

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: P271250

Luminaire Tested: **XNV-AF-01-LED-U-SLL-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271250
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-SLL-7027-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3057.3 lumens
Efficiency: N/A
Efficacy: 89.9 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 - G1

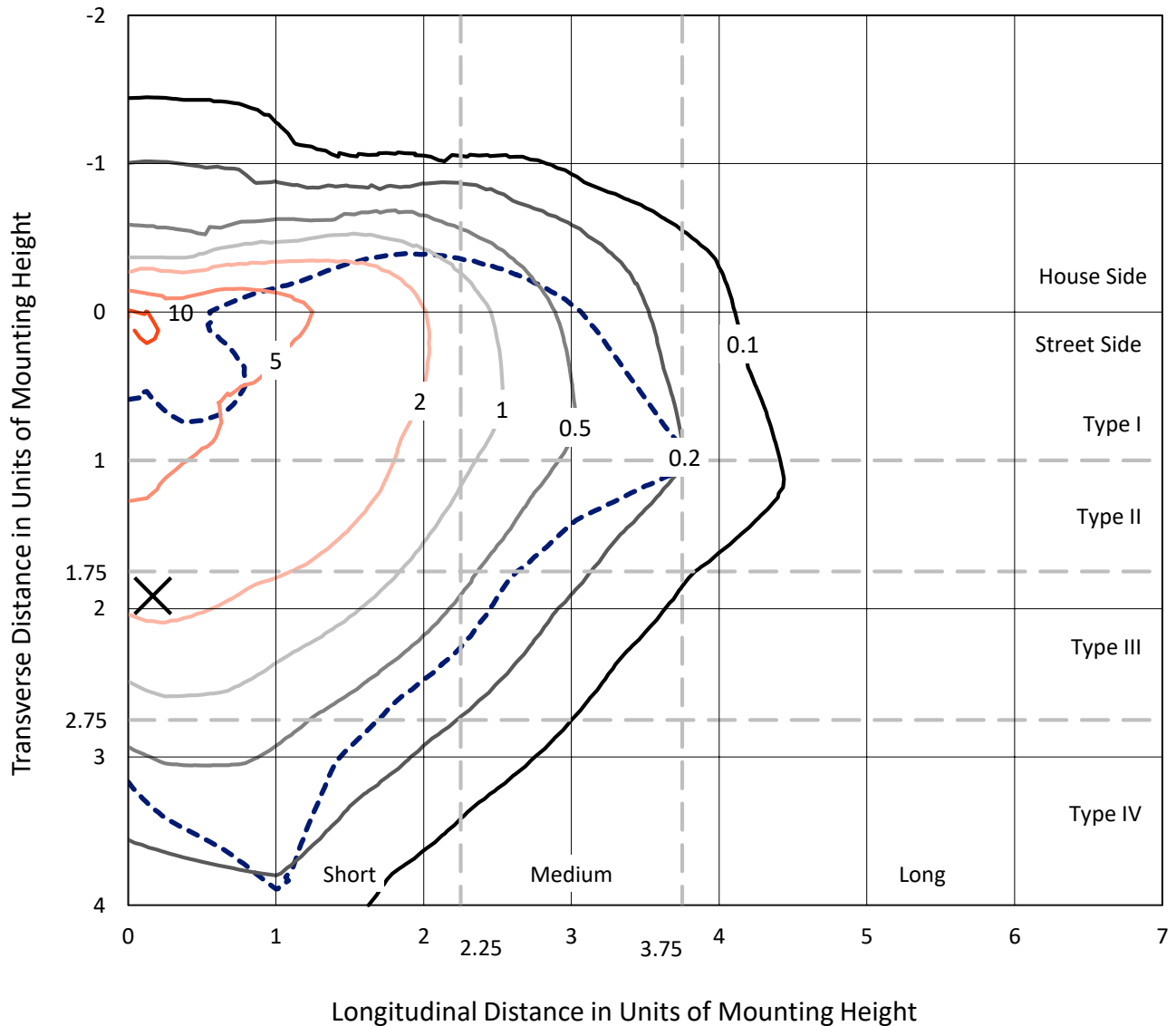
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

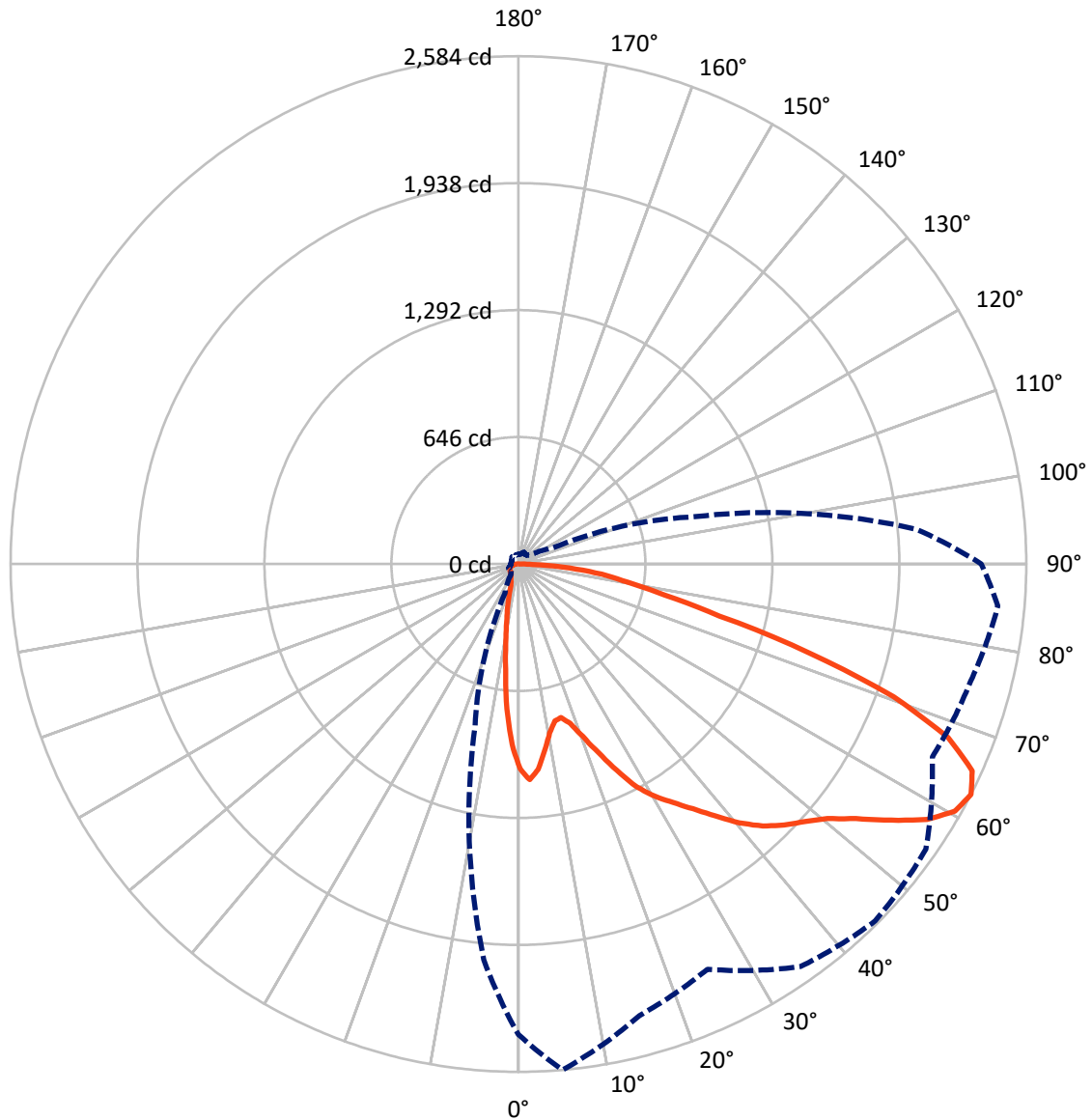
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.6	0.0	541.6
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	2515.7	0.0	2515.7
	% Fixture	82.3	0.0	82.3
Total	Lumens	3057.3	0.0	3057.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	2.5
10°-20°	138.4	4.5
20°-30°	199.1	6.5
30°-40°	305.0	10.0
40°-50°	445.9	14.6
50°-60°	648.8	21.2
60°-70°	751.7	24.6
70°-80°	391.9	12.8
80°-90°	100.7	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°	3057.3	100.0
0°-180°	3057.3	100.0



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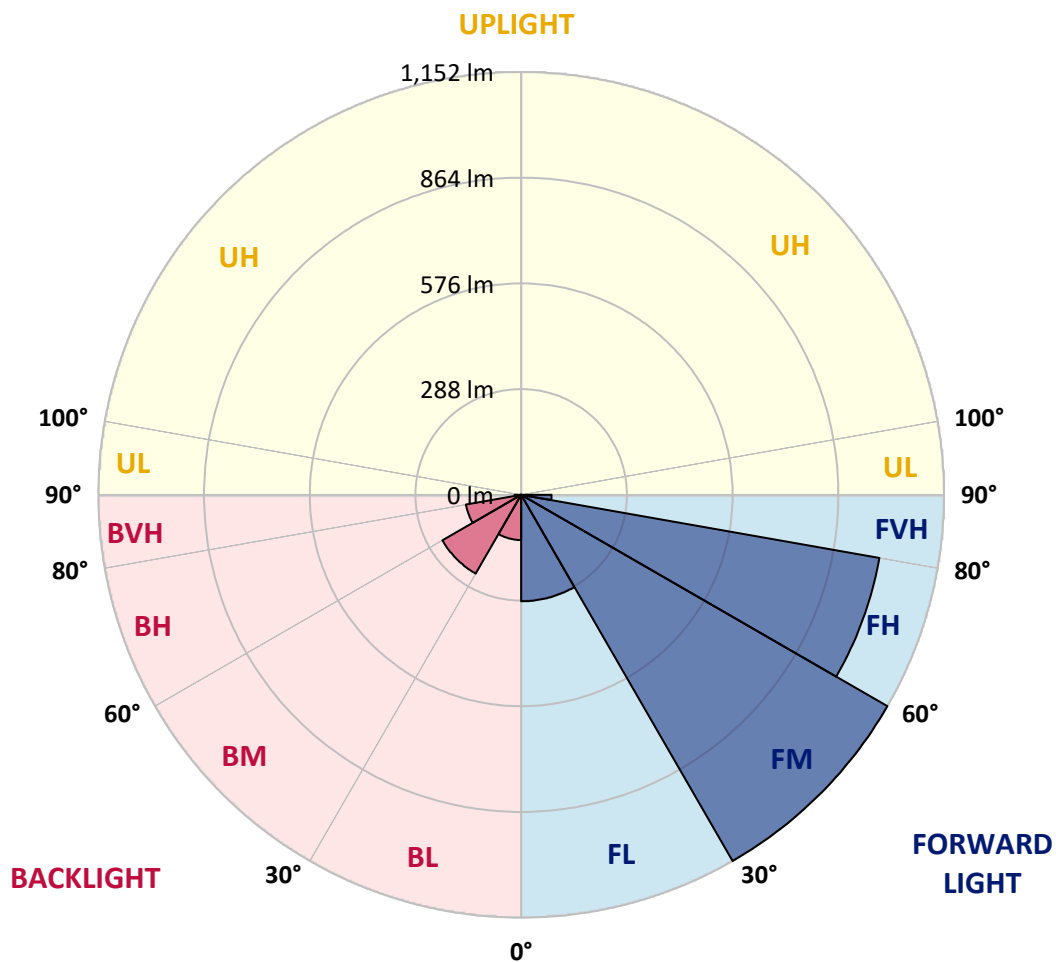
CATALOG NUMBER: XNV-AF-01-LED-U-SLL-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.2	9.5			
FM	(30°-60°)	1151.9	37.7			
FH	(60°-80°)	990.8	32.4			G1/1800
FVH	(80°-90°)	82.9	2.7			G1/100
BL	(0°-30°)	123.2	4.0	B1/500		
BM	(30°-60°)	247.8	8.1	B1/1000		
BH	(60°-80°)	152.7	5.0	B1/500		G1/500
BVH	(80°-90°)	17.9	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1076.0	1098.8	1124.9	1159.2	1182.3	1191.7	1199.4	1186.4	1173.7	1150.0	1141.6
