

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: P196288

Luminaire Tested: **NVN-AF-04-LED-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24459)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-04-LED-U-T2R
Description: NAVION ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26152.8 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

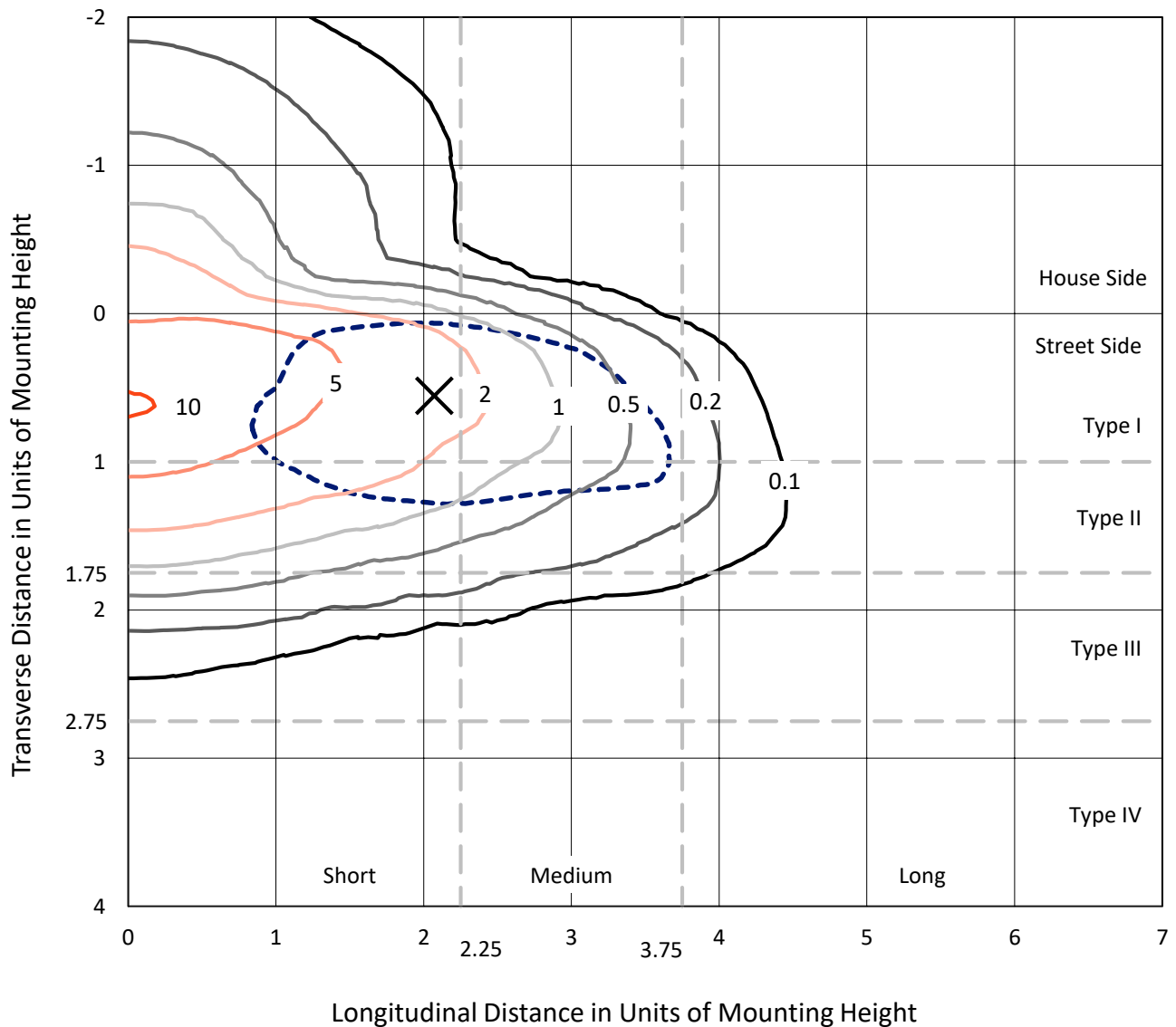
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

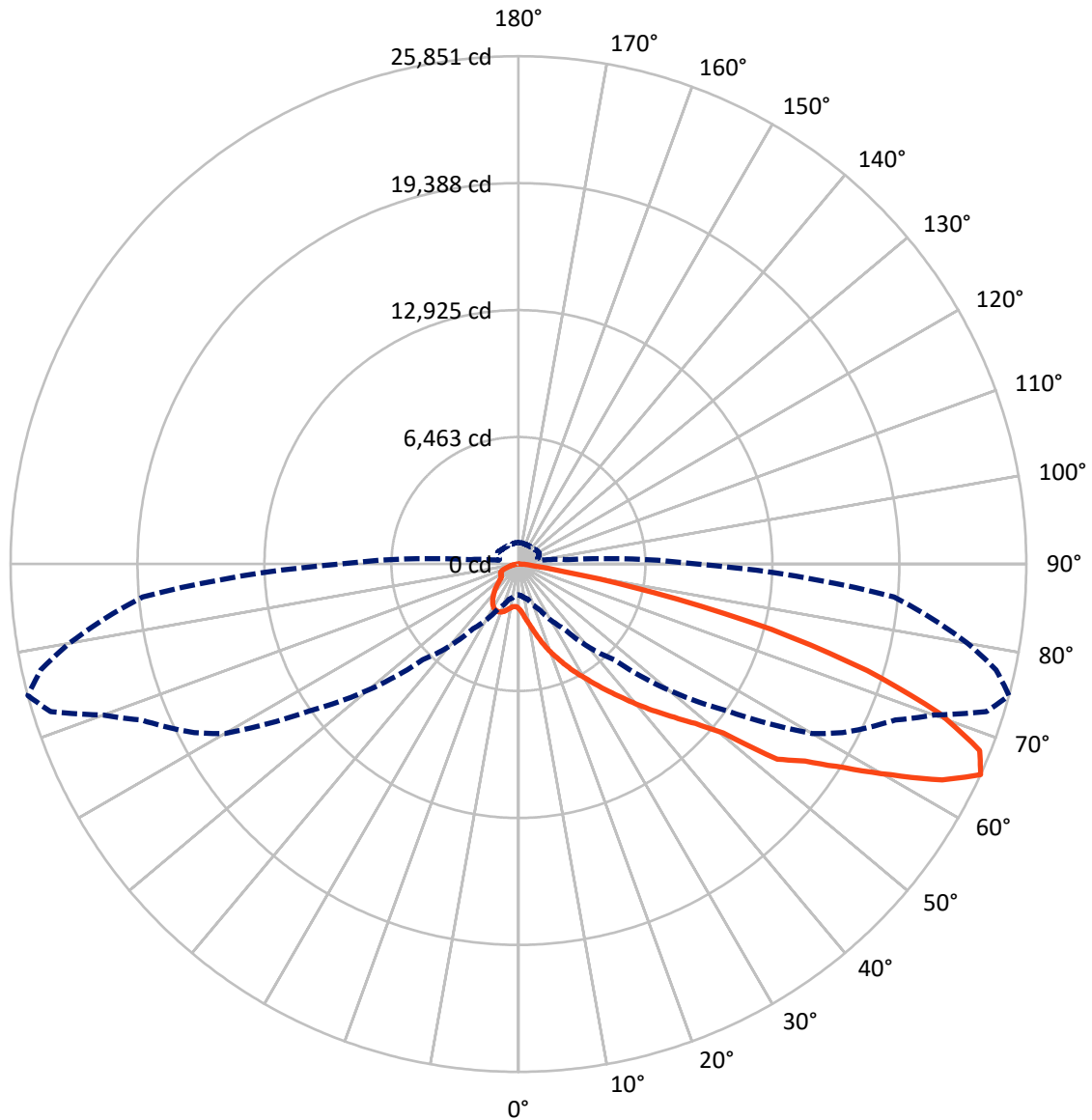
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3929.8 | 0.0 | 3929.8 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 22222.9 | 0.0 | 22222.9 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 26152.8 | 0.0 | 26152.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 267.5 | 1.0 |
| 10°-20° | 1021.8 | 3.9 |
| 20°-30° | 2062.0 | 7.9 |
| 30°-40° | 3501.9 | 13.4 |
| 40°-50° | 4884.3 | 18.7 |
| 50°-60° | 5986.3 | 22.9 |
| 60°-70° | 5632.3 | 21.5 |
| 70°-80° | 2469.7 | 9.4 |
| 80°-90° | 326.8 | 1.2 |
| 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° | 26152.8 | 100.0 |
| 0°-180° | 26152.8 | 100.0 |



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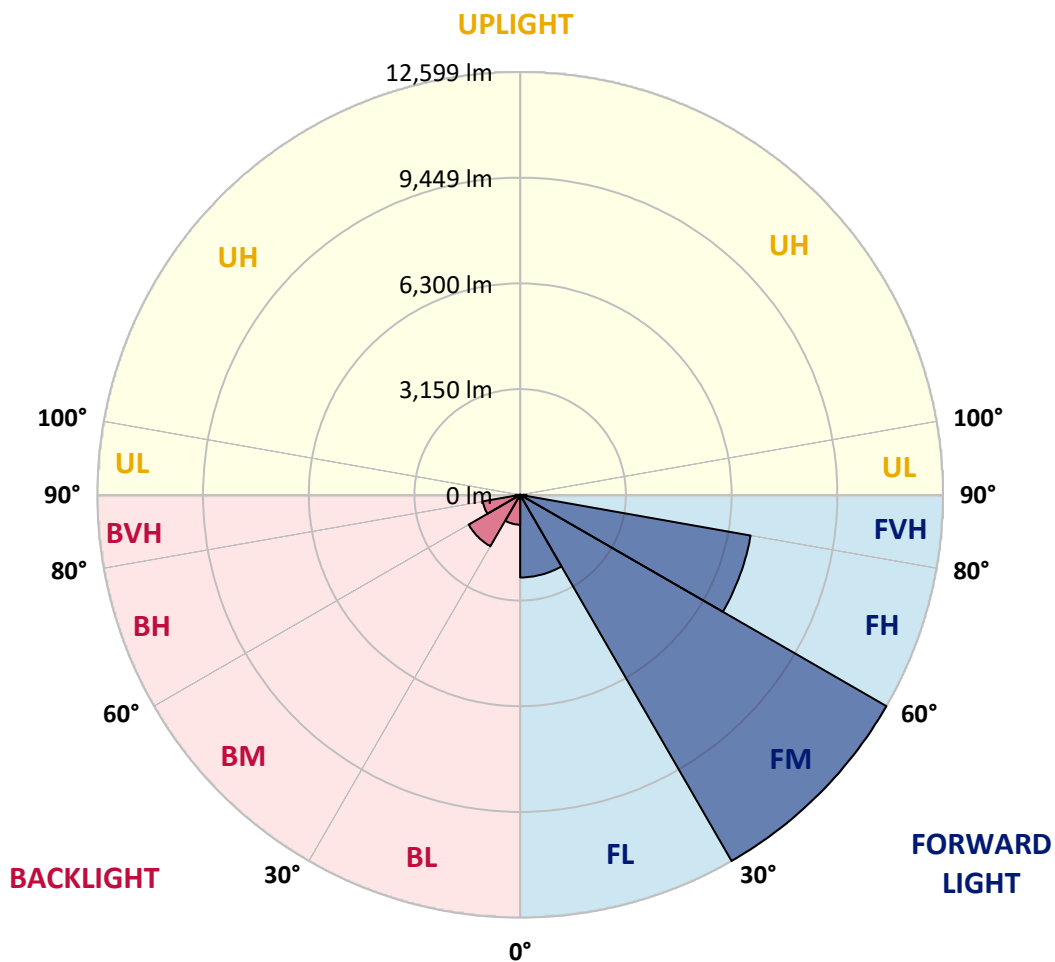
CATALOG NUMBER: NVN-AF-04-LED-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2461.7 | 9.4 | | | |
| FM (30°-60°) | 12599.2 | 48.2 | | | |
| FH (60°-80°) | 6972.6 | 26.7 | | | G3/7500 |
| FVH (80°-90°) | 189.4 | 0.7 | | | G2/225 |
| BL (0°-30°) | 889.6 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1773.4 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 1129.5 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 137.3 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CATALOG NUMBER: NVN-AF-04-LED-U-T2R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57.5° | 60° | 62.5° | 65° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 |
