

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: P195254

Luminaire Tested: **NVN-AF-02-LED-U-SLL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P195254
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-7060
Description: NAVION ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 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: 10758 lumens
Efficiency: N/A
Efficacy: 95.2 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): 113
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

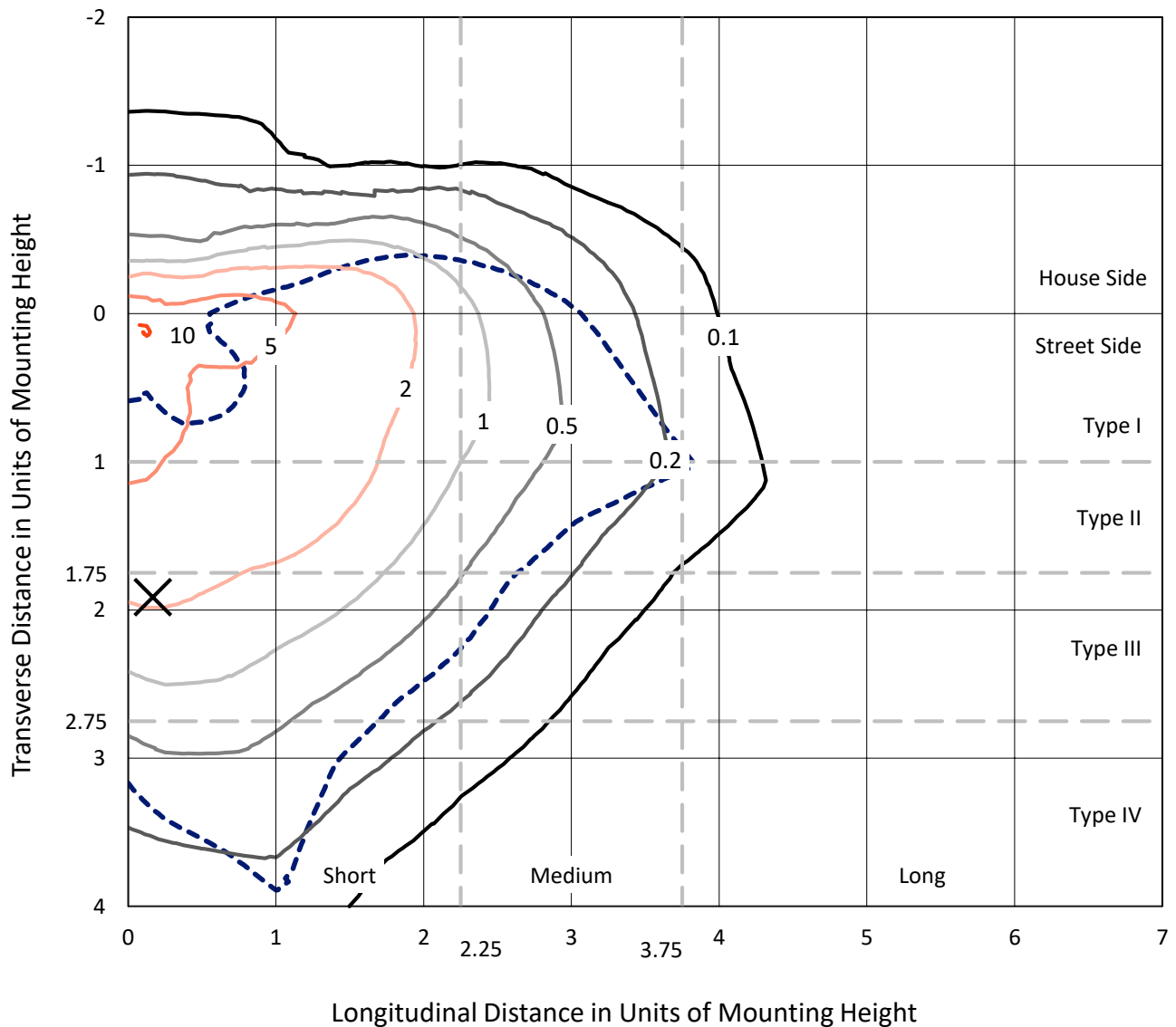


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Iso-Footcandle Lines of Horizontal Illumination

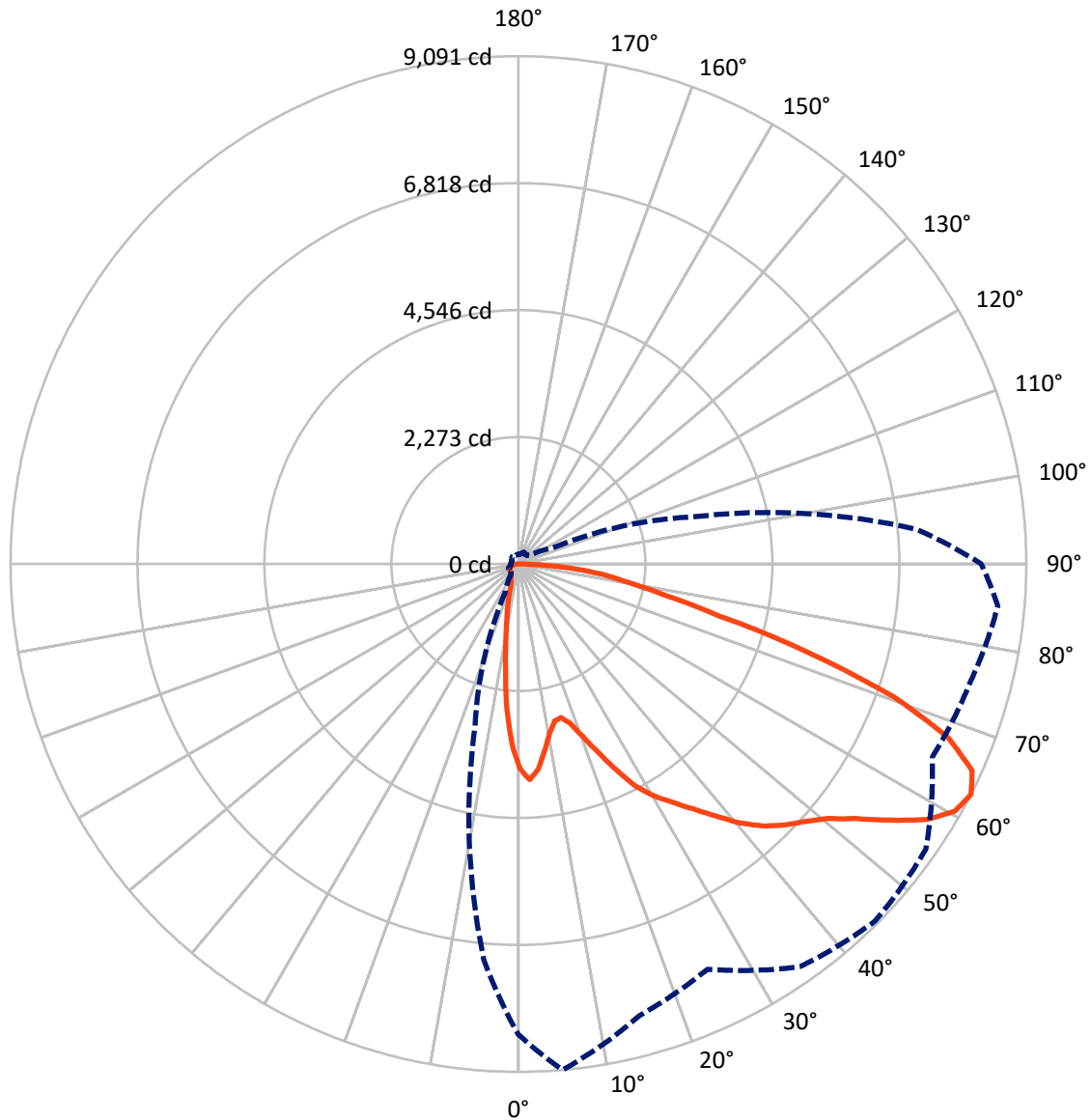
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.5 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 | 1905.8 | 0.0 | 1905.8 |
| | % Fixture | 17.7 | 0.0 | 17.7 |
| Street Side | Lumens | 8852.2 | 0.0 | 8852.2 |
| | % Fixture | 82.3 | 0.0 | 82.3 |
| Total | Lumens | 10758.0 | 0.0 | 10758.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 266.7 | 2.5 |
| 10°-20° | 487.2 | 4.5 |
| 20°-30° | 700.7 | 6.5 |
| 30°-40° | 1073.2 | 10.0 |
| 40°-50° | 1569.0 | 14.6 |
| 50°-60° | 2282.9 | 21.2 |
| 60°-70° | 2645.1 | 24.6 |
| 70°-80° | 1378.8 | 12.8 |
| 80°-90° | 354.4 | 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° | 10758.0 | 100.0 |
| 0°-180° | 10758.0 | 100.0 |

Coefficient of Utilization



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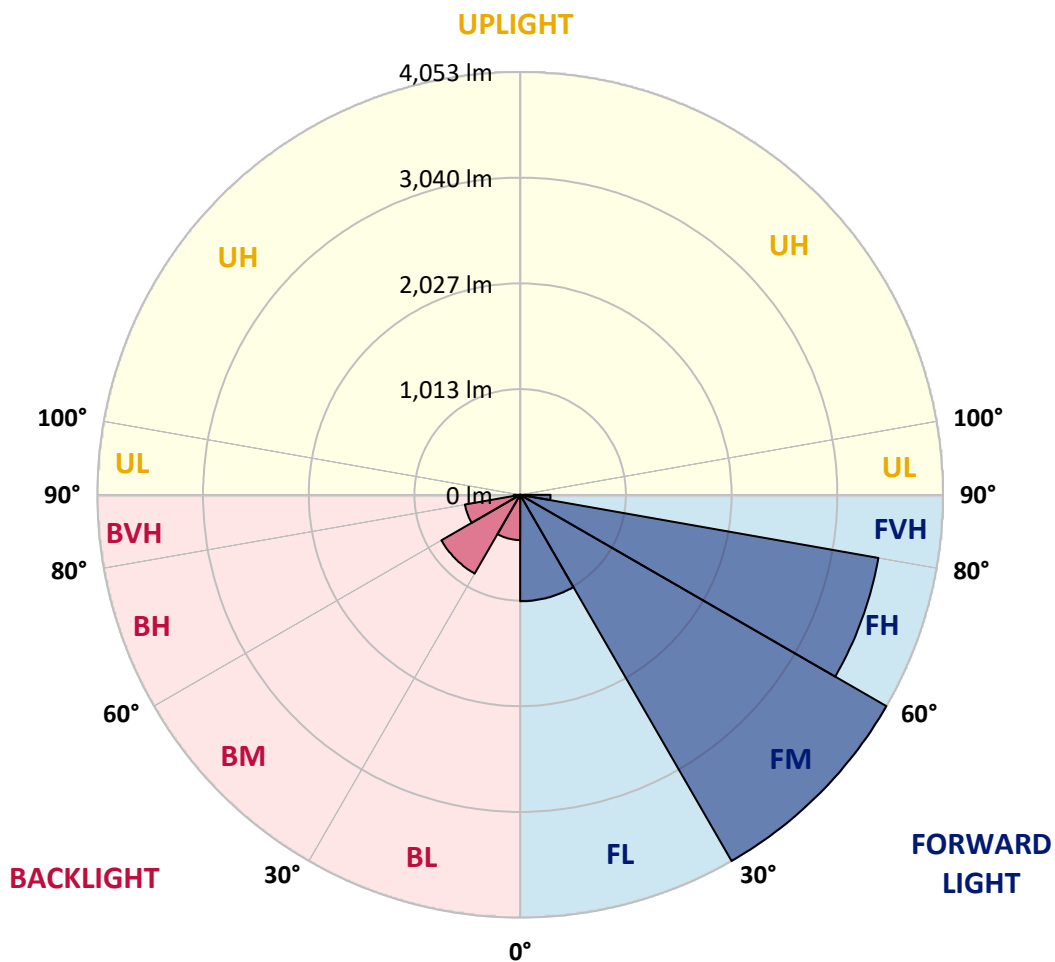
CATALOG NUMBER: NVN-AF-02-LED-U-SLL-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1021.0 | 9.5 | | | |
| FM | (30°-60°) | 4053.1 | 37.7 | | | |
| FH | (60°-80°) | 3486.5 | 32.4 | | | G2/5000 |
| FVH | (80°-90°) | 291.6 | 2.7 | | | G3/500 |
| BL | (0°-30°) | 433.6 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 872.0 | 8.1 | B1/1000 | | |
| BH | (60°-80°) | 537.4 | 5.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 62.8 | 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° | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 |
