

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: P191460

Luminaire Tested: **GAN-AF-02-LED-U-T3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13669.7 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

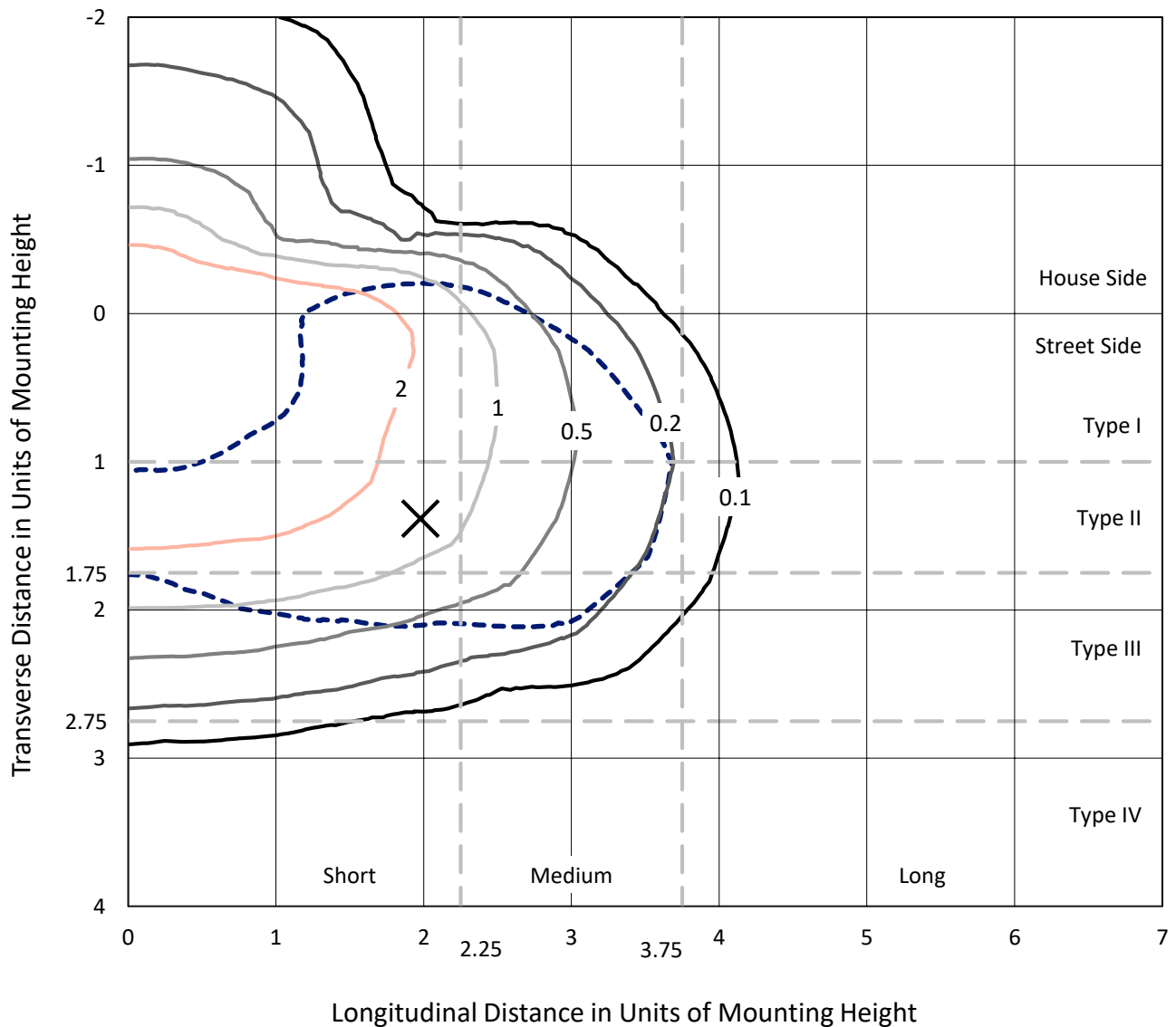
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

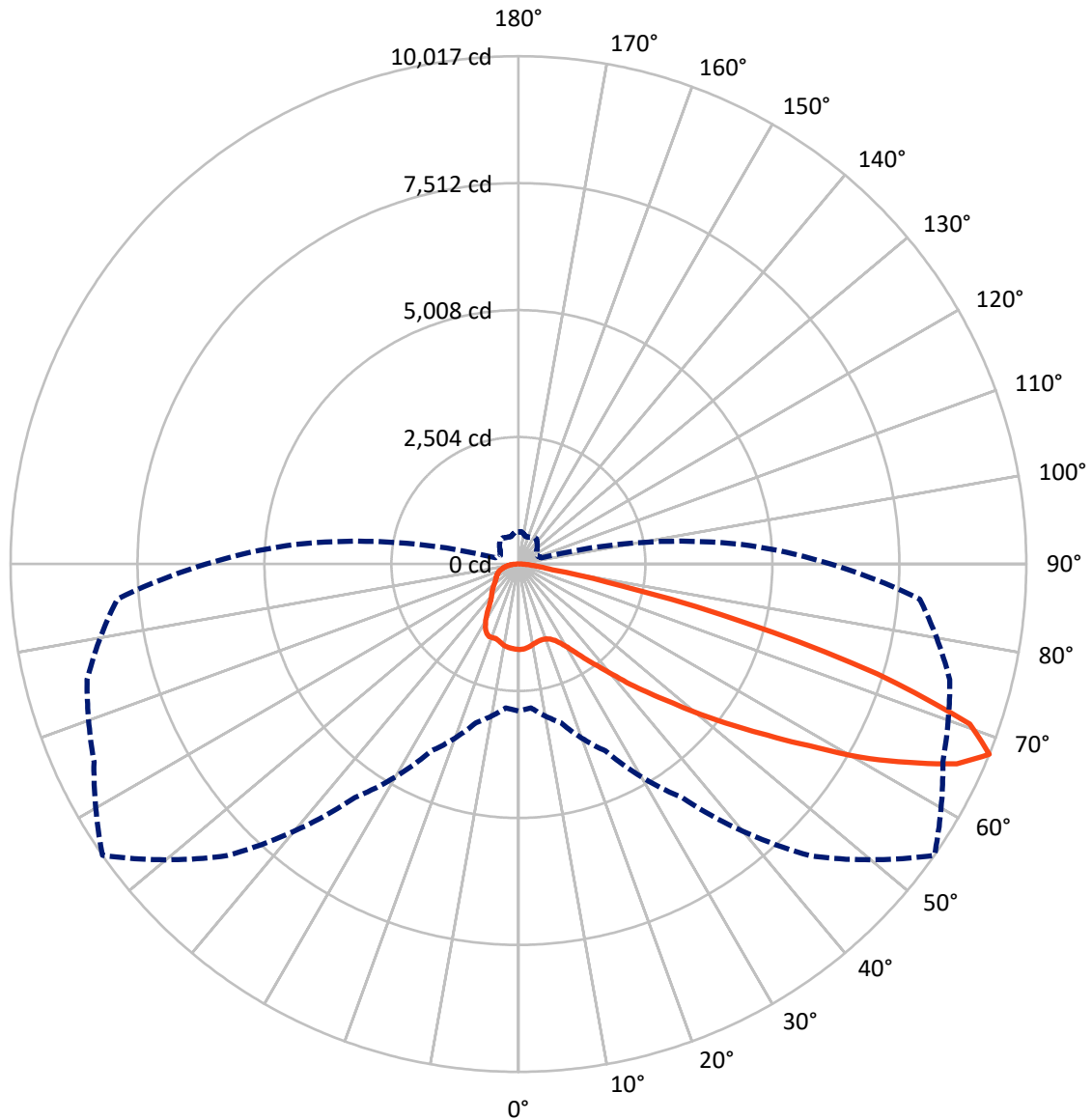
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2952.9 | 0.0 | 2952.9 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 10716.7 | 0.0 | 10716.7 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 13669.7 | 0.0 | 13669.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 157.3 | 1.2 |
| 10°-20° | 445.6 | 3.3 |
| 20°-30° | 746.4 | 5.5 |
| 30°-40° | 1227.5 | 9.0 |
| 40°-50° | 2066.2 | 15.1 |
| 50°-60° | 3252.0 | 23.8 |
| 60°-70° | 3880.9 | 28.4 |
| 70°-80° | 1666.5 | 12.2 |
| 80°-90° | 227.2 | 1.7 |
| 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° | 13669.7 | 100.0 |
| 0°-180° | 13669.7 | 100.0 |



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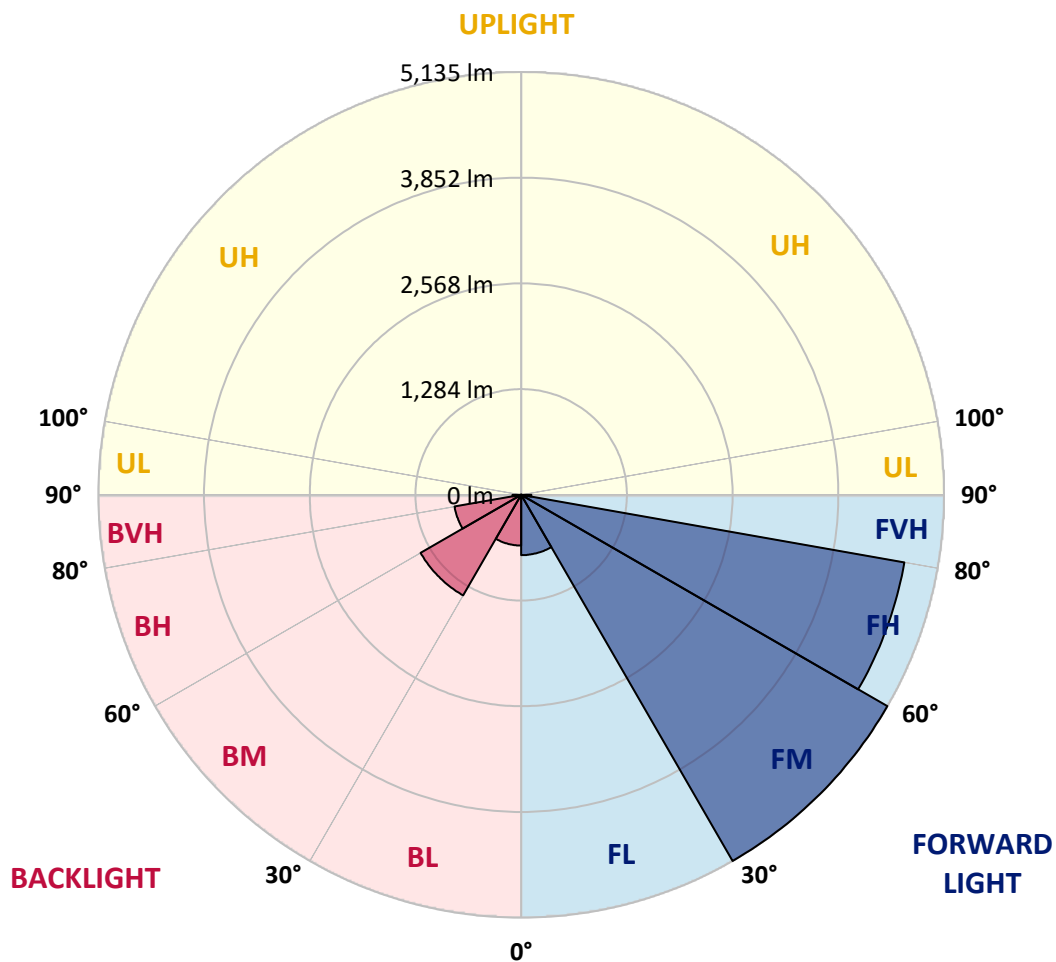
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 732.7 | 5.4 | | | |
| FM | (30°-60°) | 5135.4 | 37.6 | | | |
| FH | (60°-80°) | 4725.7 | 34.6 | | | G2/5000 |
| FVH | (80°-90°) | 123.0 | 0.9 | | | G2/225 |
| BL | (0°-30°) | 616.6 | 4.5 | B2/1000 | | |
| BM | (30°-60°) | 1410.3 | 10.3 | B2/2500 | | |