| 2.5° | 2853.3 | 2820.0 | 2823.3 | 2776.7 | 2708.6 | 2633.7 | 2572.1 | 2538.9 | 2510.5 | 2502.2 | 2455.6 |
| 5° | 3731.7 | 3690.1 | 3675.2 | 3568.7 | 3409.0 | 3219.3 | 3031.3 | 2958.1 | 2898.2 | 2861.6 | 2771.8 |
| 7.5° | 4450.4 | 4428.8 | 4408.8 | 4310.7 | 4152.7 | 3909.7 | 3606.9 | 3498.8 | 3399.0 | 3289.2 | 3181.0 |
| 10° | 4939.5 | 4931.2 | 4923.0 | 4854.7 | 4723.3 | 4512.0 | 4185.9 | 4067.8 | 3943.0 | 3803.2 | 3661.9 |
| 12.5° | 5308.9 | 5308.9 | 5315.6 | 5259.0 | 5179.1 | 5016.1 | 4720.0 | 4610.1 | 4483.7 | 4337.3 | 4175.9 |
| 15° | 5556.8 | 5563.4 | 5598.4 | 5615.1 | 5573.4 | 5468.6 | 5209.1 | 5112.6 | 4992.8 | 4848.1 | 4688.4 |
| 17.5° | 5721.5 | 5734.9 | 5786.4 | 5841.3 | 5894.5 | 5857.9 | 5664.9 | 5575.1 | 5467.0 | 5333.9 | 5184.1 |
| 20° | 6104.2 | 6087.5 | 6089.2 | 6072.5 | 6150.7 | 6179.0 | 6072.5 | 5997.7 | 5911.1 | 5789.7 | 5653.3 |
| 22.5° | 6907.8 | 6876.2 | 6794.6 | 6586.7 | 6491.9 | 6481.8 | 6418.6 | 6378.7 | 6312.1 | 6235.6 | 6099.1 |
| 25° | 7955.9 | 7919.3 | 7757.9 | 7415.2 | 7132.3 | 6871.2 | 6754.6 | 6729.7 | 6686.4 | 6634.9 | 6536.8 |
| 27.5° | 9039.0 | 8999.0 | 8791.0 | 8358.5 | 7989.1 | 7461.7 | 7099.1 | 7065.8 | 7025.8 | 7004.2 | 6957.6 |
| 30° | 9992.3 | 9949.0 | 9744.3 | 9305.2 | 8859.3 | 8230.4 | 7563.2 | 7446.8 | 7378.5 | 7385.2 | 7358.6 |
| 32.5° | 10829.1 | 10790.8 | 10561.3 | 10113.7 | 9661.2 | 9050.6 | 8165.5 | 7984.1 | 7831.1 | 7774.5 | 7794.5 |
| 35° | 11531.2 | 11496.2 | 11245.0 | 10794.2 | 10338.4 | 9830.9 | 8940.8 | 8668.0 | 8418.4 | 8262.0 | 8243.7 |
| 37.5° | 11943.8 | 11923.8 | 11747.5 | 11364.8 | 10912.3 | 10539.7 | 9809.3 | 9506.5 | 9138.7 | 8910.8 | 8811.0 |
| 40° | 11920.5 | 11942.1 | 11912.2 | 11739.2 | 11388.1 | 11116.9 | 10714.3 | 10414.9 | 10055.5 | 9716.1 | 9513.1 |
| 42.5° | 11581.1 | 11611.0 | 11745.8 | 11835.6 | 11740.8 | 11576.1 | 11504.6 | 11281.6 | 10958.9 | 10599.5 | 10318.3 |
