

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: P195333

Luminaire Tested: **NVN-AF-03-LED-U-T2R-7060-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P195333
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-03-LED-U-T2R-7060-1200
Description: NAVION ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20823 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 191
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

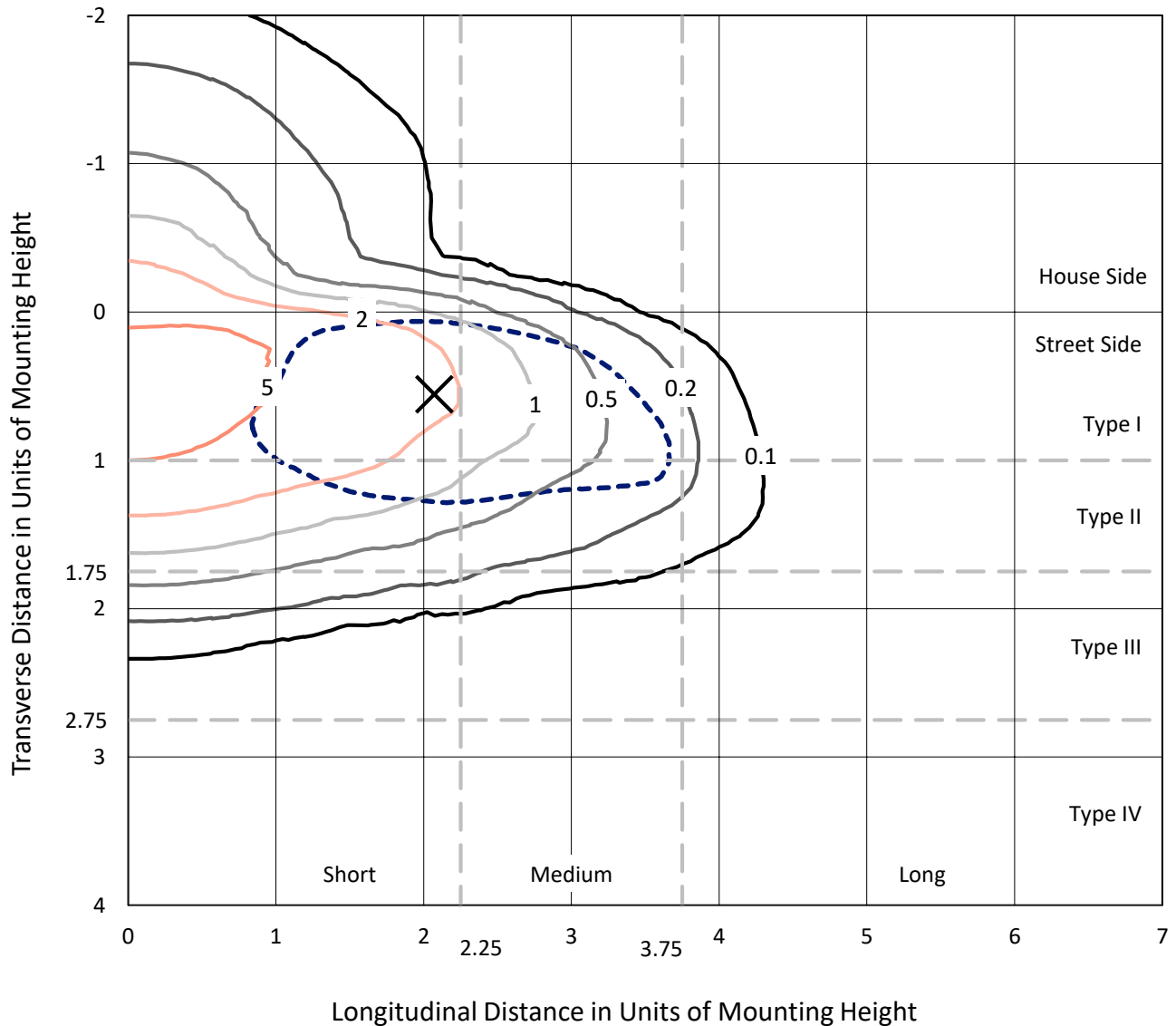


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CATALOG NUMBER: NVN-AF-03-LED-U-T2R-7060-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

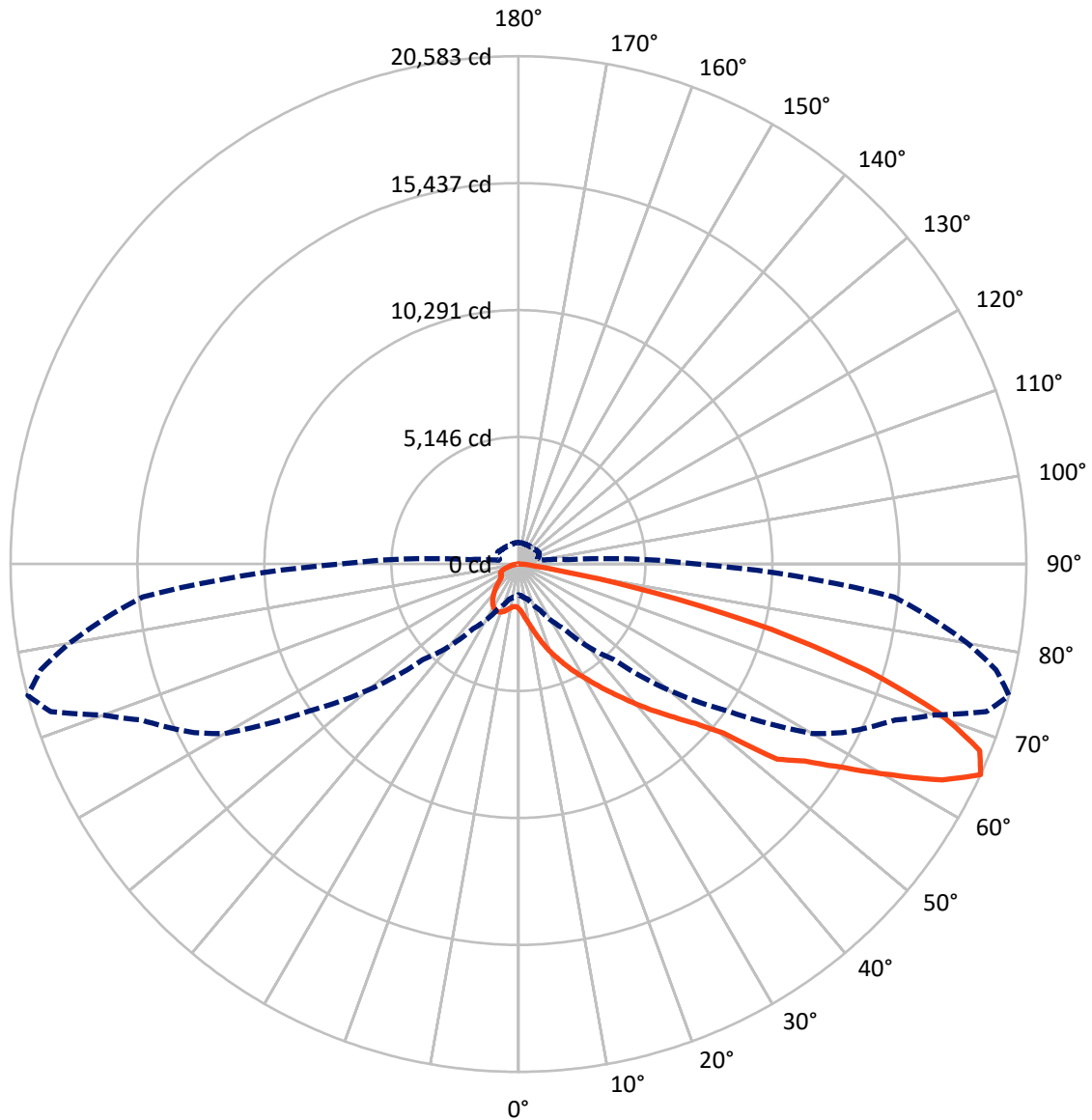


Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P195333

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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 | 3129.0 | 0.0 | 3129.0 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 17694.0 | 0.0 | 17694.0 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 20823.0 | 0.0 | 20823.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 213.0 | 1.0 |
| 10°-20° | 813.5 | 3.9 |
| 20°-30° | 1641.8 | 7.9 |
| 30°-40° | 2788.2 | 13.4 |
| 40°-50° | 3888.9 | 18.7 |
| 50°-60° | 4766.4 | 22.9 |
| 60°-70° | 4484.5 | 21.5 |
| 70°-80° | 1966.4 | 9.4 |
| 80°-90° | 260.2 | 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° | 20823.0 | 100.0 |
| 0°-180° | 20823.0 | 100.0 |



REPORT NUMBER: P195333

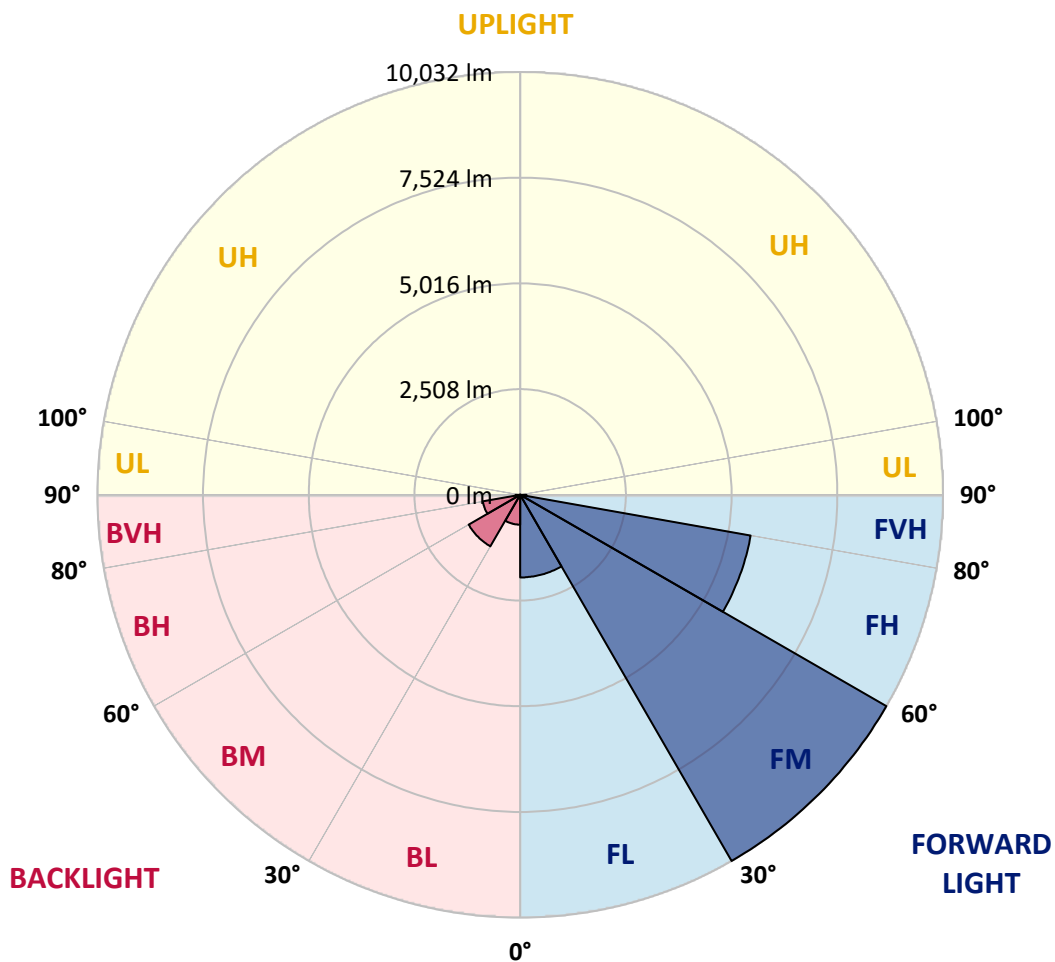
CATALOG NUMBER: NVN-AF-03-LED-U-T2R-7060-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1960.0 | 9.4 | | | |
| FM (30°-60°) | 10031.6 | 48.2 | | | |
| FH (60°-80°) | 5551.6 | 26.7 | | | G3/7500 |
| FVH (80°-90°) | 150.8 | 0.7 | | | G2/225 |
| BL (0°-30°) | 708.3 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 1412.0 | 6.8 | B2/2500 | | |
| BH (60°-80°) | 899.3 | 4.3 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 109.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P195333

