

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: P270852

Luminaire Tested: **NVN-AF-02-LED-U-SLL-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270852  
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: NVN-AF-02-LED-U-SLL-7027-1200  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA 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: 10252.5 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

Input Watts (W): 129  
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

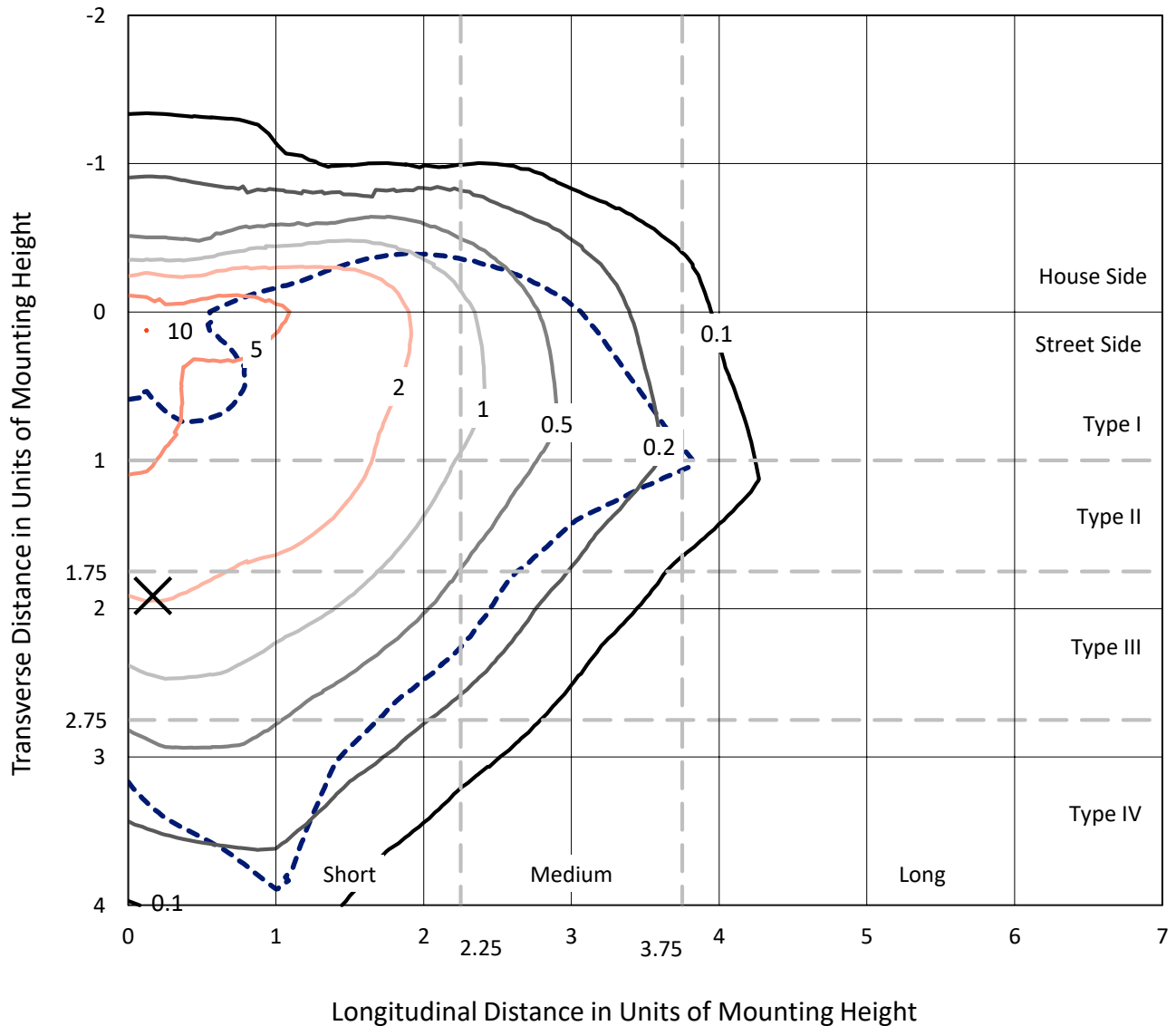


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

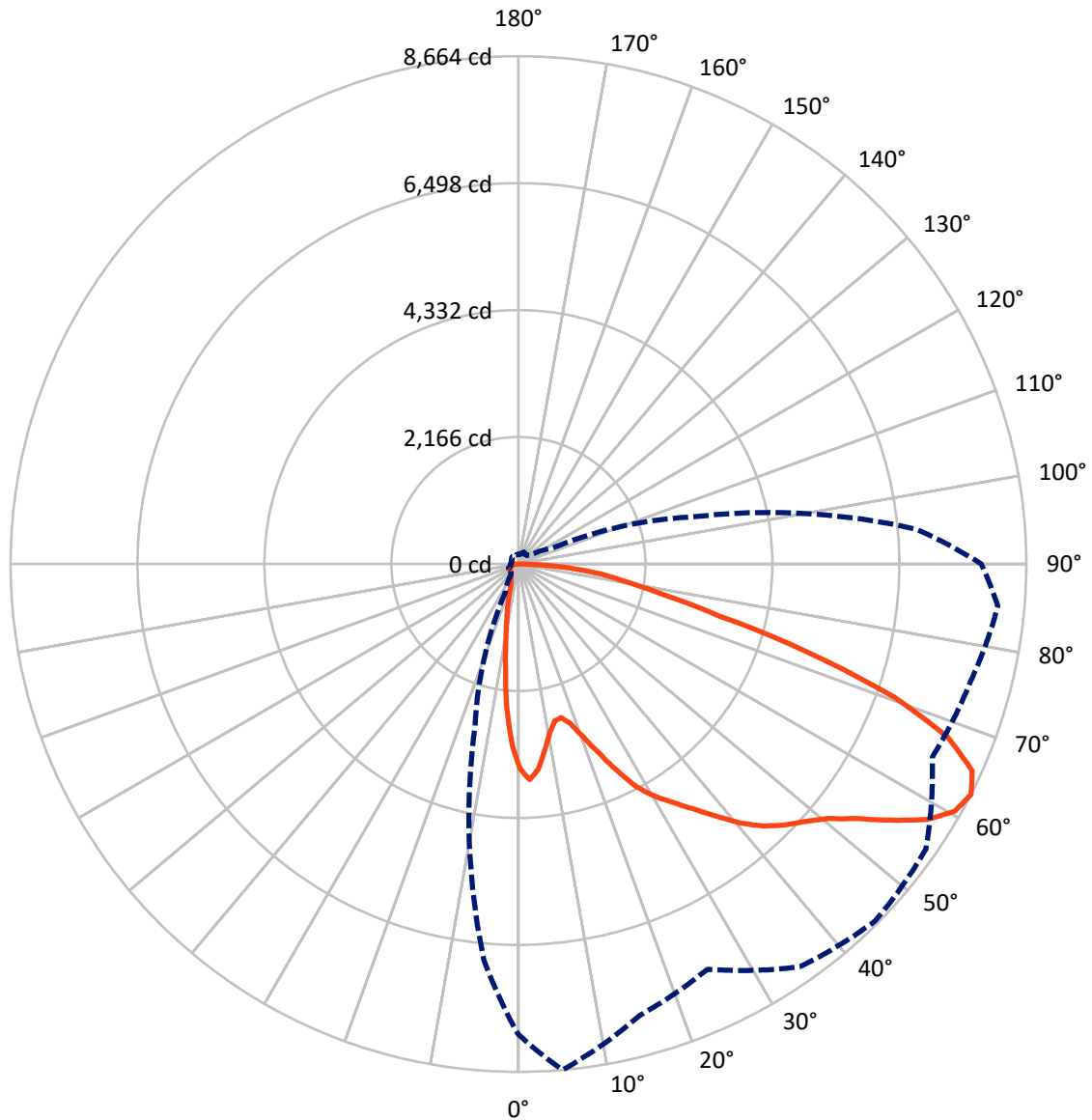


Based on 20 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	1816.2	0.0	1816.2
	% Fixture	17.7	0.0	17.7
<b>Street Side</b>	Lumens	8436.3	0.0	8436.3
	% Fixture	82.3	0.0	82.3
<b>Total</b>	Lumens	10252.5	0.0	10252.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.2	2.5
10°-20°	464.3	4.5
20°-30°	667.8	6.5
30°-40°	1022.7	10.0
40°-50°	1495.3	14.6
50°-60°	2175.7	21.2
60°-70°	2520.8	24.6
70°-80°	1314.0	12.8
80°-90°	337.8	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°	10252.5	100.0
0°-180°	10252.5	100.0

**Coefficient of Utilization**



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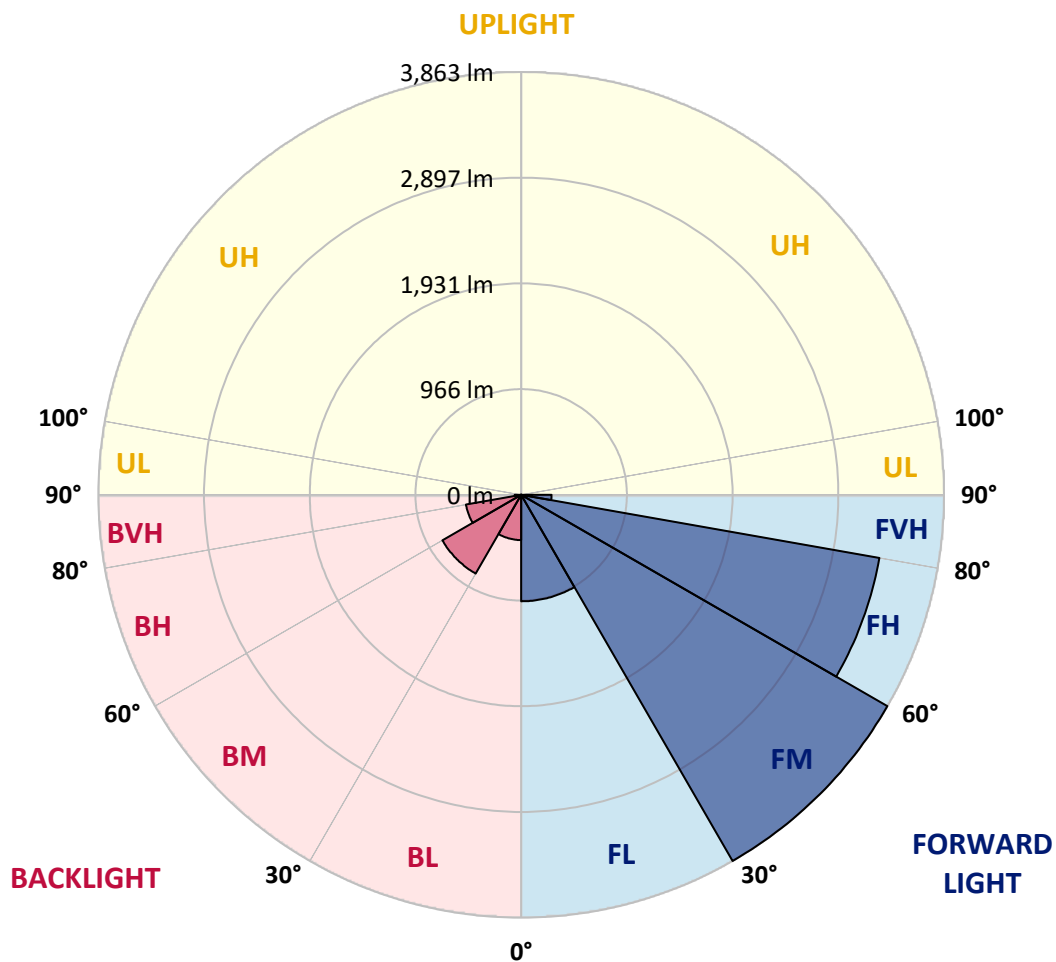
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	973.0	9.5			
FM	(30°-60°)	3862.7	37.7			
FH	(60°-80°)	3322.7	32.4			G2/5000
FVH	(80°-90°)	277.9	2.7			G3/500
BL	(0°-30°)	413.2	4.0	B1/500		
BM	(30°-60°)	831.0	8.1	B1/1000		
BH	(60°-80°)	512.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	59.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2
2.5°	3608.3	3684.8	3772.6	3887.1	3965.1	3996.3	4022.3	3978.6	3936.2	3856.6	3828.3