| 45° | 11115.3 | 11141.9 | 11316.6 | 11641.0 | 11912.2 | 11958.8 | 12196.6 | 12085.2 | 11812.3 | 11506.3 | 11196.8 |
| 47.5° | 10401.6 | 10453.1 | 10656.1 | 11171.9 | 11817.3 | 12266.5 | 12777.3 | 12828.9 | 12670.9 | 12417.9 | 12128.5 |
| 50° | 9368.4 | 9436.6 | 9721.1 | 10454.8 | 11458.0 | 12582.7 | 13640.7 | 13837.1 | 13773.8 | 13517.7 | 13224.8 |
| 52.5° | 8310.2 | 8378.5 | 8757.8 | 9538.1 | 10879.0 | 12712.4 | 14490.9 | 14993.4 | 15356.0 | 15620.6 | 15672.2 |
| 55° | 7208.8 | 7285.4 | 7701.3 | 8599.7 | 10107.1 | 12547.7 | 15098.2 | 15668.8 | 16036.5 | 16312.7 | 16424.2 |
| 57.5° | 5966.1 | 6052.6 | 6455.2 | 7363.6 | 9015.7 | 11885.6 | 15773.7 | 16582.2 | 17129.6 | 17555.5 | 17795.0 |
| 60° | 4540.3 | 4648.4 | 5066.0 | 5981.1 | 7581.5 | 10617.8 | 16074.8 | 17271.0 | 18141.1 | 18779.9 | 19159.4 |
| 62.5° | 2878.2 | 2988.0 | 3422.3 | 4372.2 | 5949.5 | 8885.9 | 15222.9 | 16968.2 | 18452.2 | 19397.2 | 20092.7 |
| 65° | 1570.5 | 1618.8 | 1860.0 | 2575.4 | 4011.2 | 6894.4 | 13063.5 | 15121.5 | 17259.3 | 18598.7 | 19666.7 |
| 67.5° | 1177.9 | 1184.6 | 1209.5 | 1384.3 | 2136.2 | 4655.0 | 10213.6 | 12098.5 | 14472.6 | 16196.3 | 17472.3 |
| 70° | 1031.5 | 1031.5 | 1034.8 | 1036.5 | 1159.6 | 2522.2 | 6919.3 | 8654.7 | 10830.8 | 12574.3 | 14159.9 |
| 72.5° | 925.1 | 915.0 | 911.8 | 891.7 | 908.4 | 1292.7 | 3766.6 | 5325.6 | 7160.7 | 9117.2 | 10596.2 |
| 75° | 798.6 | 796.9 | 796.9 | 776.9 | 787.0 | 910.0 | 1633.8 | 2555.4 | 3977.9 | 5799.7 | 7255.5 |
| 77.5° | 690.5 | 678.8 | 680.5 | 668.8 | 700.4 | 697.1 | 775.3 | 1053.1 | 1732.0 | 3046.2 | 4254.1 |
| 80° | 569.0 | 560.7 | 565.7 | 559.0 | 609.0 | 515.8 | 522.4 | 643.8 | 860.1 | 1336.0 | 1883.4 |
| 82.5° | 420.9 | 424.2 | 455.8 | 452.6 | 512.4 | 347.7 | 382.7 | 480.8 | 579.0 | 665.5 | 723.7 |
| 85° | 246.2 | 251.2 | 327.8 | 344.4 | 376.0 | 183.0 | 234.6 | 286.1 | 322.7 | 357.7 | 372.7 |
| 87.5° | 26.6 | 35.0 | 183.0 | 188.0 | 168.1 | 54.9 | 94.8 | 119.8 | 128.1 | 136.5 | 119.8 |