| BH | (60°-80°) | 821.8 | 6.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 104.2 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| 0° | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 |
| 2.5° | 1671.1 | 1671.7 | 1673.0 | 1678.4 | 1683.0 | 1681.6 | 1682.3 | 1679.7 | 1679.0 | 1675.1 | 1679.0 |
| 5° | 1650.0 | 1652.0 | 1652.6 | 1661.2 | 1666.5 | 1667.8 | 1665.8 | 1662.5 | 1658.5 | 1654.6 | 1656.6 |
| 7.5° | 1601.7 | 1607.1 | 1607.7 | 1619.6 | 1628.2 | 1639.4 | 1640.1 | 1640.7 | 1638.8 | 1636.1 | 1640.1 |
| 10° | 1571.4 | 1572.7 | 1572.1 | 1580.7 | 1587.2 | 1599.8 | 1607.1 | 1619.6 | 1624.9 | 1626.2 | 1628.8 |
| 12.5° | 1569.4 | 1568.1 | 1566.1 | 1566.1 | 1564.1 | 1569.4 | 1582.6 | 1600.4 | 1613.0 | 1617.0 | 1620.3 |
| 15° | 1590.6 | 1589.9 | 1583.3 | 1573.4 | 1560.8 | 1556.8 | 1568.1 | 1587.9 | 1604.4 | 1613.0 | 1616.3 |
| 17.5° | 1638.1 | 1634.2 | 1623.5 | 1601.1 | 1574.0 | 1563.5 | 1564.8 | 1581.3 | 1600.4 | 1611.7 | 1614.9 |
| 20° | 1725.2 | 1725.2 | 1702.8 | 1660.6 | 1612.4 | 1587.2 | 1575.3 | 1585.3 | 1603.8 | 1618.9 | 1623.5 |
| 22.5° | 1875.8 | 1877.1 | 1839.5 | 1770.1 | 1688.9 | 1635.5 | 1605.7 | 1603.8 | 1625.6 | 1642.8 | 1648.0 |
| 25° | 2089.1 | 2083.8 | 2031.0 | 1931.9 | 1808.5 | 1720.0 | 1668.4 | 1656.6 | 1675.1 | 1694.2 | 1700.8 |
| 27.5° | 2337.3 | 2318.1 | 2255.4 | 2135.9 | 1976.1 | 1846.7 | 1767.5 | 1748.3 | 1766.1 | 1787.9 | 1794.6 |
| 30° | 2583.0 | 2563.1 | 2488.5 | 2357.8 | 2180.1 | 2016.4 | 1902.9 | 1871.8 | 1896.9 | 1928.0 | 1931.9 |
