

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: P199082

Luminaire Tested: **XNV-AF-01-LED-U-T2R-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199082
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: XNV-AF-01-LED-U-T2R-7060-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4176 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

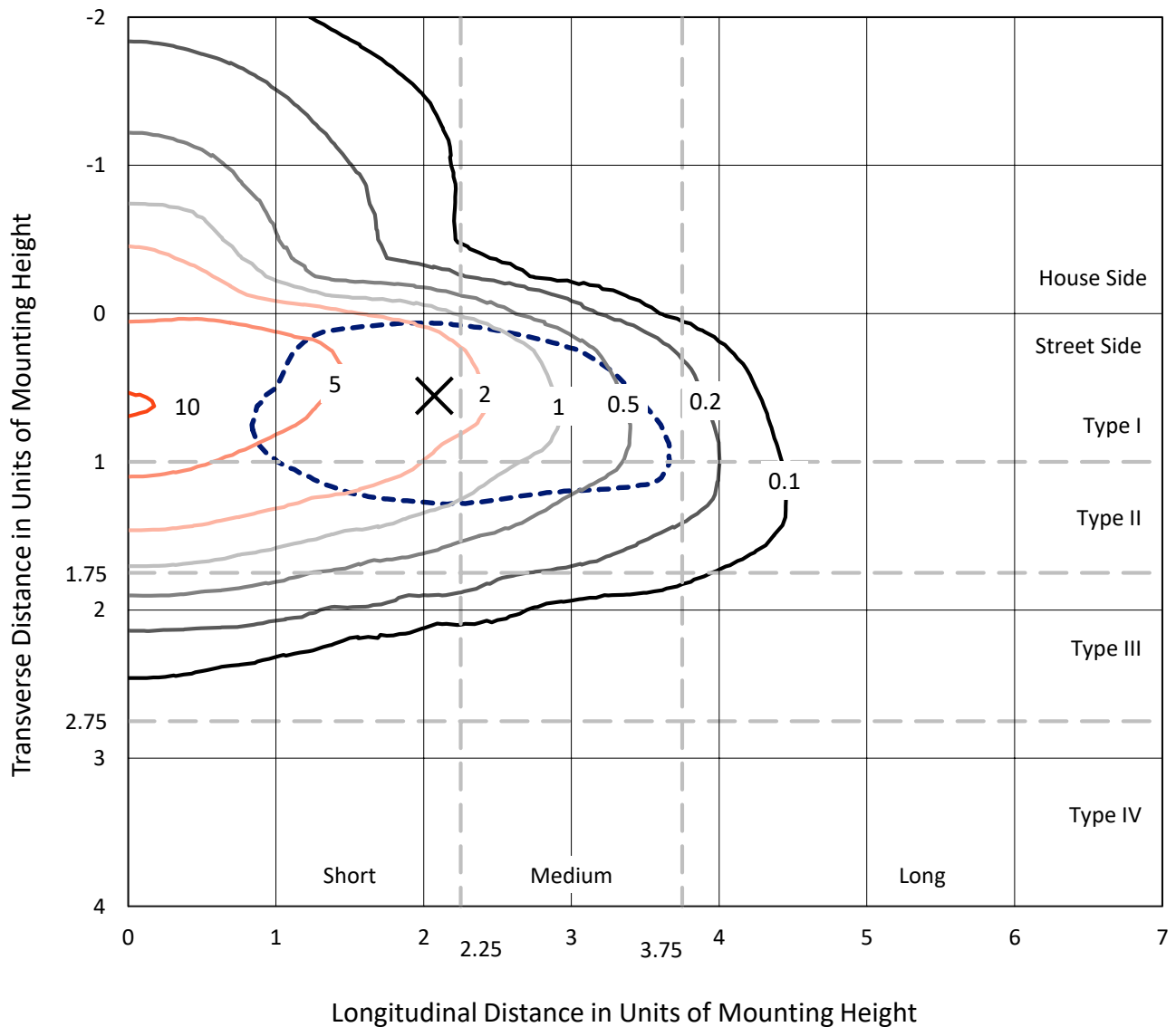
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

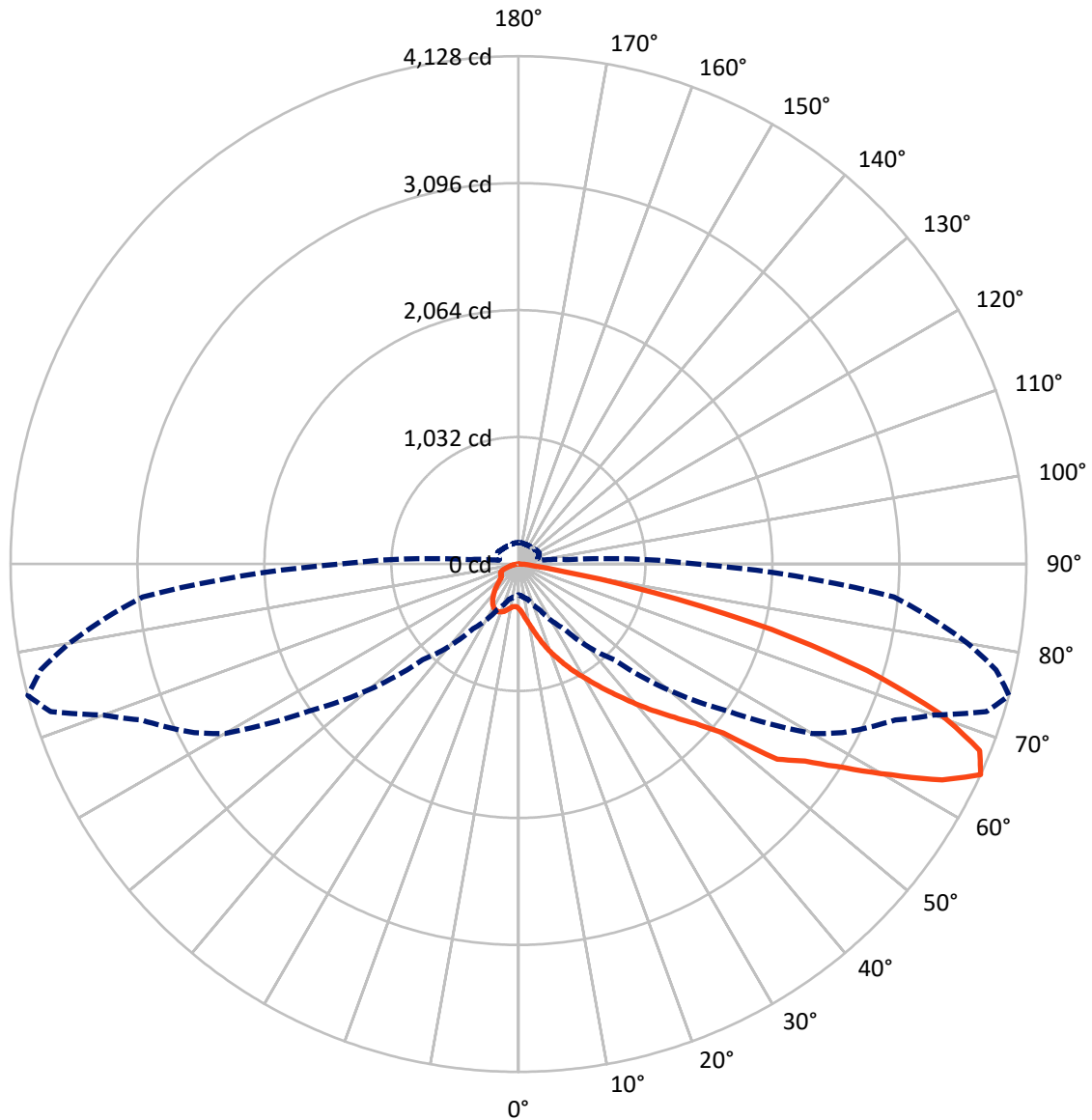
× Max cd
 - - - 1/2 Max cd



Based on 10 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 | 627.5 | 0.0 | 627.5 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 3548.5 | 0.0 | 3548.5 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 4176.0 | 0.0 | 4176.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 42.7 | 1.0 |
| 10°-20° | 163.2 | 3.9 |
| 20°-30° | 329.3 | 7.9 |
| 30°-40° | 559.2 | 13.4 |
| 40°-50° | 779.9 | 18.7 |
| 50°-60° | 955.9 | 22.9 |
| 60°-70° | 899.4 | 21.5 |
| 70°-80° | 394.4 | 9.4 |
| 80°-90° | 52.2 | 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° | 4176.0 | 100.0 |
| 0°-180° | 4176.0 | 100.0 |



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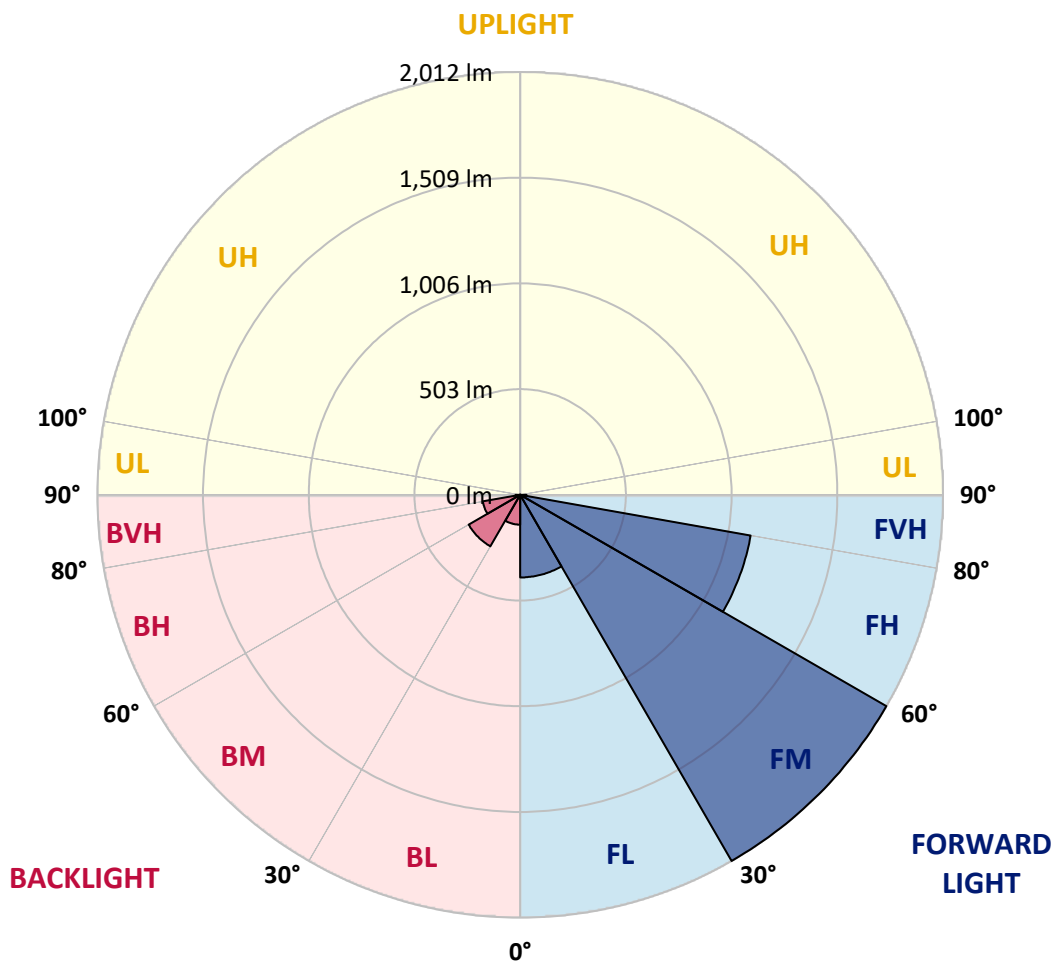
CATALOG NUMBER: XNV-AF-01-LED-U-T2R-7060-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 393.1 | 9.4 | | | |
| FM | (30°-60°) | 2011.8 | 48.2 | | | |
| FH | (60°-80°) | 1113.4 | 26.7 | | | G1/1800 |
| FVH | (80°-90°) | 30.2 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 142.1 | 3.4 | B1/500 | | |
| BM | (30°-60°) | 283.2 | 6.8 | B1/1000 | | |
| BH | (60°-80°) | 180.4 | 4.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 21.9 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57.5° | 60° | 62.5° | 65° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 |
| 2.5° | 455.6 | 450.3 | 450.8 | 443.4 | 432.5 | 420.5 | 410.7 | 405.4 | 400.9 | 399.5 | 392.1 |
