

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: P197178

Luminaire Tested: **NVN-AF-06-LED-U-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197178
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-06-LED-U-SLL-8030
Description: NAVION ROADWAY AND AREA LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 25961 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

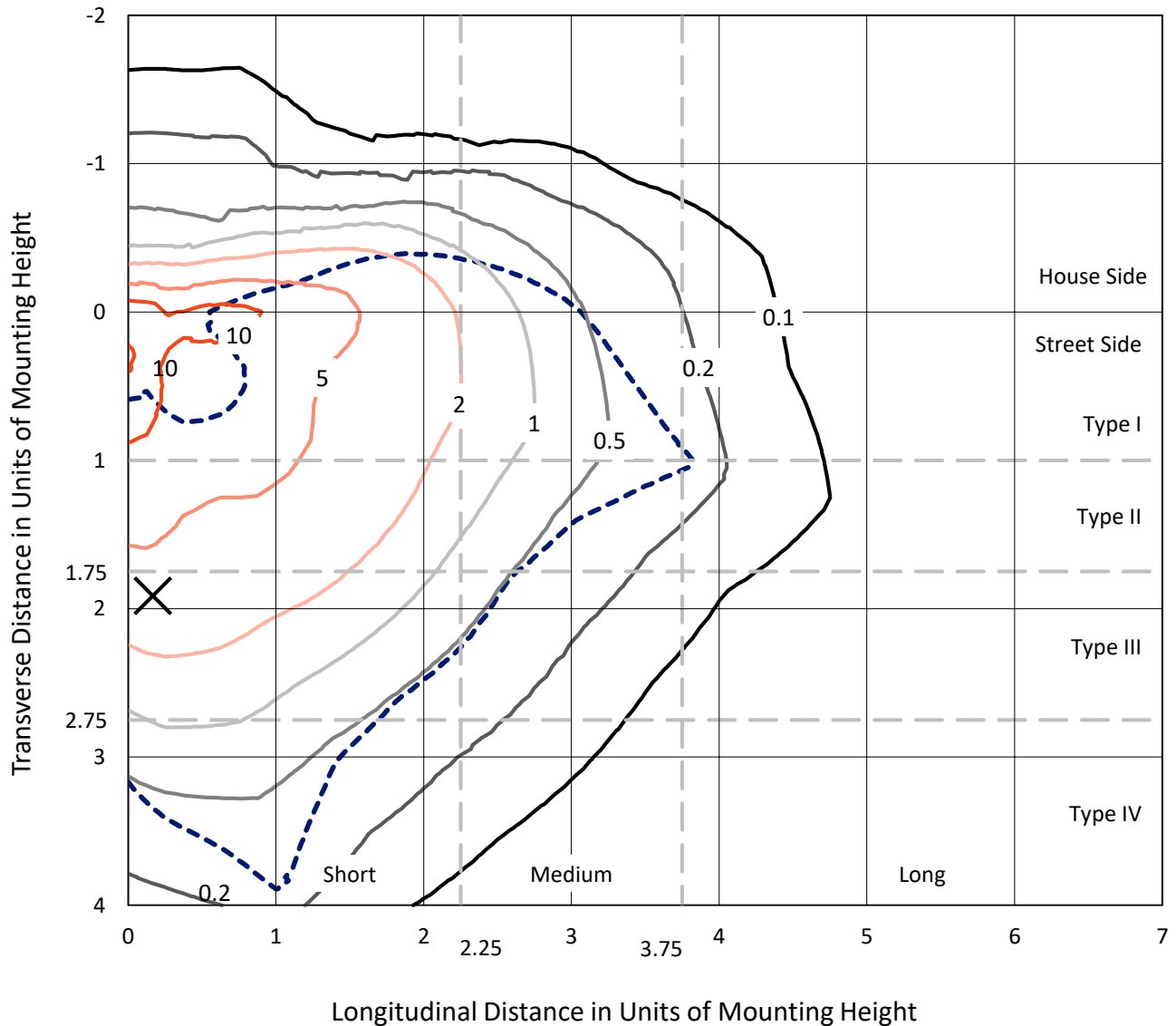
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

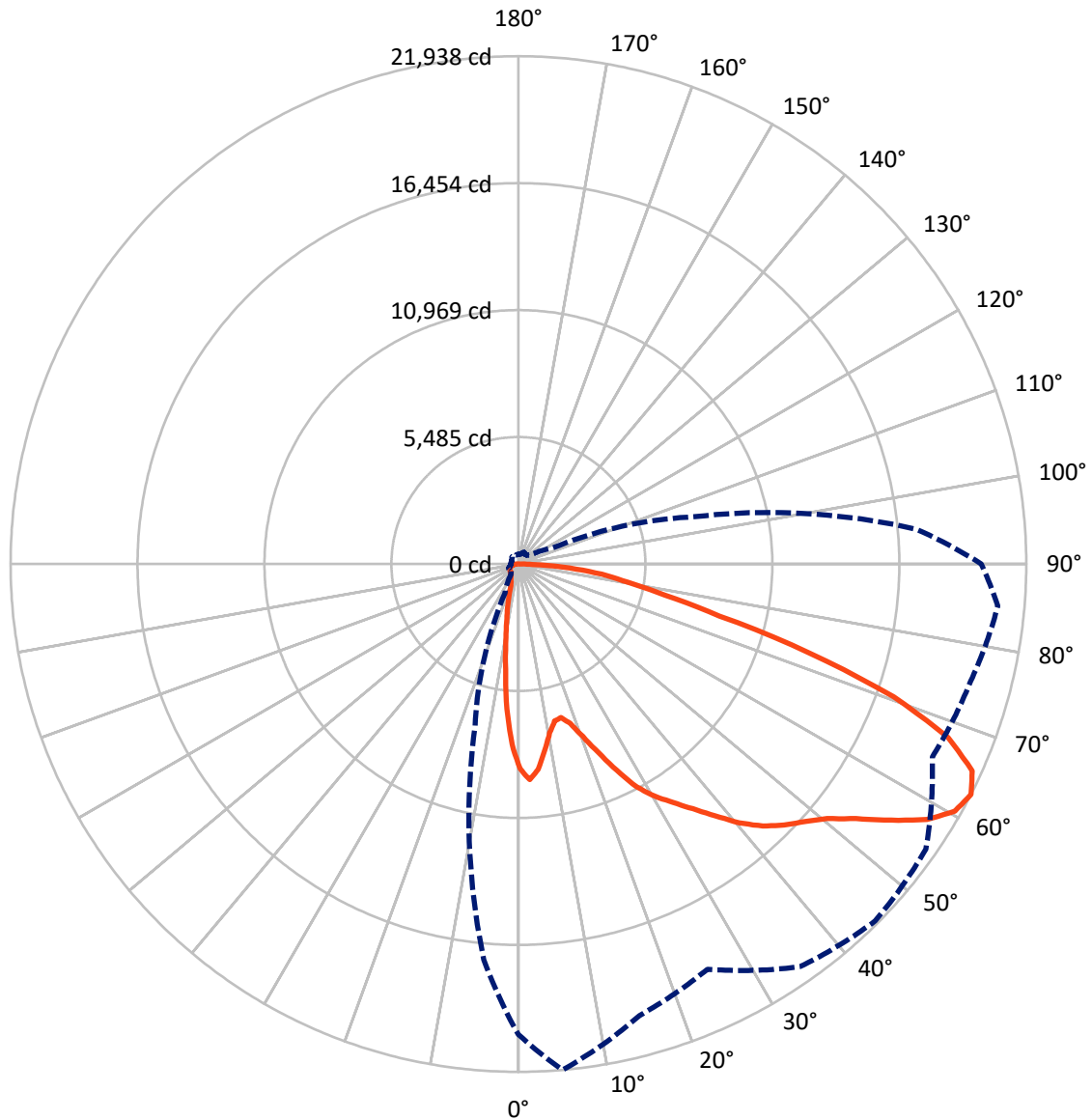
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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	4599.0	0.0	4599.0
	% Fixture	17.7	0.0	17.7
Street Side	Lumens	21362.0	0.0	21362.0
	% Fixture	82.3	0.0	82.3
Total	Lumens	25961.0	0.0	25961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.7	2.5
10°-20°	1175.6	4.5
20°-30°	1690.9	6.5
30°-40°	2589.8	10.0
40°-50°	3786.3	14.6
50°-60°	5509.1	21.2
60°-70°	6383.0	24.6
70°-80°	3327.4	12.8
80°-90°	855.3	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°	25961.0	100.0
0°-180°	25961.0	100.0

Coefficient of Utilization



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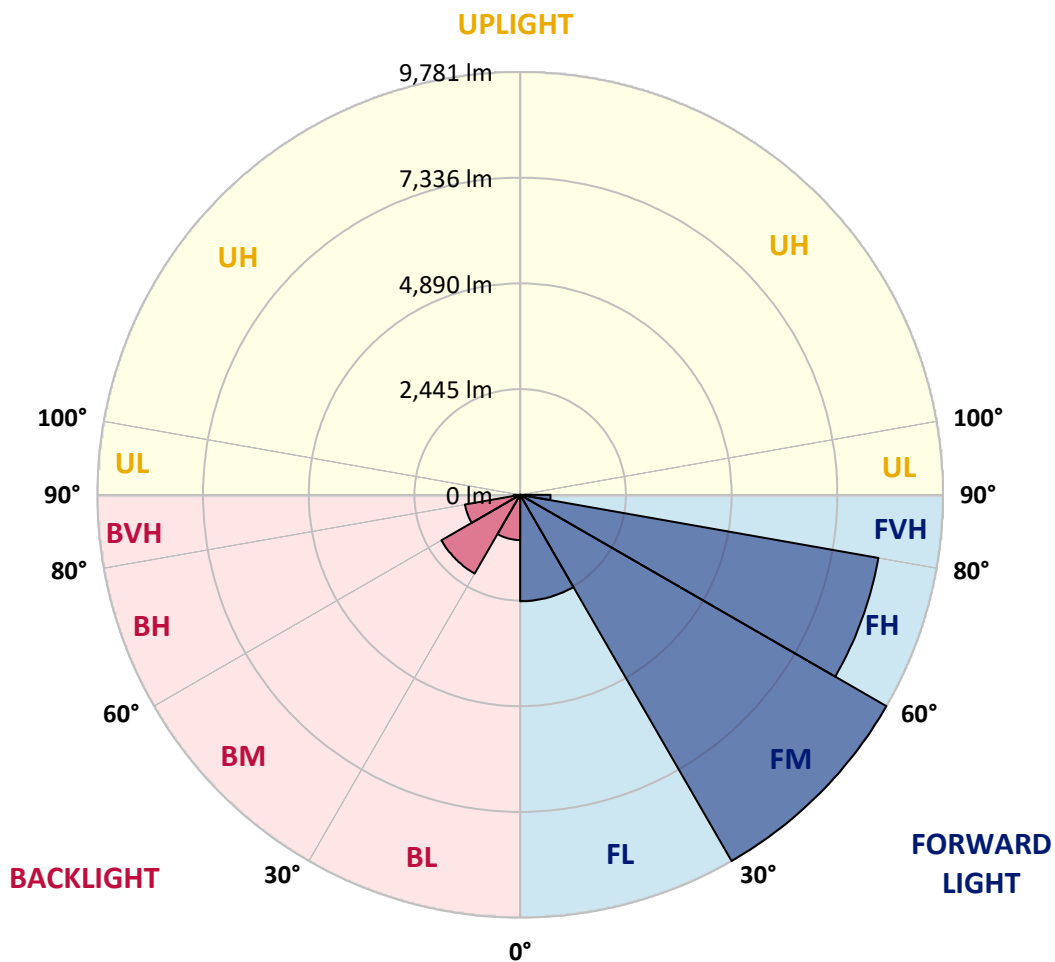
CATALOG NUMBER: NVN-AF-06-LED-U-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2463.8	9.5			
FM	(30°-60°)	9780.9	37.7			
FH	(60°-80°)	8413.6	32.4			G4/12000
FVH	(80°-90°)	703.6	2.7			G4/750
BL	(0°-30°)	1046.4	4.0	B3/2500		
BM	(30°-60°)	2104.2	8.1	B2/2500		
BH	(60°-80°)	1296.8	5.0	B3/2500		G3/2500
BVH	(80°-90°)	151.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6
2.5°	9136.7	9330.6	9552.7	9842.6	10040.2	10119.3	10185.2	10074.1	9966.8	9765.4	9693.9
5°	8534.4	8907.1	9518.8	10100.5	10612.5	10906.1	10996.5	10791.3	10426.1	9899.1	9620.5