| 2.5° | 3786.2 | 3866.5 | 3958.6 | 4078.7 | 4160.6 | 4193.3 | 4220.6 | 4174.6 | 4130.2 | 4046.7 | 4017.1 |
| 5° | 3536.6 | 3691.0 | 3944.5 | 4185.5 | 4397.7 | 4519.4 | 4556.8 | 4471.8 | 4320.5 | 4102.1 | 3986.6 |
| 7.5° | 3166.1 | 3369.7 | 3726.1 | 4081.0 | 4385.2 | 4588.0 | 4602.9 | 4434.4 | 4136.4 | 3778.4 | 3591.2 |
| 10° | 2842.4 | 3072.5 | 3485.1 | 3882.1 | 4204.3 | 4411.7 | 4371.2 | 4134.8 | 3775.3 | 3368.1 | 3156.7 |
| 12.5° | 2654.4 | 2884.5 | 3304.9 | 3708.2 | 4011.6 | 4090.4 | 4007.7 | 3808.8 | 3467.9 | 3060.0 | 2847.0 |
| 15° | 2614.6 | 2851.7 | 3240.9 | 3581.0 | 3769.0 | 3718.3 | 3636.4 | 3535.8 | 3293.2 | 2959.4 | 2753.4 |
| 17.5° | 2734.7 | 2999.9 | 3326.0 | 3512.4 | 3504.6 | 3382.9 | 3314.3 | 3333.8 | 3292.4 | 3068.6 | 2853.3 |
| 20° | 2982.0 | 3295.6 | 3542.0 | 3493.7 | 3294.0 | 3123.2 | 3083.4 | 3236.3 | 3427.4 | 3342.4 | 3106.0 |
| 22.5° | 3307.3 | 3664.5 | 3836.9 | 3547.5 | 3184.0 | 2999.9 | 2992.1 | 3230.8 | 3673.1 | 3756.5 | 3468.7 |
| 25° | 3674.6 | 4091.2 | 4134.1 | 3642.7 | 3172.3 | 2989.0 | 2982.0 | 3315.1 | 3968.7 | 4166.8 | 3875.1 |
| 27.5° | 4123.9 | 4521.7 | 4382.1 | 3769.8 | 3223.8 | 3021.0 | 3025.7 | 3458.6 | 4276.8 | 4572.4 | 4333.0 |
| 30° | 4462.4 | 4827.5 | 4535.0 | 3894.6 | 3306.5 | 3077.1 | 3088.8 | 3613.8 | 4442.9 | 4854.0 | 4698.8 |
| 32.5° | 4779.1 | 5088.8 | 4681.6 | 4017.8 | 3427.4 | 3160.6 | 3201.2 | 3807.2 | 4642.6 | 5095.8 | 5044.3 |
| 35° | 5129.4 | 5381.3 | 4844.7 | 4149.7 | 3600.5 | 3307.3 | 3365.8 | 3991.3 | 4840.8 | 5337.6 | 5386.8 |
| 37.5° | 5526.4 | 5715.9 | 5021.7 | 4336.1 | 3850.1 | 3578.7 | 3611.5 | 4179.3 | 4978.8 | 5605.2 | 5754.1 |
| 40° | 5939.8 | 6091.1 | 5215.2 | 4584.9 | 4212.8 | 3945.3 | 3960.9 | 4420.3 | 5087.2 | 5882.1 | 6110.6 |
| 42.5° | 6294.7 | 6412.5 | 5409.4 | 4893.8 | 4629.4 | 4318.9 | 4332.2 | 4680.1 | 5191.0 | 6120.8 | 6396.1 |
| 45° | 6578.6 | 6665.2 | 5592.7 | 5219.1 | 5074.0 | 4785.4 | 4782.3 | 4944.5 | 5329.8 | 6322.0 | 6615.3 |
