

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: P198752

Luminaire Tested: **XNV-AF-01-LED-U-SLR-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198752
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-SLR-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5995.5 lumens
Efficiency: N/A
Efficacy: 90.8 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

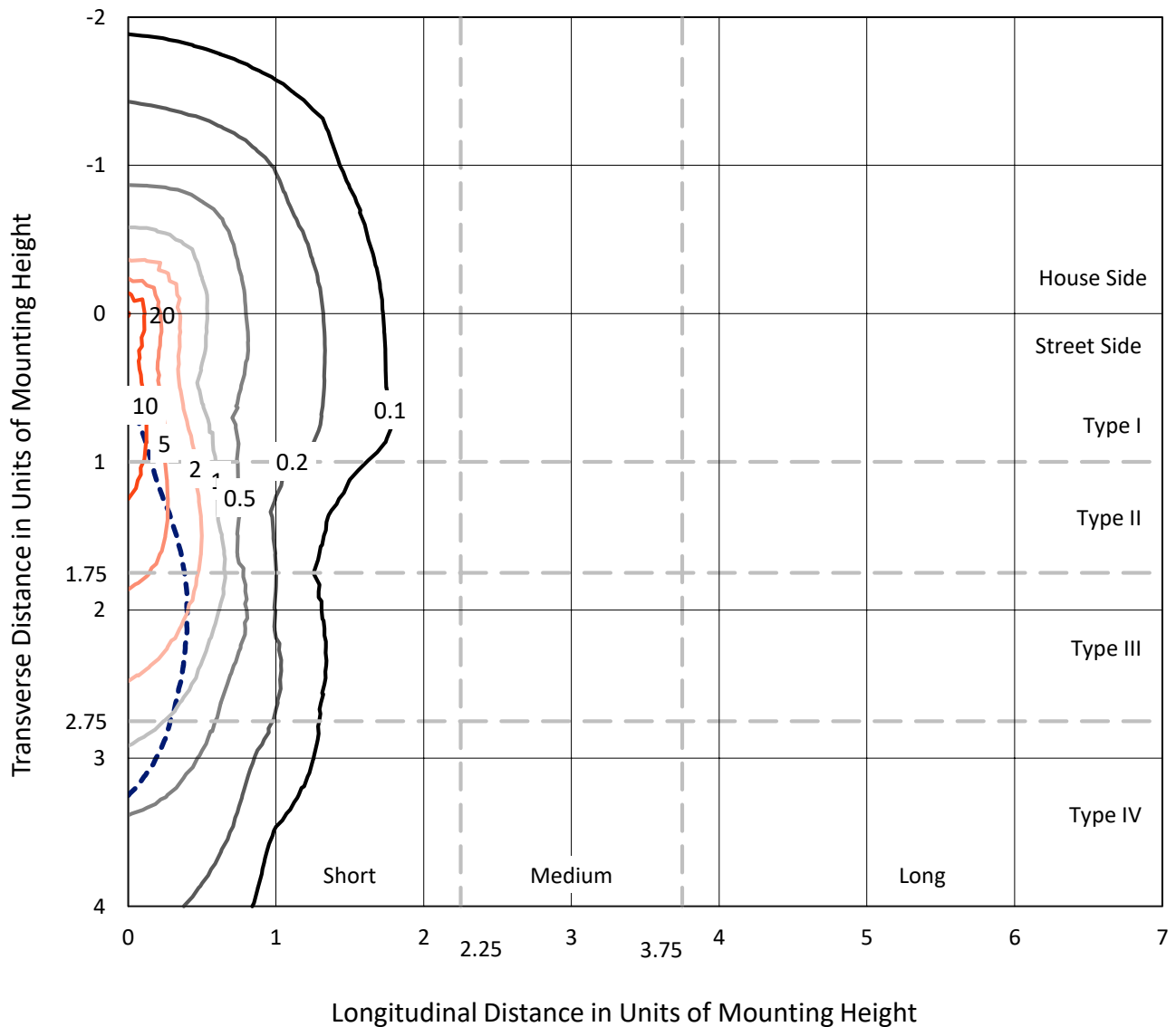


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Iso-Footcandle Lines of Horizontal Illumination

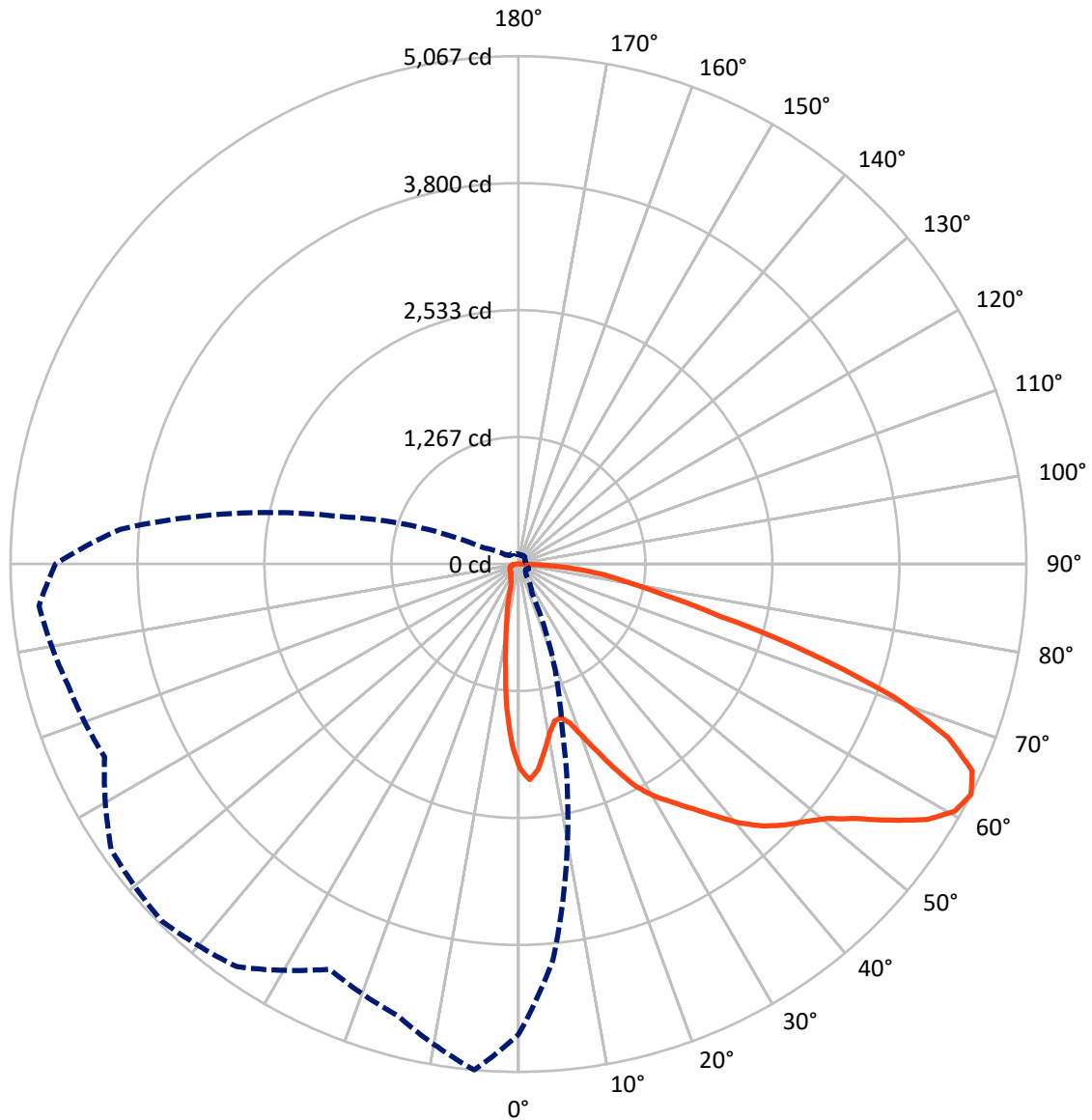
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.4 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
House Side	Lumens	1062.1	0.0	1062.1
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	4933.4	0.0	4933.4
	% Fixture	82.3	0.0	82.3
Total	Lumens	5995.5	0.0	5995.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.6	2.5
10°-20°	271.5	4.5
20°-30°	390.5	6.5
30°-40°	598.1	10.0
40°-50°	874.4	14.6
50°-60°	1272.3	21.2
60°-70°	1474.1	24.6
70°-80°	768.4	12.8
80°-90°	197.5	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°	5995.5	100.0
0°-180°	5995.5	100.0



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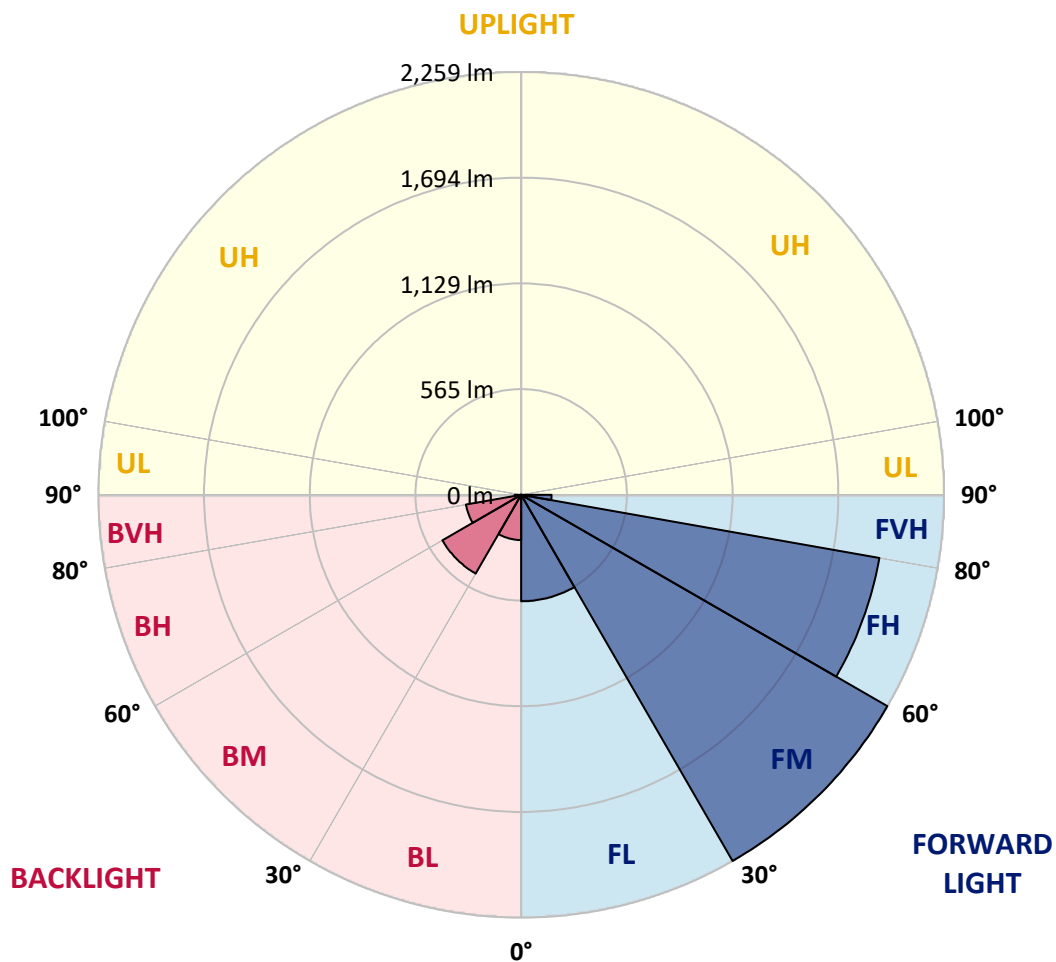
CATALOG NUMBER: XNV-AF-01-LED-U-SLR-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	569.0	9.5			
FM	(30°-60°)	2258.8	37.7			
FH	(60°-80°)	1943.1	32.4			G2/5000
FVH	(80°-90°)	162.5	2.7			G2/225
BL	(0°-30°)	241.6	4.0	B1/500		
BM	(30°-60°)	486.0	8.1	B1/1000		
BH	(60°-80°)	299.5	5.0	B1/500		G1/500
BVH	(80°-90°)	35.0	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°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	2110.0	2080.5	2012.2	1952.3	1877.5	1821.5	1753.1	1717.1	1690.5	1672.7	1658.4