| 5° | 595.9 | 589.2 | 586.8 | 569.8 | 544.3 | 514.0 | 484.0 | 472.3 | 462.8 | 456.9 | 442.6 |
| 7.5° | 710.6 | 707.2 | 704.0 | 688.3 | 663.1 | 624.3 | 575.9 | 558.7 | 542.7 | 525.2 | 507.9 |
| 10° | 788.7 | 787.4 | 786.1 | 775.2 | 754.2 | 720.5 | 668.4 | 649.5 | 629.6 | 607.3 | 584.7 |
| 12.5° | 847.7 | 847.7 | 848.8 | 839.7 | 827.0 | 801.0 | 753.7 | 736.1 | 715.9 | 692.6 | 666.8 |
| 15° | 887.3 | 888.4 | 893.9 | 896.6 | 890.0 | 873.2 | 831.8 | 816.4 | 797.2 | 774.1 | 748.6 |
| 17.5° | 913.6 | 915.7 | 924.0 | 932.7 | 941.2 | 935.4 | 904.6 | 890.2 | 872.9 | 851.7 | 827.8 |
| 20° | 974.7 | 972.0 | 972.3 | 969.6 | 982.1 | 986.7 | 969.6 | 957.7 | 943.9 | 924.5 | 902.7 |
| 22.5° | 1103.0 | 1098.0 | 1084.9 | 1051.7 | 1036.6 | 1035.0 | 1024.9 | 1018.5 | 1007.9 | 995.7 | 973.9 |
| 25° | 1270.4 | 1264.5 | 1238.8 | 1184.0 | 1138.9 | 1097.2 | 1078.6 | 1074.6 | 1067.7 | 1059.4 | 1043.8 |
| 27.5° | 1443.3 | 1436.9 | 1403.7 | 1334.7 | 1275.7 | 1191.5 | 1133.6 | 1128.2 | 1121.9 | 1118.4 | 1111.0 |
| 30° | 1595.5 | 1588.6 | 1556.0 | 1485.8 | 1414.6 | 1314.2 | 1207.7 | 1189.1 | 1178.2 | 1179.3 | 1175.0 |
| 32.5° | 1729.2 | 1723.1 | 1686.4 | 1614.9 | 1542.7 | 1445.2 | 1303.8 | 1274.9 | 1250.4 | 1241.4 | 1244.6 |
| 35° | 1841.3 | 1835.7 | 1795.6 | 1723.6 | 1650.8 | 1569.8 | 1427.6 | 1384.1 | 1344.2 | 1319.3 | 1316.3 |
| 37.5° | 1907.2 | 1904.0 | 1875.8 | 1814.7 | 1742.4 | 1682.9 | 1566.3 | 1518.0 | 1459.3 | 1422.9 | 1406.9 |
| 40° | 1903.4 | 1906.9 | 1902.1 | 1874.5 | 1818.4 | 1775.1 | 1710.8 | 1663.0 | 1605.6 | 1551.4 | 1519.0 |
| 42.5° | 1849.2 | 1854.0 | 1875.5 | 1889.9 | 1874.7 | 1848.4 | 1837.0 | 1801.4 | 1749.9 | 1692.5 | 1647.6 |
| 45° | 1774.9 | 1779.1 | 1807.0 | 1858.8 | 1902.1 | 1909.5 | 1947.5 | 1929.7 | 1886.2 | 1837.3 | 1787.9 |
| 47.5° | 1660.9 | 1669.1 | 1701.5 | 1783.9 | 1887.0 | 1958.7 | 2040.2 | 2048.5 | 2023.2 | 1982.9 | 1936.6 |
