

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: P271342

Luminaire Tested: **XNV2-AF-02-LED-U-T2R-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271342  
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: XNV2-AF-02-LED-U-T2R-7027-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7233.5 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
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

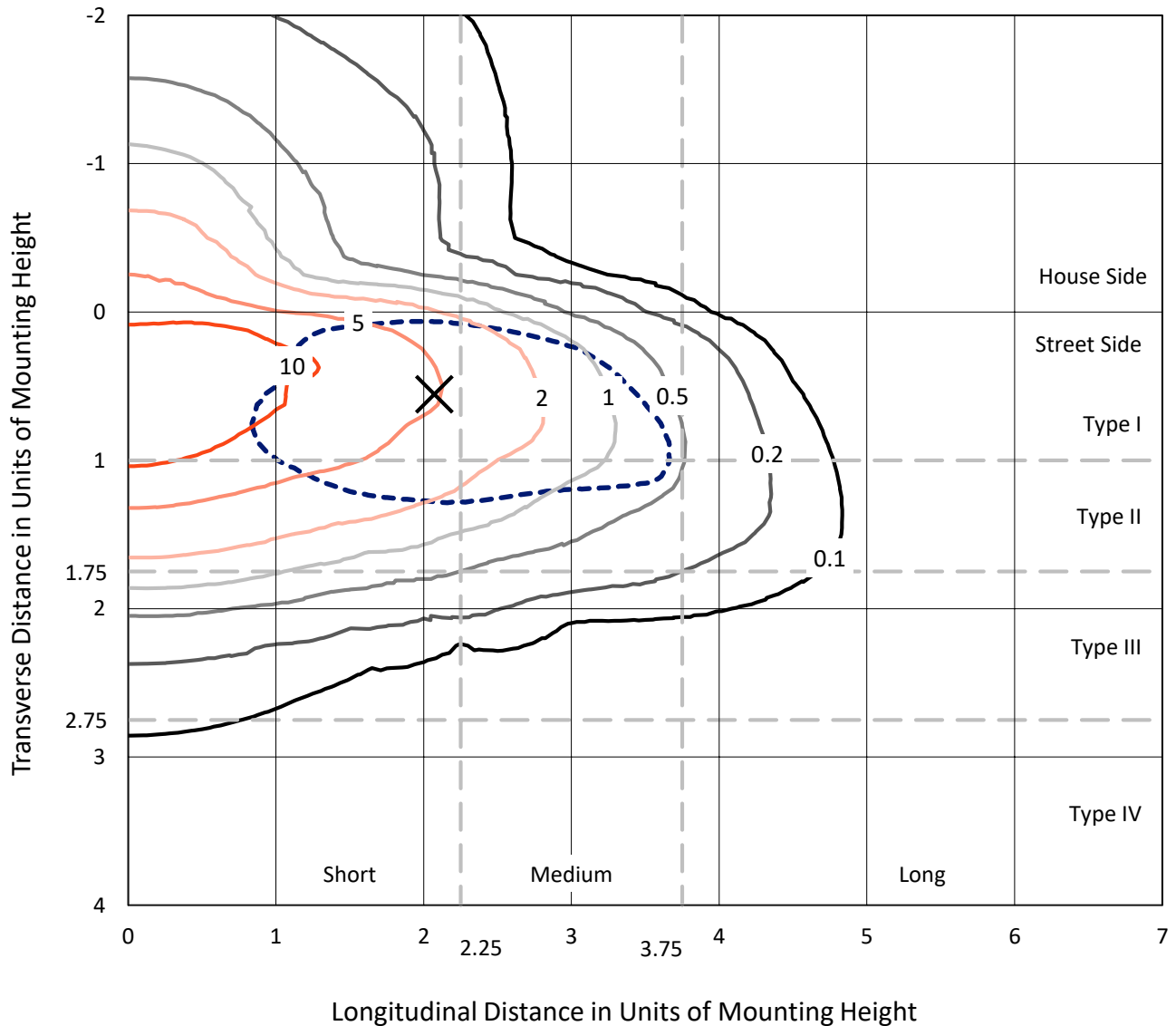


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

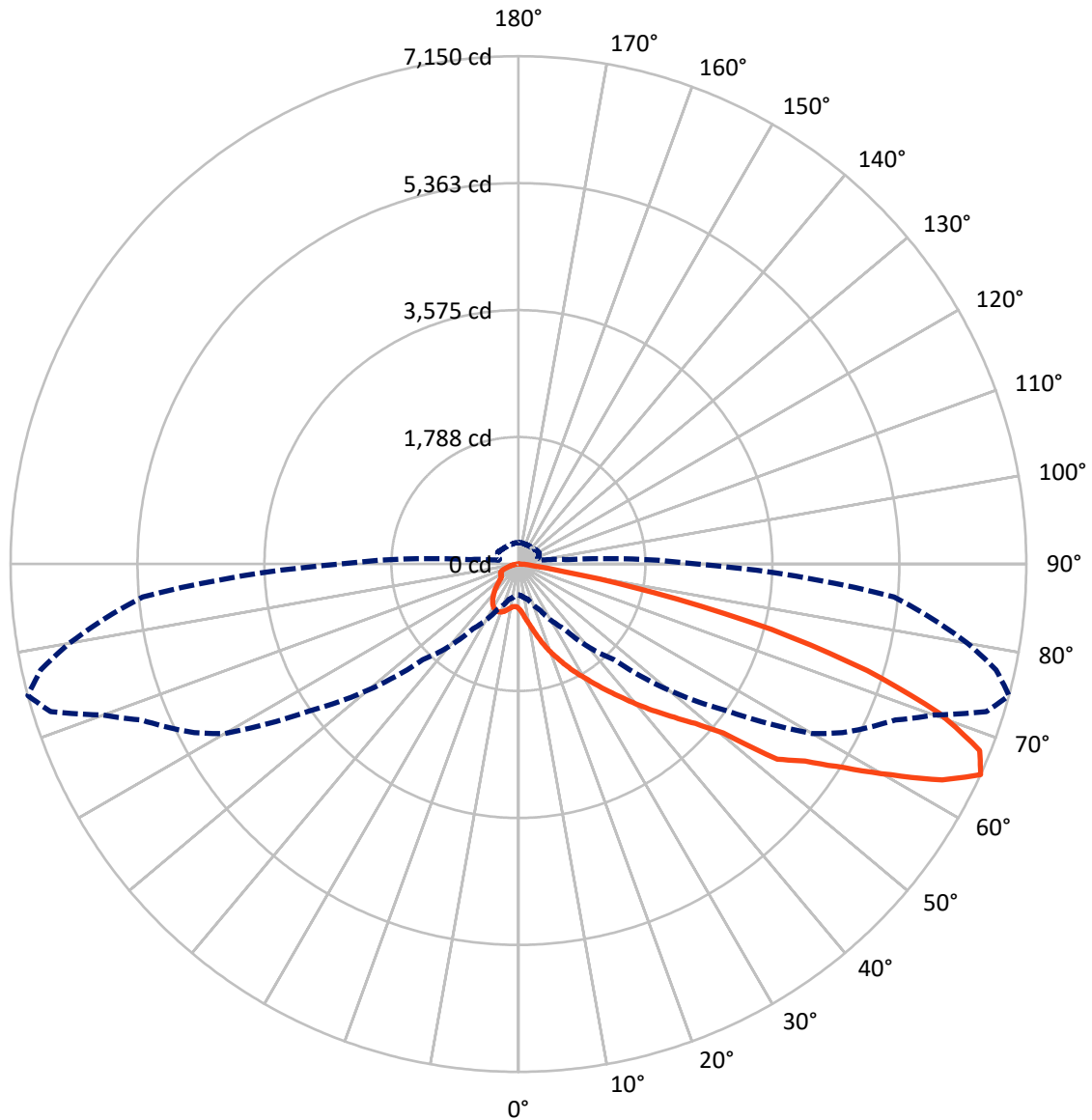


Based on 10 foot mounting height. Maximum calculated value = 18 fc  
 Type II - Short - Semi-Cutoff

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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  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1087.0   | 0.0    | 1087.0 |
|                    | % Fixture | 15.0     | 0.0    | 15.0   |
| <b>Street Side</b> | Lumens    | 6146.6   | 0.0    | 6146.6 |
|                    | % Fixture | 85.0     | 0.0    | 85.0   |
| <b>Total</b>       | Lumens    | 7233.5   | 0.0    | 7233.5 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.0   | 1.0       |
| 10°-20°   | 282.6  | 3.9       |
| 20°-30°   | 570.3  | 7.9       |
| 30°-40°   | 968.6  | 13.4      |
| 40°-50°   | 1350.9 | 18.7      |
| 50°-60°   | 1655.8 | 22.9      |
| 60°-70°   | 1557.8 | 21.5      |
| 70°-80°   | 683.1  | 9.4       |
| 80°-90°   | 90.4   | 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°    | 7233.5 | 100.0     |
| 0°-180°   | 7233.5 | 100.0     |

**Coefficient of Utilization**



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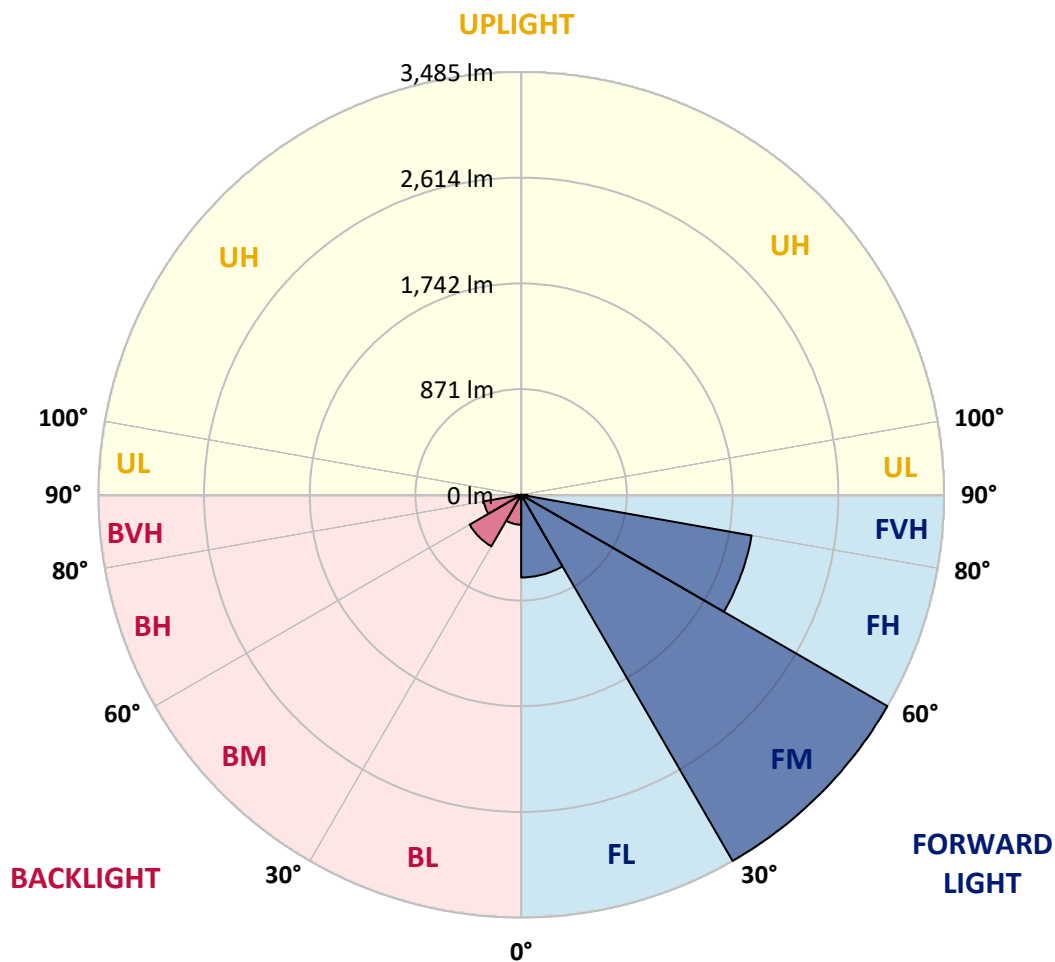
CATALOG NUMBER: XNV2-AF-02-LED-U-T2R-7027-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 680.9  | 9.4       |                         |      |         |
| FM (30°-60°)   | 3484.8 | 48.2      |                         |      |         |
| FH (60°-80°)   | 1928.5 | 26.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 52.4   | 0.7       |                         |      | G1/100  |