5°	3370.4	3517.7	3759.1	3989.0	4191.1	4307.1	4342.8	4261.6	4117.6	3909.3	3799.3
7.5°	3017.2	3211.4	3551.1	3889.3	4179.2	4372.5	4386.7	4226.0	3942.0	3600.9	3422.5
10°	2708.7	2928.1	3321.4	3699.7	4006.7	4204.4	4165.8	3940.5	3597.9	3209.9	3008.5
12.5°	2529.6	2749.0	3149.6	3533.9	3823.1	3898.3	3819.5	3629.8	3305.0	2916.2	2713.3
15°	2491.8	2717.7	3088.7	3412.8	3592.0	3543.6	3465.7	3369.7	3138.5	2820.3	2624.0
17.5°	2606.3	2858.9	3169.7	3347.4	3340.0	3223.9	3158.6	3177.1	3137.7	2924.4	2719.2
20°	2841.9	3140.7	3375.7	3329.6	3139.2	2976.4	2938.5	3084.2	3266.3	3185.3	2960.1
22.5°	3151.9	3492.3	3656.6	3380.9	3034.5	2858.9	2851.5	3079.0	3500.5	3580.0	3305.8
25°	3502.0	3899.0	3939.8	3471.5	3023.2	2848.5	2841.9	3159.2	3782.3	3971.0	3693.0
27.5°	3930.2	4309.3	4176.2	3592.7	3072.4	2879.1	2883.5	3296.2	4075.9	4357.6	4129.4
30°	4252.8	4600.7	4321.9	3711.6	3151.2	2932.5	2943.7	3444.0	4234.3	4625.9	4478.1
32.5°	4554.5	4849.7	4461.7	3829.0	3266.3	3012.0	3050.7	3628.3	4424.5	4856.3	4807.3
35°	4888.3	5128.5	4617.1	3954.7	3431.3	3151.9	3207.6	3803.9	4613.3	5086.8	5133.6
37.5°	5266.8	5447.4	4785.8	4132.4	3669.2	3410.5	3441.8	3982.9	4744.8	5341.9	5483.9
40°	5660.7	5804.9	4970.1	4369.4	4015.0	3759.9	3774.8	4212.6	4848.2	5605.8	5823.5
42.5°	5998.9	6111.2	5155.3	4663.9	4411.8	4116.0	4128.6	4460.2	4947.1	5833.1	6095.5
45°	6269.5	6352.1	5330.0	4973.8	4835.5	4560.5	4557.6	4712.1	5079.3	6024.9	6304.5
47.5°	6521.5	6565.4	5524.7	5275.7	5274.8	5132.9	5026.6	5009.6	5255.5	6186.3	6486.7
50°	6810.1	6826.3	5781.9	5580.5	5811.7	5789.3	5593.0	5387.1	5483.9	6367.6	6677.6
52.5°	7211.4	7212.1	6100.7	5877.8	6404.0	6474.8	6246.5	5814.5	5821.2	6720.8	7007.7
55°	7683.5	7716.1	6516.3	6233.9	7024.0	7144.5	6929.6	6322.4	6305.9	7290.1	7542.9
