9	95.3	92.7	77.1	77.9
82.5°	1460.1	1279.0	272.9	166.3	117.0	83.2	76.2	75.4	71.1	57.2	57.2
85°	748.7	653.4	175.0	111.8	82.3	53.7	50.2	48.5	45.9	35.5	35.5
87.5°	145.6	200.2	97.1	54.6	39.9	19.0	19.0	16.5	19.0	13.0	13.9
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°	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4
2.5°	3360.4	3343.0	3330.9	3324.8	3412.4	3448.8	3490.3	3550.2	3590.9	3573.6	3629.0
5°	2509.4	2521.6	2549.3	2592.7	2714.8	2772.9	2810.1	2859.6	2895.1	2859.6	2918.5
7.5°	1715.7	1733.9	1792.8	1882.1	2029.4	2094.4	2107.4	2108.2	2100.4	2042.4	2082.2
10°	1263.3	1227.0	1240.0	1304.2	1435.8	1493.9	1500.0	1484.3	1481.7	1458.3	1503.4
12.5°	979.2	928.9	899.5	909.8	1008.6	1056.3	1064.1	1072.8	1108.3	1119.5	1175.0
15°	730.5	704.5	682.8	673.3	738.3	775.5	779.9	800.7	837.9	848.3	896.0
17.5°	513.8	520.8	532.0	536.3	583.2	607.4	600.5	600.5	606.6	604.0	630.9
20°	392.5	406.4	428.1	448.9	491.3	505.1	487.8	466.2	452.3	445.4	451.4
22.5°	346.6	356.1	370.0	396.9	432.4	439.4	416.8	399.5	386.5	379.5	380.4
25°	321.5	331.0	342.3	364.0	394.2	397.7	377.0	365.7	355.3	348.3	346.6
27.5°	299.8	305.9	312.8	326.6	357.8	359.6	345.8	338.8	331.8	326.6	325.0
30°	279.9	282.4	285.1	298.9	322.3	325.0	318.0	314.6	311.9	308.5	308.5
32.5°	253.9	257.4	261.7	273.8	296.3	299.8	295.5	292.9	288.6	286.8	284.2
35°	222.7	231.4	240.9	255.6	279.9	281.6	276.4	268.6	258.2	255.6	253.9
37.5°	209.7	211.4	223.5	240.9	266.1	267.7	260.9	247.9	240.0	240.9	242.6
40°	201.0	203.7	210.5	227.9	253.0	255.6	249.6	240.0	232.2	233.1	235.7
42.5°	194.1	197.5	201.9	213.2	238.2	243.5	241.7	233.1	225.3	227.0	230.5
45°	190.7	193.2	193.2	201.0	225.3	233.1	233.9	227.0	221.0	222.7	227.0
47.5°	188.9	188.9	186.3	192.4	216.7	224.4	226.2	222.7	219.2	221.0	225.3
50°	186.3	182.8	180.2	185.5	209.7	216.7	218.4	215.7	217.5	221.0	223.5
52.5°	178.5	175.0	175.0	178.5	202.7	209.7	210.5	208.8	212.3	216.7	221.0
55°	169.0	169.0	169.8	173.3	199.3	204.5	203.7	201.9	205.4	210.5	214.9
57.5°	160.3	159.5	163.8	168.1	195.0	198.5	196.7	196.7	199.3	203.7	208.0
60°	155.1	150.8	154.3	161.2	190.7	194.1	191.5	190.7	195.0	198.5	201.9
62.5°	149.9	145.6	148.2	155.1	184.5	187.2	185.5	185.5	189.8	192.4	195.8
65°	142.1	140.3	142.1	149.0	179.3	180.2	180.2	181.1	184.5	186.3	189.8
67.5°	135.1	135.1	136.1	143.0	175.0	173.3	173.3	177.7	178.5	180.2	183.7
70°	126.5	128.3	128.3	136.9	171.5	165.5	166.3	169.8	171.5	173.3	174.2
72.5°	117.0	117.8	119.6	130.8	166.3	157.7	158.6	161.2	162.0	164.6	165.5
75°	106.6	107.4	110.1	124.8	163.0	149.9	148.2	149.9	151.6	153.3	152.5
77.5°	94.4	96.2	98.8	121.3	151.6	148.2	135.1	136.9	138.6	138.6	137.8
80°	79.7	82.3	86.6	116.1	128.3	143.0	120.4	121.3	122.1	122.1	120.4
82.5°	59.7	65.0	71.1	96.2	100.6	122.1	103.9	105.7	103.1	101.4	100.6
