

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: P192241

Luminaire Tested: **GAN-AF-03-LED-U-T3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192241
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-03-LED-U-T3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14685 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

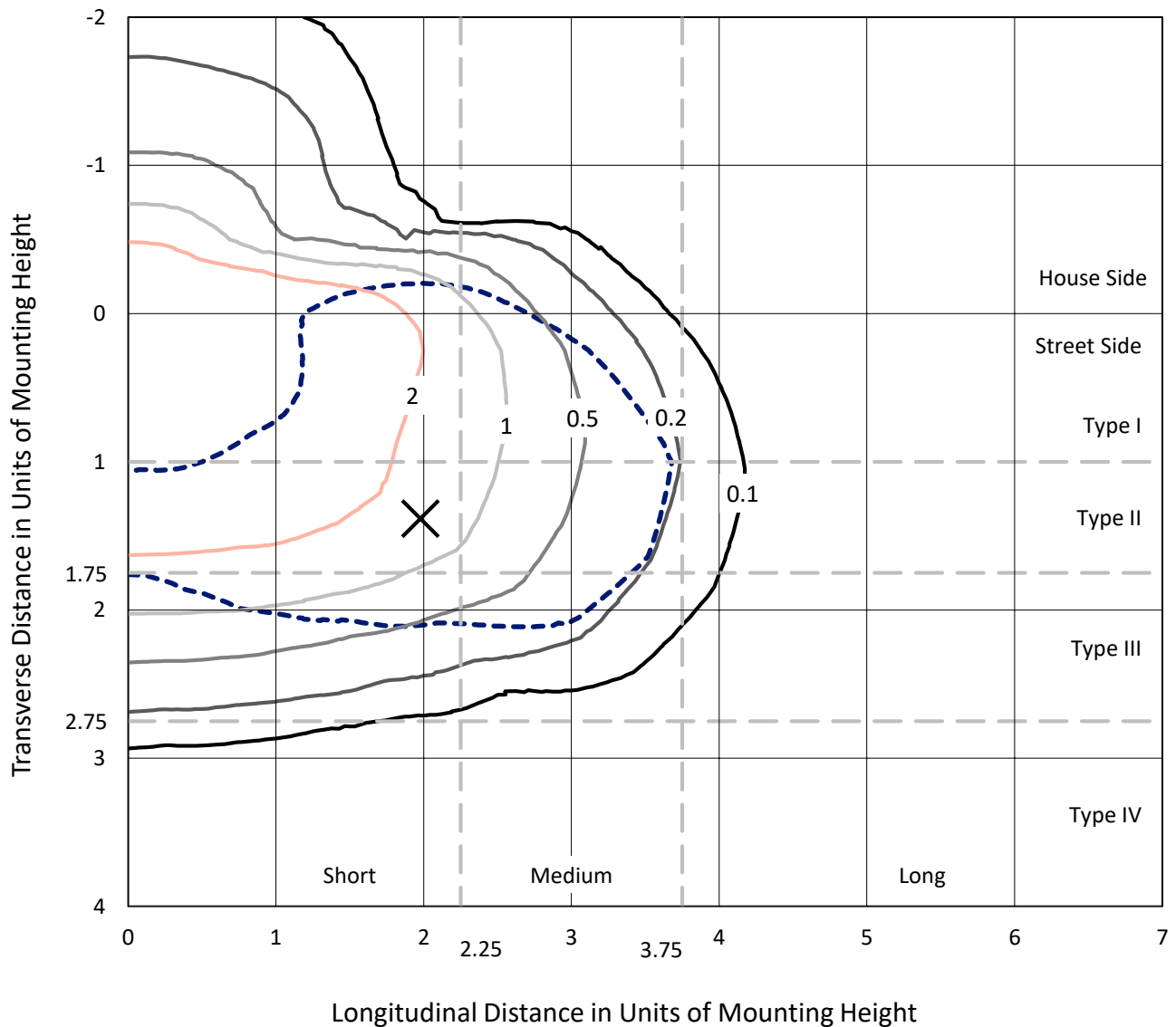
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