5°	1005.1	1049.0	1120.9	1189.4	1249.8	1284.3	1294.9	1270.8	1227.9	1165.8	1132.9
7.5°	899.7	957.7	1058.9	1159.8	1246.3	1303.9	1308.1	1260.2	1175.5	1073.7	1020.6
10°	807.8	873.2	990.4	1103.3	1194.8	1253.8	1242.3	1175.2	1072.8	957.1	897.0
12.5°	754.3	819.8	939.2	1053.8	1140.0	1162.4	1139.0	1082.4	985.5	869.6	809.2
15°	743.1	810.5	921.0	1017.7	1071.0	1056.6	1033.4	1004.8	935.9	841.1	782.6
17.5°	777.2	852.5	945.1	998.1	996.0	961.4	942.0	947.4	935.7	872.1	810.9
20°	847.5	936.6	1006.6	992.8	936.2	887.5	876.2	919.8	974.0	949.9	882.8
22.5°	939.8	1041.5	1090.5	1008.2	904.9	852.5	850.3	918.2	1043.8	1067.5	985.8
25°	1044.3	1162.6	1174.9	1035.1	901.4	849.4	847.5	942.1	1127.8	1184.1	1101.2
27.5°	1172.0	1285.0	1245.3	1071.4	916.2	858.5	859.9	982.8	1215.4	1299.5	1231.3
30°	1268.1	1371.9	1288.8	1106.8	939.6	874.5	877.9	1027.0	1262.7	1379.4	1335.3
32.5°	1358.1	1446.2	1330.5	1141.8	974.0	898.2	909.8	1082.0	1319.4	1448.2	1433.5
35°	1457.7	1529.4	1376.8	1179.3	1023.2	939.8	956.5	1134.3	1375.7	1516.9	1530.8
37.5°	1570.5	1624.5	1427.0	1232.3	1094.1	1017.1	1026.4	1187.6	1414.9	1593.0	1635.3
40°	1688.1	1731.0	1482.2	1303.0	1197.3	1121.3	1125.7	1256.2	1445.7	1671.7	1736.6
42.5°	1788.9	1822.3	1537.3	1390.8	1315.6	1227.4	1231.1	1330.0	1475.2	1739.5	1817.7
45°	1869.6	1894.2	1589.5	1483.2	1442.0	1359.9	1359.0	1405.2	1514.7	1796.6	1880.1
47.5°	1944.7	1957.8	1647.4	1573.2	1573.0	1530.6	1498.9	1493.8	1567.3	1844.8	1934.3
50°	2030.7	2035.6	1724.1	1664.1	1733.0	1726.5	1667.9	1606.4	1635.3	1898.8	1991.3
52.5°	2150.5	2150.6	1819.2	1752.8	1909.6	1930.7	1862.7	1733.9	1736.0	2004.1	2089.6