| 50° | 1495.9 | 1506.8 | 1552.2 | 1669.4 | 1829.6 | 2009.2 | 2178.1 | 2209.5 | 2199.4 | 2158.5 | 2111.7 |
| 52.5° | 1327.0 | 1337.8 | 1398.4 | 1523.0 | 1737.1 | 2029.9 | 2313.9 | 2394.1 | 2452.0 | 2494.3 | 2502.5 |
| 55° | 1151.1 | 1163.3 | 1229.7 | 1373.2 | 1613.9 | 2003.6 | 2410.8 | 2502.0 | 2560.7 | 2604.8 | 2622.6 |
| 57.5° | 952.6 | 966.5 | 1030.7 | 1175.8 | 1439.6 | 1897.9 | 2518.7 | 2647.8 | 2735.2 | 2803.2 | 2841.5 |
| 60° | 725.0 | 742.2 | 808.9 | 955.0 | 1210.6 | 1695.4 | 2566.8 | 2757.8 | 2896.7 | 2998.7 | 3059.3 |
| 62.5° | 459.6 | 477.1 | 546.5 | 698.1 | 950.0 | 1418.9 | 2430.8 | 2709.4 | 2946.4 | 3097.3 | 3208.3 |
| 65° | 250.8 | 258.5 | 297.0 | 411.2 | 640.5 | 1100.9 | 2085.9 | 2414.6 | 2755.9 | 2969.8 | 3140.3 |
| 67.5° | 188.1 | 189.1 | 193.1 | 221.0 | 341.1 | 743.3 | 1630.9 | 1931.9 | 2311.0 | 2586.2 | 2789.9 |
| 70° | 164.7 | 164.7 | 165.2 | 165.5 | 185.2 | 402.7 | 1104.9 | 1381.9 | 1729.4 | 2007.8 | 2261.0 |
| 72.5° | 147.7 | 146.1 | 145.6 | 142.4 | 145.0 | 206.4 | 601.4 | 850.4 | 1143.4 | 1455.8 | 1692.0 |
| 75° | 127.5 | 127.2 | 127.2 | 124.1 | 125.7 | 145.3 | 260.9 | 408.0 | 635.2 | 926.1 | 1158.5 |
| 77.5° | 110.2 | 108.4 | 108.7 | 106.8 | 111.8 | 111.3 | 123.8 | 168.2 | 276.5 | 486.4 | 679.3 |
| 80° | 90.9 | 89.5 | 90.3 | 89.3 | 97.2 | 82.4 | 83.4 | 102.8 | 137.3 | 213.3 | 300.7 |
| 82.5° | 67.2 | 67.7 | 72.8 | 72.3 | 81.8 | 55.5 | 61.1 | 76.8 | 92.4 | 106.3 | 115.6 |
| 85° | 39.3 | 40.1 | 52.3 | 55.0 | 60.0 | 29.2 | 37.5 | 45.7 | 51.5 | 57.1 | 59.5 |
| 87.5° | 4.3 | 5.6 | 29.2 | 30.0 | 26.8 | 8.8 | 15.1 | 19.1 | 20.5 | 21.8 | 19.1 |
| 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):

| | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° | 85° | 90° | 95° | 100° | 102.5° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--------|
| 0° | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 |