| 47.5° | 6843.0 | 6889.1 | 5797.0 | 5535.7 | 5535.0 | 5386.0 | 5274.4 | 5256.5 | 5514.7 | 6491.3 | 6806.4 |
| 50° | 7145.7 | 7162.9 | 6066.9 | 5855.6 | 6098.1 | 6074.7 | 5868.8 | 5652.7 | 5754.1 | 6681.6 | 7006.8 |
| 52.5° | 7566.9 | 7567.7 | 6401.6 | 6167.6 | 6719.8 | 6793.9 | 6554.4 | 6101.3 | 6108.3 | 7052.1 | 7353.2 |
| 55° | 8062.2 | 8096.5 | 6837.6 | 6541.2 | 7370.3 | 7496.7 | 7271.3 | 6634.0 | 6616.8 | 7649.6 | 7914.8 |
| 57.5° | 8445.2 | 8626.9 | 7345.4 | 7008.4 | 7978.0 | 8142.5 | 7960.8 | 7186.3 | 7241.6 | 8265.8 | 8378.1 |
| 60° | 8552.8 | 8977.9 | 7851.6 | 7532.6 | 8492.0 | 8739.3 | 8554.4 | 7783.0 | 7853.2 | 8665.9 | 8511.5 |
| 62.5° | 8424.1 | 9091.0 | 8367.2 | 8002.1 | 8797.0 | 9034.1 | 8901.5 | 8173.7 | 8351.6 | 8614.5 | 8286.1 |
| 65° | 8042.7 | 8927.2 | 8814.9 | 8201.8 | 8621.5 | 8705.7 | 8670.6 | 8194.0 | 8622.3 | 8127.7 | 7662.8 |
| 67.5° | 7151.9 | 8295.4 | 8615.2 | 7775.2 | 7801.7 | 7711.2 | 7665.2 | 7637.1 | 8318.0 | 7342.3 | 6680.0 |
| 70° | 5816.5 | 7127.7 | 7662.8 | 6506.9 | 6310.3 | 6222.9 | 6071.6 | 6446.0 | 7476.4 | 6255.7 | 5497.5 |
| 72.5° | 4480.4 | 5453.1 | 6285.3 | 4932.8 | 4524.1 | 4553.7 | 4382.1 | 4928.9 | 6193.3 | 4836.1 | 4197.2 |
| 75° | 3181.7 | 3718.3 | 5017.0 | 3544.4 | 3003.0 | 3001.5 | 2988.2 | 3547.5 | 4886.8 | 3471.1 | 3070.9 |
| 77.5° | 2293.2 | 2677.0 | 3930.5 | 2372.0 | 2131.0 | 2158.3 | 2114.6 | 2411.0 | 3809.6 | 2496.8 | 2275.3 |
| 80° | 1829.1 | 1982.0 | 2540.5 | 1581.9 | 1586.5 | 1650.5 | 1641.1 | 1648.9 | 2506.2 | 1808.1 | 1701.2 |
| 82.5° | 1314.3 | 1504.6 | 1942.2 | 1212.1 | 1049.1 | 1117.0 | 1130.2 | 1223.1 | 1768.3 | 1278.4 | 1121.7 |
| 85° | 673.9 | 917.3 | 1787.0 | 1049.9 | 656.0 | 543.7 | 625.6 | 964.9 | 1535.8 | 766.0 | 546.8 |
| 87.5° | 131.0 | 254.3 | 1309.6 | 583.4 | 294.8 | 149.0 | 245.7 | 408.7 | 893.1 | 138.8 | 67.9 |
| 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: NVN-AF-02-LED-U-SLL-7060

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° | 185° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 |