57.5°	8048.5	8221.6	7000.2	6679.2	7603.2	7760.0	7586.7	6848.6	6901.4	7877.4	7984.5
60°	8151.0	8556.1	7482.7	7178.6	8093.0	8328.6	8152.5	7417.2	7484.1	8258.7	8111.5
62.5°	8028.3	8664.0	7974.1	7626.3	8383.6	8609.6	8483.2	7789.7	7959.3	8209.7	7896.8
65°	7664.9	8507.8	8400.8	7816.5	8216.3	8296.7	8263.2	7809.1	8217.2	7745.8	7302.9
67.5°	6815.9	7905.7	8210.5	7409.8	7435.1	7348.9	7305.0	7278.2	7927.3	6997.3	6366.2
70°	5543.4	6792.9	7302.9	6201.2	6013.9	5930.6	5786.3	6143.1	7125.1	5961.8	5239.3
72.5°	4270.0	5196.9	5990.1	4701.0	4311.5	4339.7	4176.2	4697.2	5902.4	4608.8	4000.1
75°	3032.1	3543.6	4781.3	3377.8	2862.0	2860.5	2847.8	3380.9	4657.3	3308.0	2926.6
77.5°	2185.4	2551.2	3745.8	2260.6	2030.9	2056.8	2015.3	2297.8	3630.6	2379.5	2168.4
80°	1743.3	1888.9	2421.1	1507.5	1511.9	1572.9	1563.9	1571.5	2388.5	1723.0	1621.4
82.5°	1252.5	1434.0	1851.0	1155.2	999.9	1064.5	1077.2	1165.6	1685.2	1218.5	1069.0
85°	642.3	874.2	1703.0	1000.5	625.2	518.1	596.1	919.5	1463.7	730.1	521.0
87.5°	124.9	242.4	1248.1	556.1	281.0	142.0	234.2	389.5	851.1	132.3	64.7
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°	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2
2.5°	3780.0	3684.8	3595.6	3503.5	3432.2	3345.2	3259.7	3185.3	3113.3	3065.6	3080.5
5°	3687.8	3455.9	3247.7	3054.4	2941.5	2805.4	2684.2	2582.4	2503.7	2453.1	2483.5
7.5°	3267.9	2954.2	2679.9	2424.9	2264.3	2088.1	1946.8	1847.3	1786.3	1752.1	1801.9
10°	2838.1	2485.8	2178.1	1912.8	1754.3	1604.9	1477.1	1371.5	1289.7	1251.1	1271.1
12.5°	2530.4	2138.7	1816.1	1637.6	1501.5	1367.8	1235.4	1112.1	1008.0	960.4	950.8
15°	2415.3	1952.0	1622.8	1423.5	1288.3	1142.6	999.9	867.6	768.6	727.7	718.9
17.5°	2465.8	1912.0	1508.3	1272.7	1076.3	899.5	738.9	614.0	541.1	518.1	520.4