5°	1970.9	1899.6	1769.3	1654.9	1531.5	1442.4	1338.0	1281.0	1245.9	1226.7	1218.0
7.5°	1764.5	1670.2	1501.5	1348.0	1193.7	1082.4	1003.3	919.0	874.2	845.1	835.5
10°	1584.0	1477.6	1276.3	1103.8	984.6	905.5	837.7	760.3	702.9	652.9	634.2
12.5°	1479.3	1355.4	1125.9	969.9	869.8	785.1	713.3	629.9	569.5	517.3	497.3
15°	1457.1	1318.9	1062.8	884.6	762.0	659.9	573.8	482.9	423.8	380.8	366.9
17.5°	1524.1	1353.7	1036.4	806.8	659.0	534.3	428.2	330.8	281.7	258.2	252.6
20°	1661.9	1430.2	1023.8	736.8	559.0	411.2	296.0	224.7	200.4	193.4	193.0
22.5°	1843.2	1554.5	1037.7	679.4	465.1	303.4	217.0	184.7	174.7	170.8	170.8
25°	2047.9	1722.8	1074.6	635.6	382.6	236.0	186.9	169.5	161.3	157.3	157.8
27.5°	2298.3	1927.4	1125.0	595.2	323.5	206.9	174.7	160.0	151.7	147.8	148.2
30°	2487.0	2103.6	1168.5	558.1	293.0	195.2	168.3	154.4	145.2	139.5	139.1
32.5°	2663.5	2258.8	1203.7	531.6	275.6	174.3	152.1	141.7	133.9	127.4	126.0
35°	2858.6	2404.8	1220.2	530.8	264.3	157.3	139.1	126.5	118.7	111.3	110.0
37.5°	3079.9	2583.5	1234.1	536.0	258.2	146.5	133.0	120.8	114.4	106.9	105.2
40°	3310.3	2758.2	1245.0	540.3	257.4	139.1	128.3	117.3	110.9	103.0	101.3
42.5°	3508.1	2913.0	1259.8	538.6	251.2	137.8	125.2	114.4	108.2	100.5	98.2
45°	3666.4	3036.0	1282.8	538.2	242.1	140.9	124.3	113.4	106.1	97.8	96.1
47.5°	3813.7	3174.6	1331.5	536.4	232.1	139.9	129.1	112.6	105.2	97.0	95.6
50°	3982.3	3361.1	1414.5	523.3	218.2	133.9	137.8	111.7	103.0	95.6	94.3
52.5°	4217.1	3634.1	1537.6	499.9	199.1	127.4	139.1	111.3	99.5	93.0	91.2
55°	4493.1	3926.7	1670.2	466.1	173.9	116.1	132.2	109.6	96.1	89.1	86.5
57.5°	4706.6	4142.7	1762.7	417.4	149.1	109.6	117.8	105.7	91.8	84.8	82.6