| BL (0°-30°)    | 246.1  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 490.5  | 6.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 312.4  | 4.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 38.0   | 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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 57.5°  | 60°    | 62.5°  | 65°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  |
| 2.5°  | 789.3  | 780.0  | 780.8  | 768.1  | 749.1  | 728.4  | 711.4  | 702.2  | 694.4  | 692.1  | 679.2  |
| 5°    | 1032.2 | 1020.7 | 1016.5 | 987.1  | 943.0  | 890.4  | 838.4  | 818.1  | 801.6  | 791.4  | 766.7  |
| 7.5°  | 1230.9 | 1225.0 | 1219.4 | 1192.3 | 1148.6 | 1081.4 | 997.7  | 967.7  | 940.0  | 909.8  | 879.8  |
| 10°   | 1366.2 | 1363.9 | 1361.7 | 1342.7 | 1306.3 | 1247.9 | 1157.7 | 1125.0 | 1090.6 | 1051.9 | 1012.7 |
| 12.5° | 1468.4 | 1468.4 | 1470.3 | 1454.5 | 1432.4 | 1387.4 | 1305.4 | 1275.1 | 1240.1 | 1199.6 | 1155.0 |
| 15°   | 1536.9 | 1538.7 | 1548.5 | 1553.0 | 1541.5 | 1512.6 | 1440.8 | 1414.1 | 1381.0 | 1340.9 | 1296.8 |
| 17.5° | 1582.5 | 1586.1 | 1600.4 | 1615.6 | 1630.3 | 1620.3 | 1566.9 | 1542.0 | 1512.0 | 1475.2 | 1433.9 |
| 20°   | 1688.4 | 1683.8 | 1684.2 | 1679.7 | 1701.2 | 1709.0 | 1679.7 | 1658.9 | 1634.9 | 1601.4 | 1563.6 |
| 22.5° | 1910.5 | 1901.8 | 1879.3 | 1821.9 | 1795.5 | 1792.7 | 1775.3 | 1764.2 | 1745.9 | 1724.7 | 1686.9 |
| 25°   | 2200.5 | 2190.3 | 2145.7 | 2050.9 | 1972.7 | 1900.5 | 1868.3 | 1861.4 | 1849.4 | 1835.1 | 1808.0 |
| 27.5° | 2500.1 | 2489.1 | 2431.5 | 2311.9 | 2209.7 | 2063.9 | 1963.5 | 1954.4 | 1943.3 | 1937.3 | 1924.3 |
| 30°   | 2763.7 | 2751.8 | 2695.2 | 2573.6 | 2450.3 | 2276.5 | 2092.0 | 2059.6 | 2040.8 | 2042.7 | 2035.3 |
| 32.5° | 2995.2 | 2984.6 | 2921.1 | 2797.3 | 2672.2 | 2503.2 | 2258.5 | 2208.4 | 2166.0 | 2150.4 | 2155.8 |
| 35°   | 3189.4 | 3179.7 | 3110.2 | 2985.5 | 2859.5 | 2719.1 | 2472.9 | 2397.4 | 2328.4 | 2285.2 | 2280.1 |
| 37.5° | 3303.4 | 3297.9 | 3249.2 | 3143.3 | 3018.1 | 2915.1 | 2713.2 | 2629.3 | 2527.7 | 2464.6 | 2437.0 |