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57.5° | 60° | 62.5° | 65° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 |
| 2.5° | 2271.8 | 2245.3 | 2247.9 | 2210.9 | 2156.5 | 2096.9 | 2047.9 | 2021.4 | 1998.9 | 1992.3 | 1955.2 |
| 5° | 2971.2 | 2938.1 | 2926.2 | 2841.4 | 2714.2 | 2563.2 | 2413.5 | 2355.2 | 2307.6 | 2278.4 | 2206.9 |
| 7.5° | 3543.5 | 3526.2 | 3510.3 | 3432.2 | 3306.3 | 3112.9 | 2871.9 | 2785.8 | 2706.3 | 2618.9 | 2532.7 |
| 10° | 3932.9 | 3926.3 | 3919.7 | 3865.4 | 3760.7 | 3592.5 | 3332.8 | 3238.8 | 3139.4 | 3028.2 | 2915.6 |
| 12.5° | 4227.0 | 4227.0 | 4232.3 | 4187.2 | 4123.7 | 3993.8 | 3758.1 | 3670.6 | 3570.0 | 3453.4 | 3324.9 |
| 15° | 4424.4 | 4429.7 | 4457.5 | 4470.7 | 4437.6 | 4354.2 | 4147.5 | 4070.7 | 3975.3 | 3860.1 | 3732.9 |
| 17.5° | 4555.5 | 4566.1 | 4607.2 | 4650.9 | 4693.3 | 4664.1 | 4510.5 | 4438.9 | 4352.8 | 4246.9 | 4127.6 |
| 20° | 4860.2 | 4846.9 | 4848.3 | 4835.0 | 4897.3 | 4919.8 | 4835.0 | 4775.4 | 4706.5 | 4609.8 | 4501.2 |
| 22.5° | 5500.0 | 5474.8 | 5409.9 | 5244.3 | 5168.8 | 5160.9 | 5110.5 | 5078.7 | 5025.8 | 4964.8 | 4856.2 |
| 25° | 6334.5 | 6305.4 | 6176.9 | 5904.0 | 5678.8 | 5470.8 | 5378.1 | 5358.2 | 5323.8 | 5282.7 | 5204.6 |
| 27.5° | 7196.9 | 7165.1 | 6999.5 | 6655.1 | 6361.0 | 5941.1 | 5652.3 | 5625.8 | 5594.0 | 5576.8 | 5539.7 |
| 30° | 7955.9 | 7921.5 | 7758.5 | 7408.8 | 7053.8 | 6553.1 | 6021.9 | 5929.2 | 5874.9 | 5880.2 | 5859.0 |
| 32.5° | 8622.2 | 8591.7 | 8408.9 | 8052.6 | 7692.3 | 7206.1 | 6501.4 | 6357.0 | 6235.2 | 6190.1 | 6206.0 |
| 35° | 9181.2 | 9153.4 | 8953.4 | 8594.4 | 8231.4 | 7827.4 | 7118.7 | 6901.5 | 6702.8 | 6578.3 | 6563.7 |
| 37.5° | 9509.7 | 9493.8 | 9353.4 | 9048.7 | 8688.4 | 8391.7 | 7810.2 | 7569.1 | 7276.4 | 7094.9 | 7015.4 |
| 40° | 9491.2 | 9508.4 | 9484.6 | 9346.8 | 9067.3 | 8851.4 | 8530.8 | 8292.4 | 8006.2 | 7736.0 | 7574.4 |
| 42.5° | 9221.0 | 9244.8 | 9352.1 | 9423.6 | 9348.1 | 9217.0 | 9160.0 | 8982.5 | 8725.5 | 8439.4 | 8215.5 |