| 32.5° | 2828.6 | 2828.6 | 2745.3 | 2592.8 | 2399.3 | 2219.1 | 2083.1 | 2046.1 | 2087.7 | 2125.4 | 2134.0 |
| 35° | 3122.4 | 3123.7 | 3043.1 | 2859.6 | 2651.6 | 2460.7 | 2310.8 | 2283.8 | 2346.5 | 2372.9 | 2393.4 |
| 37.5° | 3483.5 | 3490.7 | 3387.1 | 3165.2 | 2937.5 | 2736.7 | 2558.5 | 2521.5 | 2584.2 | 2656.2 | 2722.2 |
| 40° | 3873.7 | 3882.9 | 3768.8 | 3495.4 | 3267.6 | 3057.6 | 2864.9 | 2798.2 | 2902.4 | 3039.8 | 3125.0 |
| 42.5° | 4246.1 | 4293.6 | 4183.4 | 3902.0 | 3657.2 | 3439.9 | 3244.5 | 3147.4 | 3278.1 | 3485.5 | 3559.5 |
| 45° | 4784.1 | 4818.5 | 4626.4 | 4371.5 | 4141.1 | 3898.2 | 3639.4 | 3537.0 | 3719.9 | 3981.3 | 3996.5 |
| 47.5° | 5142.7 | 5116.9 | 5019.2 | 4860.8 | 4714.9 | 4487.7 | 4098.1 | 3985.9 | 4228.9 | 4536.6 | 4451.4 |
| 50° | 5333.6 | 5341.4 | 5328.2 | 5337.5 | 5342.8 | 5200.2 | 4660.7 | 4506.9 | 4796.7 | 5168.5 | 4972.4 |
| 52.5° | 5511.8 | 5459.0 | 5502.6 | 5719.1 | 5980.6 | 5927.7 | 5272.8 | 5112.3 | 5405.5 | 5869.6 | 5523.0 |
| 55° | 5507.8 | 5427.3 | 5569.3 | 5951.5 | 6518.7 | 6579.4 | 5960.1 | 5775.2 | 6049.2 | 6621.7 | 6106.7 |
| 57.5° | 5313.0 | 5317.0 | 5535.6 | 6036.0 | 6893.7 | 7192.2 | 6757.7 | 6480.4 | 6731.9 | 7383.6 | 6639.5 |
| 60° | 5045.0 | 5081.3 | 5396.3 | 6022.1 | 7194.1 | 7694.5 | 7736.2 | 7240.3 | 7400.7 | 8076.2 | 7080.6 |
| 62.5° | 4612.5 | 4650.8 | 5085.3 | 5878.2 | 7148.6 | 8178.5 | 8620.9 | 8102.6 | 8099.9 | 8496.1 | 7210.0 |