7.5°	7640.3	8131.6	8991.8	9848.2	10582.3	11071.7	11107.5	10700.9	9981.9	9117.9	8666.2
10°	6859.1	7414.4	8410.2	9368.3	10145.7	10646.3	10548.5	9978.1	9110.4	8127.8	7617.7
12.5°	6405.5	6960.8	7975.3	8948.5	9680.7	9870.8	9671.3	9191.3	8368.8	7384.3	6870.4
15°	6309.5	6881.7	7821.0	8641.7	9095.3	8973.0	8775.3	8532.5	7947.1	7141.5	6644.6
17.5°	6599.4	7239.4	8026.2	8476.0	8457.2	8163.6	7997.9	8045.0	7945.2	7405.0	6885.5
20°	7196.1	7952.8	8547.6	8430.9	7949.0	7536.8	7440.8	7809.7	8270.9	8065.7	7495.4
22.5°	7981.0	8843.1	9259.1	8560.7	7683.6	7239.4	7220.5	7796.5	8863.8	9065.2	8370.6
25°	8867.6	9872.7	9976.2	8790.4	7655.4	7213.0	7196.1	7999.8	9577.2	10055.3	9351.3
27.5°	9951.8	10911.8	10574.8	9097.2	7779.6	7290.2	7301.5	8346.2	10320.7	11034.1	10456.2
30°	10768.7	11649.6	10943.8	9398.4	7979.1	7425.7	7453.9	8720.7	10721.6	11713.6	11339.0
32.5°	11532.9	12280.2	11297.6	9695.8	8270.9	7627.1	7725.0	9187.6	11203.5	12297.1	12172.9
35°	12378.1	12986.1	11691.0	10013.9	8688.7	7981.0	8122.2	9631.8	11681.6	12880.6	12999.2
37.5°	13336.2	13793.6	12118.3	10463.8	9291.1	8636.0	8715.1	10085.4	12014.8	13526.3	13885.8
40°	14333.8	14699.0	12585.1	11064.2	10166.4	9520.7	9558.4	10667.1	12276.4	14194.5	14746.0
42.5°	15190.2	15474.5	13053.8	11809.6	11171.5	10422.4	10454.4	11293.9	12526.8	14770.5	15434.9
45°	15875.4	16084.3	13496.2	12594.5	12244.4	11548.0	11540.4	11932.0	12861.8	15256.1	15963.9
47.5°	16513.5	16624.6	13989.3	13358.8	13356.9	12997.4	12728.2	12684.9	13307.9	15664.6	16425.0
50°	17243.8	17285.3	14640.6	14130.5	14715.9	14659.4	14162.5	13641.1	13885.8	16123.9	16908.8
52.5°	18260.3	18262.2	15448.1	14883.4	16216.1	16394.9	15817.1	14723.4	14740.4	17018.0	17744.5
55°	19455.6	19538.4	16500.3	15785.1	17785.9	18090.9	17546.9	16009.0	15967.6	18459.8	19099.8