| 45° | 8850.0 | 8871.2 | 9010.3 | 9268.6 | 9484.6 | 9521.6 | 9711.1 | 9622.3 | 9405.1 | 9161.3 | 8915.0 |
| 47.5° | 8281.8 | 8322.8 | 8484.4 | 8895.1 | 9409.1 | 9766.7 | 10173.4 | 10214.4 | 10088.6 | 9887.3 | 9656.8 |
| 50° | 7459.2 | 7513.5 | 7740.0 | 8324.2 | 9122.9 | 10018.4 | 10860.9 | 11017.2 | 10966.9 | 10762.9 | 10529.7 |
| 52.5° | 6616.7 | 6671.0 | 6973.0 | 7594.3 | 8661.9 | 10121.7 | 11537.8 | 11937.8 | 12226.6 | 12437.2 | 12478.3 |
| 55° | 5739.7 | 5800.7 | 6131.8 | 6847.2 | 8047.3 | 9990.6 | 12021.3 | 12475.6 | 12768.4 | 12988.3 | 13077.0 |
| 57.5° | 4750.2 | 4819.1 | 5139.7 | 5862.9 | 7178.3 | 9463.4 | 12559.1 | 13202.9 | 13638.7 | 13977.8 | 14168.6 |
| 60° | 3615.0 | 3701.1 | 4033.6 | 4762.1 | 6036.5 | 8454.0 | 12798.9 | 13751.3 | 14444.1 | 14952.8 | 15254.8 |
| 62.5° | 2291.7 | 2379.1 | 2724.8 | 3481.2 | 4737.0 | 7075.0 | 12120.6 | 13510.2 | 14691.8 | 15444.2 | 15997.9 |
| 65° | 1250.5 | 1288.9 | 1481.0 | 2050.6 | 3193.8 | 5489.4 | 10401.2 | 12039.8 | 13742.0 | 14808.4 | 15658.8 |
| 67.5° | 937.9 | 943.2 | 963.0 | 1102.1 | 1700.9 | 3706.4 | 8132.1 | 9632.9 | 11523.2 | 12895.6 | 13911.6 |
| 70° | 821.3 | 821.3 | 823.9 | 825.3 | 923.3 | 2008.2 | 5509.3 | 6890.9 | 8623.5 | 10011.8 | 11274.2 |
| 72.5° | 736.5 | 728.6 | 725.9 | 710.0 | 723.3 | 1029.3 | 2999.0 | 4240.2 | 5701.3 | 7259.1 | 8436.8 |
| 75° | 635.8 | 634.5 | 634.5 | 618.6 | 626.6 | 724.6 | 1300.8 | 2034.7 | 3167.3 | 4617.8 | 5776.8 |
| 77.5° | 549.7 | 540.5 | 541.8 | 532.5 | 557.7 | 555.0 | 617.3 | 838.5 | 1379.0 | 2425.5 | 3387.2 |
| 80° | 453.0 | 446.4 | 450.4 | 445.1 | 484.8 | 410.6 | 415.9 | 512.6 | 684.8 | 1063.7 | 1499.5 |
| 82.5° | 335.1 | 337.8 | 363.0 | 360.3 | 408.0 | 276.9 | 304.7 | 382.8 | 461.0 | 529.9 | 576.2 |
| 85° | 196.0 | 200.0 | 261.0 | 274.2 | 299.4 | 145.7 | 186.8 | 227.8 | 257.0 | 284.8 | 296.7 |
| 87.5° | 21.2 | 27.8 | 145.7 | 149.7 | 133.8 | 43.7 | 75.5 | 95.4 | 102.0 | 108.6 | 95.4 |
| 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-03-LED-U-T2R-7060-1200

