

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: P198741

Luminaire Tested: **XNV2-AF-02-LED-U-SLL-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198741
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-SLL-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8802.5 lumens
Efficiency: N/A
Efficacy: 103.6 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 - G3

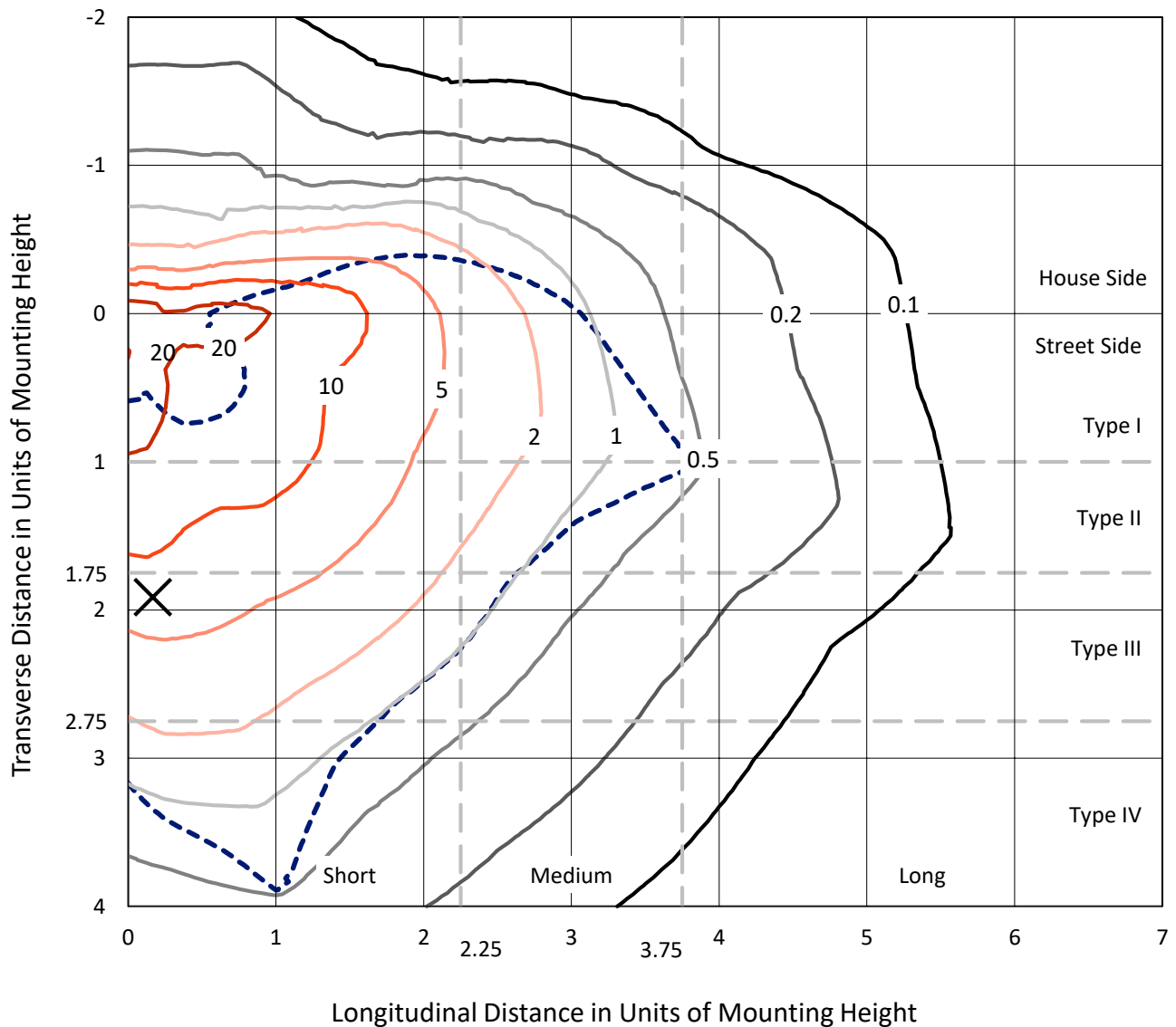
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P198741
 CATALOG NUMBER: XNV2-AF-02-LED-U-SLL-800