57.5°	20379.8	20818.3	17725.7	16912.6	19252.3	19649.4	19210.9	17341.7	17475.4	19946.8	20217.9
60°	20639.5	21665.4	18947.3	18177.5	20492.7	21089.4	20643.3	18781.7	18951.1	20912.5	20539.8
62.5°	20328.9	21938.3	20191.5	19310.6	21228.7	21800.9	21480.9	19724.7	20153.9	20788.2	19995.8
65°	19408.5	21543.0	21272.0	19792.5	20805.2	21008.5	20923.8	19773.7	20807.1	19613.7	18491.8
67.5°	17258.9	20018.4	20790.1	18762.9	18826.9	18608.5	18497.5	18429.7	20073.0	17718.2	16120.1
70°	14036.4	17200.5	18491.8	15702.2	15227.9	15017.1	14651.9	15555.4	18041.9	15096.1	13266.5
72.5°	10812.0	13159.2	15167.7	11903.7	10917.4	10988.9	10574.8	11894.3	14945.5	11670.3	10128.7
75°	7677.9	8973.0	12107.0	8553.2	7246.9	7243.1	7211.1	8560.7	11792.7	8376.3	7410.7
77.5°	5534.0	6460.1	9485.0	5724.1	5142.5	5208.4	5102.9	5818.2	9193.2	6025.3	5490.7
80°	4414.0	4782.9	6130.7	3817.3	3828.6	3983.0	3960.4	3979.2	6047.9	4363.2	4105.3
82.5°	3171.7	3631.0	4687.0	2925.1	2531.7	2695.5	2727.5	2951.5	4267.2	3085.1	2706.8
85°	1626.3	2213.6	4312.4	2533.6	1583.0	1312.0	1509.6	2328.4	3706.3	1848.4	1319.5
87.5°	316.2	613.6	3160.4	1408.0	711.5	359.5	592.9	986.3	2155.2	335.1	163.8
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°	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6
2.5°	9571.5	9330.6	9104.7	8871.3	8690.6	8470.4	8253.9	8065.7	7883.1	7762.6	7800.3
5°	9338.1	8750.9	8223.8	7734.4	7448.3	7103.8	6797.0	6539.1	6339.6	6211.6	6288.8
7.5°	8274.6	7480.3	6785.7	6140.1	5733.5	5287.4	4929.8	4677.5	4523.2	4436.6	4562.7
10°	7186.7	6294.4	5515.2	4843.2	4442.3	4063.9	3740.2	3472.9	3265.8	3167.9	3218.8
12.5°	6407.4	5415.4	4598.5	4146.7	3802.3	3463.5	3128.4	2815.9	2552.4	2431.9	2407.5
15°	6115.6	4942.9	4109.1	3604.6	3262.0	2893.1	2531.7	2196.7	1946.3	1842.8	1820.2
