

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: P196283

Luminaire Tested: **NVN-AF-05-LED-U-T2R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196283
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-05-LED-U-T2R-800
Description: NAVION ROADWAY AND AREA LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26042.3 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

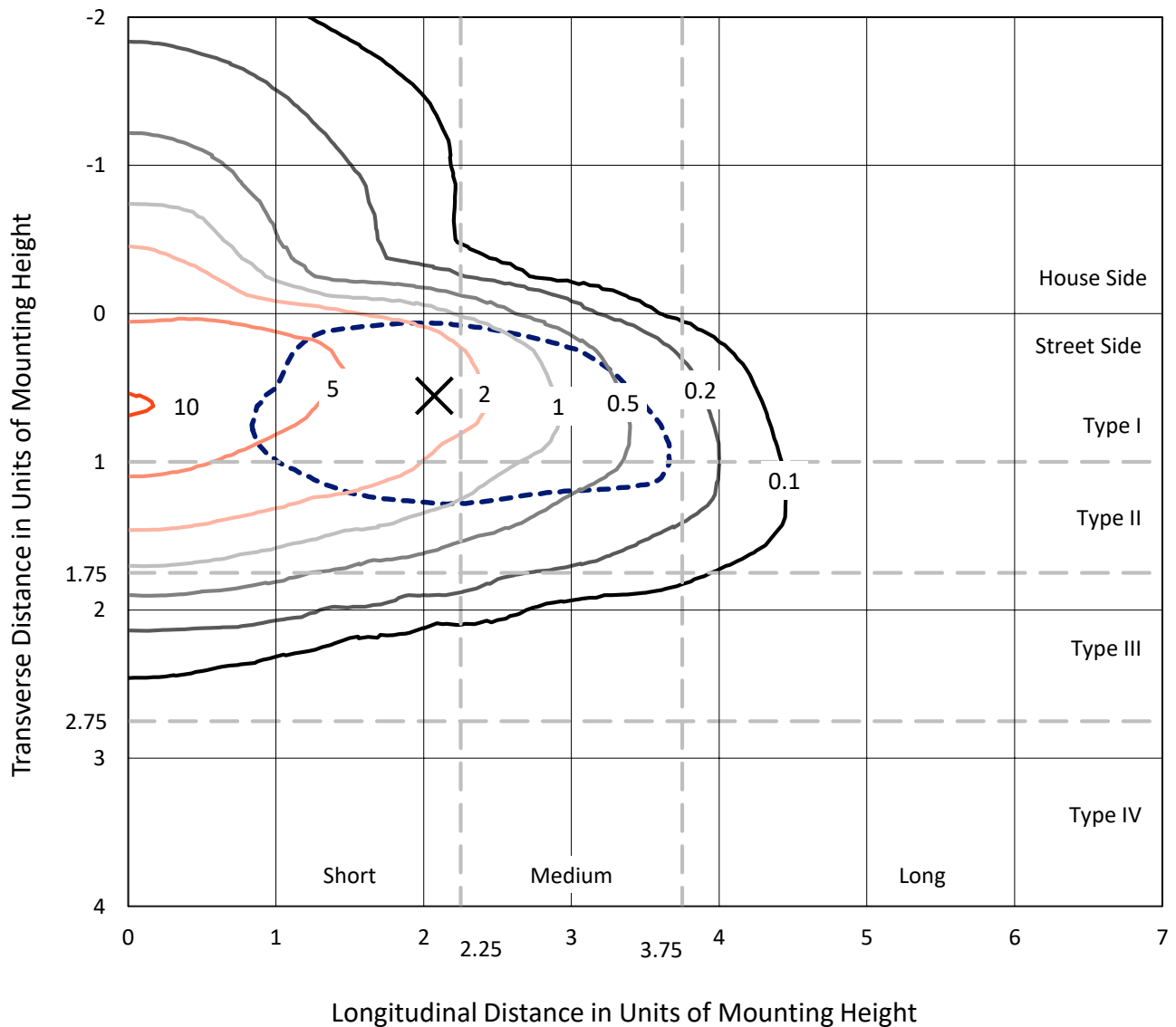
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

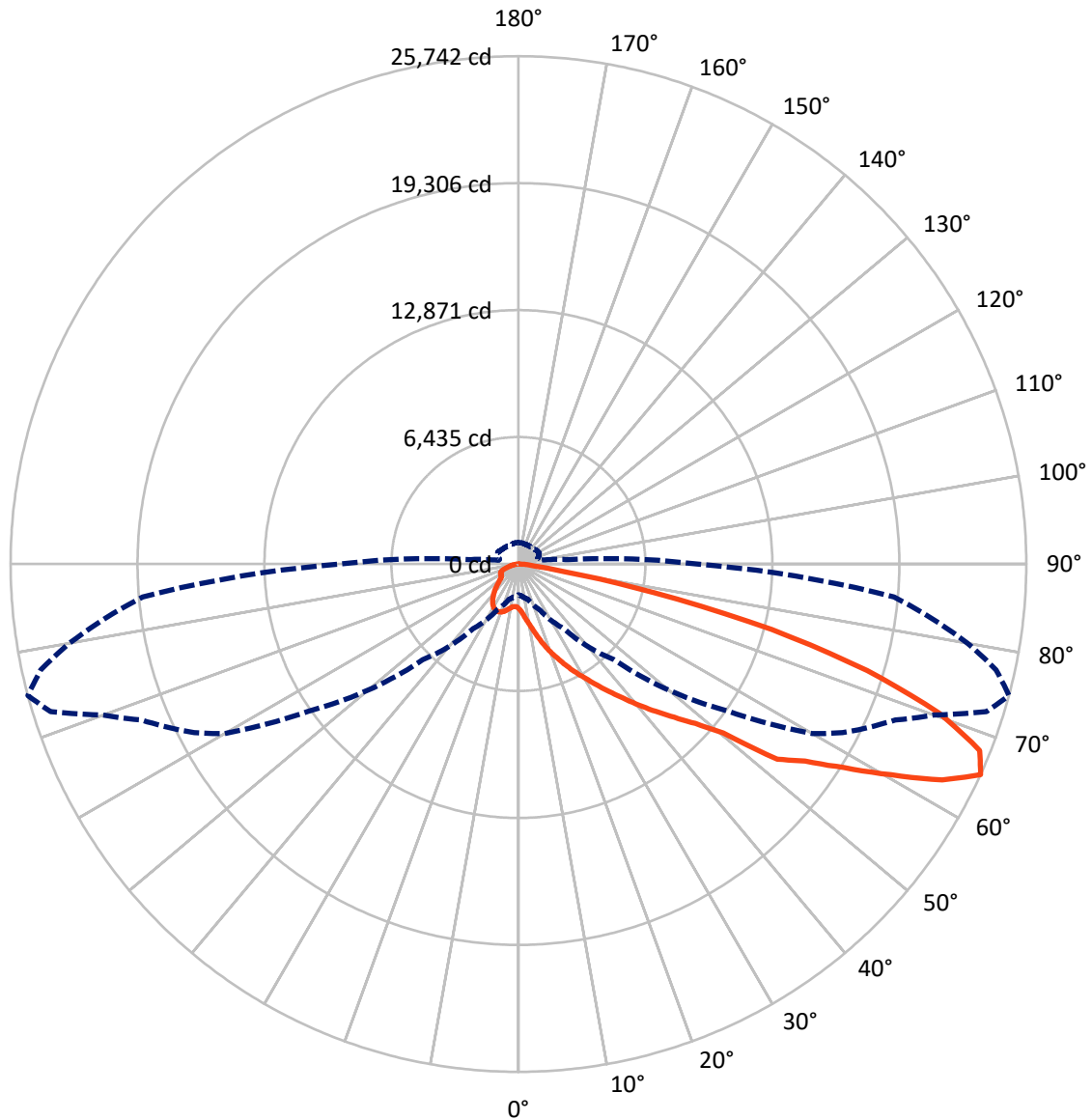
✕ Max cd
 - - - 1/2 Max cd



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 | 3913.3 | 0.0 | 3913.3 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 22129.0 | 0.0 | 22129.0 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 26042.3 | 0.0 | 26042.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 266.4 | 1.0 |
| 10°-20° | 1017.5 | 3.9 |
| 20°-30° | 2053.3 | 7.9 |
| 30°-40° | 3487.1 | 13.4 |
| 40°-50° | 4863.7 | 18.7 |
| 50°-60° | 5961.1 | 22.9 |
| 60°-70° | 5608.5 | 21.5 |
| 70°-80° | 2459.3 | 9.4 |
| 80°-90° | 325.4 | 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° | 26042.3 | 100.0 |
| 0°-180° | 26042.3 | 100.0 |

Coefficient of Utilization



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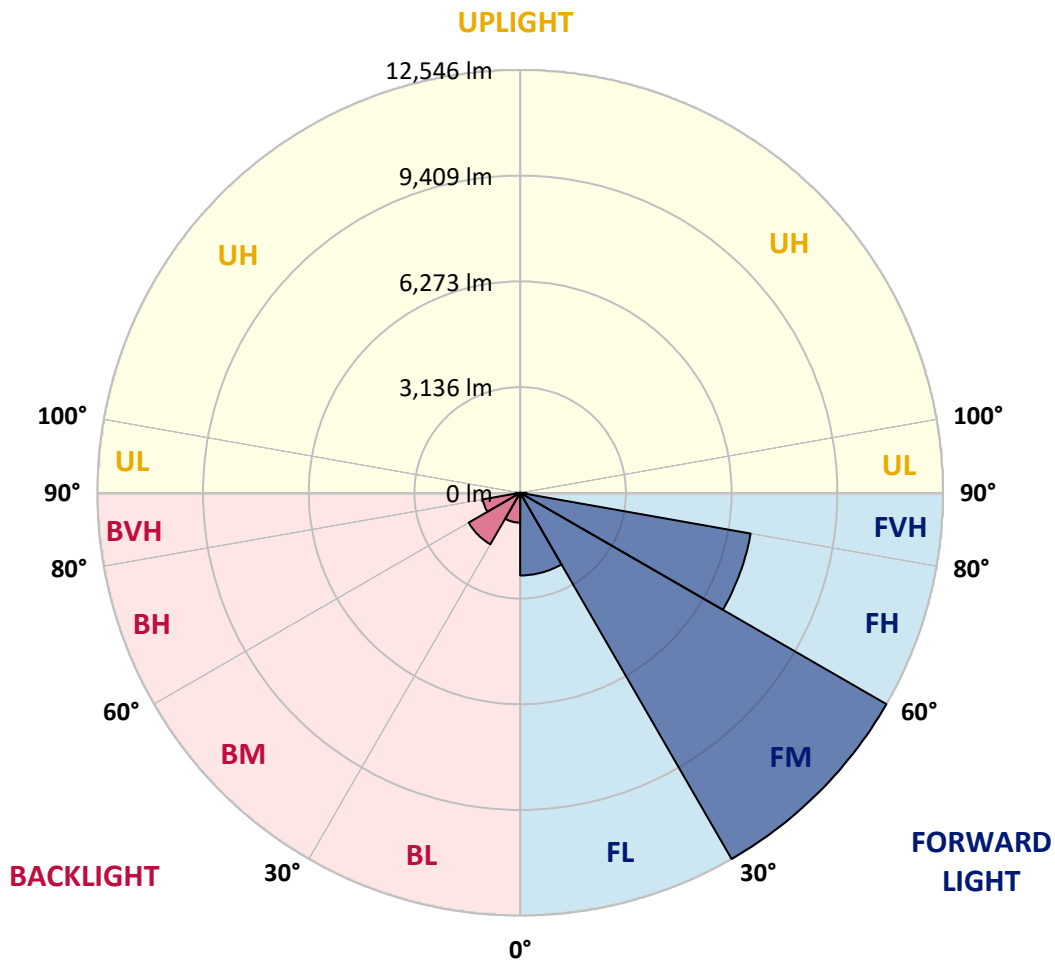
CATALOG NUMBER: NVN-AF-05-LED-U-T2R-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2451.3 | 9.4 | | | |
| FM (30°-60°) | 12546.0 | 48.2 | | | |
| FH (60°-80°) | 6943.1 | 26.7 | | | G3/7500 |
| FVH (80°-90°) | 188.6 | 0.7 | | | G2/225 |
| BL (0°-30°) | 885.9 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1765.9 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 1124.7 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 136.8 | 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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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57.5° | 60° | 62.5° | 65° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 |