| 40°   | 3297.0 | 3303.1 | 3294.8 | 3247.0 | 3149.7 | 3074.8 | 2963.5 | 2880.7 | 2781.2 | 2687.3 | 2631.1 |
| 42.5° | 3203.1 | 3211.5 | 3248.7 | 3273.7 | 3247.4 | 3201.7 | 3182.1 | 3120.4 | 3031.2 | 2931.7 | 2853.9 |
| 45°   | 3074.3 | 3081.6 | 3130.1 | 3219.7 | 3294.8 | 3307.6 | 3373.4 | 3342.7 | 3267.1 | 3182.4 | 3096.8 |
| 47.5° | 2876.9 | 2891.1 | 2947.2 | 3090.0 | 3268.6 | 3392.8 | 3534.0 | 3548.3 | 3504.6 | 3434.7 | 3354.6 |
| 50°   | 2591.3 | 2610.0 | 2688.7 | 2891.6 | 3169.1 | 3480.3 | 3772.9 | 3827.1 | 3809.7 | 3738.8 | 3657.8 |
| 52.5° | 2298.6 | 2317.4 | 2422.3 | 2638.1 | 3009.1 | 3516.1 | 4008.0 | 4146.9 | 4247.2 | 4320.5 | 4334.7 |
| 55°   | 1993.9 | 2015.1 | 2130.2 | 2378.6 | 2795.4 | 3470.5 | 4176.0 | 4333.9 | 4435.6 | 4511.8 | 4542.6 |
| 57.5° | 1650.1 | 1674.1 | 1785.4 | 2036.6 | 2493.7 | 3287.3 | 4362.8 | 4586.4 | 4737.8 | 4855.6 | 4922.0 |
| 60°   | 1255.8 | 1285.7 | 1401.1 | 1654.3 | 2097.0 | 2936.7 | 4446.2 | 4776.9 | 5017.7 | 5194.3 | 5299.2 |
| 62.5° | 796.1  | 826.4  | 946.5  | 1209.3 | 1645.5 | 2457.8 | 4210.4 | 4693.1 | 5103.6 | 5365.0 | 5557.4 |
| 65°   | 434.4  | 447.7  | 514.5  | 712.4  | 1109.4 | 1906.9 | 3613.3 | 4182.4 | 4773.8 | 5144.1 | 5439.5 |
| 67.5° | 325.7  | 327.6  | 334.4  | 382.9  | 590.8  | 1287.5 | 2824.9 | 3346.2 | 4002.9 | 4479.7 | 4832.6 |
| 70°   | 285.3  | 285.3  | 286.2  | 286.6  | 320.8  | 697.7  | 1913.7 | 2393.8 | 2995.7 | 3477.9 | 3916.4 |
| 72.5° | 255.8  | 253.1  | 252.2  | 246.7  | 251.3  | 357.5  | 1041.9 | 1473.0 | 1980.6 | 2521.7 | 2930.8 |
| 75°   | 220.9  | 220.4  | 220.4  | 215.0  | 217.7  | 251.7  | 451.8  | 706.7  | 1100.2 | 1604.2 | 2006.8 |
| 77.5° | 191.0  | 187.7  | 188.3  | 185.1  | 193.8  | 192.7  | 214.4  | 291.3  | 479.1  | 842.6  | 1176.6 |
| 80°   | 157.4  | 155.0  | 156.5  | 154.6  | 168.4  | 142.7  | 144.4  | 178.0  | 238.0  | 369.6  | 520.8  |
| 82.5° | 116.4  | 117.4  | 126.1  | 125.1  | 141.8  | 96.2   | 105.8  | 132.9  | 160.2  | 184.1  | 200.1  |
| 85°   | 68.1   | 69.4   | 90.6   | 95.3   | 104.1  | 50.7   | 64.9   | 79.1   | 89.3   | 99.0   | 103.0  |