17.5°	6243.6	4841.3	3819.2	3222.5	2725.6	2277.6	1871.0	1554.8	1370.3	1312.0	1317.6
20°	6693.5	4878.9	3585.8	2829.1	2215.5	1684.7	1278.1	1059.7	980.7	967.5	982.6
22.5°	7310.9	5033.3	3416.4	2490.3	1765.6	1225.4	950.6	847.0	826.3	824.5	839.5
25°	8125.9	5334.5	3303.5	2189.1	1394.8	971.3	828.2	769.9	752.9	756.7	771.7
27.5°	9085.9	5716.6	3230.0	1929.4	1146.3	865.9	773.6	722.8	705.9	709.6	720.9
30°	9963.1	6051.6	3120.9	1733.6	1029.6	828.2	743.5	692.7	670.1	670.1	677.6
32.5°	10748.0	6341.5	2992.9	1586.8	922.3	743.5	673.9	634.3	617.4	623.0	626.8
35°	11444.4	6494.0	2893.1	1500.2	835.7	685.2	615.5	574.1	551.5	555.3	560.9
37.5°	12129.6	6552.3	2827.2	1453.1	773.6	649.4	585.4	551.5	527.0	523.3	521.4
40°	12780.9	6539.1	2765.1	1440.0	732.2	623.0	566.6	536.5	512.0	506.3	504.5
42.5°	13343.7	6495.9	2706.8	1404.2	704.0	604.2	551.5	525.2	500.7	493.2	489.4
45°	13857.6	6469.5	2642.8	1338.3	719.0	596.7	544.0	515.8	493.2	483.8	480.0
47.5°	14427.9	6563.6	2571.2	1266.8	715.3	598.6	544.0	512.0	489.4	480.0	476.2
50°	15107.4	6881.7	2482.8	1168.9	681.4	640.0	542.1	506.3	485.6	480.0	472.5
52.5°	16067.4	7397.5	2360.4	1042.8	655.0	683.3	540.2	496.9	480.0	470.6	461.2
55°	17383.1	7913.2	2202.3	909.2	613.6	653.2	544.0	485.6	466.8	457.4	446.1
57.5°	18461.7	8304.8	2002.8	798.1	576.0	617.4	538.3	472.5	451.8	442.3	432.9
60°	18392.1	8342.4	1812.7	726.6	553.4	555.3	551.5	463.0	438.6	431.0	423.5
62.5°	17253.3	7877.5	1635.7	690.8	536.5	506.3	562.8	451.8	425.4	417.9	412.2
65°	15357.8	6795.1	1541.6	690.8	521.4	480.0	491.3	436.7	412.2	404.7	400.9
67.5°	12954.1	5460.6	1453.1	705.9	500.7	461.2	446.1	421.6	399.0	391.5	387.8
70°	10382.8	4297.3	1391.0	698.3	481.9	440.5	421.6	400.9	378.3	376.5	372.7
72.5°	8144.8	3452.2	1362.8	698.3	453.6	416.0	397.2	382.1	359.5	357.6	352.0
75°	6526.0	2591.9	1246.1	685.2	425.4	384.0	367.1	353.9	331.3	333.2	329.4