| 2.5° | 2841.2 | 2808.1 | 2811.4 | 2765.0 | 2697.1 | 2622.5 | 2561.3 | 2528.1 | 2499.9 | 2491.7 | 2445.3 |
| 5° | 3716.0 | 3674.5 | 3659.6 | 3553.6 | 3394.6 | 3205.7 | 3018.5 | 2945.6 | 2885.9 | 2849.5 | 2760.0 |
| 7.5° | 4431.6 | 4410.0 | 4390.2 | 4292.5 | 4135.1 | 3893.2 | 3591.7 | 3484.0 | 3384.6 | 3275.3 | 3167.6 |
| 10° | 4918.7 | 4910.4 | 4902.1 | 4834.2 | 4703.3 | 4492.9 | 4168.2 | 4050.6 | 3926.4 | 3787.2 | 3646.4 |
| 12.5° | 5286.5 | 5286.5 | 5293.2 | 5236.8 | 5157.3 | 4994.9 | 4700.0 | 4590.7 | 4464.8 | 4319.0 | 4158.3 |
| 15° | 5533.3 | 5540.0 | 5574.8 | 5591.3 | 5549.9 | 5445.5 | 5187.1 | 5091.0 | 4971.7 | 4827.6 | 4668.5 |
| 17.5° | 5697.3 | 5710.6 | 5762.0 | 5816.6 | 5869.6 | 5833.2 | 5641.0 | 5551.6 | 5443.8 | 5311.4 | 5162.2 |
| 20° | 6078.4 | 6061.8 | 6063.4 | 6046.9 | 6124.7 | 6152.9 | 6046.9 | 5972.4 | 5886.2 | 5765.2 | 5629.4 |
| 22.5° | 6878.5 | 6847.1 | 6765.9 | 6558.9 | 6464.3 | 6454.4 | 6391.5 | 6351.7 | 6285.4 | 6209.2 | 6073.4 |
| 25° | 7922.2 | 7885.8 | 7725.1 | 7383.9 | 7102.2 | 6842.1 | 6726.1 | 6701.2 | 6658.2 | 6606.8 | 6509.1 |
| 27.5° | 9000.7 | 8961.0 | 8753.9 | 8323.1 | 7955.4 | 7430.2 | 7069.1 | 7036.0 | 6996.2 | 6974.7 | 6928.2 |
| 30° | 9950.0 | 9907.0 | 9703.2 | 9265.8 | 8821.8 | 8195.6 | 7531.3 | 7415.4 | 7347.4 | 7354.0 | 7327.5 |
| 32.5° | 10783.3 | 10745.3 | 10516.7 | 10071.0 | 9620.3 | 9012.4 | 8131.0 | 7950.5 | 7798.1 | 7741.7 | 7761.5 |
| 35° | 11482.5 | 11447.7 | 11197.5 | 10748.6 | 10294.7 | 9789.3 | 8903.0 | 8631.4 | 8382.8 | 8227.1 | 8208.9 |
| 37.5° | 11893.3 | 11873.5 | 11697.9 | 11316.8 | 10866.2 | 10495.1 | 9767.9 | 9466.3 | 9100.2 | 8873.2 | 8773.8 |
| 40° | 11870.1 | 11891.7 | 11861.8 | 11689.6 | 11340.0 | 11070.0 | 10669.1 | 10370.9 | 10013.1 | 9675.1 | 9472.9 |
| 42.5° | 11532.1 | 11562.0 | 11696.2 | 11785.6 | 11691.2 | 11527.2 | 11455.9 | 11233.9 | 10912.5 | 10554.7 | 10274.7 |
| 45° | 11068.3 | 11094.8 | 11268.7 | 11591.8 | 11861.8 | 11908.3 | 12145.2 | 12034.2 | 11762.5 | 11457.7 | 11149.4 |