| 87.5° | 7.4    | 9.6    | 50.7   | 52.0   | 46.5   | 15.2   | 26.2   | 33.1   | 35.5   | 37.6   | 33.1   |
| 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°    | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7  | 626.7 | 626.7 | 626.7  |
| 2.5°  | 675.0  | 669.1  | 662.6  | 658.9  | 652.4  | 647.0  | 636.9  | 628.5  | 619.4 | 613.0 | 610.2  |
| 5°    | 754.1  | 739.9  | 724.8  | 713.8  | 699.9  | 687.9  | 664.9  | 637.3  | 628.5 | 610.2 | 605.5  |
| 7.5°  | 857.3  | 831.6  | 805.7  | 784.6  | 760.7  | 740.8  | 702.2  | 652.4  | 646.2 | 616.6 | 610.2  |
| 10°   | 978.3  | 940.5  | 902.3  | 869.6  | 834.7  | 804.3  | 747.3  | 677.3  | 670.5 | 632.8 | 626.3  |
| 12.5° | 1113.5 | 1067.5 | 1018.4 | 969.6  | 928.2  | 885.4  | 807.5  | 715.9  | 705.0 | 660.3 | 651.6  |
| 15°   | 1253.0 | 1203.3 | 1146.2 | 1087.4 | 1036.3 | 979.7  | 881.6  | 766.7  | 746.4 | 693.9 | 682.0  |
| 17.5° | 1390.5 | 1336.8 | 1276.9 | 1211.2 | 1151.3 | 1083.6 | 961.7  | 823.2  | 788.3 | 727.1 | 711.8  |
| 20°   | 1523.5 | 1468.8 | 1405.8 | 1341.3 | 1266.8 | 1189.5 | 1043.7 | 878.9  | 825.5 | 754.7 | 734.9  |
| 22.5° | 1644.5 | 1597.6 | 1534.7 | 1460.6 | 1385.0 | 1298.1 | 1127.0 | 934.5  | 858.2 | 775.9 | 750.5  |
| 25°   | 1772.0 | 1729.2 | 1666.7 | 1595.4 | 1507.4 | 1410.9 | 1213.0 | 987.4  | 884.4 | 787.4 | 756.1  |
| 27.5° | 1901.0 | 1864.2 | 1805.2 | 1730.2 | 1635.9 | 1528.6 | 1300.4 | 1036.3 | 905.6 | 791.0 | 753.3  |
| 30°   | 2038.6 | 2010.0 | 1955.7 | 1872.0 | 1776.7 | 1657.9 | 1395.6 | 1084.2 | 919.0 | 785.9 | 740.8  |
| 32.5° | 2168.8 | 2167.8 | 2119.6 | 2032.5 | 1929.9 | 1799.2 | 1495.9 | 1132.5 | 925.9 | 771.7 | 719.3  |
| 35°   | 2304.1 | 2322.8 | 2286.5 | 2203.7 | 2095.6 | 1950.6 | 1606.9 | 1184.0 | 926.3 | 746.4 | 691.2  |
| 37.5° | 2457.8 | 2491.3 | 2475.2 | 2396.5 | 2282.9 | 2123.1 | 1737.1 | 1241.9 | 923.5 | 711.4 | 650.3  |
| 40°   | 2632.7 | 2678.6 | 2678.1 | 2611.9 | 2490.5 | 2316.5 | 1888.4 | 1306.9 | 917.1 | 667.7 | 601.9  |
| 42.5° | 2832.7 | 2887.5 | 2902.8 | 2837.3 | 2714.5 | 2527.7 | 2062.0 | 1378.2 | 907.0 | 624.4 | 550.8  |