| 65° | 3930.5 | 3919.2 | 4375.5 | 5340.1 | 6766.3 | 8536.4 | 9499.7 | 8848.0 | 8626.9 | 8502.8 | 6949.8 |
| 67.5° | 2898.5 | 2848.3 | 3239.9 | 4067.2 | 5624.0 | 8135.6 | 10016.6 | 9236.2 | 8806.5 | 7943.5 | 6154.9 |
| 70° | 1504.0 | 1453.9 | 1770.8 | 2374.9 | 3698.7 | 6349.7 | 9444.2 | 9035.5 | 8409.6 | 6658.6 | 4821.8 |
| 72.5° | 643.1 | 634.5 | 763.2 | 1041.9 | 1789.2 | 3662.4 | 7405.3 | 7820.7 | 7215.9 | 4961.1 | 3315.1 |
| 75° | 432.5 | 429.8 | 478.0 | 567.8 | 804.9 | 1486.2 | 4634.3 | 5551.3 | 5279.3 | 3076.1 | 1864.5 |
| 77.5° | 339.4 | 336.0 | 364.5 | 408.1 | 521.6 | 586.3 | 2056.6 | 2980.4 | 2758.5 | 1338.9 | 816.1 |
| 80° | 265.5 | 262.8 | 280.6 | 304.3 | 375.0 | 369.7 | 676.8 | 1185.8 | 917.8 | 513.0 | 396.8 |
| 82.5° | 209.3 | 209.3 | 223.8 | 224.4 | 266.1 | 252.3 | 353.2 | 522.2 | 458.2 | 299.1 | 243.0 |
| 85° | 191.5 | 191.5 | 206.6 | 167.7 | 173.7 | 159.2 | 219.2 | 309.6 | 290.5 | 122.9 | 105.7 |
| 87.5° | 96.4 | 93.8 | 173.7 | 148.5 | 94.4 | 84.5 | 107.0 | 149.9 | 161.1 | 68.0 | 52.8 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 | 1685.6 |
| 2.5° | 1677.7 | 1677.0 | 1678.4 | 1679.0 | 1684.3 | 1691.6 | 1694.8 | 1699.5 | 1702.1 | 1700.8 |
| 5° | 1657.9 | 1659.2 | 1664.4 | 1668.4 | 1677.7 | 1689.6 | 1696.2 | 1701.5 | 1706.1 | 1704.1 |
| 7.5° | 1641.4 | 1644.7 | 1652.6 | 1656.0 | 1661.2 | 1664.4 | 1663.8 | 1665.8 | 1669.8 | 1665.2 |
| 10° | 1632.1 | 1636.1 | 1642.0 | 1637.4 | 1624.9 | 1607.1 | 1590.6 | 1582.0 | 1584.7 | 1581.3 |