CANDELA DISTRIBUTION (continued):

| | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° | 85° | 90° | 95° | 100° | 102.5° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 |
| 2.5° | 1943.3 | 1926.1 | 1907.5 | 1896.9 | 1878.4 | 1862.5 | 1833.3 | 1809.5 | 1783.0 | 1764.4 | 1756.5 |
| 5° | 2171.1 | 2130.1 | 2086.3 | 2054.5 | 2014.8 | 1980.4 | 1914.1 | 1834.7 | 1809.5 | 1756.5 | 1743.3 |
| 7.5° | 2467.8 | 2393.7 | 2319.5 | 2258.5 | 2189.7 | 2132.7 | 2021.4 | 1878.4 | 1859.8 | 1775.0 | 1756.5 |
| 10° | 2816.2 | 2707.6 | 2597.7 | 2503.6 | 2402.9 | 2315.5 | 2151.2 | 1949.9 | 1930.0 | 1821.4 | 1802.9 |
| 12.5° | 3205.7 | 3073.2 | 2931.5 | 2791.1 | 2671.8 | 2548.6 | 2324.8 | 2061.2 | 2029.4 | 1900.9 | 1875.7 |
| 15° | 3607.0 | 3464.0 | 3299.7 | 3130.2 | 2983.1 | 2820.2 | 2538.0 | 2206.9 | 2148.6 | 1997.6 | 1963.1 |
| 17.5° | 4003.1 | 3848.1 | 3675.9 | 3486.5 | 3314.3 | 3119.6 | 2768.5 | 2369.8 | 2269.1 | 2093.0 | 2049.2 |
| 20° | 4385.9 | 4228.3 | 4046.8 | 3861.4 | 3646.8 | 3424.2 | 3004.3 | 2530.1 | 2376.4 | 2172.4 | 2115.5 |
| 22.5° | 4734.3 | 4599.2 | 4417.7 | 4204.5 | 3987.2 | 3736.9 | 3244.1 | 2690.4 | 2470.5 | 2233.4 | 2160.5 |
| 25° | 5101.3 | 4978.1 | 4797.9 | 4592.6 | 4339.6 | 4061.4 | 3491.8 | 2842.7 | 2546.0 | 2266.5 | 2176.4 |
| 27.5° | 5472.2 | 5366.2 | 5196.6 | 4980.7 | 4709.2 | 4400.5 | 3743.5 | 2983.1 | 2606.9 | 2277.1 | 2168.5 |
| 30° | 5868.2 | 5786.1 | 5629.8 | 5388.7 | 5114.5 | 4772.7 | 4017.7 | 3120.9 | 2645.3 | 2262.5 | 2132.7 |
| 32.5° | 6243.1 | 6240.5 | 6101.4 | 5851.0 | 5555.6 | 5179.4 | 4306.5 | 3260.0 | 2665.2 | 2221.5 | 2070.4 |
| 35° | 6632.6 | 6686.9 | 6582.2 | 6343.8 | 6032.5 | 5615.2 | 4625.7 | 3408.3 | 2666.5 | 2148.6 | 1989.6 |
| 37.5° | 7075.0 | 7171.7 | 7125.3 | 6898.8 | 6571.6 | 6112.0 | 5000.6 | 3575.3 | 2658.6 | 2047.9 | 1871.7 |
| 40° | 7578.4 | 7710.8 | 7709.5 | 7518.8 | 7169.1 | 6668.3 | 5436.4 | 3762.0 | 2640.0 | 1922.1 | 1732.7 |
| 42.5° | 8154.6 | 8312.2 | 8355.9 | 8167.8 | 7814.2 | 7276.4 | 5935.8 | 3967.4 | 2610.9 | 1797.6 | 1585.6 |