60°	4766.5	4152.4	1779.2	359.1	136.5	105.2	101.3	115.2	88.3	80.8	78.7
62.5°	4694.8	3962.4	1671.4	318.2	132.2	100.9	92.2	110.0	84.8	77.3	75.2
65°	4482.3	3641.5	1430.2	312.1	136.5	97.0	87.4	87.8	81.3	73.9	71.7
67.5°	3985.8	3169.4	1126.8	316.0	141.7	93.0	83.9	80.0	77.3	70.9	68.2
70°	3241.6	2551.8	887.7	322.9	146.5	87.8	79.6	74.8	72.6	65.7	64.3
72.5°	2496.9	2042.2	700.3	318.2	151.3	82.6	73.4	69.6	66.9	60.5	59.1
75°	1773.2	1622.8	514.6	273.0	138.7	75.2	66.5	63.0	60.9	53.9	53.5
77.5°	1278.1	1215.5	358.2	205.2	109.6	66.1	58.7	55.6	54.3	46.5	46.5
80°	1019.4	925.1	214.3	133.9	80.0	54.7	49.1	47.8	46.5	38.7	39.1
82.5°	732.4	641.6	137.0	83.5	58.7	41.7	38.3	37.8	35.6	28.6	28.6
85°	375.6	327.8	87.8	56.1	41.3	26.9	25.2	24.3	23.0	17.8	17.8
87.5°	73.0	100.5	48.7	27.4	19.9	9.5	9.5	8.3	9.5	6.5	7.0
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°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	1685.8	1677.1	1671.0	1667.9	1711.9	1730.1	1751.0	1781.0	1801.4	1792.7	1820.5
5°	1258.9	1265.0	1278.9	1300.7	1362.0	1391.1	1409.7	1434.5	1452.4	1434.5	1464.0
7.5°	860.7	869.8	899.4	944.2	1018.0	1050.7	1057.2	1057.6	1053.7	1024.6	1044.6
10°	633.8	615.5	622.1	654.3	720.3	749.4	752.5	744.6	743.4	731.6	754.2
12.5°	491.2	466.1	451.2	456.4	506.0	529.9	533.8	538.2	556.0	561.6	589.4
15°	366.4	353.4	342.6	337.8	370.4	389.0	391.3	401.7	420.3	425.5	449.5
17.5°	257.8	261.3	266.9	269.0	292.6	304.7	301.3	301.3	304.3	303.0	316.5
20°	196.9	203.9	214.7	225.2	246.4	253.4	244.7	233.8	226.9	223.4	226.5
22.5°	173.9	178.7	185.7	199.1	217.0	220.4	209.1	200.4	193.8	190.4	190.9
25°	161.3	166.0	171.8	182.6	197.8	199.6	189.1	183.4	178.2	174.7	173.9
