

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: P198565

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
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-SL4-7030-800-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7026 lumens
Efficiency: N/A
Efficacy: 82.7 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 - G2

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

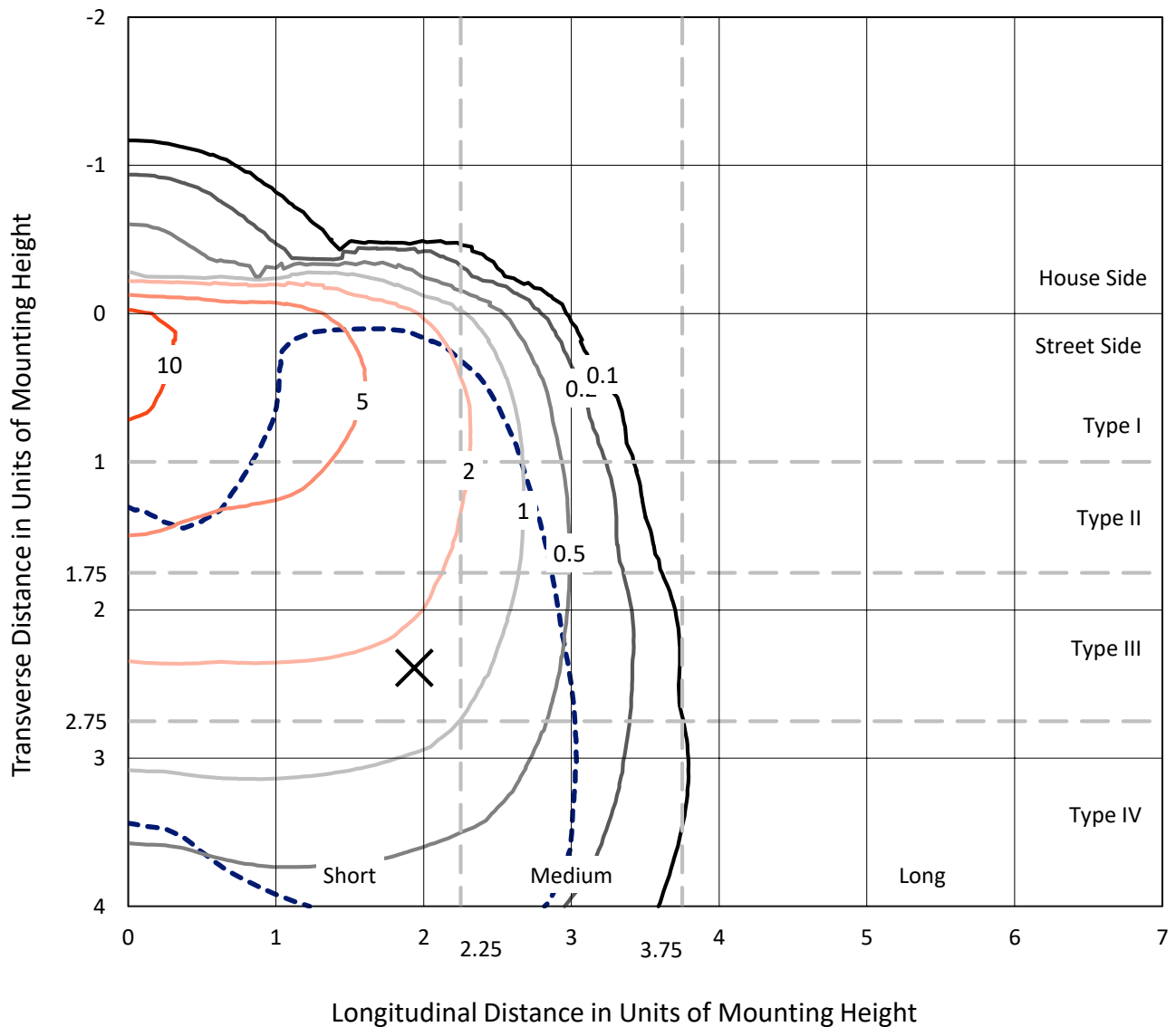


REPORT NUMBER: P198565

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

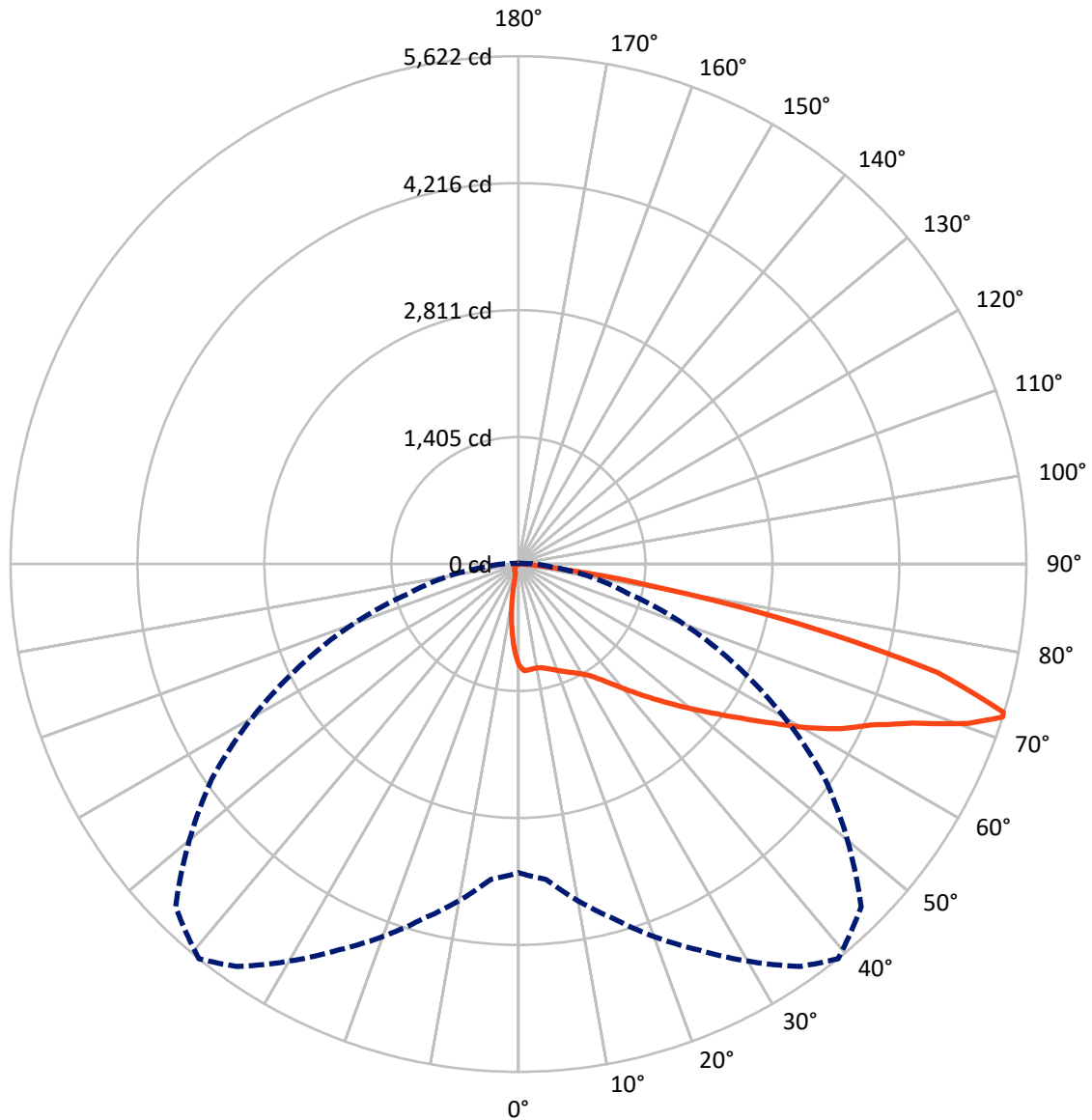


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198565

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-800-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical



REPORT NUMBER: P198565

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-800-HSS

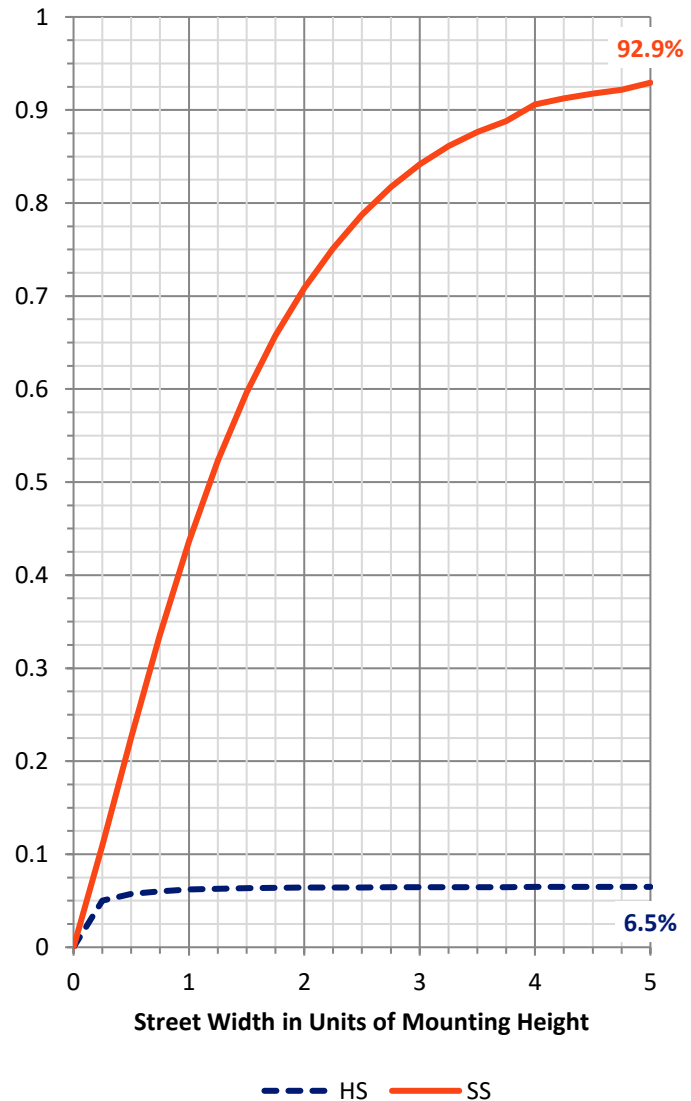
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	460.5	0.0	460.5
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	6565.5	0.0	6565.5
	% Fixture	93.4	0.0	93.4
Total	Lumens	7026.0	0.0	7026.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	1.3
10°-20°	221.5	3.2
20°-30°	367.8	5.2
30°-40°	586.2	8.3
40°-50°	967.5	13.8
50°-60°	1461.2	20.8
60°-70°	1903.4	27.1
70°-80°	1286.2	18.3
80°-90°	140.9	2.0
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°	7026.0	100.0
0°-180°	7026.0	100.0