| 2.5° | 3966.4 | 3866.5 | 3772.9 | 3676.2 | 3601.3 | 3510.1 | 3420.4 | 3342.4 | 3266.7 | 3216.8 | 3232.4 |
| 5° | 3869.6 | 3626.3 | 3407.9 | 3205.1 | 3086.5 | 2943.8 | 2816.6 | 2709.8 | 2627.1 | 2574.0 | 2606.0 |
| 7.5° | 3428.9 | 3099.8 | 2811.9 | 2544.4 | 2375.9 | 2191.1 | 2042.9 | 1938.3 | 1874.4 | 1838.5 | 1890.7 |
| 10° | 2978.1 | 2608.4 | 2285.4 | 2007.0 | 1840.8 | 1684.0 | 1549.9 | 1439.1 | 1353.3 | 1312.8 | 1333.8 |
| 12.5° | 2655.2 | 2244.1 | 1905.6 | 1718.4 | 1575.6 | 1435.2 | 1296.4 | 1166.9 | 1057.7 | 1007.8 | 997.6 |
| 15° | 2534.3 | 2048.3 | 1702.8 | 1493.7 | 1351.8 | 1198.9 | 1049.1 | 910.3 | 806.5 | 763.6 | 754.3 |
| 17.5° | 2587.3 | 2006.2 | 1582.6 | 1335.4 | 1129.5 | 943.8 | 775.3 | 644.3 | 567.8 | 543.7 | 546.0 |
| 20° | 2773.7 | 2021.8 | 1485.9 | 1172.4 | 918.1 | 698.1 | 529.6 | 439.1 | 406.4 | 400.9 | 407.2 |
| 22.5° | 3029.6 | 2085.8 | 1415.7 | 1032.0 | 731.7 | 507.8 | 393.9 | 351.0 | 342.4 | 341.6 | 347.9 |
| 25° | 3367.3 | 2210.6 | 1368.9 | 907.2 | 578.0 | 402.5 | 343.2 | 319.0 | 312.0 | 313.6 | 319.8 |
| 27.5° | 3765.1 | 2368.9 | 1338.5 | 799.5 | 475.0 | 358.8 | 320.6 | 299.5 | 292.5 | 294.1 | 298.7 |
| 30° | 4128.6 | 2507.7 | 1293.3 | 718.4 | 426.7 | 343.2 | 308.1 | 287.0 | 277.7 | 277.7 | 280.8 |
| 32.5° | 4453.9 | 2627.9 | 1240.2 | 657.6 | 382.2 | 308.1 | 279.2 | 262.9 | 255.8 | 258.2 | 259.7 |
| 35° | 4742.5 | 2691.0 | 1198.9 | 621.7 | 346.3 | 283.9 | 255.1 | 237.9 | 228.5 | 230.1 | 232.4 |
| 37.5° | 5026.4 | 2715.2 | 1171.6 | 602.2 | 320.6 | 269.1 | 242.6 | 228.5 | 218.4 | 216.8 | 216.1 |
| 40° | 5296.3 | 2709.8 | 1145.8 | 596.7 | 303.4 | 258.2 | 234.8 | 222.3 | 212.2 | 209.8 | 209.0 |
| 42.5° | 5529.5 | 2691.8 | 1121.7 | 581.9 | 291.7 | 250.4 | 228.5 | 217.6 | 207.5 | 204.4 | 202.8 |
| 45° | 5742.4 | 2680.9 | 1095.1 | 554.6 | 298.0 | 247.3 | 225.4 | 213.7 | 204.4 | 200.5 | 198.9 |
| 47.5° | 5978.8 | 2719.9 | 1065.5 | 524.9 | 296.4 | 248.0 | 225.4 | 212.2 | 202.8 | 198.9 | 197.3 |