85°	39.0	43.4	52.0	66.7	73.7	96.2	85.8	86.6	81.4	80.6	80.6
87.5°	15.5	16.5	23.4	33.8	44.2	59.7	61.5	63.2	58.9	58.9	60.7
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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4
2.5°	3713.0	3799.6	3899.4	4000.8	4083.9	4191.3	4295.4	4406.3	4462.6	4495.5	4588.2
5°	3010.3	3129.0	3270.3	3428.8	3560.5	3785.8	4028.5	4298.8	4428.8	4557.0	4799.7
7.5°	2153.3	2269.4	2434.0	2639.4	2826.6	3123.8	3443.6	3809.3	3989.5	4197.5	4595.2
10°	1598.8	1721.7	1870.8	2045.0	2229.5	2538.9	2897.6	3308.3	3506.8	3741.6	4194.0
12.5°	1296.3	1440.1	1594.4	1750.4	1908.9	2116.9	2492.9	2949.7	3162.8	3399.4	3852.5
15°	1011.2	1165.4	1331.9	1501.7	1659.4	1891.6	2275.5	2815.4	3058.8	3287.6	3658.5
17.5°	715.8	861.3	1048.5	1254.8	1483.5	1758.1	2228.7	2874.3	3169.7	3408.9	3657.6
20°	487.8	588.4	775.5	1019.9	1302.4	1650.7	2246.0	3081.3	3450.5	3713.0	3807.5
22.5°	389.9	437.6	564.1	812.8	1146.4	1572.7	2317.1	3365.6	3853.5	4173.1	4080.4
25°	354.5	381.3	447.1	642.1	1007.8	1520.7	2455.7	3740.7	4304.9	4629.0	4408.8
27.5°	332.8	356.1	398.6	527.7	888.2	1487.0	2631.6	4182.7	4813.5	5079.6	4751.1
30°	318.9	342.3	381.3	474.0	798.1	1436.7	2785.9	4586.5	5219.9	5392.4	4935.7
32.5°	292.1	310.3	342.3	424.6	730.5	1377.8	2919.3	4947.8	5603.8	5661.0	5157.5
35°	264.3	283.4	315.4	384.7	690.6	1331.9	2989.5	5268.4	5984.2	5929.6	5377.7
37.5°	253.9	269.4	298.9	356.1	668.9	1301.5	3016.4	5583.9	6392.3	6226.8	5531.0
40°	246.9	260.9	286.8	337.1	662.9	1273.0	3010.3	5883.7	6788.3	6534.4	5651.5
42.5°	241.7	253.9	278.1	324.1	646.4	1246.1	2990.4	6142.7	7105.5	6799.6	5766.7
45°	237.4	250.4	274.7	331.0	616.1	1216.6	2978.2	6379.3	7349.0	7023.2	5920.9
47.5°	235.7	250.4	275.6	329.3	583.2	1183.7	3021.6	6641.9	7561.2	7211.2	6126.4
50°	233.1	249.6	294.6	313.6	538.1	1142.9	3168.0	6954.7	7783.9	7422.6	6392.3
52.5°	228.7	248.7	314.6	301.6	480.1	1086.6	3405.4	7396.7	8168.7	7834.2	6785.7
55°	223.5	250.4	300.6	282.4	418.5	1013.8	3642.8	8002.3	8792.6	8498.0	7350.7
57.5°	217.5	247.9	284.2	265.1	367.4	922.0	3823.1	8498.9	9307.3	9182.5	8044.8
60°	213.2	253.9	255.6	254.7	334.5	834.4	3840.5	8466.8	9455.4	9627.1	8724.1
62.5°	208.0	259.1	233.1	246.9	318.0	753.0	3626.4	7942.5	9205.0	9569.8	9277.9
65°	201.0	226.2	221.0	240.0	318.0	709.7	3128.2	7069.9	8512.7	9029.2	9578.5
67.5°	194.1	205.4	212.3	230.5	325.0	668.9	2513.8	5963.4	7420.9	8156.6	9240.6
70°	184.5	194.1	202.7	221.9	321.5	640.4	1978.3	4779.7	6107.2	6949.5	8305.6
72.5°	175.9	182.8	191.5	208.8	321.5	627.4	1589.2	3749.4	4662.7	5372.4	6880.2
75°	163.0	169.0	176.8	195.8	315.4	573.7	1193.2	3004.2	3411.5	3856.0	5428.8
77.5°	149.9	154.3	160.3	179.3	284.2	479.2	844.0	2326.6	2527.6	2773.7	4232.0