Iso-Footcandle Lines of Horizontal Illumination

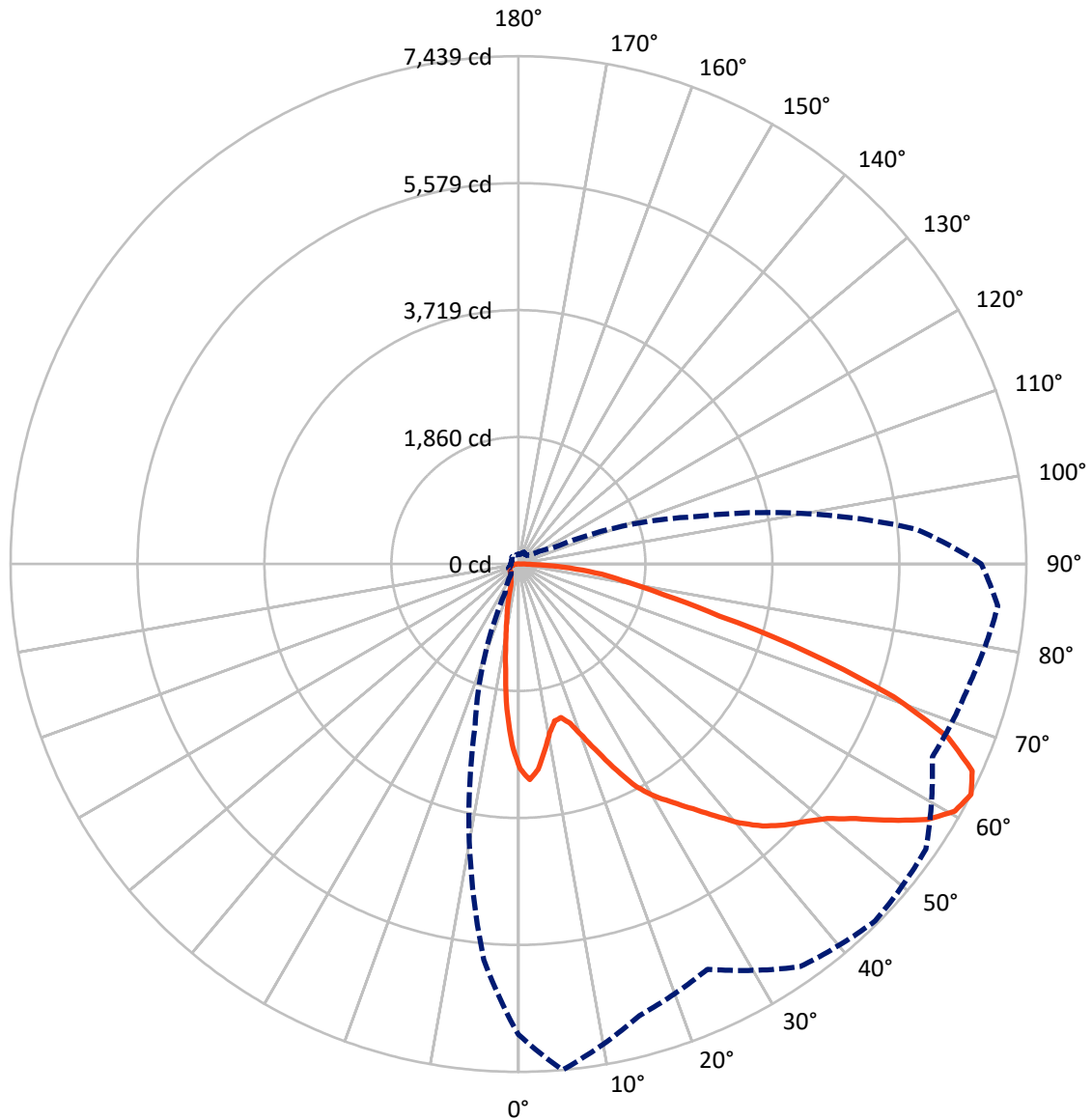
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.4 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198741
CATALOG NUMBER: XNV2-AF-02-LED-U-SLL-800

Luminous Intensity Polar Plot



— Vertical Plane Through 5-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



REPORT NUMBER: P198741

CATALOG NUMBER: XNV2-AF-02-LED-U-SLL-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1559.4	0.0	1559.4
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	7243.1	0.0	7243.1
	% Fixture	82.3	0.0	82.3
Total	Lumens	8802.5	0.0	8802.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.2	2.5
10°-20°	398.6	4.5
20°-30°	573.3	6.5
30°-40°	878.1	10.0
40°-50°	1283.8	14.6
50°-60°	1868.0	21.2
60°-70°	2164.3	24.6
70°-80°	1128.2	12.8
80°-90°	290.0	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°	8802.5	100.0
0°-180°	8802.5	100.0