| 12.5° | 1622.9 | 1628.2 | 1623.5 | 1601.7 | 1566.8 | 1543.6 | 1531.2 | 1532.5 | 1538.4 | 1539.7 |
| 15° | 1617.6 | 1619.6 | 1599.8 | 1558.9 | 1523.2 | 1519.9 | 1526.5 | 1525.2 | 1525.8 | 1525.8 |
| 17.5° | 1617.6 | 1612.4 | 1575.3 | 1534.4 | 1519.3 | 1513.3 | 1492.8 | 1467.1 | 1455.9 | 1451.9 |
| 20° | 1626.2 | 1612.4 | 1567.5 | 1540.4 | 1507.3 | 1456.5 | 1402.4 | 1354.8 | 1333.7 | 1327.8 |
| 22.5° | 1652.0 | 1628.2 | 1589.9 | 1543.0 | 1449.2 | 1364.1 | 1278.3 | 1221.5 | 1183.1 | 1176.6 |
| 25° | 1704.1 | 1677.7 | 1634.2 | 1508.0 | 1356.8 | 1235.3 | 1137.6 | 1074.2 | 1035.9 | 1030.6 |
| 27.5° | 1795.2 | 1778.1 | 1657.9 | 1430.8 | 1234.0 | 1104.0 | 1013.4 | 964.6 | 936.2 | 934.3 |
| 30° | 1932.6 | 1924.0 | 1646.0 | 1316.5 | 1082.8 | 976.5 | 932.9 | 904.6 | 883.4 | 882.8 |
| 32.5° | 2151.8 | 2082.4 | 1607.1 | 1177.2 | 944.8 | 886.1 | 868.3 | 851.1 | 834.5 | 834.5 |
| 35° | 2433.7 | 2210.5 | 1533.1 | 1028.0 | 861.0 | 835.9 | 813.5 | 786.3 | 764.6 | 763.2 |
| 37.5° | 2765.1 | 2289.8 | 1400.4 | 907.9 | 821.3 | 802.2 | 769.2 | 729.0 | 690.6 | 684.0 |
| 40° | 3099.8 | 2313.5 | 1213.5 | 833.9 | 796.3 | 768.5 | 728.2 | 680.7 | 643.7 | 641.8 |
| 42.5° | 3406.9 | 2268.0 | 1015.5 | 783.1 | 771.2 | 734.2 | 691.9 | 649.7 | 620.6 | 620.0 |
| 45° | 3664.4 | 2149.7 | 849.0 | 734.9 | 744.8 | 703.2 | 665.5 | 631.2 | 608.8 | 604.2 |
| 47.5° | 3906.8 | 1982.8 | 732.2 | 684.0 | 718.3 | 686.0 | 654.3 | 622.0 | 600.2 | 596.9 |