| 47.5° | 10357.6 | 10408.9 | 10611.1 | 11124.6 | 11767.4 | 12214.7 | 12723.4 | 12774.7 | 12617.3 | 12365.5 | 12077.3 |
| 50° | 9328.8 | 9396.7 | 9680.0 | 10410.6 | 11409.6 | 12529.5 | 13583.2 | 13778.6 | 13715.7 | 13460.6 | 13169.0 |
| 52.5° | 8275.2 | 8343.1 | 8720.8 | 9497.8 | 10833.0 | 12658.7 | 14429.7 | 14930.1 | 15291.2 | 15554.6 | 15605.9 |
| 55° | 7178.5 | 7254.7 | 7668.8 | 8563.4 | 10064.4 | 12494.7 | 15034.4 | 15602.7 | 15968.8 | 16243.7 | 16354.8 |
| 57.5° | 5940.9 | 6027.0 | 6427.9 | 7332.5 | 8977.6 | 11835.3 | 15707.0 | 16512.2 | 17057.2 | 17481.3 | 17719.9 |
| 60° | 4521.1 | 4628.8 | 5044.6 | 5955.8 | 7549.5 | 10572.9 | 16006.9 | 17198.1 | 18064.5 | 18700.7 | 19078.3 |
| 62.5° | 2866.1 | 2975.4 | 3407.8 | 4353.8 | 5924.3 | 8848.3 | 15158.7 | 16896.5 | 18374.2 | 19315.3 | 20007.8 |
| 65° | 1563.9 | 1612.0 | 1852.2 | 2564.5 | 3994.3 | 6865.3 | 13008.3 | 15057.6 | 17186.5 | 18520.1 | 19583.7 |
| 67.5° | 1172.9 | 1179.6 | 1204.4 | 1378.3 | 2127.2 | 4635.4 | 10170.4 | 12047.4 | 14411.5 | 16127.8 | 17398.6 |
| 70° | 1027.1 | 1027.1 | 1030.4 | 1032.2 | 1154.7 | 2511.5 | 6890.2 | 8618.1 | 10785.0 | 12521.2 | 14100.0 |
| 72.5° | 921.2 | 911.1 | 907.9 | 888.0 | 904.6 | 1287.3 | 3750.8 | 5303.1 | 7130.4 | 9078.6 | 10551.4 |
| 75° | 795.2 | 793.5 | 793.5 | 773.7 | 783.6 | 906.2 | 1626.9 | 2544.7 | 3961.2 | 5775.2 | 7224.8 |
| 77.5° | 687.5 | 676.0 | 677.6 | 665.9 | 697.4 | 694.2 | 772.0 | 1048.7 | 1724.6 | 3033.4 | 4236.1 |
| 80° | 566.6 | 558.3 | 563.2 | 556.7 | 606.3 | 513.5 | 520.2 | 641.2 | 856.5 | 1330.3 | 1875.4 |
| 82.5° | 419.1 | 422.5 | 453.9 | 450.6 | 510.2 | 346.3 | 381.0 | 478.7 | 576.5 | 662.7 | 720.7 |
| 85° | 245.2 | 250.1 | 326.3 | 342.9 | 374.4 | 182.2 | 233.6 | 285.0 | 321.4 | 356.2 | 371.1 |
| 87.5° | 26.5 | 34.8 | 182.2 | 187.2 | 167.4 | 54.6 | 94.4 | 119.3 | 127.6 | 135.8 | 119.3 |
| 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-05-LED-U-T2R-800

CANDELA DISTRIBUTION (continued):

| | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° | 85° | 90° | 95° | 100° | 102.5° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 |