| 45° | 8814.3 | 8953.4 | 9035.5 | 8860.6 | 8505.6 | 7938.7 | 6509.4 | 4200.5 | 2575.1 | 1637.3 | 1417.4 |
| 47.5° | 9520.3 | 9681.9 | 9805.1 | 9655.4 | 9276.6 | 8693.7 | 7188.9 | 4501.2 | 2561.9 | 1454.5 | 1235.9 |
| 50° | 10395.9 | 10562.8 | 10829.1 | 10761.5 | 10553.6 | 10084.6 | 8626.2 | 5211.2 | 2567.2 | 1280.9 | 1083.6 |
| 52.5° | 12568.4 | 12951.2 | 13287.7 | 13138.0 | 12643.9 | 11839.8 | 9794.5 | 5606.0 | 2455.9 | 1139.2 | 977.6 |
| 55° | 13224.1 | 13658.6 | 14155.3 | 14093.0 | 13618.8 | 12808.1 | 10717.8 | 5935.8 | 2348.6 | 1035.9 | 908.7 |
| 57.5° | 14371.2 | 14883.9 | 15578.0 | 15564.7 | 14983.2 | 14070.5 | 11906.0 | 6330.5 | 2302.3 | 976.3 | 874.3 |
| 60° | 15585.9 | 16239.0 | 17198.0 | 17347.7 | 16715.9 | 15766.1 | 13310.2 | 6815.4 | 2308.9 | 943.2 | 854.4 |
| 62.5° | 16473.5 | 17431.2 | 18826.1 | 19273.8 | 18529.3 | 17482.8 | 14767.3 | 7300.2 | 2269.1 | 904.7 | 830.6 |
| 65° | 16527.8 | 17906.7 | 19885.8 | 20582.6 | 19828.8 | 18484.3 | 15281.3 | 7204.8 | 2030.7 | 853.1 | 792.1 |
| 67.5° | 15203.1 | 16999.3 | 19403.6 | 20167.9 | 19397.0 | 17867.0 | 14380.5 | 6298.8 | 1650.5 | 763.0 | 725.9 |
| 70° | 12662.4 | 14747.4 | 17243.1 | 18094.8 | 17457.7 | 15909.2 | 12515.4 | 5031.1 | 1233.3 | 643.8 | 626.6 |
| 72.5° | 9785.3 | 11729.9 | 13996.3 | 14784.5 | 14297.0 | 12935.3 | 9871.4 | 3666.7 | 880.9 | 521.9 | 508.7 |
| 75° | 6995.5 | 8651.3 | 10296.6 | 10597.3 | 10116.4 | 8865.9 | 6404.7 | 2290.3 | 617.3 | 427.9 | 409.3 |
| 77.5° | 4331.6 | 5408.6 | 5999.4 | 5612.6 | 4999.3 | 4155.5 | 2606.9 | 1131.3 | 410.6 | 348.4 | 329.8 |
| 80° | 1922.1 | 2255.9 | 2106.2 | 1877.0 | 1482.3 | 1218.7 | 796.1 | 502.0 | 264.9 | 268.9 | 258.3 |
| 82.5° | 646.4 | 683.5 | 665.0 | 661.0 | 596.1 | 521.9 | 337.8 | 217.2 | 148.4 | 172.2 | 168.2 |
| 85° | 315.3 | 329.8 | 331.2 | 343.1 | 298.0 | 231.8 | 91.4 | 86.1 | 63.6 | 92.7 | 96.7 |
| 87.5° | 95.4 | 96.7 | 87.4 | 95.4 | 76.8 | 53.0 | 17.2 | 23.8 | 11.9 | 22.5 | 22.5 |