Coefficient of Utilization



REPORT NUMBER: P198741

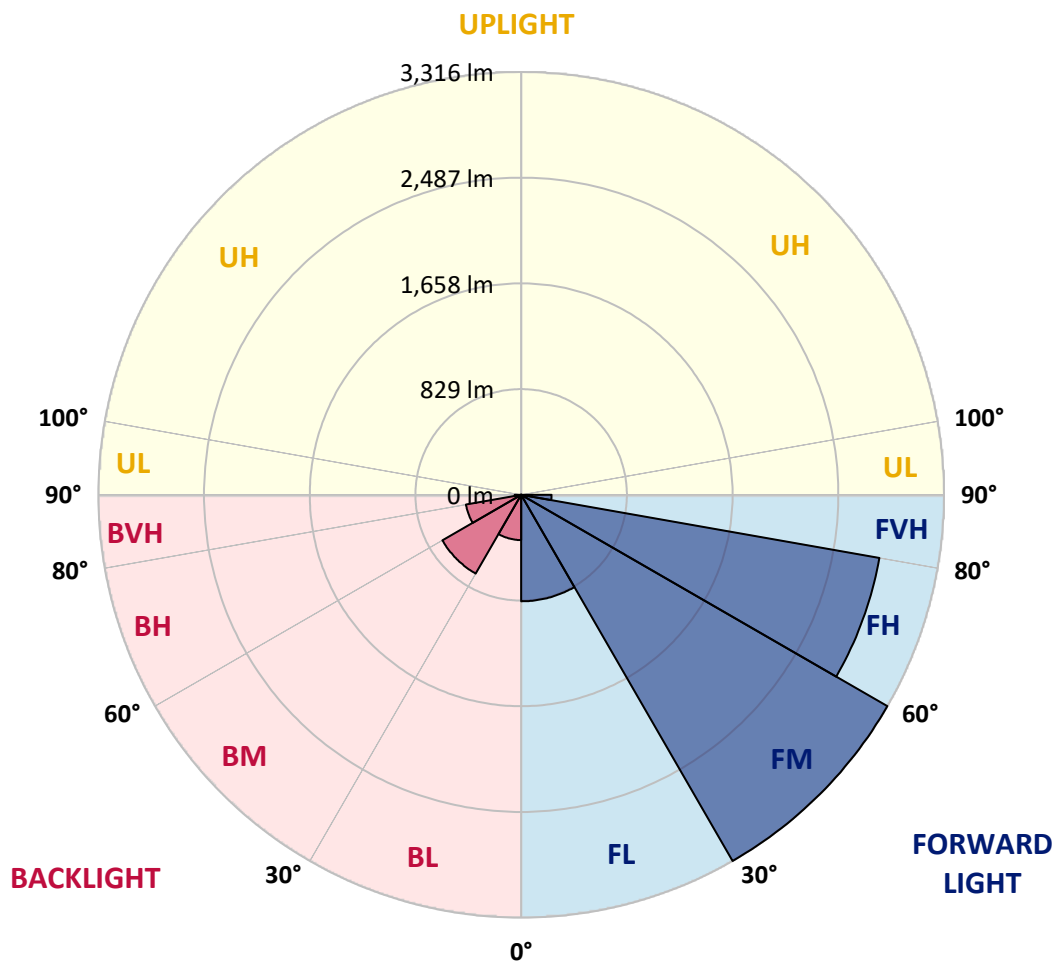
CATALOG NUMBER: XNV2-AF-02-LED-U-SLL-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	835.4	9.5			
FM	(30°-60°)	3316.4	37.7			
FH	(60°-80°)	2852.8	32.4			G2/5000
FVH	(80°-90°)	238.6	2.7			G3/500
BL	(0°-30°)	354.8	4.0	B1/500		
BM	(30°-60°)	713.5	8.1	B1/1000		
BH	(60°-80°)	439.7	5.0	B1/500		G1/500
BVH	(80°-90°)	51.4	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-G3