55°	2291.1	2301.0	1943.2	1859.0	2094.6	2130.5	2066.5	1885.4	1880.4	2174.0	2249.3
57.5°	2400.0	2451.7	2087.5	1991.7	2267.2	2314.0	2262.4	2042.2	2057.9	2349.1	2381.0
60°	2430.6	2551.5	2231.3	2140.8	2413.3	2483.6	2431.1	2211.8	2231.7	2462.8	2418.9
62.5°	2394.1	2583.5	2377.9	2274.1	2500.1	2567.4	2529.6	2322.8	2373.4	2448.2	2354.7
65°	2285.6	2537.1	2505.2	2330.9	2450.1	2474.1	2464.1	2328.6	2450.3	2309.8	2177.8
67.5°	2032.5	2357.5	2448.4	2209.7	2217.1	2191.4	2178.4	2170.3	2363.9	2086.7	1898.4
70°	1653.1	2025.7	2177.8	1849.3	1793.3	1768.6	1725.5	1832.0	2124.8	1777.7	1562.3
72.5°	1273.3	1549.7	1786.2	1401.8	1285.7	1294.1	1245.3	1400.7	1760.0	1374.3	1192.8
75°	904.2	1056.6	1425.8	1007.3	853.4	853.0	849.2	1008.2	1388.8	986.5	872.8
77.5°	651.7	760.8	1117.0	674.1	605.5	613.4	601.0	685.1	1082.6	709.7	646.6
80°	519.8	563.2	722.0	449.5	450.9	469.0	466.4	468.6	712.3	513.8	483.5
82.5°	373.5	427.7	552.0	344.5	298.1	317.5	321.2	347.6	502.5	363.4	318.8
85°	191.5	260.7	507.8	298.3	186.4	154.5	177.8	274.3	436.4	217.7	155.3
87.5°	37.2	72.3	372.2	165.7	83.8	42.3	69.8	116.2	253.9	39.4	19.3
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°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	1127.3	1098.8	1072.2	1044.6	1023.4	997.5	972.1	949.9	928.4	914.1	918.5
5°	1099.7	1030.5	968.6	910.8	877.1	836.6	800.5	770.0	746.6	731.5	740.7
7.5°	974.5	880.9	799.1	723.0	675.3	622.6	580.6	550.8	532.6	522.5	537.4
10°	846.4	741.3	649.6	570.3	523.2	478.5	440.4	409.0	384.7	373.1	379.1
12.5°	754.5	637.7	541.6	488.4	447.7	407.9	368.5	331.7	300.7	286.4	283.5
15°	720.3	582.1	483.8	424.4	384.1	340.6	298.1	258.7	229.2	217.0	214.3