20°	2643.4	1926.9	1416.1	1117.3	874.9	665.4	504.8	418.5	387.3	382.0	388.1
22.5°	2887.2	1987.8	1349.3	983.5	697.3	483.9	375.4	334.4	326.4	325.5	331.6
25°	3209.1	2106.6	1304.6	864.4	550.8	383.5	327.2	304.0	297.3	298.9	304.7
27.5°	3588.2	2257.6	1275.7	761.9	452.7	342.0	305.6	285.4	278.7	280.2	284.8
30°	3934.7	2389.9	1232.6	684.7	406.7	327.2	293.7	273.5	264.6	264.6	267.6
32.5°	4244.6	2504.4	1182.0	626.7	364.3	293.7	266.1	250.4	243.8	246.0	247.6
35°	4519.6	2564.7	1142.6	592.4	330.0	270.6	243.1	226.7	217.7	219.2	221.5
37.5°	4790.2	2587.7	1116.6	573.8	305.6	256.5	231.1	217.7	208.1	206.7	205.9
40°	5047.4	2582.4	1092.0	568.6	289.2	246.0	223.8	211.9	202.2	200.0	199.2
42.5°	5269.6	2565.4	1069.0	554.6	278.0	238.6	217.7	207.4	197.7	194.8	193.2
45°	5472.7	2555.0	1043.7	528.6	284.0	235.6	214.9	203.6	194.8	191.0	189.5
47.5°	5697.9	2592.1	1015.4	500.3	282.4	236.4	214.9	202.2	193.2	189.5	188.0
50°	5966.3	2717.7	980.5	461.5	269.1	252.8	214.1	200.0	191.8	189.5	186.6
52.5°	6345.4	2921.4	932.3	411.9	258.7	269.9	213.3	196.3	189.5	185.8	182.1
55°	6864.9	3125.2	869.6	359.1	242.4	258.0	214.9	191.8	184.3	180.6	176.2
57.5°	7291.0	3279.7	791.0	315.1	227.5	243.8	212.5	186.6	178.5	174.7	170.9
60°	7263.4	3294.7	715.9	287.0	218.6	219.2	217.7	182.8	173.3	170.1	167.3
62.5°	6813.6	3111.0	646.1	272.8	211.9	200.0	222.3	178.5	168.1	165.0	162.9
65°	6065.0	2683.5	608.8	272.8	205.9	189.5	194.0	172.5	162.9	159.8	158.3
67.5°	5115.8	2156.6	573.8	278.7	197.7	182.1	176.2	166.5	157.7	154.6	153.2
70°	4100.5	1697.1	549.4	275.8	190.4	173.9	166.5	158.3	149.4	148.7	147.2
72.5°	3216.6	1363.4	538.3	275.8	179.1	164.3	156.8	150.9	142.0	141.3	139.0
75°	2577.2	1023.6	492.1	270.6	168.1	151.6	144.9	139.7	130.9	131.6	130.1