Type IV Short





REPORT NUMBER: P198741

CATALOG NUMBER: XNV2-AF-02-LED-U-SLL-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9
2.5°	3097.9	3163.7	3239.0	3337.3	3404.3	3431.1	3453.5	3415.8	3379.4	3311.1	3286.8
5°	2893.7	3020.1	3227.5	3424.7	3598.3	3697.9	3728.6	3659.0	3535.1	3356.4	3262.0
7.5°	2590.5	2757.2	3048.8	3339.2	3588.1	3754.0	3766.2	3628.3	3384.5	3091.6	2938.4
10°	2325.7	2514.0	2851.6	3176.5	3440.1	3609.8	3576.6	3383.2	3089.0	2755.8	2583.0
12.5°	2171.9	2360.2	2704.2	3034.2	3282.4	3346.9	3279.2	3116.4	2837.6	2503.8	2329.6
15°	2139.3	2333.4	2651.8	2930.1	3083.9	3042.5	2975.5	2893.1	2694.6	2421.4	2252.9
17.5°	2237.6	2454.7	2721.4	2874.0	2867.5	2768.0	2711.8	2727.8	2693.9	2510.8	2334.7
20°	2439.9	2696.5	2898.2	2858.6	2695.3	2555.4	2522.9	2648.0	2804.4	2734.8	2541.4
22.5°	2706.1	2998.4	3139.4	2902.6	2605.3	2454.7	2448.2	2643.5	3005.4	3073.7	2838.2
25°	3006.7	3347.5	3382.6	2980.6	2595.6	2445.7	2439.9	2712.5	3247.3	3409.4	3170.7
27.5°	3374.3	3699.8	3585.5	3084.5	2637.8	2471.9	2475.6	2829.9	3499.4	3741.2	3545.3
30°	3651.3	3950.0	3710.7	3186.7	2705.4	2517.8	2527.4	2956.9	3635.4	3971.7	3844.7
32.5°	3910.4	4163.8	3830.6	3287.6	2804.4	2586.1	2619.3	3115.2	3798.7	4169.5	4127.4
35°	4197.0	4403.1	3964.0	3395.4	2946.1	2706.1	2754.0	3265.8	3960.9	4367.4	4407.6
37.5°	4521.9	4676.9	4108.9	3547.9	3150.3	2928.2	2955.0	3419.6	4073.8	4586.3	4708.2
40°	4860.1	4983.9	4267.1	3751.5	3447.0	3228.1	3240.9	3616.8	4162.5	4812.9	4999.9
42.5°	5150.5	5246.8	4426.1	4004.2	3787.9	3533.9	3544.7	3829.3	4247.4	5008.2	5233.4
45°	5382.8	5453.7	4576.1	4270.4	4151.6	3915.5	3913.0	4045.8	4361.0	5172.9	5412.8
47.5°	5599.1	5636.9	4743.3	4529.5	4528.9	4407.0	4315.7	4301.0	4512.2	5311.4	5569.1
50°	5846.8	5860.8	4964.2	4791.2	4989.6	4970.5	4802.0	4625.3	4708.2	5467.1	5733.2
52.5°	6191.4	6192.1	5237.9	5046.4	5498.4	5558.9	5363.0	4992.2	4997.9	5770.3	6016.6
55°	6596.7	6624.8	5594.7	5352.2	6030.6	6134.0	5949.6	5428.1	5414.1	6259.1	6476.1
57.5°	6910.1	7058.8	6010.1	5734.5	6527.8	6662.5	6513.7	5880.0	5925.3	6763.3	6855.2
60°	6998.2	7346.0	6424.4	6163.4	6948.4	7150.7	6999.4	6368.3	6425.7	7090.7	6964.4
62.5°	6892.8	7438.5	6846.3	6547.6	7197.9	7391.9	7283.4	6688.0	6833.5	7048.5	6779.9
65°	6580.7	7304.5	7212.6	6711.0	7054.4	7123.2	7094.6	6704.6	7055.0	6650.3	6270.0
67.5°	5851.9	6787.6	7049.3	6361.8	6383.5	6309.6	6271.8	6248.9	6806.1	6007.6	5465.7
70°	4759.3	5832.1	6270.0	5324.0	5163.2	5091.7	4968.0	5274.3	6117.5	5118.5	4498.2
72.5°	3665.9	4461.8	5142.9	4036.2	3701.8	3726.0	3585.5	4033.0	5067.5	3957.0	3434.3
75°	2603.3	3042.5	4105.1	2900.1	2457.1	2455.9	2445.1	2902.6	3998.5	2840.1	2512.7
77.5°	1876.4	2190.4	3216.1	1940.8	1743.6	1766.0	1730.2	1972.8	3117.1	2042.9	1861.7
80°	1496.7	1621.8	2078.7	1294.3	1298.1	1350.5	1342.8	1349.2	2050.6	1479.4	1391.9
82.5°	1075.4	1231.1	1589.2	991.9	858.5	913.9	924.7	1000.8	1446.9	1046.1	917.8
85°	551.5	750.5	1462.2	859.1	536.7	444.9	511.9	789.5	1256.7	626.8	447.4
87.5°	107.2	208.1	1071.5	477.4	241.2	121.9	201.0	334.4	730.8	113.6	55.5
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: P198741