77.5°	5054.0	1833.4	1040.9	617.4	389.6	348.2	335.1	325.6	299.3	301.2	301.2
80°	3952.9	1193.4	807.5	512.0	348.2	306.8	297.4	289.9	261.6	265.4	265.4
82.5°	2708.6	709.6	585.4	412.2	299.3	261.6	259.8	248.5	218.3	220.2	224.0
85°	1479.5	466.8	389.6	304.9	235.3	212.7	208.9	203.3	175.1	175.1	176.9
87.5°	272.9	250.3	229.6	201.4	158.1	152.5	146.8	152.5	131.8	128.0	128.0
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°	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6
2.5°	7711.8	7581.9	7491.6	7412.5	7222.4	7235.6	7262.0	7299.6	7181.0	7243.1	7320.3
5°	6211.6	6104.3	6023.4	5897.3	5631.9	5537.8	5477.5	5451.2	5274.2	5311.9	5394.7
7.5°	4579.7	4577.8	4549.5	4408.4	4088.4	3894.5	3766.5	3727.0	3617.8	3659.2	3785.3
10°	3224.4	3258.3	3245.1	3119.0	2832.9	2693.6	2665.4	2744.4	2746.3	2827.2	3043.7
12.5°	2330.3	2311.5	2294.5	2191.0	1976.4	1953.8	2017.8	2127.0	2153.4	2239.9	2465.8
15°	1739.3	1694.1	1684.7	1603.7	1462.6	1483.3	1530.3	1586.8	1588.7	1648.9	1835.3
17.5°	1304.4	1304.4	1319.5	1266.8	1165.1	1155.7	1131.3	1116.2	1093.6	1118.1	1219.7
20°	1012.7	1059.7	1097.4	1067.3	975.0	929.9	882.8	852.7	835.7	837.6	867.7
22.5°	867.7	905.4	954.3	939.3	862.1	803.7	773.6	752.9	739.7	739.7	756.7
25°	794.3	818.8	864.0	856.5	790.6	743.5	719.0	698.3	683.3	681.4	698.3
27.5°	736.0	751.0	781.2	777.4	709.6	679.5	664.5	651.3	641.9	640.0	656.9
30°	683.3	690.8	705.9	700.2	649.4	619.3	613.6	608.0	602.3	604.2	628.7
32.5°	636.2	641.9	651.3	643.8	594.8	568.5	559.0	551.5	545.9	551.5	579.8
35°	583.5	600.5	611.8	608.0	555.3	523.3	502.6	483.8	476.2	481.9	513.9
37.5°	538.3	566.6	581.6	577.9	523.3	485.6	459.3	455.5	455.5	463.0	495.0
40°	521.4	542.1	555.3	549.6	495.0	457.4	442.3	436.7	438.6	446.1	480.0
42.5°	506.3	525.2	528.9	517.6	463.0	438.6	429.2	421.6	425.4	434.8	468.7