27.5°	150.4	153.4	156.9	163.9	179.5	180.4	173.5	170.0	166.5	163.9	163.1
30°	140.5	141.7	143.0	150.0	161.7	163.1	159.6	157.8	156.5	154.8	154.8
32.5°	127.4	129.1	131.2	137.4	148.6	150.4	148.2	146.9	144.7	143.9	142.6
35°	111.7	116.1	120.8	128.3	140.5	141.3	138.7	134.7	129.5	128.3	127.4
37.5°	105.2	106.1	112.1	120.8	133.5	134.3	130.8	124.3	120.4	120.8	121.7
40°	100.9	102.2	105.7	114.4	126.9	128.3	125.2	120.4	116.5	116.9	118.3
42.5°	97.4	99.1	101.3	106.9	119.6	122.1	121.3	116.9	113.0	113.9	115.6
45°	95.6	97.0	97.0	100.9	113.0	116.9	117.3	113.9	110.9	111.7	113.9
47.5°	94.7	94.7	93.5	96.5	108.6	112.6	113.4	111.7	110.0	110.9	113.0
50°	93.5	91.8	90.4	93.0	105.2	108.6	109.6	108.2	109.1	110.9	112.1
52.5°	89.5	87.8	87.8	89.5	101.7	105.2	105.7	104.8	106.5	108.6	110.9
55°	84.8	84.8	85.2	87.0	99.9	102.6	102.2	101.3	103.0	105.7	107.8
57.5°	80.4	80.0	82.1	84.3	97.8	99.5	98.7	98.7	99.9	102.2	104.3
60°	77.8	75.6	77.3	80.8	95.6	97.4	96.1	95.6	97.8	99.5	101.3
62.5°	75.2	73.0	74.4	77.8	92.6	93.9	93.0	93.0	95.2	96.5	98.2
65°	71.3	70.4	71.3	74.8	90.0	90.4	90.4	90.8	92.6	93.5	95.2
67.5°	67.8	67.8	68.2	71.7	87.8	87.0	87.0	89.1	89.5	90.4	92.2
70°	63.4	64.3	64.3	68.6	86.0	83.1	83.5	85.2	86.0	87.0	87.4
72.5°	58.7	59.1	59.9	65.7	83.5	79.1	79.6	80.8	81.3	82.6	83.1
75°	53.5	53.9	55.2	62.6	81.7	75.2	74.4	75.2	76.1	76.9	76.5
77.5°	47.4	48.3	49.5	60.9	76.1	74.4	67.8	68.6	69.6	69.6	69.2
80°	40.0	41.3	43.5	58.2	64.3	71.7	60.5	60.9	61.3	61.3	60.5
82.5°	30.0	32.6	35.6	48.3	50.4	61.3	52.2	53.0	51.8	50.8	50.4
85°	19.5	21.7	26.1	33.5	36.9	48.3	43.1	43.5	40.8	40.4	40.4
87.5°	7.8	8.3	11.8	17.0	22.2	30.0	30.9	31.7	29.6	29.6	30.4