77.5°	1995.9	724.0	411.1	243.8	153.9	137.5	132.3	128.5	118.1	118.9	118.9
80°	1561.1	471.3	318.9	202.2	137.5	121.2	117.5	114.4	103.3	104.8	104.8
82.5°	1069.7	280.2	231.1	162.9	118.1	103.3	102.5	98.2	86.2	87.0	88.5
85°	584.3	184.3	153.9	120.5	93.0	84.0	82.6	80.3	69.1	69.1	69.9
87.5°	107.7	98.9	90.6	79.5	62.4	60.1	58.0	60.1	52.0	50.6	50.6
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°	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2
2.5°	3045.6	2994.3	2958.6	2927.3	2852.3	2857.5	2867.8	2882.8	2835.9	2860.5	2890.9
5°	2453.1	2410.7	2378.7	2328.9	2224.2	2187.0	2163.2	2152.8	2082.9	2097.8	2130.5
7.5°	1808.6	1807.8	1796.7	1740.9	1614.7	1538.0	1487.5	1471.9	1428.8	1445.2	1494.9
10°	1273.3	1286.7	1281.5	1231.8	1118.7	1063.8	1052.6	1083.8	1084.6	1116.6	1202.0
12.5°	920.3	912.9	906.2	865.2	780.5	771.6	796.8	840.0	850.4	884.7	973.9
15°	686.8	669.1	665.4	633.3	577.6	585.8	604.4	626.7	627.3	651.2	724.8
17.5°	515.2	515.2	521.0	500.3	460.1	456.3	446.7	440.8	431.8	441.5	481.8
20°	399.9	418.5	433.4	421.5	385.1	367.2	348.6	336.8	330.0	330.8	342.8
22.5°	342.8	357.5	376.8	370.9	340.5	317.5	305.6	297.3	292.2	292.2	298.9
25°	313.7	323.4	341.1	338.2	312.3	293.7	284.0	275.8	269.9	269.1	275.8
27.5°	290.6	296.6	308.5	307.0	280.2	268.4	262.5	257.3	253.5	252.8	259.4
30°	269.9	272.8	278.7	276.5	256.5	244.6	242.4	240.0	238.0	238.6	248.3
32.5°	251.3	253.5	257.3	254.2	234.8	224.4	220.8	217.7	215.6	217.7	229.0
35°	230.4	237.2	241.6	240.0	219.2	206.7	198.4	191.0	188.0	190.4	202.9
37.5°	212.5	223.8	229.6	228.2	206.7	191.8	181.4	179.9	179.9	182.8	195.6
40°	205.9	214.1	219.2	217.1	195.6	180.6	174.7	172.5	173.3	176.2	189.5
42.5°	200.0	207.4	208.9	204.5	182.8	173.3	169.5	166.5	168.1	171.8	185.1
45°	194.8	200.7	200.0	193.2	172.5	165.7	165.7	163.5	164.3	167.3	181.4