CATALOG NUMBER: XNV2-AF-02-LED-U-SLL-800

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9
2.5°	3245.4	3163.7	3087.1	3008.0	2946.7	2872.0	2798.6	2734.8	2672.9	2632.1	2644.8
5°	3166.2	2967.1	2788.5	2622.4	2525.5	2408.6	2304.6	2217.2	2149.5	2106.2	2132.3
7.5°	2805.6	2536.3	2300.8	2081.9	1944.0	1792.8	1671.5	1586.0	1533.7	1504.4	1547.1
10°	2436.8	2134.2	1870.1	1642.1	1506.2	1377.9	1268.2	1177.5	1107.3	1074.1	1091.4
12.5°	2172.5	1836.2	1559.2	1406.0	1289.2	1174.3	1060.7	954.8	865.4	824.6	816.3
15°	2073.6	1676.0	1393.3	1222.2	1106.0	980.9	858.5	744.8	659.9	624.8	617.1
17.5°	2117.0	1641.5	1295.0	1092.6	924.1	772.2	634.4	527.1	464.6	444.9	446.7
20°	2269.5	1654.3	1215.8	959.2	751.2	571.2	433.3	359.4	332.6	328.1	333.2
22.5°	2478.9	1706.6	1158.4	844.3	598.6	415.5	322.3	287.2	280.2	279.6	284.7
25°	2755.2	1808.8	1120.1	742.3	472.9	329.3	280.8	261.1	255.3	256.6	261.7
27.5°	3080.7	1938.3	1095.2	654.2	388.7	293.6	262.3	245.1	239.4	240.6	244.5
30°	3378.1	2051.9	1058.1	587.8	349.1	280.8	252.1	234.9	227.2	227.2	229.8
32.5°	3644.3	2150.1	1014.8	538.1	312.7	252.1	228.5	215.1	209.3	211.2	212.6
35°	3880.5	2201.9	980.9	508.7	283.4	232.3	208.7	194.7	187.0	188.3	190.2
37.5°	4112.8	2221.6	958.6	492.8	262.3	220.1	198.5	187.0	178.7	177.4	176.8
40°	4333.5	2217.2	937.5	488.3	248.3	211.2	192.1	181.9	173.6	171.7	171.0
42.5°	4524.4	2202.5	917.8	476.1	238.7	204.9	187.0	178.1	169.8	167.3	165.9
45°	4698.6	2193.6	896.1	453.8	243.8	202.3	184.4	174.9	167.3	164.0	162.8
47.5°	4892.1	2225.5	871.9	429.5	242.5	203.0	184.4	173.6	165.9	162.8	161.4
50°	5122.4	2333.4	841.8	396.3	231.1	217.0	183.8	171.7	164.7	162.8	160.2
52.5°	5447.9	2508.3	800.4	353.5	222.1	231.7	183.2	168.5	162.8	159.6	156.4
55°	5894.0	2683.1	746.8	308.2	208.1	221.5	184.4	164.7	158.3	155.1	151.3
57.5°	6259.7	2815.9	679.0	270.6	195.3	209.3	182.5	160.2	153.1	150.0	146.8
60°	6236.1	2828.7	614.6	246.3	187.6	188.3	187.0	157.0	148.7	146.2	143.6
62.5°	5849.9	2671.0	554.6	234.3	181.9	171.7	190.8	153.1	144.2	141.7	139.7
65°	5207.3	2304.0	522.7	234.3	176.8	162.8	166.5	148.0	139.7	137.2	136.0
67.5°	4392.2	1851.5	492.8	239.4	169.8	156.4	151.3	143.0	135.3	132.8	131.4
70°	3520.5	1457.1	471.7	236.8	163.4	149.4	143.0	136.0	128.3	127.7	126.3
72.5°	2761.7	1170.5	462.1	236.8	153.9	141.1	134.6	129.6	121.9	121.2	119.4
75°	2212.7	878.8	422.5	232.3	144.2	130.2	124.5	120.0	112.3	112.9	111.7
77.5°	1713.6	621.6	352.9	209.3	132.1	118.0	113.6	110.4	101.5	102.1	102.1
80°	1340.3	404.7	273.8	173.6	118.0	104.0	100.9	98.3	88.7	90.0	90.0
82.5°	918.4	240.6	198.5	139.7	101.5	88.7	88.1	84.3	74.1	74.7	75.9
85°	501.7	158.3	132.1	103.4	79.8	72.1	70.9	68.9	59.3	59.3	59.9
87.5°	92.6	84.9	77.8	68.3	53.6	51.7	49.8	51.7	44.7	43.4	43.4
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: P198741