| 45°   | 3062.0 | 3110.2 | 3138.8 | 3078.0 | 2954.6 | 2757.7 | 2261.3 | 1459.1 | 894.5 | 568.7 | 492.5  |
| 47.5° | 3307.2 | 3363.3 | 3406.2 | 3354.1 | 3222.5 | 3020.0 | 2497.3 | 1563.6 | 890.0 | 505.2 | 429.3  |
| 50°   | 3611.4 | 3669.3 | 3761.8 | 3738.3 | 3666.2 | 3503.2 | 2996.6 | 1810.3 | 891.7 | 445.0 | 376.4  |
| 52.5° | 4366.0 | 4499.0 | 4615.9 | 4563.8 | 4392.3 | 4112.9 | 3402.4 | 1947.3 | 853.1 | 395.8 | 339.6  |
| 55°   | 4593.8 | 4744.7 | 4917.3 | 4895.7 | 4731.0 | 4449.3 | 3723.1 | 2062.0 | 815.9 | 359.9 | 315.7  |
| 57.5° | 4992.3 | 5170.4 | 5411.5 | 5406.9 | 5204.9 | 4887.9 | 4135.9 | 2199.1 | 799.9 | 339.1 | 303.6  |
| 60°   | 5414.3 | 5641.1 | 5974.3 | 6026.3 | 5806.7 | 5476.8 | 4623.7 | 2367.6 | 802.0 | 327.6 | 296.8  |
| 62.5° | 5722.6 | 6055.2 | 6539.8 | 6695.3 | 6436.7 | 6073.3 | 5130.0 | 2535.9 | 788.3 | 314.2 | 288.5  |
| 65°   | 5741.4 | 6220.5 | 6908.0 | 7150.0 | 6888.2 | 6421.1 | 5308.4 | 2502.8 | 705.3 | 296.4 | 275.2  |
| 67.5° | 5281.2 | 5905.3 | 6740.4 | 7005.9 | 6738.1 | 6206.7 | 4995.6 | 2188.1 | 573.4 | 265.1 | 252.2  |
| 70°   | 4398.7 | 5122.9 | 5989.9 | 6285.8 | 6064.5 | 5526.6 | 4347.5 | 1747.7 | 428.4 | 223.7 | 217.7  |
| 72.5° | 3399.2 | 4074.7 | 4862.0 | 5135.9 | 4966.5 | 4493.5 | 3429.1 | 1273.7 | 306.1 | 181.3 | 176.6  |
| 75°   | 2430.2 | 3005.3 | 3576.8 | 3681.3 | 3514.3 | 3079.8 | 2224.9 | 795.5  | 214.4 | 148.6 | 142.2  |
| 77.5° | 1504.8 | 1878.8 | 2084.1 | 1949.7 | 1736.7 | 1443.5 | 905.6  | 393.0  | 142.7 | 121.0 | 114.5  |
| 80°   | 667.7  | 783.6  | 731.7  | 652.1  | 514.9  | 423.3  | 276.6  | 174.5  | 92.0  | 93.5  | 89.7   |
| 82.5° | 224.5  | 237.4  | 231.0  | 229.6  | 207.1  | 181.3  | 117.4  | 75.5   | 51.6  | 59.7  | 58.4   |
| 85°   | 109.6  | 114.5  | 115.1  | 119.1  | 103.6  | 80.5   | 31.8   | 30.0   | 22.1  | 32.2  | 33.5   |
| 87.5° | 33.1   | 33.5   | 30.4   | 33.1   | 26.7   | 18.4   | 6.0    | 8.3    | 4.1   | 7.8   | 7.8    |
| 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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**CANDELA DISTRIBUTION (continued):**

