

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: P197076

Luminaire Tested: **NVN-AF-06-LED-U-SL3-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197076  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-AF-06-LED-U-SL3-8030-800-HSS  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20160 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 249  
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

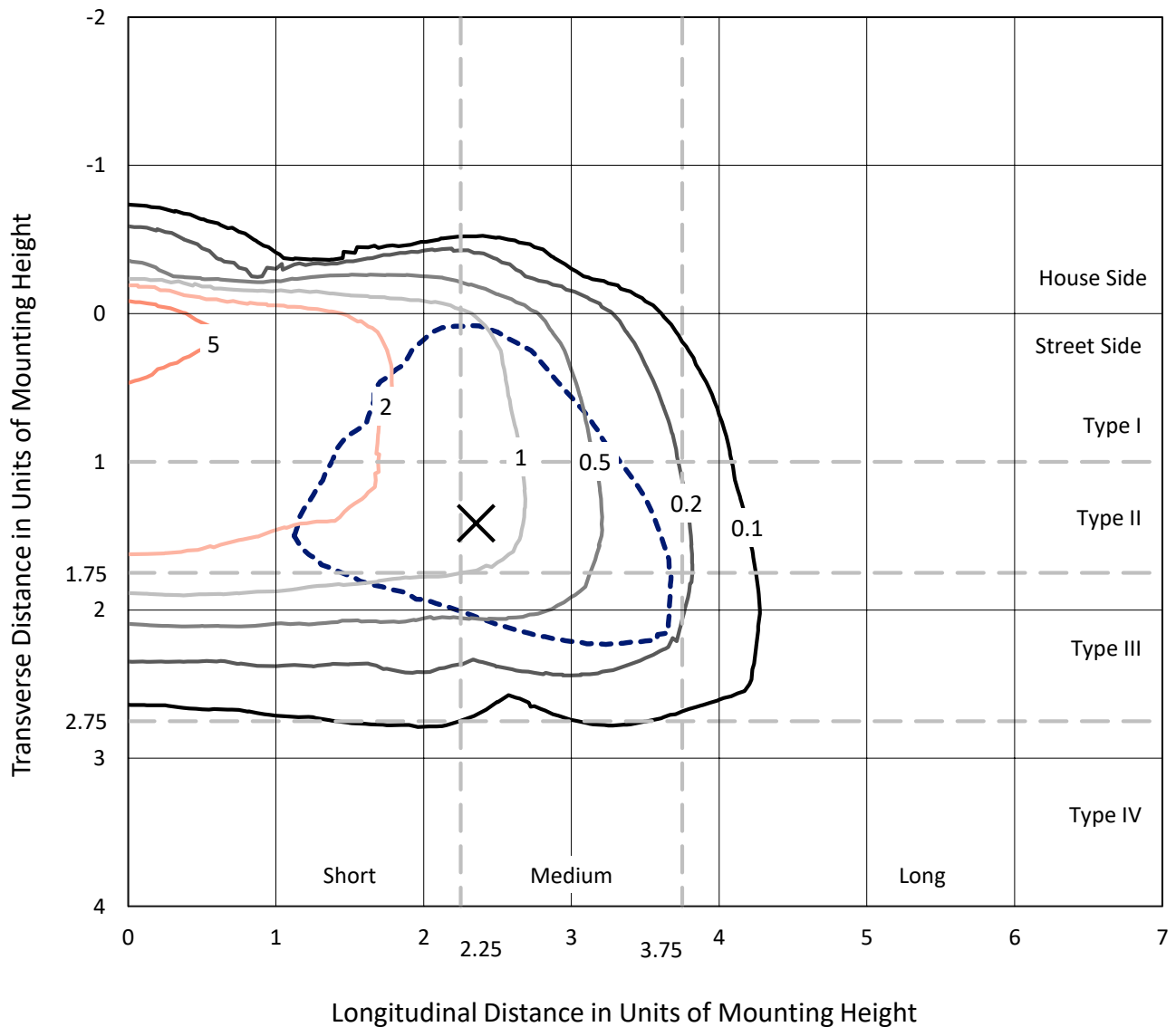


REPORT NUMBER: P197076

CATALOG NUMBER: NVN-AF-06-LED-U-SL3-8030-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