| 2.5° | 2430.3 | 2408.8 | 2385.6 | 2372.3 | 2349.2 | 2329.3 | 2292.8 | 2263.1 | 2229.9 | 2206.7 | 2196.8 |
| 5° | 2715.3 | 2664.0 | 2609.2 | 2569.6 | 2519.8 | 2476.8 | 2393.9 | 2294.5 | 2263.1 | 2196.8 | 2180.2 |
| 7.5° | 3086.4 | 2993.7 | 2900.9 | 2824.7 | 2738.5 | 2667.2 | 2528.1 | 2349.2 | 2326.0 | 2220.0 | 2196.8 |
| 10° | 3522.1 | 3386.3 | 3248.8 | 3131.2 | 3005.2 | 2895.9 | 2690.5 | 2438.6 | 2413.8 | 2277.9 | 2254.8 |
| 12.5° | 4009.1 | 3843.5 | 3666.3 | 3490.6 | 3341.6 | 3187.4 | 2907.4 | 2577.8 | 2538.0 | 2377.3 | 2345.8 |
| 15° | 4511.1 | 4332.2 | 4126.8 | 3914.7 | 3730.8 | 3527.0 | 3174.2 | 2760.0 | 2687.2 | 2498.3 | 2455.2 |
| 17.5° | 5006.5 | 4812.7 | 4597.3 | 4360.4 | 4145.0 | 3901.5 | 3462.5 | 2963.8 | 2837.9 | 2617.5 | 2562.9 |
| 20° | 5485.3 | 5288.1 | 5061.2 | 4829.2 | 4560.8 | 4282.5 | 3757.4 | 3164.3 | 2972.1 | 2717.0 | 2645.8 |
| 22.5° | 5920.9 | 5752.1 | 5525.1 | 5258.3 | 4986.6 | 4673.6 | 4057.2 | 3364.7 | 3089.7 | 2793.2 | 2702.0 |
| 25° | 6379.9 | 6225.8 | 6000.5 | 5743.8 | 5427.3 | 5079.4 | 4367.0 | 3555.3 | 3184.1 | 2834.6 | 2722.0 |
| 27.5° | 6843.7 | 6711.3 | 6499.2 | 6229.2 | 5889.5 | 5503.5 | 4681.8 | 3730.8 | 3260.3 | 2847.8 | 2711.9 |
| 30° | 7339.2 | 7236.4 | 7040.9 | 6739.4 | 6396.4 | 5969.0 | 5024.7 | 3903.2 | 3308.4 | 2829.6 | 2667.2 |
| 32.5° | 7808.0 | 7804.6 | 7630.7 | 7317.6 | 6948.1 | 6477.6 | 5385.8 | 4077.1 | 3333.3 | 2778.2 | 2589.4 |
| 35° | 8295.0 | 8362.9 | 8232.1 | 7933.9 | 7544.6 | 7022.7 | 5785.1 | 4262.6 | 3334.9 | 2687.2 | 2488.3 |
| 37.5° | 8848.3 | 8969.3 | 8911.3 | 8628.0 | 8218.8 | 7643.9 | 6254.0 | 4471.4 | 3325.0 | 2561.3 | 2340.9 |
| 40° | 9477.8 | 9643.6 | 9641.9 | 9403.4 | 8966.0 | 8339.7 | 6799.0 | 4705.0 | 3301.8 | 2403.8 | 2166.9 |
| 42.5° | 10198.5 | 10395.7 | 10450.4 | 10215.1 | 9772.8 | 9100.2 | 7423.6 | 4961.7 | 3265.4 | 2248.1 | 1983.1 |
| 45° | 11023.6 | 11197.5 | 11300.2 | 11081.5 | 10637.6 | 9928.6 | 8140.9 | 5253.4 | 3220.6 | 2047.6 | 1772.7 |