| 50° | 6260.4 | 2851.7 | 1028.8 | 484.4 | 282.4 | 265.2 | 224.6 | 209.8 | 201.2 | 198.9 | 195.8 |
| 52.5° | 6658.2 | 3065.4 | 978.1 | 432.1 | 271.4 | 283.1 | 223.9 | 205.9 | 198.9 | 195.0 | 191.1 |
| 55° | 7203.4 | 3279.2 | 912.6 | 376.7 | 254.3 | 270.7 | 225.4 | 201.2 | 193.4 | 189.5 | 184.9 |
| 57.5° | 7650.4 | 3441.4 | 829.9 | 330.7 | 238.7 | 255.8 | 223.1 | 195.8 | 187.2 | 183.3 | 179.4 |
| 60° | 7621.5 | 3457.0 | 751.2 | 301.1 | 229.3 | 230.1 | 228.5 | 191.9 | 181.7 | 178.6 | 175.5 |
| 62.5° | 7149.6 | 3264.4 | 677.8 | 286.3 | 222.3 | 209.8 | 233.2 | 187.2 | 176.3 | 173.2 | 170.8 |
| 65° | 6364.1 | 2815.8 | 638.8 | 286.3 | 216.1 | 198.9 | 203.6 | 181.0 | 170.8 | 167.7 | 166.1 |
| 67.5° | 5368.0 | 2262.8 | 602.2 | 292.5 | 207.5 | 191.1 | 184.9 | 174.7 | 165.4 | 162.2 | 160.7 |
| 70° | 4302.5 | 1780.8 | 576.4 | 289.4 | 199.7 | 182.5 | 174.7 | 166.1 | 156.8 | 156.0 | 154.4 |
| 72.5° | 3375.1 | 1430.5 | 564.7 | 289.4 | 188.0 | 172.4 | 164.6 | 158.3 | 149.0 | 148.2 | 145.9 |
| 75° | 2704.3 | 1074.1 | 516.4 | 283.9 | 176.3 | 159.1 | 152.1 | 146.6 | 137.3 | 138.1 | 136.5 |
| 77.5° | 2094.3 | 759.7 | 431.3 | 255.8 | 161.5 | 144.3 | 138.8 | 134.9 | 124.0 | 124.8 | 124.8 |
| 80° | 1638.0 | 494.5 | 334.6 | 212.2 | 144.3 | 127.1 | 123.2 | 120.1 | 108.4 | 110.0 | 110.0 |
| 82.5° | 1122.4 | 294.1 | 242.6 | 170.8 | 124.0 | 108.4 | 107.6 | 103.0 | 90.5 | 91.3 | 92.8 |
| 85° | 613.1 | 193.4 | 161.5 | 126.4 | 97.5 | 88.1 | 86.6 | 84.2 | 72.5 | 72.5 | 73.3 |
| 87.5° | 113.1 | 103.7 | 95.2 | 83.5 | 65.5 | 63.2 | 60.8 | 63.2 | 54.6 | 53.0 | 53.0 |
| 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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CATALOG NUMBER: NVN-AF-02-LED-U-SLL-7060

CANDELA DISTRIBUTION (continued):

| | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° | 285° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 | 3667.6 |
| 2.5° | 3195.7 | 3141.9 | 3104.4 | 3071.7 | 2992.9 | 2998.4 | 3009.3 | 3024.9 | 2975.7 | 3001.5 | 3033.5 |