| 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° | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 |
| 2.5° | 1741.9 | 1736.6 | 1727.4 | 1716.8 | 1714.1 | 1700.9 | 1696.9 | 1690.3 | 1686.3 | 1679.7 | 1674.4 |
| 5° | 1726.0 | 1716.8 | 1706.2 | 1694.2 | 1694.2 | 1675.7 | 1667.7 | 1659.8 | 1659.8 | 1647.9 | 1642.6 |
| 7.5° | 1741.9 | 1730.0 | 1718.1 | 1707.5 | 1711.5 | 1690.3 | 1682.3 | 1674.4 | 1673.0 | 1661.1 | 1655.8 |
| 10° | 1787.0 | 1775.0 | 1760.5 | 1749.9 | 1745.9 | 1728.7 | 1719.4 | 1707.5 | 1699.5 | 1691.6 | 1683.6 |
| 12.5° | 1855.8 | 1840.0 | 1821.4 | 1798.9 | 1789.6 | 1775.0 | 1760.5 | 1744.6 | 1726.0 | 1718.1 | 1706.2 |
| 15° | 1938.0 | 1911.5 | 1886.3 | 1858.5 | 1833.3 | 1818.8 | 1798.9 | 1773.7 | 1748.5 | 1738.0 | 1722.1 |
| 17.5° | 2005.5 | 1977.7 | 1942.0 | 1908.8 | 1863.8 | 1851.9 | 1824.1 | 1793.6 | 1752.5 | 1748.5 | 1724.7 |
| 20° | 2062.5 | 2020.1 | 1976.4 | 1936.7 | 1867.8 | 1861.1 | 1826.7 | 1790.9 | 1732.7 | 1732.7 | 1703.5 |
| 22.5° | 2094.3 | 2036.0 | 1984.3 | 1931.4 | 1845.2 | 1840.0 | 1800.2 | 1757.8 | 1686.3 | 1688.9 | 1653.2 |
| 25° | 2099.6 | 2029.4 | 1964.5 | 1900.9 | 1801.5 | 1792.3 | 1741.9 | 1695.6 | 1617.4 | 1612.1 | 1575.0 |
| 27.5° | 2078.4 | 1996.3 | 1920.8 | 1843.9 | 1736.6 | 1716.8 | 1661.1 | 1605.5 | 1528.7 | 1515.4 | 1475.7 |
| 30° | 2029.4 | 1932.7 | 1847.9 | 1759.1 | 1646.6 | 1614.8 | 1556.5 | 1499.5 | 1421.4 | 1404.1 | 1367.0 |
| 32.5° | 1951.2 | 1841.3 | 1747.2 | 1658.5 | 1534.0 | 1494.2 | 1435.9 | 1379.0 | 1303.5 | 1290.2 | 1255.8 |
| 35° | 1847.9 | 1724.7 | 1625.4 | 1531.3 | 1406.8 | 1365.7 | 1310.1 | 1259.8 | 1190.9 | 1185.6 | 1161.7 |
| 37.5° | 1718.1 | 1589.6 | 1483.6 | 1393.5 | 1275.6 | 1254.5 | 1197.5 | 1160.4 | 1103.4 | 1108.7 | 1096.8 |
| 40° | 1571.0 | 1439.9 | 1339.2 | 1259.8 | 1157.8 | 1139.2 | 1104.8 | 1076.9 | 1027.9 | 1042.5 | 1043.8 |
| 42.5° | 1422.7 | 1291.5 | 1200.1 | 1128.6 | 1041.2 | 1029.3 | 1005.4 | 989.5 | 952.4 | 981.6 | 993.5 |