| 2.5° | 389.7 | 386.3 | 382.5 | 380.4 | 376.7 | 373.5 | 367.7 | 362.9 | 357.6 | 353.9 | 352.3 |
| 5° | 435.4 | 427.2 | 418.4 | 412.0 | 404.1 | 397.2 | 383.9 | 367.9 | 362.9 | 352.3 | 349.6 |
| 7.5° | 494.9 | 480.0 | 465.2 | 452.9 | 439.1 | 427.7 | 405.4 | 376.7 | 373.0 | 356.0 | 352.3 |
| 10° | 564.8 | 543.0 | 521.0 | 502.1 | 481.9 | 464.4 | 431.4 | 391.0 | 387.1 | 365.3 | 361.6 |
| 12.5° | 642.9 | 616.3 | 587.9 | 559.7 | 535.8 | 511.1 | 466.2 | 413.4 | 407.0 | 381.2 | 376.2 |
| 15° | 723.4 | 694.7 | 661.8 | 627.7 | 598.3 | 565.6 | 509.0 | 442.6 | 430.9 | 400.6 | 393.7 |
| 17.5° | 802.8 | 771.7 | 737.2 | 699.2 | 664.7 | 625.6 | 555.2 | 475.3 | 455.1 | 419.7 | 411.0 |
| 20° | 879.6 | 848.0 | 811.6 | 774.4 | 731.4 | 686.7 | 602.5 | 507.4 | 476.6 | 435.7 | 424.3 |
| 22.5° | 949.5 | 922.4 | 886.0 | 843.2 | 799.6 | 749.4 | 650.6 | 539.5 | 495.5 | 447.9 | 433.3 |
| 25° | 1023.0 | 998.3 | 962.2 | 921.0 | 870.3 | 814.5 | 700.3 | 570.1 | 510.6 | 454.5 | 436.5 |
| 27.5° | 1097.4 | 1076.2 | 1042.2 | 998.9 | 944.4 | 882.5 | 750.7 | 598.3 | 522.8 | 456.7 | 434.9 |
| 30° | 1176.9 | 1160.4 | 1129.0 | 1080.7 | 1025.7 | 957.2 | 805.7 | 625.9 | 530.5 | 453.7 | 427.7 |
| 32.5° | 1252.0 | 1251.5 | 1223.6 | 1173.4 | 1114.2 | 1038.7 | 863.7 | 653.8 | 534.5 | 445.5 | 415.2 |
| 35° | 1330.1 | 1341.0 | 1320.0 | 1272.2 | 1209.8 | 1126.1 | 927.7 | 683.5 | 534.8 | 430.9 | 399.0 |
| 37.5° | 1418.9 | 1438.3 | 1429.0 | 1383.5 | 1317.9 | 1225.7 | 1002.9 | 717.0 | 533.2 | 410.7 | 375.4 |
| 40° | 1519.8 | 1546.4 | 1546.1 | 1507.9 | 1437.7 | 1337.3 | 1090.3 | 754.5 | 529.5 | 385.5 | 347.5 |
| 42.5° | 1635.4 | 1667.0 | 1675.8 | 1638.0 | 1567.1 | 1459.3 | 1190.4 | 795.6 | 523.6 | 360.5 | 318.0 |
| 45° | 1767.7 | 1795.6 | 1812.0 | 1777.0 | 1705.8 | 1592.1 | 1305.4 | 842.4 | 516.4 | 328.4 | 284.3 |
| 47.5° | 1909.3 | 1941.7 | 1966.4 | 1936.4 | 1860.4 | 1743.5 | 1441.7 | 902.7 | 513.8 | 291.7 | 247.9 |