80°	133.5	136.9	141.3	160.3	235.7	371.7	549.3	1819.7	1889.9	2008.6	2784.2
82.5°	114.4	119.6	120.4	137.8	189.8	269.4	326.6	1246.9	1246.1	1420.3	1964.4
85°	93.6	96.2	97.9	108.3	140.3	179.3	214.9	681.1	607.4	850.9	1706.2
87.5°	70.2	67.6	70.2	72.8	92.7	105.7	115.3	125.6	75.4	154.3	992.2
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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CATALOG NUMBER: XNV2-AF-02-LED-U-SLR-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4	4074.4
2.5°	4637.6	4688.7	4658.4	4622.0	4531.1	4397.6	4295.4	4206.1
5°	4967.8	5062.2	5020.6	4885.4	4649.7	4382.0	4100.4	3928.8
7.5°	4926.1	5113.3	5096.9	4871.6	4533.6	4139.4	3743.4	3517.2
10°	4593.5	4855.9	4901.1	4670.6	4312.7	3871.7	3413.2	3157.6
12.5°	4231.2	4452.2	4544.0	4456.5	4119.4	3671.5	3204.4	2948.8
15°	3927.9	4039.7	4130.7	4187.0	3978.2	3600.4	3168.0	2904.6
17.5°	3703.5	3681.8	3758.1	3893.2	3901.9	3694.8	3332.7	3038.1
20°	3595.2	3425.4	3469.5	3659.3	3881.2	3934.9	3661.0	3312.7
22.5°	3589.1	3324.0	3332.7	3537.2	3940.9	4262.4	4070.9	3674.0
25°	3682.7	3312.7	3320.5	3524.2	4046.7	4592.5	4544.9	4082.2
27.5°	3842.2	3361.2	3356.0	3581.4	4187.9	4868.1	5023.2	4581.3
30°	4014.6	3431.4	3418.4	3673.2	4326.6	5037.9	5362.9	4957.3
32.5°	4229.5	3556.2	3511.2	3807.5	4463.4	5200.9	5653.1	5309.2
35°	4434.0	3739.0	3674.0	3999.8	4609.9	5381.9	5978.1	5698.2
37.5°	4642.9	4012.0	3975.6	4277.2	4817.0	5578.7	6349.9	6139.3
40°	4910.6	4400.2	4382.8	4680.1	5093.4	5793.6	6766.6	6598.5
42.5°	5199.1	4812.7	4797.9	5142.8	5436.6	6009.3	7123.6	6992.8
45°	5492.8	5312.6	5316.1	5636.8	5797.9	6213.0	7404.4	7308.3
47.5°	5839.5	5859.5	5983.3	6148.9	6149.7	6440.0	7653.1	7602.0
50°	6279.7	6519.7	6748.5	6774.5	6504.9	6739.8	7957.2	7938.2
52.5°	6778.0	7281.4	7547.4	7465.1	6851.6	7111.6	8407.0	8406.1
55°	7369.7	8077.7	8328.1	8187.8	7266.6	7595.9	8994.5	8956.3
57.5°	7983.2	8843.7	9045.6	8862.7	7785.7	8160.0	9583.7	9381.8
60°	8646.2	9503.1	9708.5	9433.9	8367.9	8722.4	9973.7	9501.4
62.5°	9080.2	9888.8	10036.1	9772.7	8889.6	9295.1	10099.3	9358.5
65°	9102.8	9632.2	9671.3	9577.7	9111.4	9792.5	9917.3	8934.7
67.5°	8484.1	8515.2	8566.4	8667.0	8637.5	9570.7	9215.5	7945.2
70°	7161.0	6745.0	6913.1	7010.2	7228.5	8512.7	7918.3	6461.7
72.5°	5475.5	4868.1	5058.7	5025.9	5479.8	6982.5	6057.8	4977.3
75°	3940.9	3319.7	3334.4	3336.1	3937.4	5573.4	4130.7	3534.5
77.5°	2678.4	2349.1	2397.7	2367.3	2635.1	4366.4	2973.9	2547.6
80°	1831.8	1823.2	1833.5	1762.5	1757.3	2822.2	2201.8	2032.0
82.5°	1358.7	1255.6	1240.8	1165.4	1346.6	2157.6	1671.5	1460.1
85°	1071.8	695.0	604.0	728.8	1166.4	1985.2	1019.1	748.7
87.5°	454.1	272.9	165.5	327.5	648.1	1454.8	282.4	145.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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