47.5°	191.0	194.0	192.5	185.8	165.0	159.8	162.1	162.1	163.5	165.7	179.9
50°	185.1	187.3	185.8	179.9	159.1	154.6	156.8	159.8	161.3	163.5	176.2
52.5°	179.1	180.6	179.9	173.9	153.2	150.1	150.1	153.2	156.1	159.1	170.1
55°	173.3	174.7	175.3	170.9	148.7	145.6	144.9	144.9	148.0	152.4	164.3
57.5°	168.7	168.7	170.1	167.3	144.2	140.4	136.8	137.5	141.3	144.9	156.8
60°	163.5	164.3	166.5	163.5	138.2	132.3	129.4	133.0	134.6	138.2	150.9
62.5°	159.1	159.1	160.5	158.3	133.0	127.1	124.9	128.5	128.5	132.3	144.9
65°	155.3	154.6	154.6	153.9	127.9	121.9	120.5	121.9	122.7	126.4	139.0
67.5°	152.4	148.7	148.7	150.1	122.7	116.7	116.1	116.1	116.7	121.2	132.3
70°	145.6	142.7	142.0	147.2	117.5	110.0	110.0	108.5	110.0	112.3	124.1
72.5°	138.2	136.1	135.3	142.7	112.3	102.5	101.1	100.3	101.1	103.3	114.4
75°	128.5	127.1	128.5	139.7	107.1	94.4	92.2	91.4	91.4	92.2	104.1
77.5°	117.5	116.1	127.1	130.1	104.1	84.7	82.6	81.0	79.5	79.5	93.0
80°	104.1	103.3	122.7	110.0	99.6	74.3	70.6	68.5	67.0	66.1	79.5
82.5°	90.6	89.2	104.8	86.2	82.6	60.9	55.8	51.4	49.0	49.0	60.9
85°	74.3	73.7	82.6	63.2	57.2	44.6	37.2	33.4	30.5	30.5	39.3
87.5°	54.3	52.8	51.4	37.9	28.9	20.0	14.2	13.4	11.9	11.1	16.3
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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CATALOG NUMBER: NVN-AF-02-LED-U-SLL-7027-1200

**CANDELA DISTRIBUTION (continued):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2	3495.2
2.5°	2936.3	2998.1	3114.8	3210.6	3338.5	3441.0	3557.7	3608.3
5°	2190.6	2288.1	2466.4	2618.9	2830.0	3025.5	3248.5	3370.4
7.5°	1571.5	1715.8	1851.0	2041.3	2305.2	2567.5	2856.0	3017.2
10°	1300.1	1432.4	1548.4	1683.8	1887.3	2182.5	2526.8	2708.7
12.5°	1077.2	1219.9	1342.4	1487.5	1658.5	1925.2	2317.7	2529.6
