

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: P271256

Luminaire Tested: **XNV-AF-01-LED-U-SLR-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271256
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-7027-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 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: 5091.9 lumens
Efficiency: N/A
Efficacy: 77.2 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

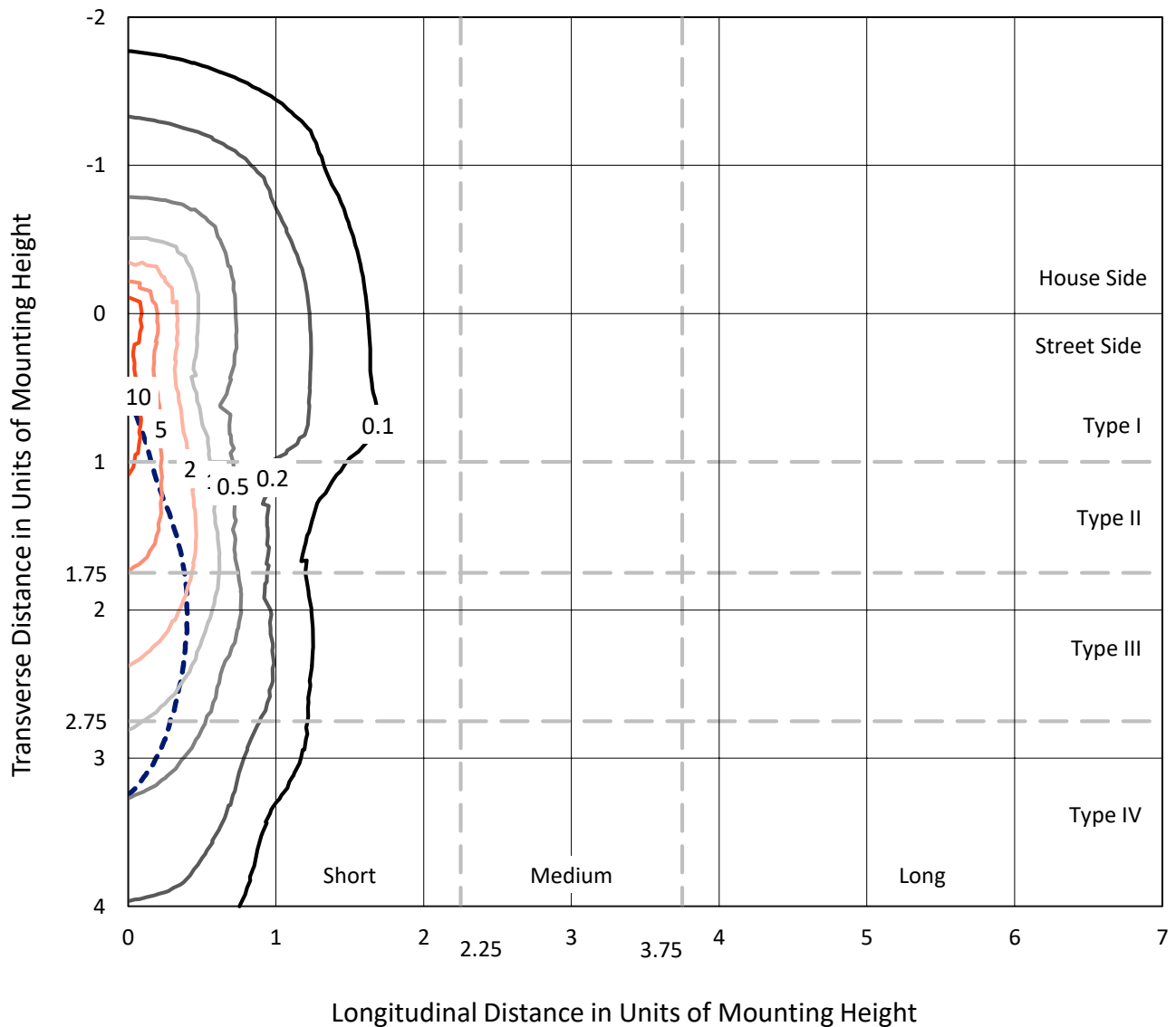


REPORT NUMBER: P271256

CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

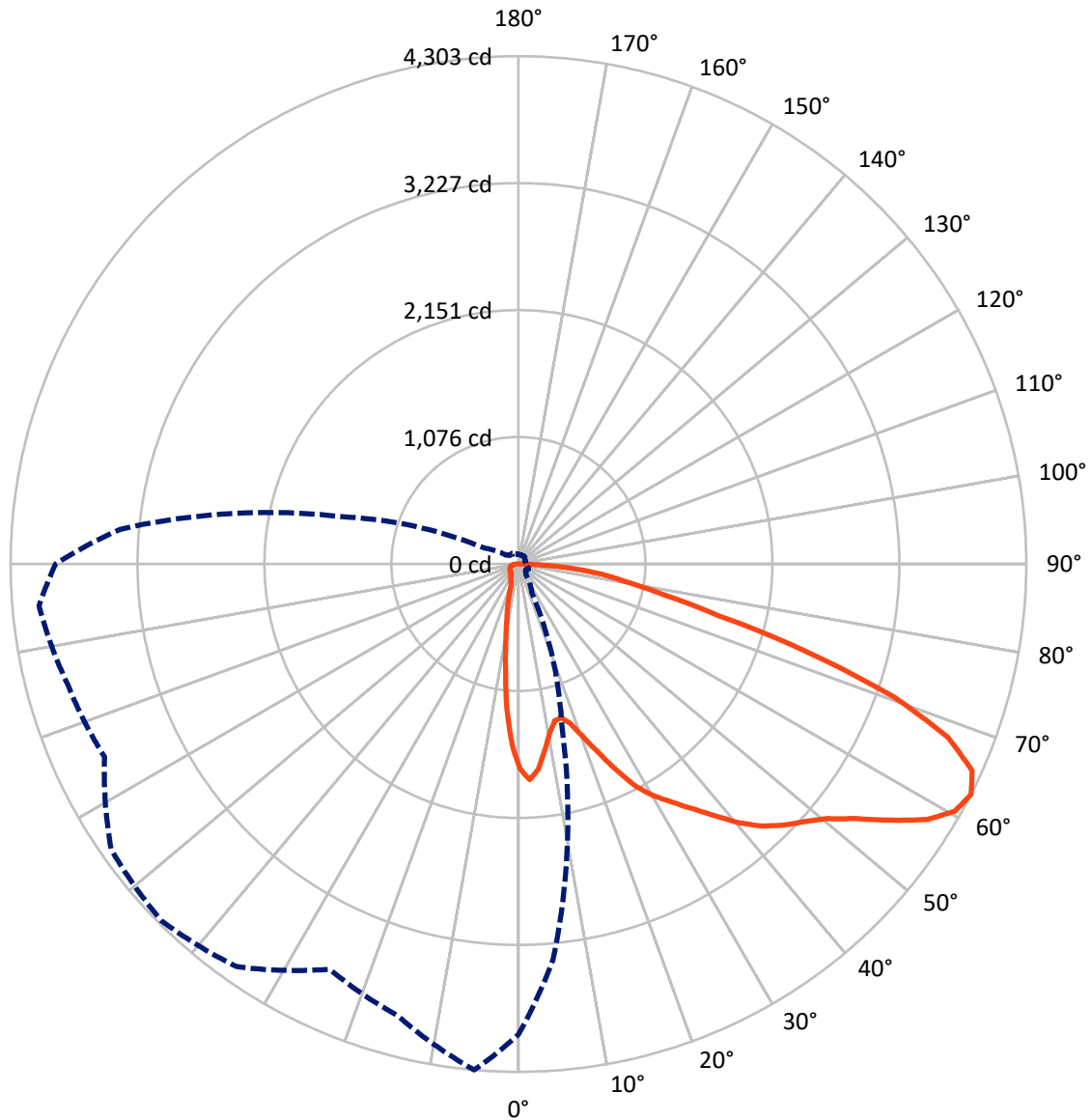


Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P271256

CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P271256

CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	902.0	0.0	902.0
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	4189.9	0.0	4189.9
	% Fixture	82.3	0.0	82.3
Total	Lumens	5091.9	0.0	5091.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	2.5
10°-20°	230.6	4.5
20°-30°	331.6	6.5
30°-40°	507.9	10.0
40°-50°	742.6	14.6
50°-60°	1080.5	21.2
60°-70°	1252.0	24.6
70°-80°	652.6	12.8
80°-90°	167.8	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°	5091.9	100.0
0°-180°	5091.9	100.0