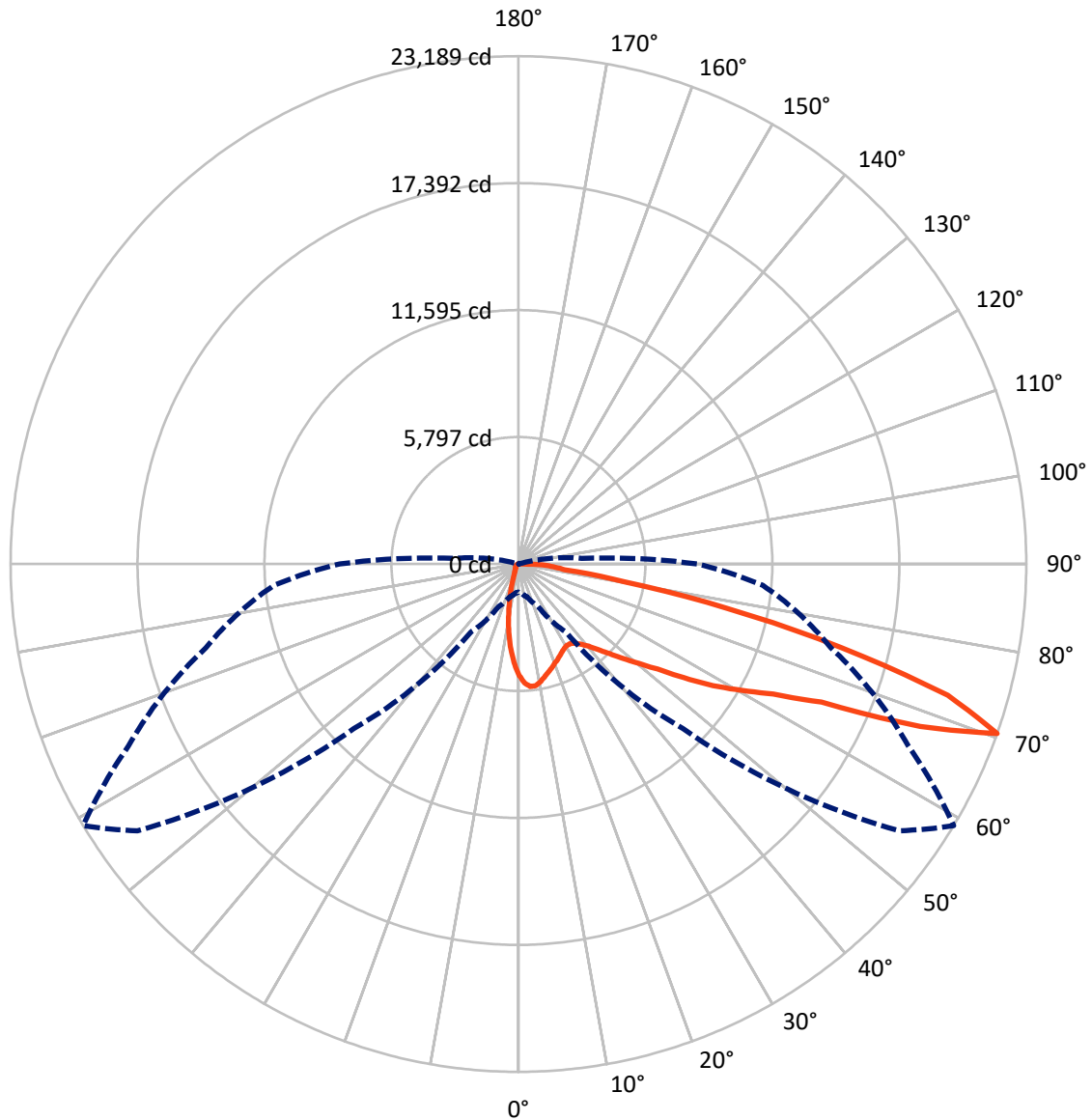


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P197076

CATALOG NUMBER: NVN-AF-06-LED-U-SL3-8030-800-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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CATALOG NUMBER: NVN-AF-06-LED-U-SL3-8030-800-HSS