| 47.5° | 11906.6 | 12108.7 | 12262.8 | 12075.5 | 11601.8 | 10872.8 | 8990.8 | 5629.4 | 3204.0 | 1819.0 | 1545.7 |
| 50° | 13001.7 | 13210.4 | 13543.4 | 13458.9 | 13198.8 | 12612.4 | 10788.3 | 6517.4 | 3210.6 | 1602.0 | 1355.2 |
| 52.5° | 15718.7 | 16197.4 | 16618.2 | 16431.0 | 15813.1 | 14807.4 | 12249.5 | 7011.1 | 3071.5 | 1424.8 | 1222.6 |
| 55° | 16538.7 | 17082.1 | 17703.3 | 17625.4 | 17032.3 | 16018.5 | 13404.2 | 7423.6 | 2937.3 | 1295.6 | 1136.5 |
| 57.5° | 17973.3 | 18614.5 | 19482.6 | 19466.0 | 18738.7 | 17597.3 | 14890.3 | 7917.3 | 2879.3 | 1221.0 | 1093.4 |
| 60° | 19492.5 | 20309.3 | 21508.8 | 21696.0 | 20905.7 | 19717.9 | 16646.4 | 8523.6 | 2887.6 | 1179.6 | 1068.6 |
| 62.5° | 20602.5 | 21800.3 | 23544.8 | 24104.7 | 23173.7 | 21865.0 | 18468.8 | 9129.9 | 2837.9 | 1131.5 | 1038.7 |
| 65° | 20670.5 | 22395.1 | 24870.2 | 25741.5 | 24798.9 | 23117.4 | 19111.5 | 9010.7 | 2539.7 | 1066.9 | 990.7 |
| 67.5° | 19013.8 | 21260.2 | 24267.2 | 25223.0 | 24258.9 | 22345.3 | 17985.0 | 7877.5 | 2064.2 | 954.2 | 907.9 |
| 70° | 15836.2 | 18443.9 | 21565.0 | 22630.3 | 21833.5 | 19896.8 | 15652.4 | 6292.1 | 1542.4 | 805.2 | 783.6 |
| 72.5° | 12238.0 | 14669.9 | 17504.5 | 18490.2 | 17880.6 | 16177.6 | 12345.6 | 4585.7 | 1101.7 | 652.7 | 636.2 |
| 75° | 8749.0 | 10819.9 | 12877.4 | 13253.5 | 12652.1 | 11088.2 | 8010.1 | 2864.4 | 772.0 | 535.1 | 511.9 |
| 77.5° | 5417.3 | 6764.3 | 7503.1 | 7019.4 | 6252.4 | 5197.0 | 3260.3 | 1414.8 | 513.5 | 435.7 | 412.6 |
| 80° | 2403.8 | 2821.3 | 2634.1 | 2347.6 | 1853.8 | 1524.2 | 995.6 | 627.9 | 331.3 | 336.3 | 323.0 |
| 82.5° | 808.4 | 854.9 | 831.7 | 826.6 | 745.5 | 652.7 | 422.5 | 271.7 | 185.6 | 215.3 | 210.4 |
| 85° | 394.2 | 412.6 | 414.2 | 429.1 | 372.8 | 289.9 | 114.3 | 107.7 | 79.5 | 116.0 | 120.9 |
| 87.5° | 119.3 | 120.9 | 109.4 | 119.3 | 96.1 | 66.3 | 21.6 | 29.9 | 14.9 | 28.1 | 28.1 |
| 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):

| | 105° | 107.5° | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 |