REPORT NUMBER: P271256

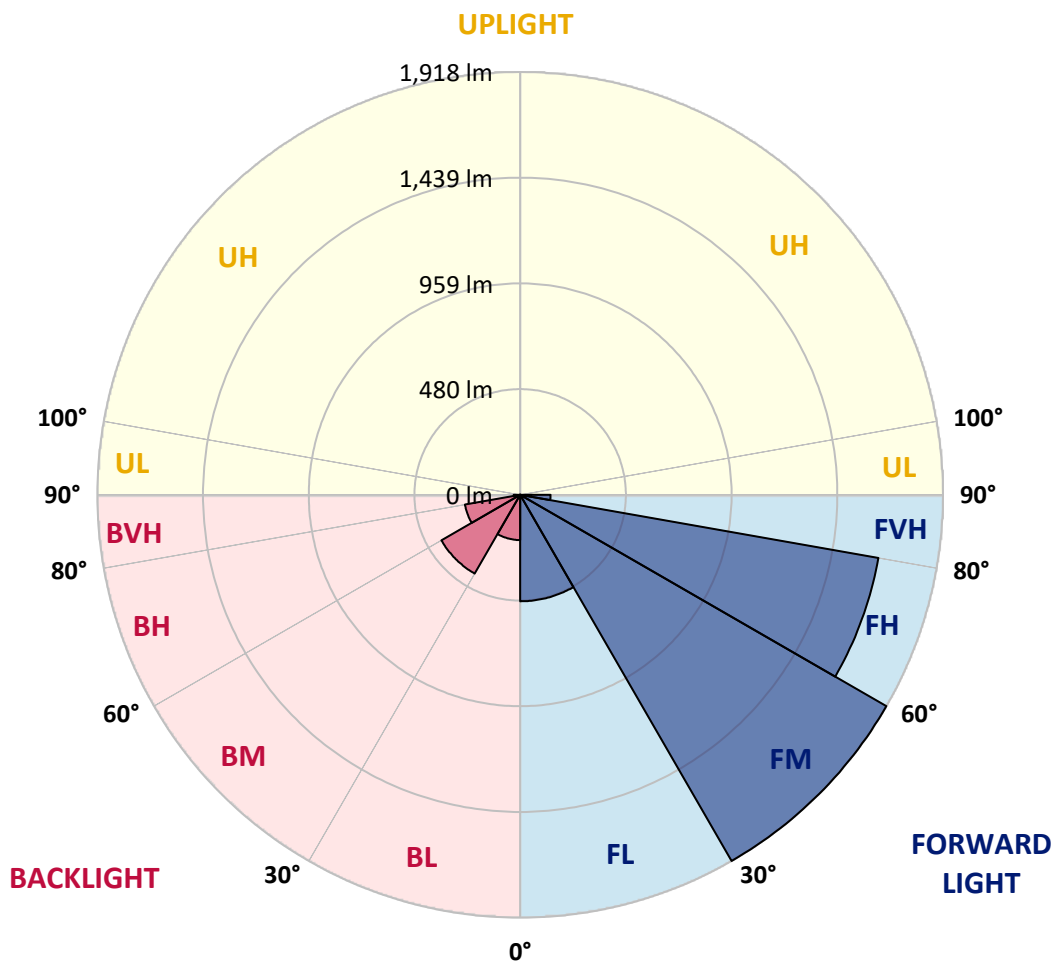
CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.2	9.5			
FM	(30°-60°)	1918.4	37.7			
FH	(60°-80°)	1650.2	32.4			G1/1800
FVH	(80°-90°)	138.0	2.7			G2/225
BL	(0°-30°)	205.2	4.0	B1/500		
BM	(30°-60°)	412.7	8.1	B1/1000		
BH	(60°-80°)	254.3	5.0	B1/500		G1/500
BVH	(80°-90°)	29.7	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