15°	825.9	981.3	1128.5	1303.1	1512.7	1817.5	2255.4	2491.8
17.5°	565.8	732.2	913.5	1127.0	1379.6	1772.1	2314.8	2606.3
20°	384.4	506.3	703.3	955.9	1260.1	1750.6	2445.6	2841.9
22.5°	315.9	370.9	519.0	795.4	1161.9	1774.4	2658.3	3151.9
25°	290.0	319.6	403.7	654.1	1086.8	1837.7	2945.9	3502.0
27.5°	273.5	298.9	353.8	553.0	1017.7	1923.8	3296.2	3930.2
30°	263.9	287.6	333.8	501.1	954.4	1998.2	3597.2	4252.8
32.5°	242.4	260.1	298.1	471.3	909.2	2058.3	3862.5	4554.5
35°	216.3	238.0	269.1	451.9	907.6	2086.7	4112.4	4888.3
37.5°	206.7	227.5	250.4	441.5	916.6	2110.4	4417.9	5266.8
40°	200.7	219.2	238.0	440.1	923.9	2129.1	4716.6	5660.7
42.5°	195.6	214.1	235.6	429.7	921.0	2154.2	4981.3	5998.9
45°	194.0	212.5	240.8	414.1	920.3	2193.8	5191.7	6269.5
47.5°	192.5	220.8	239.4	397.0	917.3	2276.9	5428.7	6521.5
50°	191.0	235.6	229.0	373.2	895.0	2418.9	5747.6	6810.1
52.5°	190.4	238.0	217.7	340.5	854.8	2629.2	6214.6	7211.4
55°	187.3	226.0	198.4	297.3	796.8	2856.0	6714.8	7683.5
57.5°	180.6	201.5	187.3	254.9	713.7	3014.4	7084.3	8048.5
60°	197.0	173.3	179.9	233.4	614.0	3042.6	7100.7	8151.0
62.5°	188.0	157.7	172.5	226.0	544.2	2858.2	6775.7	8028.3
65°	150.1	149.4	165.7	233.4	533.8	2445.6	6227.2	7664.9
67.5°	136.8	143.5	159.1	242.4	540.4	1926.9	5419.8	6815.9
70°	127.9	136.1	150.1	250.4	552.3	1518.0	4363.5	5543.4
72.5°	118.9	125.7	141.3	258.7	544.2	1197.6	3492.3	4270.0
75°	107.7	113.7	128.5	237.2	466.8	880.2	2775.0	3032.1
77.5°	95.1	100.3	112.9	187.3	350.9	612.6	2078.5	2185.4
80°	81.7	84.0	93.7	136.8	229.0	366.5	1581.8	1743.3
82.5°	64.7	65.4	71.3	100.3	142.7	234.2	1097.2	1252.5
85°	41.6	43.1	46.2	70.6	95.8	150.1	560.5	642.3
87.5°	14.2	16.3	16.3	34.1	46.8	83.3	171.8	124.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)