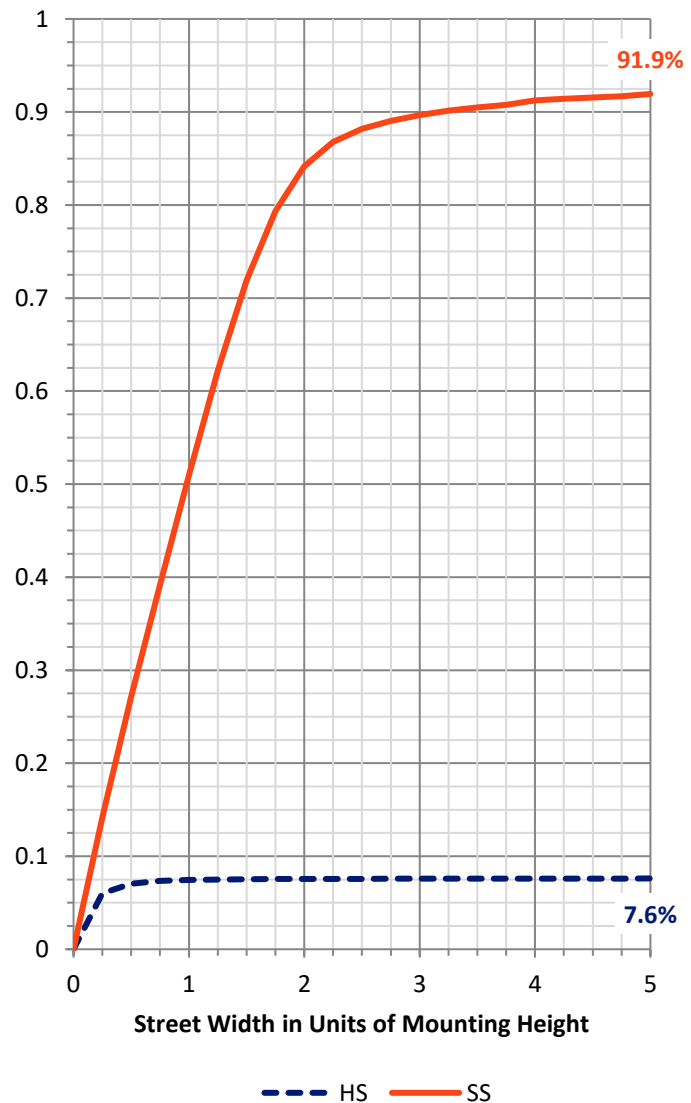
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1549.8	0.0	1549.8
	% Fixture	7.7	0.0	7.7
<b>Street Side</b>	Lumens	18610.2	0.0	18610.2
	% Fixture	92.3	0.0	92.3
<b>Total</b>	Lumens	20160.0	0.0	20160.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	419.2	2.1
10°-20°	879.2	4.4
20°-30°	1190.2	5.9
30°-40°	1717.6	8.5
40°-50°	2852.6	14.1
50°-60°	4363.3	21.6
60°-70°	5426.9	26.9
70°-80°	3000.0	14.9
80°-90°	311.1	1.5
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°	20160.0	100.0
0°-180°	20160.0	100.0