REPORT NUMBER: P271256

CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1792.1	1767.0	1708.9	1658.0	1594.5	1546.9	1488.9	1458.3	1435.9	1420.7	1408.5
5°	1673.9	1613.4	1502.7	1405.5	1300.7	1225.0	1136.4	1087.9	1058.2	1041.9	1034.5
7.5°	1498.6	1418.5	1275.1	1144.9	1013.7	919.2	852.1	780.4	742.4	717.7	709.7
10°	1345.3	1254.9	1084.0	937.4	836.2	768.9	711.5	645.7	597.0	554.6	538.7
12.5°	1256.4	1151.2	956.2	823.7	738.8	666.7	605.8	535.0	483.6	439.4	422.4
15°	1237.5	1120.1	902.6	751.3	647.1	560.5	487.3	410.2	360.0	323.4	311.6
17.5°	1294.4	1149.7	880.2	685.1	559.7	453.7	363.6	281.0	239.3	219.2	214.4
20°	1411.4	1214.7	869.5	625.8	474.8	349.3	251.4	190.9	170.1	164.3	163.9
22.5°	1565.3	1320.1	881.2	577.0	395.1	257.8	184.2	156.9	148.4	145.0	145.0
25°	1739.3	1463.1	912.7	539.7	324.8	200.5	158.7	144.0	137.0	133.7	133.9
27.5°	1951.8	1637.0	955.4	505.4	274.7	175.8	148.4	135.9	128.8	125.6	125.9
30°	2112.2	1786.5	992.4	474.0	248.8	165.7	142.9	131.1	123.2	118.4	118.1
32.5°	2262.0	1918.3	1022.4	451.5	234.1	148.0	129.3	120.4	113.7	108.2	107.1
35°	2427.8	2042.3	1036.4	450.8	224.4	133.7	118.1	107.4	100.8	94.5	93.5
37.5°	2615.8	2194.1	1048.1	455.3	219.2	124.4	112.9	102.6	97.0	90.8	89.3
40°	2811.3	2342.5	1057.3	458.9	218.6	118.1	109.0	99.7	94.1	87.5	86.0
42.5°	2979.4	2473.9	1069.9	457.4	213.3	117.0	106.3	97.0	91.9	85.2	83.5
45°	3113.7	2578.4	1089.5	457.1	205.6	119.7	105.6	96.4	90.1	83.1	81.6
47.5°	3238.8	2696.3	1130.8	455.6	197.2	118.8	109.7	95.6	89.3	82.4	81.2
50°	3382.2	2854.5	1201.4	444.5	185.3	113.7	117.0	95.0	87.5	81.2	80.0
52.5°	3581.5	3086.4	1305.9	424.5	169.2	108.2	118.1	94.5	84.5	79.1	77.6
55°	3816.0	3334.9	1418.5	395.8	147.7	98.5	112.3	93.1	81.6	75.6	73.5
57.5°	3997.3	3518.4	1497.0	354.4	126.7	93.1	100.0	89.7	78.0	72.0	70.2
60°	4048.2	3526.6	1511.0	305.0	115.9	89.3	86.0	97.8	75.0	68.7	66.8
62.5°	3987.2	3365.2	1419.5	270.2	112.3	85.7	78.2	93.5	72.0	65.8	63.9
65°	3806.7	3092.8	1214.7	265.1	115.9	82.4	74.2	74.6	69.0	62.7	60.9
67.5°	3385.2	2691.9	957.0	268.5	120.4	79.1	71.2	67.9	65.8	60.1	58.0
70°	2753.0	2167.2	753.9	274.3	124.4	74.6	67.6	63.5	61.7	55.8	54.6
72.5°	2120.5	1734.4	594.8	270.2	128.5	70.2	62.4	59.1	56.9	51.4	50.2
75°	1505.9	1378.2	437.1	231.9	117.8	63.9	56.6	53.4	51.7	45.8	45.5
77.5°	1085.4	1032.2	304.3	174.2	93.1	56.1	49.9	47.3	46.2	39.4	39.4
80°	865.7	785.7	181.9	113.7	67.9	46.5	41.7	40.7	39.4	32.9	33.2
82.5°	622.0	544.9	116.3	70.8	49.9	35.5	32.5	32.1	30.3	24.3	24.3
85°	319.0	278.4	74.6	47.6	35.0	22.8	21.4	20.8	19.6	15.1	15.1
87.5°	62.1	85.2	41.3	23.3	17.0	8.2	8.2	6.9	8.2	5.5	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271256

CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1431.7	1424.4	1419.1	1416.5	1453.8	1469.4	1487.1	1512.6	1530.0	1522.5	1546.2
5°	1069.3	1074.4	1086.2	1104.6	1156.7	1181.5	1197.4	1218.3	1233.5	1218.3	1243.4
7.5°	731.0	738.8	763.9	801.8	864.7	892.3	897.9	898.2	894.9	870.2	887.2
10°	538.3	522.8	528.4	555.6	611.7	636.4	639.1	632.4	631.2	621.4	640.5
12.5°	417.3	395.8	383.2	387.7	429.7	450.1	453.4	457.1	472.1	477.0	500.6
15°	311.3	300.2	291.0	286.9	314.5	330.4	332.3	341.1	356.9	361.5	381.7
17.5°	218.9	221.9	226.7	228.4	248.6	258.8	255.8	255.8	258.4	257.4	268.8
20°	167.3	173.2	182.4	191.2	209.3	215.2	207.9	198.6	192.7	189.7	192.3
22.5°	147.7	151.8	157.7	169.2	184.2	187.1	177.5	170.1	164.7	161.8	162.1
25°	137.0	141.0	145.9	155.0	168.1	169.5	160.5	155.8	151.4	148.4	147.7
27.5°	127.7	130.3	133.3	139.1	152.5	153.3	147.3	144.4	141.5	139.1	138.5
30°	119.3	120.4	121.5	127.4	137.4	138.5	135.5	133.9	132.9	131.4	131.4
32.5°	108.2	109.7	111.5	116.7	126.2	127.7	125.9	124.8	123.0	122.2	121.1
35°	95.0	98.5	102.6	109.0	119.3	120.1	117.8	114.4	110.0	109.0	108.2
37.5°	89.3	90.1	95.2	102.6	113.4	114.1	111.1	105.6	102.2	102.6	103.3
40°	85.7	86.7	89.7	97.0	107.7	109.0	106.3	102.2	99.0	99.4	100.4
42.5°	82.7	84.3	86.0	90.8	101.5	103.8	102.9	99.4	95.9	96.7	98.3
45°	81.2	82.4	82.4	85.7	95.9	99.4	99.7	96.7	94.1	95.0	96.7
47.5°	80.5	80.5	79.4	81.9	92.3	95.6	96.4	95.0	93.5	94.1	95.9
50°	79.4	78.0	76.7	79.1	89.3	92.3	93.1	91.9	92.6	94.1	95.2
52.5°	76.0	74.6	74.6	76.0	86.3	89.3	89.7	89.0	90.5	92.3	94.1
55°	72.0	72.0	72.4	73.8	84.9	87.1	86.7	86.0	87.5	89.7	91.5
57.5°	68.4	67.9	69.8	71.7	83.1	84.5	83.8	83.8	84.9	86.7	88.7
60°	66.0	64.3	65.8	68.7	81.2	82.7	81.6	81.2	83.1	84.5	86.0
62.5°	63.9	62.1	63.2	66.0	78.6	79.8	79.1	79.1	80.8	81.9	83.5
65°	60.5	59.7	60.5	63.5	76.4	76.7	76.7	77.2	78.6	79.4	80.8
67.5°	57.6	57.6	58.0	60.9	74.6	73.8	73.8	75.6	76.0	76.7	78.2
70°	53.9	54.6	54.6	58.3	73.1	70.4	70.8	72.4	73.1	73.8	74.2
72.5°	49.9	50.2	50.9	55.8	70.8	67.3	67.6	68.7	69.0	70.2	70.4
75°	45.5	45.8	46.9	53.2	69.3	63.9	63.2	63.9	64.6	65.3	64.9
77.5°	40.2	41.1	42.1	51.7	64.6	63.2	57.6	58.3	59.1	59.1	58.7
80°	34.0	35.0	36.9	49.4	54.6	60.9	51.4	51.7	52.0	52.0	51.4
82.5°	25.5	27.7	30.3	41.1	42.8	52.0	44.2	45.0	43.9	43.2	42.8
85°	16.6	18.4	22.2	28.4	31.4	41.1	36.6	36.9	34.8	34.3	34.3
87.5°	6.6	6.9	10.1	14.5	18.9	25.5	26.2	26.9	25.2	25.2	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271256

CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1581.9	1618.9	1661.3	1704.5	1739.9	1785.8	1830.0	1877.4	1901.4	1915.4	1954.9
5°	1282.6	1333.2	1393.4	1461.0	1517.0	1612.9	1716.4	1831.6	1886.9	1941.5	2044.9
7.5°	917.4	966.9	1037.1	1124.6	1204.3	1330.8	1467.1	1623.0	1699.8	1788.3	1957.9
10°	681.2	733.6	797.1	871.3	950.0	1081.6	1234.6	1409.6	1494.2	1594.1	1786.9
12.5°	552.3	613.6	679.3	745.8	813.3	902.0	1062.2	1256.6	1347.5	1448.3	1641.5
15°	430.8	496.6	567.5	639.9	707.0	806.0	969.5	1199.4	1303.3	1400.6	1558.6
17.5°	305.0	367.0	446.7	534.6	632.0	749.0	949.6	1224.6	1350.5	1452.4	1558.4
20°	207.9	250.6	330.4	434.5	555.0	703.4	957.0	1312.9	1470.2	1581.9	1622.2
22.5°	166.1	186.5	240.3	346.2	488.5	670.0	987.1	1434.0	1641.8	1778.0	1738.5
25°	150.9	162.5	190.5	273.5	429.4	647.9	1046.3	1593.9	1834.2	1972.1	1878.4
27.5°	141.8	151.8	169.8	224.8	378.5	633.6	1121.3	1782.1	2050.9	2164.1	2024.3
30°	135.9	145.9	162.5	201.9	340.0	612.1	1186.9	1954.2	2224.1	2297.4	2102.9
32.5°	124.4	132.2	145.9	180.9	311.3	587.0	1243.9	2108.1	2387.5	2411.9	2197.4
35°	112.6	120.7	134.3	163.9	294.3	567.5	1273.6	2244.7	2549.6	2526.4	2291.1
37.5°	108.2	114.9	127.4	151.8	285.0	554.6	1285.1	2379.2	2723.5	2653.1	2356.6
40°	105.2	111.1	122.2	143.5	282.4	542.3	1282.6	2506.8	2892.3	2784.0	2407.8
42.5°	102.9	108.2	118.4	138.1	275.4	530.9	1274.1	2617.2	3027.4	2897.0	2457.0
45°	101.1	106.7	117.0	141.0	262.5	518.3	1268.9	2718.0	3131.1	2992.3	2522.7
47.5°	100.4	106.7	117.4	140.2	248.6	504.3	1287.5	2829.8	3221.6	3072.5	2610.1
50°	99.4	106.3	125.6	133.7	229.2	487.1	1349.8	2963.1	3316.5	3162.6	2723.5
52.5°	97.5	106.0	133.9	128.5	204.5	462.9	1450.9	3151.4	3480.4	3337.8	2891.1
55°	95.2	106.7	128.1	120.4	178.4	431.9	1552.1	3409.4	3746.2	3620.7	3131.9
57.5°	92.6	105.6	121.1	112.9	156.6	392.7	1628.8	3621.1	3965.5	3912.3	3427.6
60°	90.8	108.2	109.0	108.5	142.6	355.5	1636.3	3607.4	4028.5	4101.8	3717.0
62.5°	88.7	110.4	99.4	105.2	135.5	320.9	1545.1	3384.1	3921.9	4077.3	3952.9
65°	85.7	96.4	94.1	102.2	135.5	302.4	1332.7	3012.2	3626.9	3847.0	4081.0
67.5°	82.7	87.5	90.5	98.3	138.5	285.0	1071.0	2540.8	3161.8	3475.3	3937.0
70°	78.6	82.7	86.3	94.5	137.0	272.8	842.9	2036.5	2602.1	2961.0	3538.8
72.5°	75.0	78.0	81.6	89.0	137.0	267.2	677.1	1597.5	1986.6	2289.1	2931.3
75°	69.3	72.0	75.3	83.5	134.3	244.3	508.4	1279.9	1453.5	1642.9	2313.0
77.5°	63.9	65.8	68.4	76.4	121.1	204.2	359.6	991.3	1077.0	1181.8	1803.2
80°	56.9	58.3	60.1	68.4	100.4	158.5	234.1	775.2	805.2	855.7	1186.2
82.5°	48.8	50.9	51.4	58.7	80.8	114.9	139.1	531.3	530.9	605.1	837.0
85°	39.9	41.1	41.7	46.2	59.7	76.4	91.5	290.2	258.8	362.6	727.0
87.5°	30.0	28.7	30.0	31.0	39.4	45.0	49.0	53.4	32.1	65.8	422.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P271256