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°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	1862.7	1906.2	1956.2	2007.0	2048.8	2102.7	2154.8	2210.5	2238.7	2255.3	2301.7
5°	1510.2	1569.7	1640.6	1720.1	1786.2	1899.2	2020.9	2156.6	2221.7	2286.1	2407.8
7.5°	1080.2	1138.5	1221.1	1324.1	1418.0	1567.2	1727.6	1911.0	2001.4	2105.7	2305.2
10°	802.0	863.8	938.6	1025.9	1118.5	1273.7	1453.6	1659.7	1759.3	1877.0	2104.0
12.5°	650.3	722.5	799.8	878.1	957.7	1062.0	1250.7	1479.7	1586.7	1705.4	1932.7
15°	507.3	584.7	668.2	753.3	832.5	949.0	1141.5	1412.4	1534.5	1649.3	1835.4
17.5°	359.1	432.1	526.0	629.4	744.2	882.0	1118.1	1442.0	1590.2	1710.2	1834.9
20°	244.7	295.1	389.0	511.7	653.4	828.1	1126.8	1545.8	1731.0	1862.7	1910.1
22.5°	195.6	219.5	282.9	407.7	575.1	789.0	1162.4	1688.4	1933.2	2093.6	2047.0
25°	177.8	191.3	224.3	322.1	505.5	762.9	1231.9	1876.6	2159.7	2322.2	2211.8
27.5°	166.9	178.7	200.0	264.7	445.6	745.9	1320.2	2098.4	2414.8	2548.3	2383.5
30°	160.0	171.8	191.3	237.7	400.4	720.8	1397.6	2300.9	2618.7	2705.2	2476.1
32.5°	146.5	155.6	171.8	213.0	366.4	691.2	1464.6	2482.2	2811.3	2839.9	2587.3
35°	132.6	142.2	158.3	193.0	346.5	668.2	1499.7	2643.0	3002.1	2974.7	2697.8
37.5°	127.4	135.2	150.0	178.7	335.6	652.9	1513.3	2801.2	3206.8	3123.8	2774.8
40°	123.9	130.8	143.9	169.1	332.6	638.6	1510.2	2951.6	3405.5	3278.1	2835.1
42.5°	121.3	127.4	139.5	162.5	324.3	625.1	1500.2	3081.6	3564.6	3411.1	2893.0
45°	119.1	125.6	137.8	166.0	309.0	610.3	1494.1	3200.3	3686.7	3523.2	2970.3
47.5°	118.3	125.6	138.2	165.2	292.6	593.8	1515.8	3332.1	3793.2	3617.7	3073.4
50°	116.9	125.2	147.8	157.3	270.0	573.4	1589.3	3489.0	3905.0	3723.7	3206.8
52.5°	114.8	124.8	157.8	151.3	240.8	545.1	1708.4	3710.7	4097.9	3930.2	3404.2