REPORT NUMBER: P197076

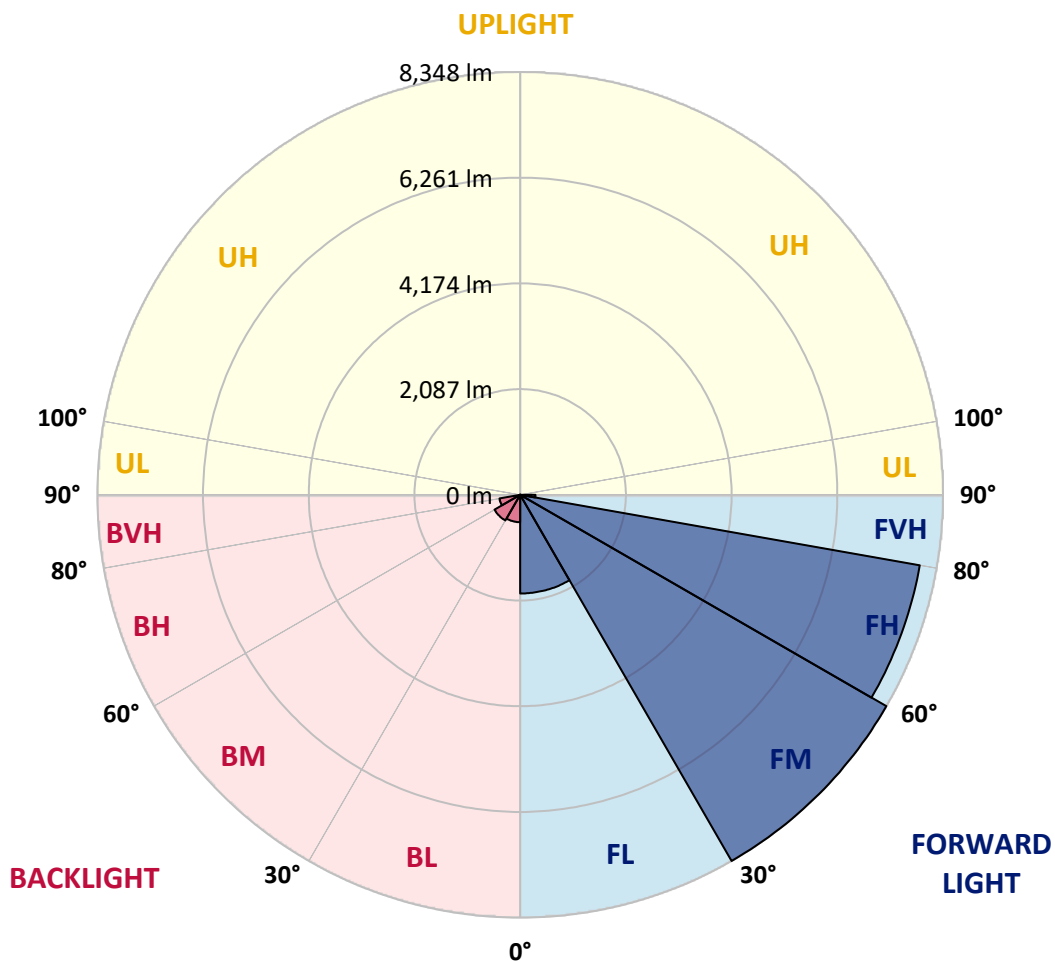
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1948.5	9.7			
FM	(30°-60°)	8348.5	41.4			
FH	(60°-80°)	8011.2	39.7			G4/12000
FVH	(80°-90°)	302.1	1.5			G3/500
BL	(0°-30°)	540.1	2.7	B2/1000		
BM	(30°-60°)	585.0	2.9	B1/1000		
BH	(60°-80°)	415.7	2.1	B1/500		G1/500
BVH	(80°-90°)	9.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Medium