REPORT NUMBER: P198565

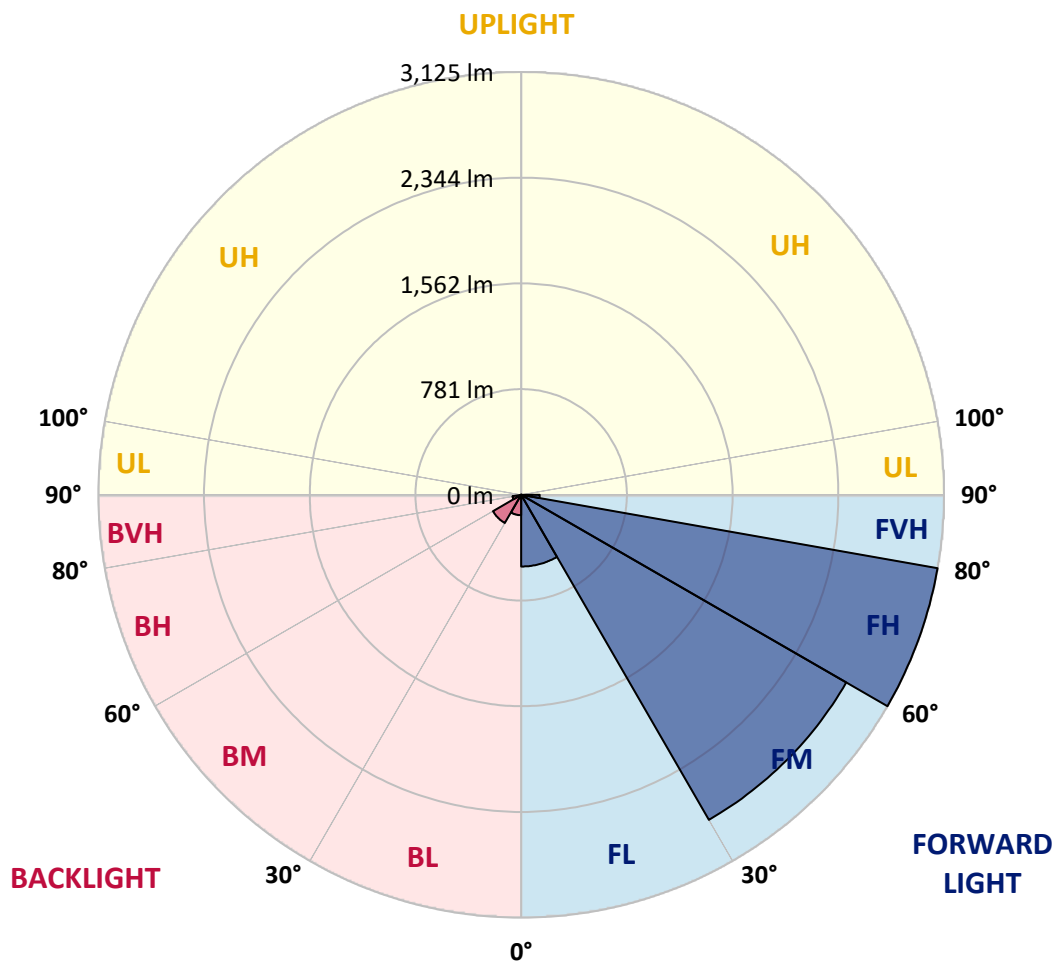
CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-800-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	529.9	7.5			
FM	(30°-60°)	2774.0	39.5			
FH	(60°-80°)	3124.8	44.5			G2/5000
FVH	(80°-90°)	136.8	1.9			G2/225
BL	(0°-30°)	150.8	2.1	B1/500		
BM	(30°-60°)	240.9	3.4	B1/1000		
BH	(60°-80°)	64.7	0.9	B0/110		G0/110
BVH	(80°-90°)	4.0	0.1			G0/10
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: P198565