| 5° | 2574.0 | 2529.6 | 2496.0 | 2443.8 | 2333.8 | 2294.8 | 2269.8 | 2258.9 | 2185.6 | 2201.2 | 2235.5 |
| 7.5° | 1897.8 | 1897.0 | 1885.3 | 1826.8 | 1694.2 | 1613.8 | 1560.8 | 1544.4 | 1499.2 | 1516.3 | 1568.6 |
| 10° | 1336.2 | 1350.2 | 1344.7 | 1292.5 | 1173.9 | 1116.2 | 1104.5 | 1137.3 | 1138.0 | 1171.6 | 1261.3 |
| 12.5° | 965.7 | 957.9 | 950.8 | 907.9 | 819.0 | 809.7 | 836.2 | 881.4 | 892.3 | 928.2 | 1021.8 |
| 15° | 720.7 | 702.0 | 698.1 | 664.6 | 606.1 | 614.6 | 634.1 | 657.6 | 658.3 | 683.3 | 760.5 |
| 17.5° | 540.5 | 540.5 | 546.8 | 524.9 | 482.8 | 478.9 | 468.8 | 462.5 | 453.2 | 463.3 | 505.4 |
| 20° | 419.6 | 439.1 | 454.7 | 442.3 | 404.0 | 385.3 | 365.8 | 353.3 | 346.3 | 347.1 | 359.6 |
| 22.5° | 359.6 | 375.2 | 395.5 | 389.2 | 357.2 | 333.1 | 320.6 | 312.0 | 306.5 | 306.5 | 313.6 |
| 25° | 329.2 | 339.3 | 358.0 | 354.9 | 327.6 | 308.1 | 298.0 | 289.4 | 283.1 | 282.4 | 289.4 |
| 27.5° | 305.0 | 311.2 | 323.7 | 322.1 | 294.1 | 281.6 | 275.3 | 269.9 | 266.0 | 265.2 | 272.2 |
| 30° | 283.1 | 286.3 | 292.5 | 290.2 | 269.1 | 256.6 | 254.3 | 251.9 | 249.6 | 250.4 | 260.5 |
| 32.5° | 263.6 | 266.0 | 269.9 | 266.8 | 246.5 | 235.6 | 231.7 | 228.5 | 226.2 | 228.5 | 240.2 |
| 35° | 241.8 | 248.8 | 253.5 | 251.9 | 230.1 | 216.8 | 208.3 | 200.5 | 197.3 | 199.7 | 212.9 |
| 37.5° | 223.1 | 234.8 | 241.0 | 239.5 | 216.8 | 201.2 | 190.3 | 188.8 | 188.8 | 191.9 | 205.1 |
| 40° | 216.1 | 224.6 | 230.1 | 227.8 | 205.1 | 189.5 | 183.3 | 181.0 | 181.7 | 184.9 | 198.9 |
| 42.5° | 209.8 | 217.6 | 219.2 | 214.5 | 191.9 | 181.7 | 177.8 | 174.7 | 176.3 | 180.2 | 194.2 |
| 45° | 204.4 | 210.6 | 209.8 | 202.8 | 181.0 | 173.9 | 173.9 | 171.6 | 172.4 | 175.5 | 190.3 |
| 47.5° | 200.5 | 203.6 | 202.0 | 195.0 | 173.2 | 167.7 | 170.0 | 170.0 | 171.6 | 173.9 | 188.8 |
| 50° | 194.2 | 196.6 | 195.0 | 188.8 | 166.9 | 162.2 | 164.6 | 167.7 | 169.3 | 171.6 | 184.9 |
| 52.5° | 188.0 | 189.5 | 188.8 | 182.5 | 160.7 | 157.6 | 157.6 | 160.7 | 163.8 | 166.9 | 178.6 |