| 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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CATALOG NUMBER: NVN-AF-04-LED-U-T2R

CANDELA DISTRIBUTION (continued):

| | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° | 85° | 90° | 95° | 100° | 102.5° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 |
| 2.5° | 2440.7 | 2419.1 | 2395.8 | 2382.5 | 2359.1 | 2339.2 | 2302.6 | 2272.6 | 2239.3 | 2216.0 | 2206.1 |
| 5° | 2726.8 | 2675.2 | 2620.4 | 2580.4 | 2530.5 | 2487.2 | 2404.0 | 2304.2 | 2272.6 | 2206.1 | 2189.4 |
| 7.5° | 3099.5 | 3006.4 | 2913.2 | 2836.6 | 2750.1 | 2678.6 | 2538.9 | 2359.1 | 2335.8 | 2229.4 | 2206.1 |
| 10° | 3537.1 | 3400.6 | 3262.5 | 3144.4 | 3018.0 | 2908.1 | 2701.9 | 2448.9 | 2424.0 | 2287.6 | 2264.3 |
| 12.5° | 4026.2 | 3859.8 | 3681.8 | 3505.4 | 3355.7 | 3201.0 | 2919.8 | 2588.8 | 2548.8 | 2387.5 | 2355.9 |
| 15° | 4530.2 | 4350.6 | 4144.3 | 3931.3 | 3746.7 | 3542.1 | 3187.7 | 2771.8 | 2698.5 | 2508.9 | 2465.6 |
| 17.5° | 5027.7 | 4833.1 | 4616.8 | 4378.8 | 4162.6 | 3918.0 | 3477.1 | 2976.4 | 2849.9 | 2628.7 | 2573.7 |
| 20° | 5508.6 | 5310.5 | 5082.6 | 4849.7 | 4580.2 | 4300.7 | 3773.3 | 3177.7 | 2984.7 | 2728.5 | 2656.9 |
| 22.5° | 5946.1 | 5776.4 | 5548.5 | 5280.6 | 5007.8 | 4693.3 | 4074.4 | 3379.0 | 3102.8 | 2805.0 | 2713.5 |
| 25° | 6406.9 | 6252.3 | 6026.0 | 5768.1 | 5450.3 | 5100.9 | 4385.6 | 3570.3 | 3197.6 | 2846.6 | 2733.5 |
| 27.5° | 6872.8 | 6739.7 | 6526.7 | 6255.5 | 5914.5 | 5526.9 | 4701.7 | 3746.7 | 3274.2 | 2860.0 | 2723.5 |
| 30° | 7370.3 | 7267.1 | 7070.7 | 6767.9 | 6423.6 | 5994.4 | 5046.0 | 3919.7 | 3322.4 | 2841.7 | 2678.6 |
| 32.5° | 7841.1 | 7837.7 | 7663.0 | 7348.6 | 6977.6 | 6505.1 | 5408.8 | 4094.4 | 3347.4 | 2790.0 | 2600.3 |
| 35° | 8330.2 | 8398.4 | 8267.0 | 7967.6 | 7576.6 | 7052.4 | 5809.6 | 4280.7 | 3349.0 | 2698.5 | 2498.9 |