|       | 105°  | 107.5° | 110°  | 112.5° | 115°  | 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  |
|-------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0°    | 626.7 | 626.7  | 626.7 | 626.7  | 626.7 | 626.7  | 626.7 | 626.7  | 626.7 | 626.7  | 626.7 |
| 2.5°  | 605.1 | 603.3  | 600.1 | 596.4  | 595.4 | 590.8  | 589.5 | 587.1  | 585.8 | 583.4  | 581.7 |
| 5°    | 599.6 | 596.4  | 592.7 | 588.6  | 588.6 | 582.1  | 579.3 | 576.6  | 576.6 | 572.4  | 570.7 |
| 7.5°  | 605.1 | 601.0  | 596.8 | 593.2  | 594.5 | 587.1  | 584.3 | 581.7  | 581.2 | 577.0  | 575.3 |
| 10°   | 620.8 | 616.6  | 611.6 | 607.9  | 606.4 | 600.4  | 597.4 | 593.2  | 590.4 | 587.6  | 584.8 |
| 12.5° | 644.8 | 639.1  | 632.8 | 625.0  | 621.6 | 616.6  | 611.6 | 606.0  | 599.6 | 596.8  | 592.7 |
| 15°   | 673.2 | 663.9  | 655.3 | 645.6  | 636.9 | 631.8  | 625.0 | 616.1  | 607.4 | 603.8  | 598.2 |
| 17.5° | 696.6 | 687.1  | 674.5 | 663.0  | 647.5 | 643.2  | 633.7 | 623.1  | 608.8 | 607.4  | 599.1 |
| 20°   | 716.5 | 701.8  | 686.6 | 672.7  | 648.8 | 646.5  | 634.6 | 622.2  | 601.9 | 601.9  | 591.8 |
| 22.5° | 727.4 | 707.2  | 689.3 | 670.9  | 641.0 | 639.1  | 625.4 | 610.7  | 585.8 | 586.8  | 574.2 |
| 25°   | 729.3 | 705.0  | 682.4 | 660.3  | 625.8 | 622.5  | 605.1 | 589.0  | 561.9 | 560.1  | 547.2 |
| 27.5° | 722.0 | 693.4  | 667.3 | 640.5  | 603.3 | 596.4  | 577.0 | 557.7  | 531.0 | 526.4  | 512.7 |
| 30°   | 705.0 | 671.4  | 641.8 | 611.0  | 572.0 | 560.9  | 540.7 | 520.8  | 493.8 | 487.8  | 474.8 |
| 32.5° | 677.9 | 639.7  | 607.0 | 576.2  | 532.9 | 519.1  | 498.7 | 479.1  | 452.7 | 448.3  | 436.2 |
| 35°   | 641.8 | 599.1  | 564.7 | 531.9  | 488.7 | 474.5  | 455.1 | 437.7  | 413.7 | 411.9  | 403.6 |
| 37.5° | 596.8 | 552.2  | 515.4 | 484.0  | 443.1 | 435.8  | 415.9 | 403.1  | 383.2 | 385.2  | 381.1 |
| 40°   | 545.7 | 500.1  | 465.2 | 437.7  | 402.3 | 395.8  | 383.8 | 374.1  | 357.0 | 362.1  | 362.6 |
| 42.5° | 494.2 | 448.7  | 417.0 | 392.1  | 361.7 | 357.5  | 349.4 | 343.7  | 330.8 | 340.9  | 345.0 |