55°	112.1	125.6	150.9	141.7	210.0	508.6	1827.5	4014.5	4411.0	4263.1	3687.6
57.5°	109.1	124.3	142.6	133.0	184.3	462.6	1917.9	4263.6	4669.2	4606.6	4035.8
60°	106.9	127.4	128.3	127.8	167.8	418.6	1926.6	4247.5	4743.5	4829.6	4376.6
62.5°	104.3	130.0	116.9	123.9	159.6	377.8	1819.2	3984.5	4617.9	4800.9	4654.4
65°	100.9	113.4	110.9	120.4	159.6	356.0	1569.3	3546.8	4270.5	4529.6	4805.2
67.5°	97.4	103.0	106.5	115.6	163.1	335.6	1261.1	2991.6	3722.8	4091.9	4635.7
70°	92.6	97.4	101.7	111.3	161.3	321.2	992.5	2397.8	3063.8	3486.3	4166.7
72.5°	88.3	91.8	96.1	104.8	161.3	314.8	797.3	1881.0	2339.2	2695.2	3451.5
75°	81.7	84.8	88.7	98.2	158.3	287.8	598.6	1507.1	1711.4	1934.4	2723.4
77.5°	75.2	77.3	80.4	90.0	142.6	240.4	423.4	1167.2	1268.0	1391.5	2123.1
80°	66.9	68.6	70.9	80.4	118.3	186.5	275.6	912.9	948.1	1007.6	1396.7
82.5°	57.4	59.9	60.5	69.2	95.2	135.2	163.9	625.5	625.1	712.5	985.5
85°	47.0	48.3	49.1	54.3	70.4	90.0	107.8	341.7	304.7	426.9	855.9
87.5°	35.2	33.9	35.2	36.5	46.5	53.0	57.8	63.0	37.8	77.3	497.8
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: XNV-AF-01-LED-U-SLR-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0	2044.0
2.5°	2326.6	2352.2	2337.0	2318.7	2273.1	2206.1	2154.8	2110.0
5°	2492.2	2539.6	2518.7	2450.9	2332.6	2198.3	2057.1	1970.9
7.5°	2471.3	2565.3	2557.0	2443.9	2274.4	2076.6	1877.9	1764.5
10°	2304.4	2436.1	2458.7	2343.1	2163.5	1942.3	1712.3	1584.0
12.5°	2122.6	2233.5	2279.6	2235.7	2066.6	1841.8	1607.6	1479.3
15°	1970.5	2026.6	2072.3	2100.5	1995.8	1806.2	1589.3	1457.1
17.5°	1858.0	1847.0	1885.3	1953.1	1957.5	1853.6	1671.9	1524.1
20°	1803.6	1718.4	1740.6	1835.8	1947.1	1974.0	1836.6	1661.9
22.5°	1800.6	1667.5	1671.9	1774.5	1977.1	2138.3	2042.2	1843.2