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6
2.5°	1197.5	1199.7	1196.9	1191.9	1184.8	1180.3	1174.3	1161.0	1144.4	1130.1	1113.5
5°	1206.9	1208.0	1204.6	1195.3	1184.2	1178.1	1170.4	1156.0	1138.9	1119.0	1089.2
7.5°	1209.6	1209.1	1205.2	1193.6	1176.5	1168.7	1155.5	1137.8	1120.1	1101.9	1068.2
10°	1208.5	1208.5	1205.8	1194.7	1175.4	1168.2	1153.3	1134.5	1112.4	1094.2	1058.3
12.5°	1204.6	1206.9	1205.2	1199.1	1184.8	1179.2	1166.0	1147.2	1126.2	1107.4	1069.3
15°	1209.6	1212.9	1216.2	1214.0	1205.8	1200.8	1188.6	1169.3	1152.2	1132.3	1091.4
17.5°	1229.5	1236.7	1244.4	1245.0	1236.1	1227.3	1213.5	1193.6	1177.0	1158.8	1114.6
20°	1267.1	1272.6	1286.9	1289.7	1272.0	1259.3	1240.0	1216.8	1200.2	1184.8	1136.2
22.5°	1322.8	1328.9	1340.5	1336.7	1306.8	1291.9	1267.6	1241.1	1224.0	1215.1	1161.0
25°	1407.4	1409.0	1411.8	1394.6	1345.5	1328.9	1299.1	1269.3	1255.5	1254.4	1196.4
27.5°	1506.8	1509.0	1496.8	1458.7	1388.6	1367.0	1333.3	1306.3	1299.6	1307.9	1241.1
30°	1620.6	1621.1	1587.4	1525.6	1438.3	1414.5	1379.7	1349.9	1356.0	1376.4	1298.5
32.5°	1737.1	1731.6	1685.2	1604.5	1506.2	1477.5	1447.7	1417.8	1435.5	1476.9	1382.5
35°	1843.7	1841.5	1786.8	1692.9	1594.6	1569.2	1547.6	1516.2	1544.9	1612.3	1496.8
37.5°	1950.3	1948.6	1886.2	1788.5	1703.4	1685.2	1669.2	1644.9	1691.8	1790.7	1649.8
40°	2067.9	2065.2	1988.4	1894.5	1829.9	1819.9	1810.6	1800.1	1880.2	2017.7	1840.4
42.5°	2213.2	2201.1	2096.7	2010.0	1969.1	1971.8	1972.4	1982.9	2108.3	2287.8	2065.2
45°	2380.0	2353.0	2205.5	2133.7	2122.1	2138.6	2155.2	2198.9	2373.9	2598.7	2313.7
47.5°	2541.9	2498.2	2330.9	2266.8	2290.5	2324.8	2364.6	2449.6	2672.2	2924.1	2539.1
50°	2681.0	2636.3	2455.1	2402.1	2477.8	2528.6	2599.3	2728.0	2987.0	3199.1	2681.0
52.5°	2790.4	2755.1	2586.6	2551.2	2685.5	2755.1	2866.1	3035.1	3284.2	3380.3	2780.5
55°	2871.0	2853.4	2712.5	2717.5	2916.3	3016.9	3154.9	3346.1	3535.0	3521.1	2855.0
57.5°	2962.2	2948.4	2844.5	2913.6	3194.2	3324.0	3483.6	3637.1	3717.2	3634.4	2927.9
60°	3055.5	3059.9	3004.7	3151.1	3537.7	3681.3	3820.5	3858.6	3873.5	3749.3	3004.7
62.5°	3126.2	3145.0	3150.0	3407.4	3890.1	4012.7	4072.9	4045.9	4042.5	3903.4	2998.6
65°	3207.4	3256.6	3338.3	3688.5	4210.5	4291.1	4334.2	4373.4	4290.5	3949.2	2703.7
67.5°	3347.7	3425.0	3609.0	4033.2	4580.5	4699.8	4821.9	4780.5	4327.6	3483.6	2059.7
70°	3536.6	3631.1	3955.8	4483.3	5082.6	5282.5	5384.7	4747.9	3674.1	2407.1	1086.4
72°	3417.3	3502.9	4063.0	4713.1	5438.3	5621.7	5365.9	4141.4	2663.4	1247.7	364.0
72.5°	3301.3	3389.7	4028.7	4710.3	5473.7	5613.9	5243.9	3902.3	2356.8	971.0	250.8
75°	2290.5	2402.1	3453.8	4234.2	4942.9	4788.8	4012.2	2362.9	853.9	166.8	82.9
77.5°	1184.2	1270.4	2095.0	2992.0	3444.9	3154.9	2371.2	1025.1	236.4	88.4	54.7
80°	734.1	776.6	979.8	1474.2	1789.6	1565.3	1046.1	414.3	151.3	52.5	43.6
82.5°	380.0	412.6	617.0	594.9	661.1	549.6	386.1	346.9	93.3	32.6	44.7
85°	124.8	132.6	378.9	395.5	282.8	190.0	171.2	330.8	27.1	21.0	38.1
87.5°	16.6	19.3	133.1	226.5	139.2	86.2	102.7	116.5	9.4	11.6	10.5
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: P198565