REPORT NUMBER: P197076

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7
2.5°	5762.3	5753.2	5715.2	5707.6	5665.0	5579.8	5481.0	5441.4	5360.8	5233.1	5091.7
5°	5858.1	5862.7	5865.7	5849.0	5842.9	5773.0	5663.5	5616.3	5508.4	5298.5	5039.9
7.5°	5499.2	5511.4	5549.4	5566.1	5639.1	5666.5	5643.7	5613.3	5528.1	5280.2	4916.8
10°	5120.6	5143.4	5184.4	5211.8	5301.5	5374.5	5467.3	5474.9	5456.6	5219.4	4778.4
12.5°	4795.1	4816.4	4862.0	4916.8	5008.0	5102.3	5240.7	5289.4	5350.2	5179.9	4679.5
15°	4515.3	4521.4	4565.5	4633.9	4754.0	4883.3	5047.6	5119.0	5237.7	5164.7	4603.5
17.5°	4270.4	4271.9	4300.8	4363.2	4509.2	4679.5	4871.1	4965.4	5116.0	5143.4	4536.6
20°	4109.2	4107.7	4109.2	4142.7	4271.9	4474.2	4706.9	4805.7	4998.9	5117.5	4468.1
22.5°	4054.5	4046.9	4011.9	3999.7	4081.8	4259.8	4538.1	4667.4	4894.0	5109.9	4417.9
25°	4121.4	4116.8	4042.3	3972.3	3979.9	4091.0	4366.2	4524.4	4811.8	5137.3	4405.8
27.5°	4337.3	4328.2	4214.2	4077.3	3990.6	4010.4	4238.5	4404.3	4746.4	5204.2	4422.5
30°	4620.2	4621.7	4500.1	4334.3	4130.5	4018.0	4170.0	4326.7	4702.3	5304.6	4459.0
32.5°	4935.0	4933.5	4846.8	4655.2	4395.1	4157.9	4200.5	4332.8	4708.4	5452.1	4529.0
35°	5260.5	5243.7	5214.8	5046.0	4741.9	4402.7	4338.9	4436.2	4772.3	5646.7	4647.6
37.5°	5636.1	5630.0	5658.9	5481.0	5170.7	4763.2	4582.2	4647.6	4933.5	5934.2	4839.2
40°	6233.8	6200.3	6214.0	5972.2	5654.4	5248.3	4922.8	4939.6	5190.5	6314.4	5141.8
42.5°	7372.9	7237.5	6983.5	6530.3	6186.6	5786.7	5368.4	5339.5	5554.0	6775.2	5540.3
45°	8734.0	8578.9	7938.6	7146.3	6718.9	6364.6	5919.0	5841.4	6001.1	7324.2	6054.3
47.5°	9870.0	9702.7	8854.1	7789.6	7260.3	6960.7	6528.8	6437.6	6536.4	7961.4	6671.8
50°	10257.8	10165.1	9419.9	8324.9	7806.3	7629.9	7293.8	7141.7	7166.0	8648.8	7392.6
52.5°	10079.9	10048.0	9549.1	8691.4	8311.2	8369.0	8131.7	7972.1	7944.7	9400.1	8189.5
55°	9704.3	9689.0	9445.7	8895.2	8756.8	9045.7	9307.3	9168.9	8910.4	10198.5	8848.0
57.5°	9167.4	9225.2	9400.1	9287.6	9304.3	9760.5	10399.3	10470.7	10084.5	10834.2	9336.2
60°	7733.3	7888.4	8689.9	9708.8	10489.0	10949.8	11568.8	11702.6	11079.1	11269.2	9900.4
62.5°	5716.7	5938.7	7080.9	8953.0	11141.4	13211.2	13124.5	13065.2	12028.0	11851.6	10927.0
65°	3357.9	3618.0	4583.7	6995.7	10157.5	14665.1	16029.3	15208.1	13474.3	13062.2	12561.8
67.5°	1672.9	1674.4	2110.9	3692.5	7506.7	13650.7	20269.3	19794.8	16549.4	14846.1	13206.7
70°	1286.6	1321.6	1561.9	2145.9	3795.9	10631.9	21241.1	23189.2	19639.7	14767.0	11205.3
72.5°	1090.4	1113.2	1390.0	1867.5	2837.8	5836.8	18388.1	20497.4	18740.9	12476.7	8259.5
75°	784.7	803.0	1230.3	1694.2	2612.7	2895.6	12613.6	15202.0	14061.4	8776.6	4545.7
77.5°	194.7	193.1	428.9	1374.8	2337.5	2412.0	7237.5	9748.4	8067.9	3593.7	1168.0
80°	86.7	83.6	97.3	289.0	2174.8	2276.6	3183.0	4922.8	3094.8	582.5	357.4
82.5°	60.8	57.8	60.8	106.5	726.9	2112.4	1923.8	2133.7	1133.0	199.2	152.1
85°	19.8	18.2	33.5	89.7	203.8	1218.2	1876.7	1593.8	842.5	85.2	101.9
87.5°	3.0	3.0	12.2	48.7	59.3	406.1	1101.1	1104.1	378.7	50.2	45.6
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: P197076