17.5°	735.4	570.2	449.8	379.5	321.0	268.2	220.4	183.2	161.3	154.5	155.1
20°	788.3	574.6	422.4	333.2	260.9	198.3	150.6	124.9	115.5	113.9	115.7
22.5°	860.9	592.7	402.4	293.2	208.0	144.3	112.0	99.7	97.2	97.0	98.9
25°	957.0	628.3	389.1	257.9	164.3	114.4	97.6	90.6	88.7	89.1	90.9
27.5°	1070.1	673.2	380.4	227.2	134.9	102.0	91.1	85.1	83.2	83.5	84.9
30°	1173.2	712.6	367.5	204.2	121.2	97.6	87.6	81.6	79.0	79.0	79.8
32.5°	1265.7	746.9	352.4	186.8	108.7	87.6	79.4	74.6	72.8	73.4	73.8
35°	1347.7	764.7	340.6	176.6	98.5	80.7	72.6	67.6	64.9	65.3	66.0
37.5°	1428.5	771.6	332.9	171.1	91.1	76.4	68.9	64.9	62.1	61.7	61.4
40°	1505.1	770.0	325.6	169.6	86.2	73.4	66.7	63.2	60.2	59.6	59.4
42.5°	1571.5	764.9	318.8	165.4	83.0	71.1	64.9	61.9	59.0	58.1	57.6
45°	1632.0	761.9	311.3	157.7	84.7	70.2	64.0	60.7	58.1	57.0	56.6
47.5°	1699.1	773.0	302.8	149.2	84.3	70.4	64.0	60.2	57.6	56.6	56.1
50°	1779.2	810.5	292.4	137.7	80.3	75.4	63.8	59.6	57.2	56.6	55.7
52.5°	1892.2	871.1	277.9	122.8	77.2	80.5	63.6	58.5	56.6	55.4	54.3
55°	2047.1	931.9	259.3	107.1	72.3	77.0	64.0	57.2	54.9	53.9	52.6
57.5°	2174.2	978.1	235.9	94.1	67.8	72.8	63.4	55.7	53.2	52.1	50.9
60°	2166.0	982.4	213.4	85.6	65.1	65.3	64.9	54.5	51.7	50.8	49.9
62.5°	2031.8	927.7	192.6	81.3	63.2	59.6	66.3	53.2	50.0	49.1	48.6
65°	1808.6	800.2	181.5	81.3	61.4	56.6	57.9	51.5	48.6	47.7	47.3
67.5°	1525.5	643.0	171.1	83.2	59.0	54.3	52.6	49.6	47.0	46.2	45.6
70°	1222.8	506.0	163.9	82.3	56.8	51.8	49.6	47.3	44.6	44.3	43.8
72.5°	959.2	406.6	160.4	82.3	53.4	49.0	46.8	44.9	42.3	42.1	41.4
75°	768.5	305.2	146.8	80.7	50.0	45.3	43.2	41.7	39.0	39.3	38.7