45°	493.2	508.2	506.3	489.4	436.7	419.8	419.8	414.1	416.0	423.5	459.3
47.5°	483.8	491.3	487.5	470.6	417.9	404.7	410.3	410.3	414.1	419.8	455.5
50°	468.7	474.3	470.6	455.5	402.8	391.5	397.2	404.7	408.5	414.1	446.1
52.5°	453.6	457.4	455.5	440.5	387.8	380.2	380.2	387.8	395.3	402.8	431.0
55°	438.6	442.3	444.2	432.9	376.5	368.9	367.1	367.1	374.6	385.9	416.0
57.5°	427.3	427.3	431.0	423.5	365.2	355.8	346.3	348.2	357.6	367.1	397.2
60°	414.1	416.0	421.6	414.1	350.1	335.1	327.5	336.9	340.7	350.1	382.1
62.5°	402.8	402.8	406.6	400.9	336.9	321.9	316.2	325.6	325.6	335.1	367.1
65°	393.4	391.5	391.5	389.6	323.8	308.7	304.9	308.7	310.6	320.0	352.0
67.5°	385.9	376.5	376.5	380.2	310.6	295.5	293.6	293.6	295.5	306.8	335.1
70°	368.9	361.4	359.5	372.7	297.4	278.6	278.6	274.8	278.6	284.2	314.3
72.5°	350.1	344.5	342.6	361.4	284.2	259.8	256.0	254.1	256.0	261.6	289.9
75°	325.6	321.9	325.6	353.9	271.1	239.1	233.4	231.5	231.5	233.4	263.5
77.5°	297.4	293.6	321.9	329.4	263.5	214.6	208.9	205.2	201.4	201.4	235.3
80°	263.5	261.6	310.6	278.6	252.2	188.2	178.8	173.2	169.4	167.5	201.4
82.5°	229.6	225.9	265.4	218.3	208.9	154.3	141.2	129.9	124.2	124.2	154.3
85°	188.2	186.3	208.9	160.0	144.9	112.9	94.1	84.7	77.2	77.2	99.8
87.5°	137.4	133.6	129.9	96.0	73.4	50.8	35.8	33.9	30.1	28.2	41.4
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-06-LED-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6	8850.6
2.5°	7435.1	7591.4	7886.9	8129.7	8453.5	8713.2	9008.7	9136.7
5°	5547.2	5793.8	6245.5	6631.4	7166.0	7661.0	8225.7	8534.4
7.5°	3979.2	4344.4	4687.0	5168.8	5837.0	6501.5	7231.8	7640.3
10°	3292.2	3627.2	3920.9	4263.4	4779.2	5526.5	6398.0	6859.1
12.5°	2727.5	3088.9	3399.5	3766.5	4199.4	4875.2	5869.0	6405.5
15°	2091.2	2484.6	2857.3	3299.7	3830.5	4602.2	5710.9	6309.5