| 2.5° | 2178.6 | 2171.9 | 2160.3 | 2147.1 | 2143.8 | 2127.2 | 2122.2 | 2113.9 | 2108.9 | 2100.6 | 2094.1 |
| 5° | 2158.6 | 2147.1 | 2133.8 | 2118.9 | 2118.9 | 2095.7 | 2085.8 | 2075.9 | 2075.9 | 2060.9 | 2054.3 |
| 7.5° | 2178.6 | 2163.6 | 2148.7 | 2135.5 | 2140.4 | 2113.9 | 2104.0 | 2094.1 | 2092.3 | 2077.5 | 2070.9 |
| 10° | 2234.8 | 2220.0 | 2201.7 | 2188.5 | 2183.5 | 2162.0 | 2150.3 | 2135.5 | 2125.5 | 2115.6 | 2105.6 |
| 12.5° | 2321.0 | 2301.1 | 2277.9 | 2249.8 | 2238.2 | 2220.0 | 2201.7 | 2181.9 | 2158.6 | 2148.7 | 2133.8 |
| 15° | 2423.8 | 2390.6 | 2359.1 | 2324.3 | 2292.8 | 2274.6 | 2249.8 | 2218.3 | 2186.9 | 2173.6 | 2153.7 |
| 17.5° | 2508.2 | 2473.4 | 2428.7 | 2387.3 | 2331.0 | 2316.1 | 2281.3 | 2243.1 | 2191.8 | 2186.9 | 2157.0 |
| 20° | 2579.5 | 2526.5 | 2471.8 | 2422.0 | 2335.9 | 2327.6 | 2284.6 | 2239.9 | 2166.9 | 2166.9 | 2130.5 |
| 22.5° | 2619.3 | 2546.3 | 2481.7 | 2415.5 | 2307.8 | 2301.1 | 2251.4 | 2198.4 | 2108.9 | 2112.3 | 2067.6 |
| 25° | 2625.8 | 2538.0 | 2456.8 | 2377.3 | 2253.0 | 2241.5 | 2178.6 | 2120.6 | 2022.8 | 2016.2 | 1969.8 |
| 27.5° | 2599.3 | 2496.6 | 2402.2 | 2306.1 | 2171.9 | 2147.1 | 2077.5 | 2008.0 | 1911.8 | 1895.2 | 1845.5 |
| 30° | 2538.0 | 2417.1 | 2311.1 | 2200.1 | 2059.3 | 2019.5 | 1946.6 | 1875.4 | 1777.6 | 1756.1 | 1709.7 |
| 32.5° | 2440.2 | 2302.8 | 2185.1 | 2074.1 | 1918.4 | 1868.7 | 1795.9 | 1724.6 | 1630.2 | 1613.6 | 1570.5 |
| 35° | 2311.1 | 2157.0 | 2032.7 | 1915.2 | 1759.4 | 1708.0 | 1638.5 | 1575.5 | 1489.3 | 1482.8 | 1452.9 |
| 37.5° | 2148.7 | 1988.0 | 1855.5 | 1742.8 | 1595.4 | 1568.9 | 1497.6 | 1451.3 | 1380.1 | 1386.6 | 1371.8 |
| 40° | 1964.8 | 1800.8 | 1674.9 | 1575.5 | 1448.0 | 1424.8 | 1381.7 | 1346.9 | 1285.5 | 1303.9 | 1305.5 |
| 42.5° | 1779.3 | 1615.2 | 1501.0 | 1411.5 | 1302.1 | 1287.3 | 1257.4 | 1237.6 | 1191.1 | 1227.6 | 1242.5 |
| 45° | 1568.9 | 1416.5 | 1318.7 | 1250.8 | 1169.6 | 1169.6 | 1154.7 | 1153.1 | 1121.6 | 1172.9 | 1187.9 |