77.5°	595.1	216.0	122.6	72.8	46.0	41.1	39.4	38.4	35.3	35.5	35.5
80°	465.5	140.6	95.1	60.2	41.1	36.1	35.0	34.1	30.8	31.3	31.3
82.5°	319.0	83.5	68.9	48.6	35.3	30.8	30.6	29.3	25.7	26.0	26.4
85°	174.2	54.9	46.0	35.9	27.7	25.1	24.7	24.0	20.7	20.7	20.8
87.5°	32.1	29.5	27.0	23.7	18.7	18.0	17.2	18.0	15.5	15.1	15.1
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°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	908.1	892.8	882.2	873.0	850.5	852.1	855.1	859.7	845.7	853.0	862.1
5°	731.5	718.9	709.3	694.5	663.3	652.2	645.1	642.0	621.1	625.6	635.3
7.5°	539.3	539.2	535.7	519.2	481.5	458.7	443.6	438.9	426.1	430.9	445.7
10°	379.8	383.8	382.1	367.2	333.6	317.2	313.9	323.2	323.4	332.9	358.5
12.5°	274.4	272.1	270.2	258.1	232.8	230.1	237.6	250.4	253.6	263.8	290.4
15°	204.9	199.6	198.3	188.9	172.2	174.7	180.2	186.8	187.0	194.2	216.1
17.5°	153.6	153.6	155.3	149.2	137.3	136.2	133.2	131.4	128.7	131.7	143.6
20°	119.3	124.9	129.3	125.8	114.9	109.6	103.9	100.4	98.5	98.6	102.1
22.5°	102.1	106.5	112.4	110.6	101.5	94.6	91.1	88.7	87.1	87.1	89.1
25°	93.6	96.4	101.8	100.9	93.2	87.6	84.7	82.3	80.5	80.3	82.3
27.5°	86.6	88.5	91.9	91.5	83.5	79.9	78.2	76.6	75.5	75.4	77.3
30°	80.5	81.3	83.2	82.5	76.4	72.9	72.3	71.7	71.0	71.1	74.0
32.5°	74.9	75.5	76.6	75.7	70.1	67.0	65.8	64.9	64.3	64.9	68.4
35°	68.7	70.6	72.0	71.7	65.3	61.7	59.2	57.0	56.1	56.8	60.5
37.5°	63.4	66.7	68.5	68.0	61.7	57.2	54.1	53.7	53.7	54.5	58.3
40°	61.4	63.8	65.3	64.7	58.3	53.9	52.1	51.5	51.7	52.6	56.6
42.5°	59.6	61.9	62.3	60.9	54.5	51.7	50.6	49.6	50.0	51.3	55.2
45°	58.1	59.8	59.6	57.6	51.5	49.4	49.4	48.8	49.0	49.9	54.1