| 50° | 2084.9 | 2118.3 | 2171.7 | 2158.2 | 2116.5 | 2022.4 | 1730.0 | 1045.1 | 514.8 | 256.9 | 217.3 |
| 52.5° | 2520.6 | 2597.3 | 2664.8 | 2634.8 | 2535.7 | 2374.4 | 1964.3 | 1124.3 | 492.5 | 228.5 | 196.1 |
| 55° | 2652.1 | 2739.2 | 2838.8 | 2826.3 | 2731.2 | 2568.6 | 2149.4 | 1190.4 | 471.0 | 207.7 | 182.2 |
| 57.5° | 2882.1 | 2984.9 | 3124.1 | 3121.5 | 3004.8 | 2821.8 | 2387.7 | 1269.6 | 461.7 | 195.8 | 175.3 |
| 60° | 3125.7 | 3256.7 | 3449.0 | 3479.0 | 3352.3 | 3161.8 | 2669.3 | 1366.8 | 463.0 | 189.1 | 171.3 |
| 62.5° | 3303.7 | 3495.8 | 3775.5 | 3865.3 | 3716.0 | 3506.1 | 2961.5 | 1464.0 | 455.1 | 181.4 | 166.6 |
| 65° | 3314.6 | 3591.2 | 3988.0 | 4127.8 | 3976.6 | 3707.0 | 3064.6 | 1444.9 | 407.3 | 171.1 | 158.9 |
| 67.5° | 3048.9 | 3409.2 | 3891.3 | 4044.6 | 3890.0 | 3583.2 | 2884.0 | 1263.2 | 331.0 | 153.0 | 145.6 |
| 70° | 2539.4 | 2957.6 | 3458.1 | 3628.9 | 3501.1 | 3190.5 | 2509.9 | 1009.0 | 247.3 | 129.1 | 125.7 |
| 72.5° | 1962.4 | 2352.4 | 2806.9 | 2965.0 | 2867.2 | 2594.1 | 1979.7 | 735.3 | 176.7 | 104.7 | 102.0 |
| 75° | 1402.9 | 1735.0 | 2065.0 | 2125.3 | 2028.8 | 1778.0 | 1284.5 | 459.3 | 123.8 | 85.8 | 82.1 |
| 77.5° | 868.7 | 1084.7 | 1203.2 | 1125.6 | 1002.6 | 833.4 | 522.8 | 226.9 | 82.4 | 69.9 | 66.1 |
| 80° | 385.5 | 452.4 | 422.4 | 376.4 | 297.3 | 244.4 | 159.7 | 100.7 | 53.1 | 53.9 | 51.8 |
| 82.5° | 129.6 | 137.1 | 133.4 | 132.6 | 119.5 | 104.7 | 67.7 | 43.6 | 29.8 | 34.5 | 33.7 |
| 85° | 63.2 | 66.1 | 66.4 | 68.8 | 59.8 | 46.5 | 18.3 | 17.3 | 12.8 | 18.6 | 19.4 |
| 87.5° | 19.1 | 19.4 | 17.5 | 19.1 | 15.4 | 10.6 | 3.5 | 4.8 | 2.4 | 4.5 | 4.5 |
| 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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CATALOG NUMBER: XNV-AF-01-LED-U-T2R-7060-600

CANDELA DISTRIBUTION (continued):

| | 105° | 107.5° | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° |