| 55° | 181.7 | 183.3 | 184.1 | 179.4 | 156.0 | 152.9 | 152.1 | 152.1 | 155.2 | 159.9 | 172.4 |
| 57.5° | 177.1 | 177.1 | 178.6 | 175.5 | 151.3 | 147.4 | 143.5 | 144.3 | 148.2 | 152.1 | 164.6 |
| 60° | 171.6 | 172.4 | 174.7 | 171.6 | 145.1 | 138.8 | 135.7 | 139.6 | 141.2 | 145.1 | 158.3 |
| 62.5° | 166.9 | 166.9 | 168.5 | 166.1 | 139.6 | 133.4 | 131.0 | 134.9 | 134.9 | 138.8 | 152.1 |
| 65° | 163.0 | 162.2 | 162.2 | 161.5 | 134.2 | 127.9 | 126.4 | 127.9 | 128.7 | 132.6 | 145.9 |
| 67.5° | 159.9 | 156.0 | 156.0 | 157.6 | 128.7 | 122.5 | 121.7 | 121.7 | 122.5 | 127.1 | 138.8 |
| 70° | 152.9 | 149.8 | 149.0 | 154.4 | 123.2 | 115.4 | 115.4 | 113.9 | 115.4 | 117.8 | 130.3 |
| 72.5° | 145.1 | 142.7 | 142.0 | 149.8 | 117.8 | 107.6 | 106.1 | 105.3 | 106.1 | 108.4 | 120.1 |
| 75° | 134.9 | 133.4 | 134.9 | 146.6 | 112.3 | 99.1 | 96.7 | 95.9 | 95.9 | 96.7 | 109.2 |
| 77.5° | 123.2 | 121.7 | 133.4 | 136.5 | 109.2 | 88.9 | 86.6 | 85.0 | 83.5 | 83.5 | 97.5 |
| 80° | 109.2 | 108.4 | 128.7 | 115.4 | 104.5 | 78.0 | 74.1 | 71.8 | 70.2 | 69.4 | 83.5 |
| 82.5° | 95.2 | 93.6 | 110.0 | 90.5 | 86.6 | 64.0 | 58.5 | 53.8 | 51.5 | 51.5 | 64.0 |
| 85° | 78.0 | 77.2 | 86.6 | 66.3 | 60.1 | 46.8 | 39.0 | 35.1 | 32.0 | 32.0 | 41.3 |
| 87.5° | 56.9 | 55.4 | 53.8 | 39.8 | 30.4 | 21.1 | 14.8 | 14.0 | 12.5 | 11.7 | 17.2 |
| 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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| 2.5° | 3081.0 | 3145.8 | 3268.3 | 3368.9 | 3503.0 | 3610.7 | 3733.1 | 3786.2 |
| 5° | 2298.7 | 2400.9 | 2588.1 | 2748.0 | 2969.5 | 3174.6 | 3408.7 | 3536.6 |
| 7.5° | 1648.9 | 1800.3 | 1942.2 | 2141.9 | 2418.8 | 2694.2 | 2996.8 | 3166.1 |
| 10° | 1364.2 | 1503.1 | 1624.8 | 1766.7 | 1980.5 | 2290.1 | 2651.3 | 2842.4 |
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| 17.5° | 593.6 | 768.3 | 958.6 | 1182.5 | 1447.7 | 1859.5 | 2429.0 | 2734.7 |
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| 22.5° | 331.5 | 389.2 | 544.4 | 834.6 | 1219.2 | 1861.9 | 2789.3 | 3307.3 |