47.5°	57.0	57.9	57.4	55.4	49.1	47.7	48.2	48.2	48.8	49.4	53.7
50°	55.2	55.9	55.4	53.7	47.4	46.2	46.8	47.7	48.1	48.8	52.6
52.5°	53.4	53.9	53.7	51.8	45.6	44.7	44.7	45.6	46.5	47.4	50.8
55°	51.7	52.1	52.3	50.9	44.3	43.5	43.2	43.2	44.0	45.5	49.0
57.5°	50.3	50.3	50.8	49.9	42.9	42.0	40.9	41.1	42.1	43.2	46.8
60°	48.8	49.0	49.6	48.8	41.2	39.4	38.5	39.6	40.2	41.2	44.9
62.5°	47.4	47.4	47.9	47.3	39.6	37.9	37.2	38.4	38.4	39.4	43.2
65°	46.4	46.2	46.2	46.0	38.1	36.3	35.9	36.3	36.7	37.6	41.4
67.5°	45.5	44.3	44.3	44.7	36.7	34.9	34.6	34.6	34.9	36.1	39.4
70°	43.5	42.6	42.3	43.8	35.0	32.8	32.8	32.3	32.8	33.4	37.0
72.5°	41.2	40.6	40.3	42.6	33.4	30.6	30.2	30.0	30.2	30.8	34.1
75°	38.4	37.9	38.4	41.7	31.9	28.1	27.5	27.3	27.3	27.5	31.0
77.5°	35.0	34.6	37.9	38.7	31.0	25.2	24.7	24.2	23.7	23.7	27.7
80°	31.0	30.8	36.7	32.8	29.7	22.2	21.1	20.4	19.9	19.8	23.7
82.5°	27.0	26.6	31.3	25.7	24.7	18.1	16.6	15.4	14.6	14.6	18.1
85°	22.2	22.0	24.7	18.9	17.1	13.4	11.0	10.1	9.2	9.2	11.8
87.5°	16.2	15.7	15.4	11.3	8.7	6.0	4.2	4.0	3.6	3.4	4.9
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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CATALOG NUMBER: XNV-AF-01-LED-U-SLL-7027-600

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4	1042.4
2.5°	875.6	894.1	928.8	957.5	995.5	1026.1	1060.9	1076.0
5°	653.2	682.4	735.5	780.9	843.9	902.2	968.7	1005.1
7.5°	468.6	511.7	552.0	608.7	687.5	765.6	851.7	899.7
10°	387.7	427.1	461.8	502.2	562.8	650.8	753.5	807.8
12.5°	321.2	363.8	400.4	443.6	494.5	574.1	691.2	754.3
15°	246.2	292.6	336.4	388.5	451.0	541.9	672.6	743.1