| 45° | 1254.5 | 1132.6 | 1054.4 | 1000.1 | 935.2 | 935.2 | 923.3 | 922.0 | 896.8 | 937.9 | 949.8 |
| 47.5° | 1091.5 | 996.1 | 941.8 | 908.7 | 863.7 | 884.9 | 880.9 | 891.5 | 873.0 | 915.3 | 925.9 |
| 50° | 968.3 | 902.1 | 869.0 | 853.1 | 821.3 | 854.4 | 862.4 | 876.9 | 861.0 | 898.1 | 906.1 |
| 52.5° | 890.2 | 846.5 | 827.9 | 823.9 | 801.4 | 842.5 | 855.7 | 869.0 | 850.4 | 884.9 | 883.5 |
| 55° | 846.5 | 817.3 | 810.7 | 818.6 | 801.4 | 841.2 | 854.4 | 863.7 | 847.8 | 871.6 | 870.3 |
| 57.5° | 830.6 | 814.7 | 818.6 | 830.6 | 818.6 | 851.8 | 858.4 | 869.0 | 853.1 | 863.7 | 869.0 |
| 60° | 829.2 | 829.2 | 845.1 | 861.0 | 853.1 | 876.9 | 880.9 | 879.6 | 865.0 | 866.3 | 869.0 |
| 62.5° | 821.3 | 841.2 | 867.7 | 892.8 | 890.2 | 919.3 | 922.0 | 904.7 | 892.8 | 879.6 | 875.6 |
| 65° | 796.1 | 829.2 | 867.7 | 902.1 | 907.4 | 952.4 | 957.7 | 940.5 | 932.6 | 910.0 | 892.8 |
| 67.5° | 740.5 | 782.9 | 827.9 | 870.3 | 879.6 | 940.5 | 952.4 | 959.1 | 963.0 | 948.5 | 925.9 |
| 70° | 646.4 | 690.1 | 736.5 | 785.5 | 798.8 | 866.3 | 891.5 | 922.0 | 945.8 | 967.0 | 959.1 |
| 72.5° | 525.9 | 565.6 | 605.4 | 650.4 | 670.3 | 740.5 | 773.6 | 826.6 | 863.7 | 918.0 | 940.5 |
| 75° | 417.3 | 441.1 | 465.0 | 492.8 | 508.7 | 577.6 | 618.6 | 682.2 | 732.5 | 808.0 | 858.4 |
| 77.5° | 328.5 | 340.4 | 352.4 | 364.3 | 370.9 | 409.3 | 442.4 | 506.0 | 564.3 | 659.7 | 733.9 |
| 80° | 253.0 | 259.6 | 261.0 | 264.9 | 262.3 | 280.8 | 292.7 | 331.2 | 381.5 | 475.6 | 563.0 |
| 82.5° | 162.9 | 168.2 | 170.9 | 177.5 | 164.3 | 188.1 | 196.0 | 200.0 | 226.5 | 295.4 | 357.7 |
| 85° | 91.4 | 92.7 | 94.1 | 96.7 | 78.2 | 102.0 | 103.3 | 96.7 | 94.1 | 121.9 | 137.8 |
| 87.5° | 22.5 | 21.2 | 22.5 | 22.5 | 9.3 | 21.2 | 21.2 | 14.6 | 10.6 | 19.9 | 15.9 |
| 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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| 0° | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 | 1804.2 |
| 2.5° | 1662.4 | 1659.8 | 1661.1 | 1654.5 | 1651.8 | 1653.2 |