| 37.5° | 8885.9 | 9007.4 | 8949.1 | 8664.6 | 8253.7 | 7676.3 | 6280.5 | 4490.3 | 3339.1 | 2572.1 | 2350.8 |
| 40° | 9518.1 | 9684.5 | 9682.8 | 9443.3 | 9004.0 | 8375.1 | 6827.9 | 4724.9 | 3315.8 | 2414.1 | 2176.1 |
| 42.5° | 10241.8 | 10439.8 | 10494.7 | 10258.5 | 9814.3 | 9138.7 | 7455.1 | 4982.8 | 3279.2 | 2257.7 | 1991.5 |
| 45° | 11070.4 | 11245.0 | 11348.2 | 11128.6 | 10682.7 | 9970.6 | 8175.5 | 5275.7 | 3234.3 | 2056.3 | 1780.1 |
| 47.5° | 11957.1 | 12160.1 | 12314.8 | 12126.8 | 11651.0 | 10919.0 | 9029.0 | 5653.3 | 3217.6 | 1826.8 | 1552.2 |
| 50° | 13056.8 | 13266.4 | 13600.8 | 13516.0 | 13254.8 | 12665.9 | 10834.1 | 6545.0 | 3224.2 | 1608.8 | 1360.9 |
| 52.5° | 15785.3 | 16266.1 | 16688.7 | 16500.7 | 15880.2 | 14870.2 | 12301.5 | 7040.9 | 3084.5 | 1430.8 | 1227.8 |
| 55° | 16608.8 | 17154.6 | 17778.5 | 17700.2 | 17104.7 | 16086.4 | 13461.1 | 7455.1 | 2949.8 | 1301.0 | 1141.3 |
| 57.5° | 18049.7 | 18693.5 | 19565.3 | 19548.6 | 18818.3 | 17672.0 | 14953.5 | 7950.9 | 2891.6 | 1226.1 | 1098.0 |
| 60° | 19575.3 | 20395.5 | 21600.0 | 21787.9 | 20994.4 | 19801.5 | 16717.0 | 8559.8 | 2899.9 | 1184.6 | 1073.1 |
| 62.5° | 20689.9 | 21892.8 | 23644.7 | 24207.0 | 23272.0 | 21957.6 | 18547.0 | 9168.7 | 2849.9 | 1136.3 | 1043.1 |
| 65° | 20758.1 | 22490.1 | 24975.7 | 25850.8 | 24904.1 | 23215.5 | 19192.6 | 9048.9 | 2550.4 | 1071.4 | 994.9 |
| 67.5° | 19094.4 | 21350.4 | 24370.1 | 25330.0 | 24361.8 | 22440.2 | 18061.2 | 7911.0 | 2073.0 | 958.3 | 911.8 |
| 70° | 15903.4 | 18522.2 | 21656.6 | 22726.3 | 21926.0 | 19981.2 | 15718.8 | 6318.8 | 1549.0 | 808.5 | 787.0 |
| 72.5° | 12289.8 | 14732.1 | 17578.8 | 18568.7 | 17956.5 | 16246.2 | 12398.0 | 4605.1 | 1106.3 | 655.5 | 638.8 |
| 75° | 8786.0 | 10865.7 | 12932.0 | 13309.7 | 12705.8 | 11135.2 | 8044.1 | 2876.5 | 775.3 | 537.4 | 514.1 |
| 77.5° | 5440.4 | 6792.9 | 7535.0 | 7049.2 | 6278.9 | 5219.1 | 3274.2 | 1420.8 | 515.8 | 437.5 | 414.3 |