17.5°	168.7	218.4	272.5	336.1	411.5	528.5	690.3	777.2
20°	114.7	150.9	209.8	285.0	375.8	522.0	729.3	847.5
22.5°	94.2	110.6	154.7	237.2	346.4	529.1	792.8	939.8
25°	86.4	95.3	120.4	195.1	324.1	548.0	878.5	1044.3
27.5°	81.6	89.1	105.6	164.8	303.4	573.7	982.8	1172.0
30°	78.7	85.8	99.5	149.4	284.7	595.8	1072.7	1268.1
32.5°	72.3	77.6	88.9	140.6	271.1	613.8	1151.7	1358.1
35°	64.5	71.0	80.3	134.7	270.7	622.3	1226.2	1457.7
37.5°	61.7	67.8	74.6	131.7	273.4	629.4	1317.5	1570.5
40°	59.8	65.3	71.0	131.2	275.5	634.8	1406.4	1688.1
42.5°	58.3	63.8	70.2	128.1	274.6	642.4	1485.3	1788.9
45°	57.9	63.4	71.9	123.4	274.4	654.1	1548.1	1869.6
47.5°	57.4	65.8	71.3	118.3	273.5	678.9	1618.8	1944.7
50°	57.0	70.2	68.4	111.3	266.8	721.2	1714.0	2030.7
52.5°	56.8	71.0	64.9	101.5	254.8	784.0	1853.2	2150.5
55°	55.9	67.5	59.2	88.7	237.6	851.7	2002.3	2291.1
57.5°	53.9	60.0	55.9	76.0	212.8	898.8	2112.5	2400.0
60°	58.7	51.7	53.7	69.6	183.2	907.3	2117.5	2430.6
62.5°	56.1	47.0	51.5	67.5	162.2	852.3	2020.6	2394.1
65°	44.7	44.6	49.4	69.6	159.2	729.3	1856.9	2285.6
67.5°	40.9	42.8	47.4	72.3	161.2	574.6	1616.2	2032.5
70°	38.1	40.6	44.7	74.6	164.7	452.7	1301.3	1653.1
72.5°	35.5	37.5	42.1	77.2	162.2	357.2	1041.5	1273.3
75°	32.1	34.0	38.4	70.6	139.1	262.5	827.5	904.2
77.5°	28.3	30.0	33.6	55.9	104.7	182.6	619.8	651.7
80°	24.3	25.1	27.9	40.9	68.4	109.2	471.7	519.8
82.5°	19.3	19.6	21.3	30.0	42.6	69.8	327.3	373.5
85°	12.3	12.8	13.7	21.1	28.6	44.7	167.2	191.5
87.5°	4.2	4.9	4.9	10.2	14.0	24.9	51.3	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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