25°	1847.6	1661.9	1665.8	1768.0	2030.0	2304.0	2280.1	2047.9
27.5°	1927.4	1686.2	1683.6	1796.6	2100.9	2442.2	2520.0	2298.3
30°	2014.0	1721.4	1714.9	1842.7	2170.5	2527.4	2690.4	2487.0
32.5°	2121.8	1784.0	1761.4	1910.1	2239.1	2609.1	2836.0	2663.5
35°	2224.4	1875.8	1843.2	2006.6	2312.7	2700.0	2999.1	2858.6
37.5°	2329.2	2012.7	1994.4	2145.7	2416.5	2798.7	3185.6	3079.9
40°	2463.5	2207.4	2198.7	2347.9	2555.2	2906.4	3394.7	3310.3
42.5°	2608.2	2414.4	2407.0	2580.0	2727.4	3014.7	3573.7	3508.1
45°	2755.6	2665.2	2666.9	2827.7	2908.7	3116.8	3714.5	3666.4
47.5°	2929.5	2939.4	3001.6	3084.7	3085.1	3230.8	3839.3	3813.7
50°	3150.3	3270.8	3385.5	3398.5	3263.3	3381.2	3991.9	3982.3
52.5°	3400.3	3652.9	3786.2	3745.0	3437.2	3567.6	4217.5	4217.1
55°	3697.1	4052.3	4177.9	4107.6	3645.5	3810.6	4512.2	4493.1
57.5°	4005.0	4436.6	4537.9	4446.2	3905.8	4093.6	4807.9	4706.6
60°	4337.5	4767.5	4870.5	4732.7	4198.0	4375.8	5003.5	4766.5
62.5°	4555.3	4960.9	5034.8	4902.6	4459.7	4663.1	5066.5	4694.8
65°	4566.6	4832.2	4851.8	4804.8	4571.0	4912.6	4975.2	4482.3
67.5°	4256.2	4271.8	4297.5	4348.0	4333.1	4801.3	4623.1	3985.8
70°	3592.4	3383.7	3468.1	3516.8	3626.4	4270.5	3972.3	3241.6
72.5°	2746.9	2442.2	2537.8	2521.3	2749.1	3502.9	3039.1	2496.9
75°	1977.1	1665.4	1672.7	1673.6	1975.3	2796.0	2072.3	1773.2
77.5°	1343.6	1178.4	1202.8	1187.6	1322.0	2190.4	1491.9	1278.1
80°	919.0	914.6	919.8	884.2	881.6	1415.9	1104.6	1019.4
82.5°	681.6	629.9	622.5	584.7	675.6	1082.4	838.5	732.4
85°	537.8	348.6	303.0	365.6	585.1	995.9	511.2	375.6
87.5°	227.8	137.0	83.1	164.3	325.2	729.9	141.7	73.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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