|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0° | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 |
| 2.5° | 349.3 | 348.3 | 346.4 | 344.3 | 343.8 | 341.1 | 340.3 | 339.0 | 338.2 | 336.9 | 335.8 |
| 5° | 346.2 | 344.3 | 342.2 | 339.8 | 339.8 | 336.1 | 334.5 | 332.9 | 332.9 | 330.5 | 329.4 |
| 7.5° | 349.3 | 346.9 | 344.6 | 342.4 | 343.2 | 339.0 | 337.4 | 335.8 | 335.5 | 333.1 | 332.1 |
| 10° | 358.4 | 356.0 | 353.1 | 350.9 | 350.1 | 346.7 | 344.8 | 342.4 | 340.8 | 339.2 | 337.7 |
| 12.5° | 372.2 | 369.0 | 365.3 | 360.8 | 358.9 | 356.0 | 353.1 | 349.9 | 346.2 | 344.6 | 342.2 |
| 15° | 388.7 | 383.3 | 378.3 | 372.7 | 367.7 | 364.7 | 360.8 | 355.7 | 350.7 | 348.5 | 345.4 |
| 17.5° | 402.2 | 396.6 | 389.5 | 382.8 | 373.8 | 371.4 | 365.8 | 359.7 | 351.5 | 350.7 | 345.9 |
| 20° | 413.6 | 405.1 | 396.4 | 388.4 | 374.6 | 373.2 | 366.3 | 359.2 | 347.5 | 347.5 | 341.6 |
| 22.5° | 420.0 | 408.3 | 398.0 | 387.3 | 370.1 | 369.0 | 361.0 | 352.5 | 338.2 | 338.7 | 331.5 |
| 25° | 421.1 | 407.0 | 394.0 | 381.2 | 361.3 | 359.4 | 349.3 | 340.0 | 324.4 | 323.3 | 315.9 |
| 27.5° | 416.8 | 400.3 | 385.2 | 369.8 | 348.3 | 344.3 | 333.1 | 322.0 | 306.6 | 303.9 | 295.9 |
| 30° | 407.0 | 387.6 | 370.6 | 352.8 | 330.2 | 323.8 | 312.1 | 300.7 | 285.0 | 281.6 | 274.2 |
| 32.5° | 391.3 | 369.3 | 350.4 | 332.6 | 307.6 | 299.7 | 288.0 | 276.5 | 261.4 | 258.7 | 251.8 |
| 35° | 370.6 | 345.9 | 326.0 | 307.1 | 282.1 | 273.9 | 262.7 | 252.6 | 238.8 | 237.8 | 233.0 |
| 37.5° | 344.6 | 318.8 | 297.5 | 279.5 | 255.8 | 251.6 | 240.2 | 232.7 | 221.3 | 222.4 | 220.0 |
| 40° | 315.1 | 288.8 | 268.6 | 252.6 | 232.2 | 228.5 | 221.6 | 216.0 | 206.1 | 209.1 | 209.3 |
| 42.5° | 285.3 | 259.0 | 240.7 | 226.3 | 208.8 | 206.4 | 201.6 | 198.4 | 191.0 | 196.9 | 199.2 |
| 45° | 251.6 | 227.1 | 211.5 | 200.6 | 187.6 | 187.6 | 185.2 | 184.9 | 179.8 | 188.1 | 190.5 |