CATALOG NUMBER: NVN-AF-06-LED-U-SL3-8030-800-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7	5097.7
2.5°	5020.2	4930.4	4804.2	4678.0	4563.9	4446.8	4352.5	4308.4	4288.7	4261.3	4202.0
5°	4904.6	4741.9	4465.1	4192.9	3938.9	3695.6	3487.2	3368.6	3240.8	3234.8	3172.4
7.5°	4719.1	4487.9	4051.4	3628.6	3240.8	2869.8	2550.4	2343.6	2202.1	2113.9	2053.1
10°	4512.2	4215.7	3637.8	3043.1	2515.4	2019.6	1609.0	1341.4	1178.6	1096.5	1049.4
12.5°	4348.0	3975.4	3230.2	2482.0	1820.4	1251.6	869.9	675.2	588.6	555.1	539.9
15°	4206.5	3754.9	2848.5	1980.1	1215.1	719.3	503.4	439.5	425.8	425.8	424.3
17.5°	4063.6	3542.0	2477.4	1487.3	765.0	471.4	396.9	387.8	389.3	393.9	393.9
20°	3928.2	3339.7	2120.0	1060.0	501.9	377.2	360.4	357.4	362.0	368.0	366.5
22.5°	3818.7	3161.8	1785.4	728.5	386.3	342.2	331.5	327.0	330.0	334.6	333.1
25°	3741.2	3009.7	1478.2	507.9	336.1	311.8	299.6	293.5	290.5	293.5	292.0
27.5°	3694.0	2881.9	1189.3	381.7	301.1	281.3	266.1	254.0	246.4	246.4	243.3
30°	3663.6	2761.8	932.3	316.3	272.2	250.9	229.6	212.9	200.7	197.7	196.2
32.5°	3662.1	2658.4	696.5	279.8	244.8	220.5	194.7	173.4	159.7	156.6	155.1
35°	3700.1	2574.7	512.5	252.5	220.5	191.6	162.7	139.9	127.7	127.7	126.2
37.5°	3799.0	2526.1	387.8	231.2	200.7	167.3	136.9	115.6	104.9	108.0	108.0
40°	3983.0	2516.9	316.3	214.4	184.0	146.0	111.0	94.3	89.7	94.3	94.3
42.5°	4264.3	2565.6	281.3	202.3	168.8	124.7	92.8	80.6	79.1	83.6	83.6
45°	4630.9	2661.4	261.6	191.6	152.1	103.4	77.6	70.0	68.4	74.5	74.5
47.5°	5074.9	2790.7	243.3	179.5	135.4	85.2	65.4	59.3	59.3	65.4	66.9
50°	5601.1	2965.6	225.1	167.3	121.7	71.5	54.7	50.2	51.7	57.8	59.3
52.5°	6206.4	3180.0	208.4	156.6	106.5	57.8	45.6	42.6	44.1	50.2	51.7
55°	6728.0	3367.1	188.6	146.0	86.7	47.1	38.0	36.5	38.0	45.6	45.6
57.5°	7182.8	3546.5	170.3	129.3	68.4	38.0	30.4	30.4	33.5	41.1	42.6
60°	7786.5	3829.4	155.1	109.5	51.7	28.9	24.3	25.9	30.4	36.5	38.0
62.5°	8855.6	4310.0	135.4	91.2	38.0	22.8	19.8	21.3	27.4	35.0	36.5
65°	10194.0	4764.7	112.5	76.0	28.9	16.7	15.2	19.8	27.4	35.0	36.5
67.5°	10057.1	4144.2	88.2	60.8	21.3	13.7	12.2	18.2	25.9	35.0	36.5
70°	8156.1	2904.7	65.4	41.1	16.7	12.2	12.2	18.2	25.9	33.5	35.0
72.5°	5657.4	1616.6	50.2	27.4	15.2	12.2	10.6	16.7	24.3	33.5	35.0
75°	2691.8	495.8	39.5	19.8	13.7	10.6	9.1	16.7	24.3	33.5	35.0
77.5°	517.1	126.2	31.9	16.7	12.2	10.6	9.1	15.2	24.3	31.9	33.5
80°	174.9	56.3	25.9	15.2	12.2	10.6	9.1	15.2	22.8	30.4	31.9
82.5°	95.8	31.9	22.8	13.7	12.2	9.1	7.6	13.7	21.3	30.4	31.9
85°	74.5	22.8	18.2	13.7	12.2	9.1	7.6	13.7	21.3	28.9	30.4
87.5°	38.0	16.7	15.2	13.7	12.2	9.1	7.6	12.2	19.8	27.4	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

(END OF REPORT)