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6	1124.6
2.5°	1102.5	1095.3	1072.6	1050.0	1024.0	1000.3	981.5	969.4	974.9	956.6	959.4
5°	1071.0	1052.8	1003.0	949.5	891.5	837.3	794.3	762.2	756.1	728.5	729.6
7.5°	1040.6	1010.8	930.1	841.8	745.7	667.8	597.1	535.2	513.1	490.5	477.2
10°	1024.0	983.2	868.8	740.1	604.8	490.5	391.1	313.2	280.6	256.8	245.2
12.5°	1029.0	974.9	823.0	647.9	470.0	324.8	220.9	164.0	144.2	133.1	129.2
15°	1045.6	976.5	781.6	557.9	341.9	196.6	129.8	111.0	109.4	108.8	108.3
17.5°	1061.0	978.2	737.9	464.0	228.7	125.4	104.4	102.7	102.7	102.7	102.7
20°	1077.1	978.7	689.9	365.6	150.2	102.7	98.3	97.2	98.3	98.3	98.3
22.5°	1095.8	982.6	643.5	270.1	111.0	96.7	93.9	93.3	93.9	93.9	93.3
25°	1119.0	990.9	593.2	193.3	100.5	92.8	90.0	89.5	90.0	89.5	89.5
27.5°	1150.0	1001.9	534.7	138.6	96.1	88.9	86.2	86.2	86.2	85.6	85.6
30°	1189.7	1015.2	456.2	109.4	91.7	85.1	82.9	82.9	82.3	81.7	81.7
32.5°	1246.6	1036.7	370.6	98.9	86.7	80.1	77.9	78.4	77.9	77.3	76.8
35°	1327.3	1070.4	286.1	93.3	81.7	75.1	72.9	72.9	72.9	71.8	71.8
37.5°	1441.6	1121.8	214.3	87.8	76.8	70.1	67.4	67.4	66.8	65.7	66.3
40°	1583.0	1186.4	155.2	82.9	71.8	64.6	62.4	61.3	60.2	59.1	59.1
42.5°	1753.1	1249.4	116.5	77.9	66.8	60.2	57.4	56.3	54.1	53.0	52.5
45°	1943.7	1316.2	96.7	71.8	61.3	55.2	53.0	50.8	48.1	46.4	45.8
47.5°	2104.4	1357.1	86.2	65.7	55.8	50.3	48.1	44.7	41.4	40.3	40.3
50°	2201.1	1340.0	77.3	59.7	50.3	45.3	42.5	38.1	35.9	34.8	34.2
52.5°	2255.2	1289.2	70.1	54.7	45.3	39.8	35.9	32.0	30.9	29.8	29.8
55°	2292.2	1215.7	62.4	49.7	40.9	34.8	30.4	27.6	26.5	26.0	25.4
57.5°	2327.5	1126.2	55.2	45.3	36.5	30.9	26.0	24.9	22.6	22.1	22.1
60°	2338.0	1003.0	48.6	40.3	32.6	27.1	22.6	21.0	18.8	18.2	18.2
62.5°	2204.4	798.1	43.1	34.2	28.7	23.2	19.9	17.7	15.5	15.5	15.5
65°	1842.0	541.8	37.0	29.8	25.4	19.9	17.1	14.4	13.3	13.3	13.3
67.5°	1283.1	302.1	31.5	25.4	21.5	16.6	14.4	12.2	11.6	12.2	12.2
70°	578.3	119.9	26.5	21.0	17.7	13.8	12.2	10.5	11.6	11.6	11.6
72°	173.4	64.1	22.1	17.1	14.4	12.2	10.5	9.9	11.0	11.6	11.6
72.5°	128.7	57.4	21.0	16.6	14.4	11.6	9.9	9.9	11.0	11.6	11.6
75°	66.3	39.2	16.0	12.2	10.5	9.4	8.3	9.4	11.0	11.0	11.0
77.5°	51.9	32.0	13.3	9.4	8.8	8.3	7.7	8.8	9.9	9.9	9.9
80°	48.6	21.0	10.5	8.8	7.7	7.2	7.2	7.7	8.8	9.4	9.4
82.5°	49.2	17.1	9.4	8.3	7.2	6.6	6.6	7.2	8.3	8.8	8.8
85°	31.5	11.6	8.3	7.2	6.6	6.1	6.1	6.6	7.7	8.3	8.3
87.5°	10.5	8.8	7.2	6.6	5.5	5.5	5.5	5.5	6.6	7.2	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)