| 47.5° | 218.9 | 199.8 | 188.9 | 182.2 | 173.2 | 177.5 | 176.7 | 178.8 | 175.1 | 183.6 | 185.7 |
| 50° | 194.2 | 180.9 | 174.3 | 171.1 | 164.7 | 171.3 | 172.9 | 175.9 | 172.7 | 180.1 | 181.7 |
| 52.5° | 178.5 | 169.8 | 166.0 | 165.2 | 160.7 | 169.0 | 171.6 | 174.3 | 170.6 | 177.5 | 177.2 |
| 55° | 169.8 | 163.9 | 162.6 | 164.2 | 160.7 | 168.7 | 171.3 | 173.2 | 170.0 | 174.8 | 174.5 |
| 57.5° | 166.6 | 163.4 | 164.2 | 166.6 | 164.2 | 170.8 | 172.1 | 174.3 | 171.1 | 173.2 | 174.3 |
| 60° | 166.3 | 166.3 | 169.5 | 172.7 | 171.1 | 175.9 | 176.7 | 176.4 | 173.5 | 173.7 | 174.3 |
| 62.5° | 164.7 | 168.7 | 174.0 | 179.1 | 178.5 | 184.4 | 184.9 | 181.4 | 179.1 | 176.4 | 175.6 |
| 65° | 159.7 | 166.3 | 174.0 | 180.9 | 182.0 | 191.0 | 192.1 | 188.6 | 187.0 | 182.5 | 179.1 |
| 67.5° | 148.5 | 157.0 | 166.0 | 174.5 | 176.4 | 188.6 | 191.0 | 192.3 | 193.1 | 190.2 | 185.7 |
| 70° | 129.6 | 138.4 | 147.7 | 157.5 | 160.2 | 173.7 | 178.8 | 184.9 | 189.7 | 193.9 | 192.3 |
| 72.5° | 105.5 | 113.4 | 121.4 | 130.4 | 134.4 | 148.5 | 155.1 | 165.8 | 173.2 | 184.1 | 188.6 |
| 75° | 83.7 | 88.5 | 93.2 | 98.8 | 102.0 | 115.8 | 124.1 | 136.8 | 146.9 | 162.1 | 172.1 |
| 77.5° | 65.9 | 68.3 | 70.7 | 73.1 | 74.4 | 82.1 | 88.7 | 101.5 | 113.2 | 132.3 | 147.2 |
| 80° | 50.7 | 52.1 | 52.3 | 53.1 | 52.6 | 56.3 | 58.7 | 66.4 | 76.5 | 95.4 | 112.9 |
| 82.5° | 32.7 | 33.7 | 34.3 | 35.6 | 32.9 | 37.7 | 39.3 | 40.1 | 45.4 | 59.2 | 71.7 |
| 85° | 18.3 | 18.6 | 18.9 | 19.4 | 15.7 | 20.5 | 20.7 | 19.4 | 18.9 | 24.4 | 27.6 |
| 87.5° | 4.5 | 4.3 | 4.5 | 4.5 | 1.9 | 4.3 | 4.3 | 2.9 | 2.1 | 4.0 | 3.2 |
| 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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| 0° | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 | 361.8 |
| 2.5° | 333.4 | 332.9 | 333.1 | 331.8 | 331.3 | 331.5 |
| 5° | 328.1 | 327.0 | 327.0 | 326.2 | 325.2 | 325.2 |