| 50° | 4188.0 | 1802.4 | 650.4 | 634.5 | 695.2 | 680.1 | 663.6 | 629.8 | 593.5 | 589.6 |
| 52.5° | 4528.7 | 1646.6 | 586.3 | 591.0 | 677.4 | 687.9 | 687.3 | 652.3 | 588.9 | 583.7 |
| 55° | 4908.9 | 1473.7 | 538.1 | 555.3 | 670.1 | 702.5 | 693.3 | 673.4 | 592.9 | 585.0 |
| 57.5° | 5283.3 | 1271.6 | 504.4 | 528.3 | 659.6 | 701.2 | 664.9 | 636.5 | 602.1 | 591.0 |
| 60° | 5563.9 | 1000.2 | 478.6 | 504.4 | 636.5 | 679.4 | 633.8 | 596.2 | 600.2 | 591.6 |
| 62.5° | 5582.4 | 773.1 | 447.6 | 484.0 | 601.5 | 657.7 | 613.4 | 578.4 | 608.8 | 600.8 |
| 65° | 5254.3 | 584.3 | 418.0 | 459.5 | 563.9 | 643.7 | 593.5 | 568.5 | 626.6 | 618.0 |
| 67.5° | 4423.6 | 470.1 | 392.8 | 434.4 | 526.2 | 614.7 | 575.7 | 559.2 | 642.4 | 627.3 |
| 70° | 3193.7 | 400.8 | 368.5 | 404.1 | 492.6 | 581.6 | 559.9 | 542.8 | 599.6 | 575.7 |
| 72.5° | 1966.2 | 347.3 | 340.6 | 363.8 | 466.8 | 547.4 | 536.1 | 511.7 | 540.1 | 521.0 |
| 75° | 981.8 | 301.1 | 309.6 | 324.2 | 430.5 | 508.4 | 496.5 | 472.1 | 476.1 | 472.1 |
| 77.5° | 470.1 | 257.5 | 273.3 | 284.6 | 383.6 | 464.1 | 451.6 | 426.6 | 421.9 | 422.6 |
| 80° | 297.8 | 215.2 | 230.5 | 238.3 | 342.7 | 412.7 | 400.1 | 375.0 | 427.8 | 396.8 |
| 82.5° | 186.2 | 174.9 | 178.9 | 193.4 | 298.4 | 359.2 | 342.7 | 320.2 | 385.6 | 305.0 |
| 85° | 103.0 | 122.1 | 127.5 | 139.9 | 229.8 | 300.4 | 283.9 | 255.5 | 229.1 | 225.2 |
| 87.5° | 61.4 | 72.6 | 74.6 | 83.9 | 154.5 | 217.2 | 192.1 | 182.2 | 151.2 | 150.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)