| 25° | 304.2 | 335.4 | 423.5 | 686.4 | 1140.4 | 1928.2 | 3091.2 | 3674.6 |
| 27.5° | 287.0 | 313.6 | 371.3 | 580.3 | 1067.8 | 2018.7 | 3458.6 | 4123.9 |
| 30° | 276.9 | 301.9 | 350.2 | 525.7 | 1001.5 | 2096.7 | 3774.5 | 4462.4 |
| 32.5° | 254.3 | 273.0 | 312.8 | 494.5 | 954.0 | 2159.9 | 4052.9 | 4779.1 |
| 35° | 227.0 | 249.6 | 282.4 | 474.2 | 952.4 | 2189.5 | 4315.0 | 5129.4 |
| 37.5° | 216.8 | 238.7 | 262.9 | 463.3 | 961.8 | 2214.5 | 4635.6 | 5526.4 |
| 40° | 210.6 | 230.1 | 249.6 | 461.8 | 969.6 | 2234.0 | 4949.2 | 5939.8 |
| 42.5° | 205.1 | 224.6 | 247.3 | 450.8 | 966.4 | 2260.5 | 5226.9 | 6294.7 |
| 45° | 203.6 | 223.1 | 252.7 | 434.5 | 965.7 | 2301.8 | 5447.6 | 6578.6 |
| 47.5° | 202.0 | 231.7 | 251.2 | 416.5 | 962.5 | 2389.2 | 5696.4 | 6843.0 |
| 50° | 200.5 | 247.3 | 240.2 | 391.6 | 939.1 | 2538.2 | 6031.1 | 7145.7 |
| 52.5° | 199.7 | 249.6 | 228.5 | 357.2 | 897.0 | 2758.9 | 6520.9 | 7566.9 |
| 55° | 196.6 | 237.1 | 208.3 | 312.0 | 836.2 | 2996.8 | 7045.8 | 8062.2 |
| 57.5° | 189.5 | 211.4 | 196.6 | 267.5 | 748.8 | 3162.9 | 7433.5 | 8445.2 |
| 60° | 206.7 | 181.7 | 188.8 | 244.9 | 644.3 | 3192.6 | 7450.7 | 8552.8 |
| 62.5° | 197.3 | 165.4 | 181.0 | 237.1 | 571.0 | 2999.1 | 7109.8 | 8424.1 |
| 65° | 157.6 | 156.8 | 173.9 | 244.9 | 560.0 | 2566.2 | 6534.2 | 8042.7 |
| 67.5° | 143.5 | 150.5 | 166.9 | 254.3 | 567.1 | 2021.8 | 5687.1 | 7151.9 |
| 70° | 134.2 | 142.7 | 157.6 | 262.9 | 579.5 | 1592.8 | 4578.7 | 5816.5 |
| 72.5° | 124.8 | 131.8 | 148.2 | 271.4 | 571.0 | 1256.6 | 3664.5 | 4480.4 |
| 75° | 113.1 | 119.3 | 134.9 | 248.8 | 489.8 | 923.5 | 2911.8 | 3181.7 |
| 77.5° | 99.8 | 105.3 | 118.6 | 196.6 | 368.2 | 642.7 | 2180.9 | 2293.2 |
| 80° | 85.8 | 88.1 | 98.3 | 143.5 | 240.2 | 384.5 | 1659.9 | 1829.1 |
| 82.5° | 67.9 | 68.6 | 74.9 | 105.3 | 149.8 | 245.7 | 1151.3 | 1314.3 |
| 85° | 43.7 | 45.2 | 48.4 | 74.1 | 100.6 | 157.6 | 588.1 | 673.9 |
| 87.5° | 14.8 | 17.2 | 17.2 | 35.9 | 49.1 | 87.4 | 180.2 | 131.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)