| 47.5° | 1365.1 | 1245.9 | 1177.9 | 1136.5 | 1080.1 | 1106.6 | 1101.7 | 1114.9 | 1091.8 | 1144.8 | 1158.0 |
| 50° | 1211.1 | 1128.2 | 1086.8 | 1066.9 | 1027.1 | 1068.6 | 1078.5 | 1096.7 | 1076.9 | 1123.2 | 1133.1 |
| 52.5° | 1113.3 | 1058.7 | 1035.4 | 1030.4 | 1002.3 | 1053.6 | 1070.2 | 1086.8 | 1063.6 | 1106.6 | 1105.0 |
| 55° | 1058.7 | 1022.1 | 1013.8 | 1023.9 | 1002.3 | 1052.0 | 1068.6 | 1080.1 | 1060.3 | 1090.1 | 1088.4 |
| 57.5° | 1038.7 | 1018.9 | 1023.9 | 1038.7 | 1023.9 | 1065.2 | 1073.5 | 1086.8 | 1066.9 | 1080.1 | 1086.8 |
| 60° | 1037.1 | 1037.1 | 1057.0 | 1076.9 | 1066.9 | 1096.7 | 1101.7 | 1100.1 | 1081.8 | 1083.5 | 1086.8 |
| 62.5° | 1027.1 | 1052.0 | 1085.1 | 1116.7 | 1113.3 | 1149.7 | 1153.1 | 1131.5 | 1116.7 | 1100.1 | 1095.1 |
| 65° | 995.6 | 1037.1 | 1085.1 | 1128.2 | 1134.9 | 1191.1 | 1197.8 | 1176.3 | 1166.3 | 1138.1 | 1116.7 |
| 67.5° | 926.1 | 979.1 | 1035.4 | 1088.4 | 1100.1 | 1176.3 | 1191.1 | 1199.4 | 1204.4 | 1186.2 | 1158.0 |
| 70° | 808.4 | 863.2 | 921.2 | 982.4 | 999.0 | 1083.5 | 1114.9 | 1153.1 | 1182.8 | 1209.3 | 1199.4 |
| 72.5° | 657.7 | 707.4 | 757.1 | 813.5 | 838.3 | 926.1 | 967.5 | 1033.8 | 1080.1 | 1148.1 | 1176.3 |
| 75° | 521.8 | 551.7 | 581.4 | 616.3 | 636.2 | 722.3 | 773.7 | 853.2 | 916.2 | 1010.6 | 1073.5 |
| 77.5° | 410.8 | 425.8 | 440.7 | 455.6 | 463.9 | 511.9 | 553.3 | 632.9 | 705.7 | 825.0 | 917.8 |
| 80° | 316.4 | 324.7 | 326.3 | 331.3 | 328.1 | 351.2 | 366.1 | 414.2 | 477.1 | 594.7 | 704.1 |
| 82.5° | 203.8 | 210.4 | 213.7 | 222.0 | 205.4 | 235.3 | 245.2 | 250.1 | 283.3 | 369.5 | 447.3 |
| 85° | 114.3 | 116.0 | 117.6 | 120.9 | 97.8 | 127.6 | 129.2 | 120.9 | 117.6 | 152.4 | 172.3 |
| 87.5° | 28.1 | 26.5 | 28.1 | 28.1 | 11.6 | 26.5 | 26.5 | 18.2 | 13.3 | 24.9 | 19.8 |
| 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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| 0° | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 | 2256.4 |
| 2.5° | 2079.1 | 2075.9 | 2077.5 | 2069.2 | 2065.8 | 2067.6 |
| 5° | 2046.0 | 2039.4 | 2039.4 | 2034.4 | 2027.8 | 2027.8 |