| 80° | 2414.1 | 2833.3 | 2645.4 | 2357.5 | 1861.7 | 1530.6 | 999.9 | 630.5 | 332.8 | 337.8 | 324.4 |
| 82.5° | 811.9 | 858.5 | 835.1 | 830.2 | 748.7 | 655.5 | 424.2 | 272.8 | 186.4 | 216.3 | 211.3 |
| 85° | 396.0 | 414.3 | 415.9 | 430.9 | 374.3 | 291.1 | 114.8 | 108.1 | 79.9 | 116.4 | 121.4 |
| 87.5° | 119.8 | 121.4 | 109.8 | 119.8 | 96.5 | 66.6 | 21.6 | 30.0 | 14.9 | 28.2 | 28.2 |
| 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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CATALOG NUMBER: NVN-AF-04-LED-U-T2R

CANDELA DISTRIBUTION (continued):

| | 105° | 107.5° | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 | 2265.9 |
| 2.5° | 2187.8 | 2181.1 | 2169.5 | 2156.2 | 2152.8 | 2136.2 | 2131.2 | 2122.9 | 2117.9 | 2109.6 | 2103.0 |
| 5° | 2167.8 | 2156.2 | 2142.9 | 2127.8 | 2127.8 | 2104.6 | 2094.6 | 2084.7 | 2084.7 | 2069.6 | 2063.0 |
| 7.5° | 2187.8 | 2172.8 | 2157.8 | 2144.5 | 2149.5 | 2122.9 | 2112.9 | 2103.0 | 2101.2 | 2086.3 | 2079.7 |
| 10° | 2244.4 | 2229.4 | 2211.1 | 2197.8 | 2192.8 | 2171.1 | 2159.4 | 2144.5 | 2134.6 | 2124.6 | 2114.5 |
| 12.5° | 2330.9 | 2310.8 | 2287.6 | 2259.3 | 2247.6 | 2229.4 | 2211.1 | 2191.2 | 2167.8 | 2157.8 | 2142.9 |
| 15° | 2434.0 | 2400.8 | 2369.2 | 2334.2 | 2302.6 | 2284.2 | 2259.3 | 2227.7 | 2196.1 | 2182.8 | 2162.8 |
| 17.5° | 2518.8 | 2483.9 | 2439.0 | 2397.4 | 2340.8 | 2325.9 | 2290.9 | 2252.6 | 2201.1 | 2196.1 | 2166.2 |
| 20° | 2590.4 | 2537.1 | 2482.3 | 2432.4 | 2345.8 | 2337.5 | 2294.3 | 2249.4 | 2176.1 | 2176.1 | 2139.5 |
| 22.5° | 2630.3 | 2557.2 | 2492.2 | 2425.7 | 2317.6 | 2310.8 | 2261.0 | 2207.7 | 2117.9 | 2121.2 | 2076.3 |
| 25° | 2637.0 | 2548.8 | 2467.3 | 2387.5 | 2262.7 | 2251.0 | 2187.8 | 2129.6 | 2031.4 | 2024.7 | 1978.2 |
| 27.5° | 2610.4 | 2507.3 | 2412.4 | 2315.9 | 2181.1 | 2156.2 | 2086.3 | 2016.4 | 1919.9 | 1903.3 | 1853.4 |
| 30° | 2548.8 | 2427.4 | 2320.9 | 2209.4 | 2068.0 | 2028.1 | 1954.9 | 1883.4 | 1785.2 | 1763.6 | 1716.9 |