| 5° | 1636.0 | 1630.7 | 1630.7 | 1626.7 | 1621.4 | 1621.4 |
| 7.5° | 1647.9 | 1637.3 | 1633.3 | 1625.4 | 1617.4 | 1618.7 |
| 10° | 1666.4 | 1647.9 | 1634.6 | 1622.7 | 1613.4 | 1613.4 |
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| 17.5° | 1665.1 | 1601.5 | 1564.4 | 1541.9 | 1530.0 | 1532.6 |
| 20° | 1625.4 | 1547.2 | 1503.5 | 1479.6 | 1467.7 | 1469.0 |
| 22.5° | 1563.1 | 1473.0 | 1422.7 | 1394.9 | 1382.9 | 1382.9 |
| 25° | 1478.3 | 1380.3 | 1326.0 | 1303.5 | 1292.9 | 1292.9 |
| 27.5° | 1381.6 | 1280.9 | 1233.3 | 1216.0 | 1209.4 | 1209.4 |
| 30° | 1273.0 | 1189.5 | 1155.1 | 1143.2 | 1132.6 | 1132.6 |
| 32.5° | 1181.6 | 1122.0 | 1110.1 | 1094.2 | 1066.4 | 1065.0 |
| 35° | 1108.7 | 1102.1 | 1092.8 | 1045.2 | 1005.4 | 1000.1 |
| 37.5° | 1069.0 | 1108.7 | 1050.5 | 968.3 | 936.5 | 935.2 |
| 40° | 1047.8 | 1084.9 | 984.2 | 944.5 | 940.5 | 940.5 |
| 42.5° | 997.5 | 1024.0 | 980.2 | 957.7 | 957.7 | 959.1 |
| 45° | 944.5 | 967.0 | 989.5 | 969.7 | 976.3 | 977.6 |
| 47.5° | 907.4 | 952.4 | 989.5 | 972.3 | 985.5 | 993.5 |
| 50° | 873.0 | 939.2 | 969.7 | 969.7 | 984.2 | 985.5 |
| 52.5° | 865.0 | 920.6 | 951.1 | 965.7 | 967.0 | 960.4 |
| 55° | 866.3 | 906.1 | 936.5 | 955.1 | 947.1 | 947.1 |
| 57.5° | 865.0 | 898.1 | 924.6 | 931.2 | 935.2 | 935.2 |
| 60° | 866.3 | 887.5 | 908.7 | 906.1 | 919.3 | 919.3 |
| 62.5° | 870.3 | 873.0 | 883.5 | 880.9 | 900.8 | 900.8 |
| 65° | 879.6 | 854.4 | 847.8 | 850.4 | 874.3 | 873.0 |
| 67.5° | 896.8 | 829.2 | 808.0 | 809.4 | 843.8 | 838.5 |
| 70° | 922.0 | 794.8 | 763.0 | 755.1 | 813.3 | 804.1 |
| 72.5° | 929.9 | 755.1 | 704.7 | 696.8 | 731.2 | 704.7 |
| 75° | 892.8 | 723.3 | 642.5 | 616.0 | 601.4 | 593.4 |
| 77.5° | 796.1 | 703.4 | 577.6 | 521.9 | 499.4 | 494.1 |
| 80° | 659.7 | 662.3 | 492.8 | 426.5 | 495.4 | 494.1 |
| 82.5° | 498.1 | 572.3 | 394.7 | 369.6 | 359.0 | 299.4 |
| 85° | 241.1 | 430.5 | 303.3 | 254.3 | 152.3 | 144.4 |
| 87.5° | 21.2 | 180.2 | 174.9 | 113.9 | 51.7 | 49.0 |
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