CATALOG NUMBER: XNV2-AF-02-LED-U-SLL-800

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9
2.5°	2614.9	2570.8	2540.2	2513.4	2448.8	2453.3	2462.2	2475.0	2434.8	2455.9	2482.1
5°	2106.2	2069.7	2042.3	1999.6	1909.5	1877.6	1857.3	1848.3	1788.3	1801.1	1829.1
7.5°	1552.8	1552.1	1542.6	1494.7	1386.2	1320.5	1277.1	1263.7	1226.7	1240.7	1283.5
10°	1093.3	1104.8	1100.3	1057.5	960.6	913.3	903.8	930.6	931.2	958.6	1032.1
12.5°	790.1	783.8	778.0	742.9	670.1	662.5	684.1	721.2	730.2	759.5	836.1
15°	589.7	574.4	571.2	543.8	495.9	502.9	518.8	538.1	538.7	559.0	622.3
17.5°	442.3	442.3	447.4	429.5	395.1	391.9	383.6	378.5	370.8	379.1	413.6
20°	343.4	359.4	372.0	361.9	330.6	315.3	299.3	289.1	283.4	284.0	294.2
22.5°	294.2	307.0	323.6	318.4	292.3	272.5	262.3	255.3	250.8	250.8	256.6
25°	269.3	277.6	293.0	290.4	268.0	252.1	243.8	236.8	231.7	231.1	236.8
27.5°	249.5	254.6	264.8	263.6	240.6	230.4	225.3	220.9	217.7	217.0	222.7
30°	231.7	234.3	239.4	237.4	220.1	210.0	208.1	206.1	204.3	204.9	213.2
32.5°	215.7	217.7	220.9	218.3	201.7	192.7	189.6	187.0	185.1	187.0	196.6
35°	197.8	203.6	207.5	206.1	188.3	177.4	170.4	164.0	161.4	163.4	174.2
37.5°	182.5	192.1	197.2	195.9	177.4	164.7	155.7	154.5	154.5	157.0	167.9
40°	176.8	183.8	188.3	186.4	167.9	155.1	150.0	148.0	148.7	151.3	162.8
42.5°	171.7	178.1	179.3	175.5	157.0	148.7	145.6	143.0	144.2	147.4	159.0
45°	167.3	172.4	171.7	165.9	148.0	142.3	142.3	140.5	141.1	143.6	155.7
47.5°	164.0	166.5	165.3	159.6	141.7	137.2	139.1	139.1	140.5	142.3	154.5
50°	159.0	160.8	159.6	154.5	136.6	132.8	134.6	137.2	138.5	140.5	151.3
52.5°	153.9	155.1	154.5	149.4	131.4	128.9	128.9	131.4	134.0	136.6	146.2
55°	148.7	150.0	150.6	146.8	127.7	125.1	124.5	124.5	127.1	130.8	141.1
57.5°	144.8	144.8	146.2	143.6	123.8	120.6	117.4	118.0	121.2	124.5	134.6
60°	140.5	141.1	143.0	140.5	118.7	113.6	111.1	114.3	115.5	118.7	129.6
62.5°	136.6	136.6	137.9	136.0	114.3	109.1	107.2	110.4	110.4	113.6	124.5
65°	133.4	132.8	132.8	132.1	109.8	104.6	103.4	104.6	105.3	108.5	119.4
67.5°	130.8	127.7	127.7	128.9	105.3	100.2	99.5	99.5	100.2	104.0	113.6
70°	125.1	122.5	121.9	126.3	100.9	94.4	94.4	93.2	94.4	96.4	106.6
72.5°	118.7	116.8	116.2	122.5	96.4	88.1	86.8	86.1	86.8	88.7	98.3
75°	110.4	109.1	110.4	120.0	91.9	81.0	79.2	78.5	78.5	79.2	89.3
77.5°	100.9	99.5	109.1	111.7	89.3	72.7	70.9	69.6	68.3	68.3	79.8
80°	89.3	88.7	105.3	94.4	85.5	63.8	60.7	58.7	57.5	56.8	68.3
82.5°	77.8	76.6	90.0	74.1	70.9	52.4	47.9	44.0	42.1	42.1	52.4
85°	63.8	63.2	70.9	54.2	49.1	38.3	31.9	28.7	26.2	26.2	33.9
87.5°	46.5	45.3	44.0	32.5	24.9	17.2	12.2	11.5	10.2	9.6	14.0
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: P198741