| 45°   | 435.8 | 393.5  | 366.2 | 347.5  | 324.8 | 324.8  | 320.8 | 320.2  | 311.5 | 325.7  | 329.9 |
| 47.5° | 379.2 | 346.0  | 327.2 | 315.7  | 300.0 | 307.4  | 306.1 | 309.6  | 303.3 | 318.0  | 321.7 |
| 50°   | 336.3 | 313.4  | 301.9 | 296.4  | 285.3 | 296.8  | 299.6 | 304.6  | 299.0 | 312.0  | 314.8 |
| 52.5° | 309.2 | 294.0  | 287.5 | 286.2  | 278.5 | 292.7  | 297.2 | 301.9  | 295.5 | 307.4  | 307.0 |
| 55°   | 294.0 | 284.0  | 281.6 | 284.4  | 278.5 | 292.2  | 296.8 | 300.0  | 294.6 | 302.8  | 302.3 |
| 57.5° | 288.5 | 283.0  | 284.4 | 288.5  | 284.4 | 295.9  | 298.1 | 301.9  | 296.4 | 300.0  | 301.9 |
| 60°   | 288.0 | 288.0  | 293.6 | 299.0  | 296.4 | 304.6  | 306.1 | 305.6  | 300.6 | 300.9  | 301.9 |
| 62.5° | 285.3 | 292.2  | 301.4 | 310.2  | 309.2 | 319.3  | 320.2 | 314.2  | 310.2 | 305.6  | 304.2 |
| 65°   | 276.6 | 288.0  | 301.4 | 313.4  | 315.2 | 330.8  | 332.7 | 326.8  | 324.0 | 316.2  | 310.2 |
| 67.5° | 257.3 | 271.9  | 287.5 | 302.3  | 305.6 | 326.8  | 330.8 | 333.1  | 334.4 | 329.5  | 321.7 |
| 70°   | 224.5 | 239.8  | 255.8 | 272.8  | 277.4 | 300.9  | 309.6 | 320.2  | 328.6 | 336.0  | 333.1 |
| 72.5° | 182.6 | 196.5  | 210.4 | 226.0  | 232.8 | 257.3  | 268.8 | 287.2  | 300.0 | 318.9  | 326.8 |
| 75°   | 144.9 | 153.3  | 161.5 | 171.1  | 176.6 | 200.6  | 215.0 | 237.1  | 254.5 | 280.7  | 298.1 |
| 77.5° | 114.2 | 118.2  | 122.3 | 126.5  | 128.8 | 142.2  | 153.7 | 175.8  | 196.0 | 229.2  | 254.8 |
| 80°   | 87.9  | 90.2   | 90.6  | 92.0   | 91.1  | 97.6   | 101.7 | 115.1  | 132.5 | 165.2  | 195.7 |
| 82.5° | 56.7  | 58.4   | 59.4  | 61.7   | 57.0  | 65.3   | 68.1  | 69.4   | 78.7  | 102.6  | 124.2 |
| 85°   | 31.8  | 32.2   | 32.7  | 33.5   | 27.2  | 35.5   | 35.9  | 33.5   | 32.7  | 42.3   | 47.9  |
| 87.5° | 7.8   | 7.4    | 7.8   | 7.8    | 3.2   | 7.4    | 7.4   | 5.1    | 3.8   | 6.8    | 5.5   |
| 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):**

|       | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 626.7 | 626.7 | 626.7 | 626.7 | 626.7 | 626.7 |