| 32.5° | 2450.7 | 2312.6 | 2194.4 | 2082.9 | 1926.6 | 1876.7 | 1803.5 | 1732.0 | 1637.1 | 1620.5 | 1577.2 |
| 35° | 2320.9 | 2166.2 | 2041.4 | 1923.2 | 1766.8 | 1715.3 | 1645.4 | 1582.2 | 1495.7 | 1489.0 | 1459.0 |
| 37.5° | 2157.8 | 1996.5 | 1863.4 | 1750.3 | 1602.1 | 1575.5 | 1504.0 | 1457.4 | 1385.9 | 1392.5 | 1377.5 |
| 40° | 1973.2 | 1808.5 | 1682.0 | 1582.2 | 1454.1 | 1430.8 | 1387.5 | 1352.6 | 1291.1 | 1309.4 | 1311.0 |
| 42.5° | 1786.8 | 1622.1 | 1507.3 | 1417.5 | 1307.6 | 1292.7 | 1262.7 | 1242.8 | 1196.2 | 1232.9 | 1247.8 |
| 45° | 1575.5 | 1422.5 | 1324.3 | 1256.1 | 1174.6 | 1174.6 | 1159.6 | 1158.0 | 1126.4 | 1177.9 | 1192.9 |
| 47.5° | 1370.9 | 1251.1 | 1182.9 | 1141.3 | 1084.7 | 1111.3 | 1106.3 | 1119.7 | 1096.4 | 1149.6 | 1162.9 |
| 50° | 1216.2 | 1133.0 | 1091.4 | 1071.4 | 1031.5 | 1073.1 | 1083.1 | 1101.4 | 1081.5 | 1128.0 | 1137.9 |
| 52.5° | 1118.0 | 1063.2 | 1039.8 | 1034.8 | 1006.6 | 1058.1 | 1074.7 | 1091.4 | 1068.1 | 1111.3 | 1109.7 |
| 55° | 1063.2 | 1026.5 | 1018.1 | 1028.2 | 1006.6 | 1056.5 | 1073.1 | 1084.7 | 1064.8 | 1094.8 | 1093.0 |
| 57.5° | 1043.1 | 1023.2 | 1028.2 | 1043.1 | 1028.2 | 1069.8 | 1078.1 | 1091.4 | 1071.4 | 1084.7 | 1091.4 |
| 60° | 1041.5 | 1041.5 | 1061.4 | 1081.5 | 1071.4 | 1101.4 | 1106.3 | 1104.7 | 1086.4 | 1088.1 | 1091.4 |
| 62.5° | 1031.5 | 1056.5 | 1089.7 | 1121.4 | 1118.0 | 1154.6 | 1158.0 | 1136.3 | 1121.4 | 1104.7 | 1099.7 |
| 65° | 999.9 | 1041.5 | 1089.7 | 1133.0 | 1139.7 | 1196.2 | 1202.9 | 1181.2 | 1171.3 | 1142.9 | 1121.4 |
| 67.5° | 930.0 | 983.3 | 1039.8 | 1093.0 | 1104.7 | 1181.2 | 1196.2 | 1204.5 | 1209.5 | 1191.2 | 1162.9 |
| 70° | 811.9 | 866.7 | 925.1 | 986.5 | 1003.2 | 1088.1 | 1119.7 | 1158.0 | 1187.9 | 1214.5 | 1204.5 |
| 72.5° | 660.5 | 710.4 | 760.4 | 816.9 | 841.9 | 930.0 | 971.6 | 1038.2 | 1084.7 | 1153.0 | 1181.2 |
| 75° | 524.1 | 554.0 | 584.0 | 618.9 | 638.8 | 725.4 | 776.9 | 856.8 | 920.0 | 1014.9 | 1078.1 |