17.5°	1432.4	1854.1	2313.4	2853.6	3493.6	4487.4	5861.5	6599.4
20°	973.2	1281.9	1780.7	2420.7	3190.5	4432.8	6192.8	7196.1
22.5°	800.0	939.3	1313.9	2014.1	2942.1	4493.1	6731.1	7981.0
25°	734.1	809.4	1022.1	1656.4	2751.9	4653.1	7459.6	8867.6
27.5°	692.7	756.7	896.0	1400.4	2576.9	4871.4	8346.2	9951.8
30°	668.2	728.5	845.2	1268.7	2416.9	5059.6	9108.5	10768.7
32.5°	613.6	658.8	754.8	1193.4	2302.1	5212.1	9780.5	11532.9
35°	547.8	602.3	681.4	1144.4	2298.3	5283.6	10412.9	12378.1
37.5°	523.3	576.0	634.3	1118.1	2320.9	5343.9	11186.6	13336.2
40°	508.2	555.3	602.3	1114.3	2339.7	5390.9	11943.3	14333.8
42.5°	495.0	542.1	596.7	1088.0	2332.2	5454.9	12613.4	15190.2
45°	491.3	538.3	609.9	1048.4	2330.3	5554.7	13146.1	15875.4
47.5°	487.5	559.0	606.1	1005.2	2322.8	5765.5	13746.5	16513.5
50°	483.8	596.7	579.8	944.9	2266.3	6125.0	14554.0	17243.8
52.5°	481.9	602.3	551.5	862.1	2164.7	6657.7	15736.1	18260.3
55°	474.3	572.2	502.6	752.9	2017.8	7231.8	17002.9	19455.6
57.5°	457.4	510.1	474.3	645.6	1807.0	7632.8	17938.4	20379.8
60°	498.8	438.6	455.5	591.0	1554.8	7704.3	17979.8	20639.5
62.5°	476.2	399.0	436.7	572.2	1377.9	7237.5	17157.3	20328.9
65°	380.2	378.3	419.8	591.0	1351.5	6192.8	15768.1	19408.5
67.5°	346.3	363.3	402.8	613.6	1368.4	4878.9	13723.9	17258.9
70°	323.8	344.5	380.2	634.3	1398.6	3843.7	11049.2	14036.4
72.5°	301.2	318.1	357.6	655.0	1377.9	3032.4	8843.1	10812.0
75°	272.9	288.0	325.6	600.5	1182.1	2228.7	7026.7	7677.9
77.5°	240.9	254.1	286.1	474.3	888.5	1551.0	5262.9	5534.0
80°	207.1	212.7	237.2	346.3	579.8	928.0	4005.6	4414.0
82.5°	163.8	165.6	180.7	254.1	361.4	592.9	2778.3	3171.7
85°	105.4	109.2	116.7	178.8	242.8	380.2	1419.3	1626.3
87.5°	35.8	41.4	41.4	86.6	118.6	210.8	434.8	316.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)