| 7.5° | 330.5 | 328.4 | 327.6 | 326.0 | 324.4 | 324.6 |
| 10° | 334.2 | 330.5 | 327.8 | 325.4 | 323.6 | 323.6 |
| 12.5° | 336.6 | 329.9 | 326.0 | 322.8 | 320.6 | 320.6 |
| 15° | 337.1 | 327.0 | 321.2 | 317.7 | 315.6 | 315.6 |
| 17.5° | 333.9 | 321.2 | 313.7 | 309.2 | 306.8 | 307.4 |
| 20° | 326.0 | 310.3 | 301.5 | 296.7 | 294.3 | 294.6 |
| 22.5° | 313.5 | 295.4 | 285.3 | 279.7 | 277.3 | 277.3 |
| 25° | 296.5 | 276.8 | 265.9 | 261.4 | 259.3 | 259.3 |
| 27.5° | 277.1 | 256.9 | 247.3 | 243.9 | 242.5 | 242.5 |
| 30° | 255.3 | 238.6 | 231.7 | 229.3 | 227.1 | 227.1 |
| 32.5° | 237.0 | 225.0 | 222.6 | 219.4 | 213.9 | 213.6 |
| 35° | 222.4 | 221.0 | 219.2 | 209.6 | 201.6 | 200.6 |
| 37.5° | 214.4 | 222.4 | 210.7 | 194.2 | 187.8 | 187.6 |
| 40° | 210.1 | 217.6 | 197.4 | 189.4 | 188.6 | 188.6 |
| 42.5° | 200.0 | 205.4 | 196.6 | 192.1 | 192.1 | 192.3 |
| 45° | 189.4 | 193.9 | 198.4 | 194.5 | 195.8 | 196.1 |
| 47.5° | 182.0 | 191.0 | 198.4 | 195.0 | 197.6 | 199.2 |
| 50° | 175.1 | 188.4 | 194.5 | 194.5 | 197.4 | 197.6 |
| 52.5° | 173.5 | 184.6 | 190.7 | 193.7 | 193.9 | 192.6 |
| 55° | 173.7 | 181.7 | 187.8 | 191.5 | 189.9 | 189.9 |
| 57.5° | 173.5 | 180.1 | 185.4 | 186.8 | 187.6 | 187.6 |
| 60° | 173.7 | 178.0 | 182.2 | 181.7 | 184.4 | 184.4 |
| 62.5° | 174.5 | 175.1 | 177.2 | 176.7 | 180.6 | 180.6 |
| 65° | 176.4 | 171.3 | 170.0 | 170.6 | 175.3 | 175.1 |
| 67.5° | 179.8 | 166.3 | 162.1 | 162.3 | 169.2 | 168.2 |
| 70° | 184.9 | 159.4 | 153.0 | 151.4 | 163.1 | 161.3 |
| 72.5° | 186.5 | 151.4 | 141.3 | 139.7 | 146.6 | 141.3 |
| 75° | 179.1 | 145.0 | 128.8 | 123.5 | 120.6 | 119.0 |
| 77.5° | 159.7 | 141.1 | 115.8 | 104.7 | 100.2 | 99.1 |
| 80° | 132.3 | 132.8 | 98.8 | 85.5 | 99.4 | 99.1 |
| 82.5° | 99.9 | 114.8 | 79.2 | 74.1 | 72.0 | 60.0 |
| 85° | 48.3 | 86.3 | 60.8 | 51.0 | 30.6 | 29.0 |
| 87.5° | 4.3 | 36.1 | 35.1 | 22.8 | 10.4 | 9.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)