CATALOG NUMBER: XNV2-AF-02-LED-U-SLL-800

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9	3000.9
2.5°	2521.0	2573.9	2674.2	2756.5	2866.3	2954.4	3054.5	3097.9
5°	1880.9	1964.5	2117.6	2248.4	2429.7	2597.6	2789.1	2893.7
7.5°	1349.2	1473.0	1589.2	1752.6	1979.1	2204.5	2452.1	2590.5
10°	1116.2	1229.9	1329.4	1445.6	1620.5	1873.8	2169.4	2325.7
12.5°	924.7	1047.3	1152.7	1277.1	1423.8	1653.0	1989.9	2171.9
15°	709.1	842.5	968.8	1118.8	1298.8	1560.5	1936.3	2139.3
17.5°	485.7	628.6	784.4	967.5	1184.6	1521.5	1987.4	2237.6
20°	330.0	434.7	603.7	820.7	1081.8	1503.0	2099.8	2439.9
22.5°	271.3	318.4	445.5	682.9	997.6	1523.5	2282.3	2706.1
25°	248.9	274.5	346.6	561.6	933.1	1577.7	2529.2	3006.7
27.5°	234.9	256.6	303.8	474.9	873.7	1651.8	2829.9	3374.3
30°	226.6	247.0	286.5	430.2	819.5	1715.6	3088.4	3651.3
32.5°	208.1	223.4	255.9	404.7	780.5	1767.2	3316.2	3910.4
35°	185.8	204.3	231.1	388.0	779.3	1791.5	3530.7	4197.0
37.5°	177.4	195.3	215.1	379.1	787.0	1812.0	3793.0	4521.9
40°	172.4	188.3	204.3	377.9	793.3	1827.9	4049.6	4860.1
42.5°	167.9	183.8	202.3	368.9	790.7	1849.6	4276.8	5150.5
45°	166.5	182.5	206.7	355.5	790.1	1883.5	4457.4	5382.8
47.5°	165.3	189.6	205.5	340.8	787.6	1954.9	4661.0	5599.1
50°	164.0	202.3	196.6	320.4	768.4	2076.8	4934.8	5846.8
52.5°	163.4	204.3	187.0	292.3	734.0	2257.4	5335.6	6191.4
55°	160.8	194.1	170.4	255.3	684.1	2452.1	5765.1	6596.7
57.5°	155.1	173.0	160.8	218.9	612.7	2588.0	6082.3	6910.1
60°	169.1	148.7	154.5	200.4	527.1	2612.3	6096.4	6998.2
62.5°	161.4	135.3	148.0	194.1	467.2	2454.0	5817.4	6892.8
65°	128.9	128.3	142.3	200.4	458.3	2099.8	5346.5	6580.7
67.5°	117.4	123.2	136.6	208.1	464.0	1654.3	4653.3	5851.9
70°	109.8	116.8	128.9	215.1	474.2	1303.2	3746.4	4759.3
72.5°	102.1	107.8	121.2	222.1	467.2	1028.2	2998.4	3665.9
75°	92.6	97.7	110.4	203.6	400.8	755.7	2382.5	2603.3
77.5°	81.7	86.1	97.0	160.8	301.3	525.9	1784.4	1876.4
80°	70.2	72.1	80.4	117.4	196.6	314.7	1358.2	1496.7
82.5°	55.5	56.2	61.3	86.1	122.5	201.0	942.0	1075.4
85°	35.7	37.0	39.6	60.7	82.3	128.9	481.2	551.5
87.5°	12.2	14.0	14.0	29.4	40.2	71.5	147.4	107.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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