CATALOG NUMBER: XNV-AF-01-LED-U-SLR-7027-1200

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0	1736.0
2.5°	1975.9	1997.7	1984.7	1969.3	1930.5	1873.7	1830.0	1792.1
5°	2116.5	2156.8	2139.1	2081.6	1981.1	1866.9	1747.1	1673.9
7.5°	2098.9	2178.6	2171.7	2075.7	1931.6	1763.6	1594.9	1498.6
10°	1957.0	2068.9	2088.1	1989.9	1837.5	1649.6	1454.3	1345.3
12.5°	1802.8	1897.0	1936.0	1898.7	1755.2	1564.3	1365.2	1256.4
15°	1673.5	1721.2	1759.9	1783.9	1694.9	1533.9	1349.8	1237.5
17.5°	1578.0	1568.7	1601.1	1658.8	1662.5	1574.2	1420.0	1294.4
20°	1531.8	1459.4	1478.3	1559.1	1653.6	1676.4	1559.8	1411.4
22.5°	1529.2	1416.2	1420.0	1507.0	1679.1	1816.1	1734.4	1565.3
25°	1569.1	1411.4	1414.7	1501.4	1724.1	1956.7	1936.3	1739.3
27.5°	1637.0	1432.1	1429.9	1526.0	1784.4	2074.1	2140.2	1951.8
30°	1710.5	1462.0	1456.4	1564.9	1843.4	2146.5	2284.8	2112.2
32.5°	1802.0	1515.3	1495.9	1622.2	1901.7	2215.8	2408.6	2262.0
35°	1889.1	1593.1	1565.3	1704.2	1964.1	2293.1	2547.1	2427.8
37.5°	1978.2	1709.4	1693.8	1822.3	2052.4	2376.8	2705.4	2615.8
40°	2092.2	1874.8	1867.3	1994.0	2170.1	2468.5	2883.0	2811.3
42.5°	2215.1	2050.6	2044.3	2191.1	2316.3	2560.3	3035.2	2979.4
45°	2340.4	2263.5	2264.9	2401.6	2470.2	2647.0	3154.8	3113.7
47.5°	2487.9	2496.5	2549.3	2619.7	2620.1	2743.9	3260.7	3238.8
50°	2675.5	2777.7	2875.2	2886.3	2771.5	2871.6	3390.4	3382.2
52.5°	2887.8	3102.3	3215.7	3180.5	2919.2	3030.0	3581.9	3581.5
55°	3139.9	3441.5	3548.2	3488.5	3096.1	3236.4	3832.2	3816.0
57.5°	3401.3	3768.0	3854.0	3776.0	3317.3	3476.7	4083.2	3997.3
60°	3683.8	4048.9	4136.4	4019.3	3565.4	3716.3	4249.4	4048.2
62.5°	3868.8	4213.2	4276.0	4163.7	3787.6	3960.3	4302.9	3987.2
65°	3878.3	4103.9	4120.5	4080.7	3882.0	4172.3	4225.4	3806.7
67.5°	3614.8	3628.1	3649.9	3692.7	3680.0	4077.8	3926.3	3385.2
70°	3051.1	2873.8	2945.5	2986.8	3079.7	3626.9	3373.7	2753.0
72.5°	2332.9	2074.1	2155.4	2141.3	2334.8	2974.9	2581.0	2120.5
75°	1679.1	1414.4	1420.7	1421.4	1677.7	2374.6	1759.9	1505.9
77.5°	1141.1	1000.9	1021.6	1008.6	1122.7	1860.4	1267.1	1085.4
80°	780.4	776.8	781.2	751.0	748.6	1202.4	938.1	865.7
82.5°	578.9	535.0	528.7	496.6	573.7	919.2	712.1	622.0
85°	456.7	296.1	257.4	310.5	496.9	845.8	434.2	319.0
87.5°	193.4	116.3	70.4	139.5	276.1	619.9	120.4	62.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)