| 2.5°  | 577.5 | 576.6 | 577.0 | 574.7 | 573.7 | 574.2 |
| 5°    | 568.3 | 566.4 | 566.4 | 565.0 | 563.2 | 563.2 |
| 7.5°  | 572.4 | 568.7 | 567.4 | 564.7 | 561.9 | 562.2 |
| 10°   | 578.9 | 572.4 | 567.9 | 563.6 | 560.5 | 560.5 |
| 12.5° | 583.0 | 571.5 | 564.7 | 559.0 | 555.4 | 555.4 |
| 15°   | 584.0 | 566.4 | 556.3 | 550.3 | 546.7 | 546.7 |
| 17.5° | 578.4 | 556.3 | 543.5 | 535.6 | 531.4 | 532.4 |
| 20°   | 564.7 | 537.5 | 522.3 | 514.0 | 509.9 | 510.2 |
| 22.5° | 542.9 | 511.8 | 494.2 | 484.5 | 480.5 | 480.5 |
| 25°   | 513.6 | 479.4 | 460.7 | 452.7 | 449.2 | 449.2 |
| 27.5° | 480.0 | 445.0 | 428.4 | 422.5 | 420.1 | 420.1 |
| 30°   | 442.2 | 413.2 | 401.3 | 397.1 | 393.5 | 393.5 |
| 32.5° | 410.4 | 389.8 | 385.6 | 380.2 | 370.5 | 370.0 |
| 35°   | 385.2 | 382.9 | 379.7 | 363.1 | 349.4 | 347.5 |
| 37.5° | 371.4 | 385.2 | 364.9 | 336.3 | 325.4 | 324.8 |
| 40°   | 364.1 | 376.8 | 342.0 | 328.2 | 326.8 | 326.8 |
| 42.5° | 346.4 | 355.6 | 340.5 | 332.7 | 332.7 | 333.1 |
| 45°   | 328.2 | 336.0 | 343.7 | 336.9 | 339.1 | 339.6 |
| 47.5° | 315.2 | 330.8 | 343.7 | 337.8 | 342.3 | 345.0 |
| 50°   | 303.3 | 326.3 | 336.9 | 336.9 | 342.0 | 342.3 |
| 52.5° | 300.6 | 319.7 | 330.3 | 335.4 | 336.0 | 333.6 |
| 55°   | 300.9 | 314.8 | 325.4 | 331.7 | 329.0 | 329.0 |
| 57.5° | 300.6 | 312.0 | 321.2 | 323.5 | 324.8 | 324.8 |
| 60°   | 300.9 | 308.3 | 315.7 | 314.8 | 319.3 | 319.3 |
| 62.5° | 302.3 | 303.3 | 307.0 | 306.1 | 312.9 | 312.9 |
| 65°   | 305.6 | 296.8 | 294.6 | 295.5 | 303.6 | 303.3 |
| 67.5° | 311.5 | 288.0 | 280.7 | 281.2 | 293.1 | 291.3 |
| 70°   | 320.2 | 276.0 | 265.1 | 262.2 | 282.5 | 279.4 |
| 72.5° | 323.0 | 262.2 | 244.8 | 242.1 | 254.0 | 244.8 |
| 75°   | 310.2 | 251.3 | 223.1 | 213.9 | 208.9 | 206.2 |
| 77.5° | 276.6 | 244.3 | 200.6 | 181.3 | 173.6 | 171.7 |
| 80°   | 229.2 | 230.1 | 171.1 | 148.2 | 172.0 | 171.7 |
| 82.5° | 173.1 | 198.7 | 137.1 | 128.4 | 124.8 | 104.1 |
| 85°   | 83.7  | 149.6 | 105.5 | 88.4  | 52.9  | 50.1  |
| 87.5° | 7.4   | 62.6  | 60.7  | 39.5  | 18.0  | 17.0  |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)