| 7.5° | 2060.9 | 2047.6 | 2042.7 | 2032.7 | 2022.8 | 2024.4 |
| 10° | 2084.2 | 2060.9 | 2044.4 | 2029.4 | 2017.9 | 2017.9 |
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| 20° | 2032.7 | 1935.0 | 1880.3 | 1850.5 | 1835.6 | 1837.2 |
| 22.5° | 1954.9 | 1842.2 | 1779.3 | 1744.4 | 1729.6 | 1729.6 |
| 25° | 1848.9 | 1726.2 | 1658.3 | 1630.2 | 1616.9 | 1616.9 |
| 27.5° | 1728.0 | 1602.0 | 1542.4 | 1520.8 | 1512.5 | 1512.5 |
| 30° | 1592.1 | 1487.7 | 1444.6 | 1429.7 | 1416.5 | 1416.5 |
| 32.5° | 1477.8 | 1403.2 | 1388.3 | 1368.4 | 1333.6 | 1332.0 |
| 35° | 1386.6 | 1378.3 | 1366.8 | 1307.1 | 1257.4 | 1250.8 |
| 37.5° | 1336.9 | 1386.6 | 1313.8 | 1211.1 | 1171.3 | 1169.6 |
| 40° | 1310.4 | 1356.8 | 1230.9 | 1181.2 | 1176.3 | 1176.3 |
| 42.5° | 1247.5 | 1280.6 | 1225.9 | 1197.8 | 1197.8 | 1199.4 |
| 45° | 1181.2 | 1209.3 | 1237.6 | 1212.7 | 1221.0 | 1222.6 |
| 47.5° | 1134.9 | 1191.1 | 1237.6 | 1216.0 | 1232.6 | 1242.5 |
| 50° | 1091.8 | 1174.6 | 1212.7 | 1212.7 | 1230.9 | 1232.6 |
| 52.5° | 1081.8 | 1151.4 | 1189.5 | 1207.7 | 1209.3 | 1201.0 |
| 55° | 1083.5 | 1133.1 | 1171.3 | 1194.5 | 1184.6 | 1184.6 |
| 57.5° | 1081.8 | 1123.2 | 1156.3 | 1164.6 | 1169.6 | 1169.6 |
| 60° | 1083.5 | 1110.0 | 1136.5 | 1133.1 | 1149.7 | 1149.7 |
| 62.5° | 1088.4 | 1091.8 | 1105.0 | 1101.7 | 1126.6 | 1126.6 |
| 65° | 1100.1 | 1068.6 | 1060.3 | 1063.6 | 1093.4 | 1091.8 |
| 67.5° | 1121.6 | 1037.1 | 1010.6 | 1012.2 | 1055.3 | 1048.7 |
| 70° | 1153.1 | 994.0 | 954.2 | 944.3 | 1017.2 | 1005.6 |
| 72.5° | 1163.0 | 944.3 | 881.4 | 871.5 | 914.5 | 881.4 |
| 75° | 1116.7 | 904.6 | 803.5 | 770.4 | 752.2 | 742.2 |
| 77.5° | 995.6 | 879.7 | 722.3 | 652.7 | 624.6 | 618.0 |
| 80° | 825.0 | 828.4 | 616.3 | 533.5 | 619.6 | 618.0 |
| 82.5° | 622.9 | 715.7 | 493.7 | 462.2 | 449.0 | 374.4 |
| 85° | 301.6 | 538.4 | 379.4 | 318.0 | 190.5 | 180.6 |
| 87.5° | 26.5 | 225.4 | 218.7 | 142.5 | 64.7 | 61.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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