| 77.5° | 412.6 | 427.6 | 442.5 | 457.6 | 465.9 | 514.1 | 555.7 | 635.6 | 708.7 | 828.5 | 921.7 |
| 80° | 317.7 | 326.1 | 327.8 | 332.8 | 329.4 | 352.7 | 367.6 | 415.9 | 479.2 | 597.3 | 707.1 |
| 82.5° | 204.6 | 211.3 | 214.6 | 222.9 | 206.3 | 236.2 | 246.2 | 251.2 | 284.5 | 371.0 | 449.2 |
| 85° | 114.8 | 116.4 | 118.2 | 121.4 | 98.2 | 128.1 | 129.8 | 121.4 | 118.2 | 153.0 | 173.0 |
| 87.5° | 28.2 | 26.6 | 28.2 | 28.2 | 11.7 | 26.6 | 26.6 | 18.3 | 13.3 | 25.0 | 19.9 |
| 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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| 35° | 1392.5 | 1384.3 | 1372.6 | 1312.7 | 1262.7 | 1256.1 |
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| 40° | 1316.0 | 1362.6 | 1236.1 | 1186.2 | 1181.2 | 1181.2 |
| 42.5° | 1252.8 | 1286.1 | 1231.1 | 1202.9 | 1202.9 | 1204.5 |
| 45° | 1186.2 | 1214.5 | 1242.8 | 1217.8 | 1226.1 | 1227.8 |
| 47.5° | 1139.7 | 1196.2 | 1242.8 | 1221.2 | 1237.8 | 1247.8 |
| 50° | 1096.4 | 1179.6 | 1217.8 | 1217.8 | 1236.1 | 1237.8 |
| 52.5° | 1086.4 | 1156.2 | 1194.5 | 1212.8 | 1214.5 | 1206.2 |
| 55° | 1088.1 | 1137.9 | 1176.3 | 1199.5 | 1189.6 | 1189.6 |
| 57.5° | 1086.4 | 1128.0 | 1161.3 | 1169.5 | 1174.6 | 1174.6 |
| 60° | 1088.1 | 1114.7 | 1141.3 | 1137.9 | 1154.6 | 1154.6 |
| 62.5° | 1093.0 | 1096.4 | 1109.7 | 1106.3 | 1131.3 | 1131.3 |
| 65° | 1104.7 | 1073.1 | 1064.8 | 1068.1 | 1098.0 | 1096.4 |
| 67.5° | 1126.4 | 1041.5 | 1014.9 | 1016.5 | 1059.8 | 1053.1 |
| 70° | 1158.0 | 998.2 | 958.3 | 948.3 | 1021.5 | 1009.9 |
| 72.5° | 1167.9 | 948.3 | 885.1 | 875.1 | 918.4 | 885.1 |
| 75° | 1121.4 | 908.4 | 806.9 | 773.7 | 755.3 | 745.3 |
| 77.5° | 999.9 | 883.4 | 725.4 | 655.5 | 627.2 | 620.5 |
| 80° | 828.5 | 831.9 | 618.9 | 535.7 | 622.3 | 620.5 |
| 82.5° | 625.5 | 718.7 | 495.8 | 464.2 | 450.9 | 376.0 |
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