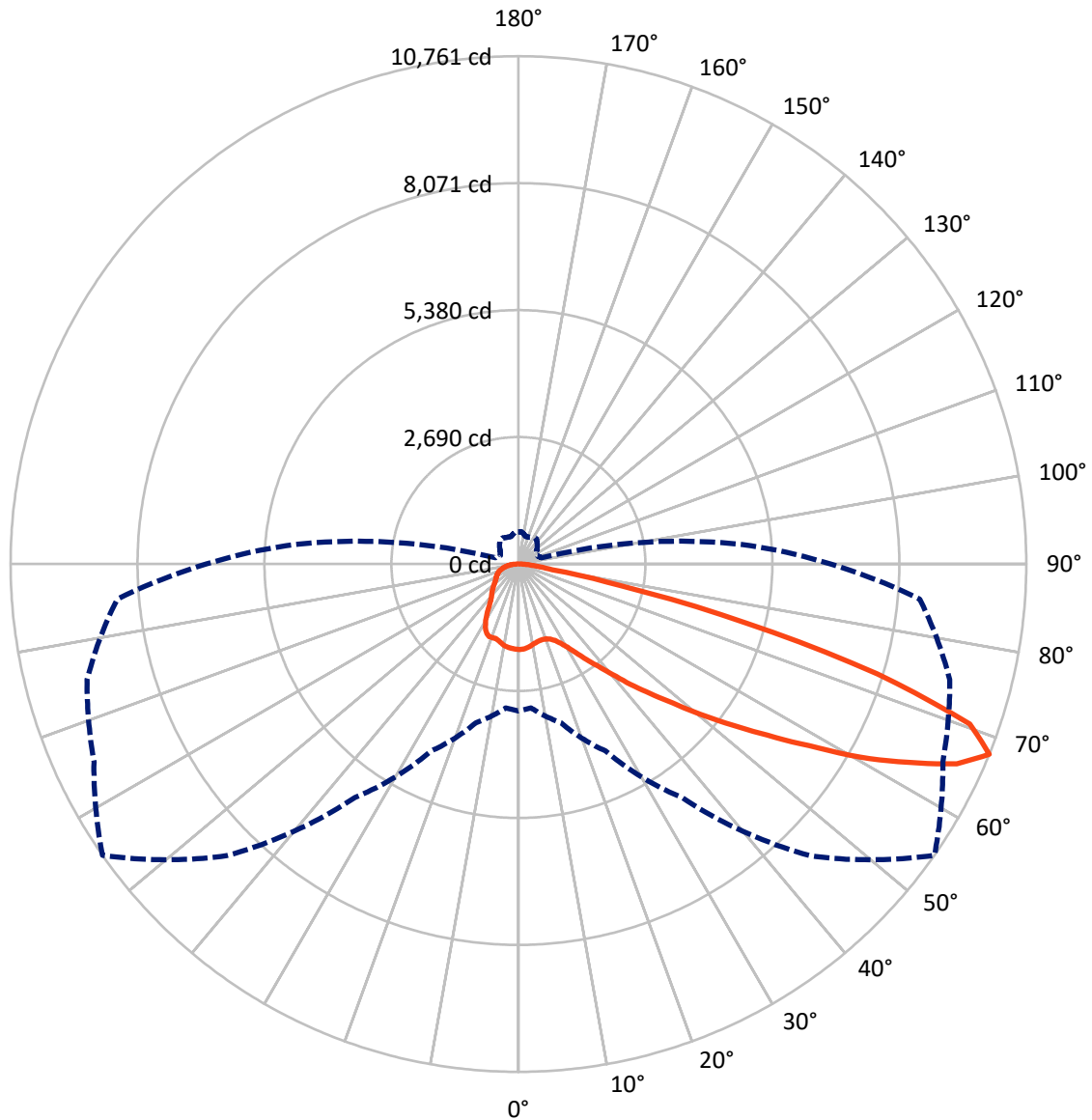
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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 | 3172.3 | 0.0 | 3172.3 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 11512.7 | 0.0 | 11512.7 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 14685.0 | 0.0 | 14685.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 169.0 | 1.2 |
| 10°-20° | 478.7 | 3.3 |
| 20°-30° | 801.9 | 5.5 |
| 30°-40° | 1318.6 | 9.0 |
| 40°-50° | 2219.6 | 15.1 |
| 50°-60° | 3493.6 | 23.8 |
| 60°-70° | 4169.2 | 28.4 |
| 70°-80° | 1790.3 | 12.2 |
| 80°-90° | 244.1 | 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° | 14685.0 | 100.0 |
| 0°-180° | 14685.0 | 100.0 |



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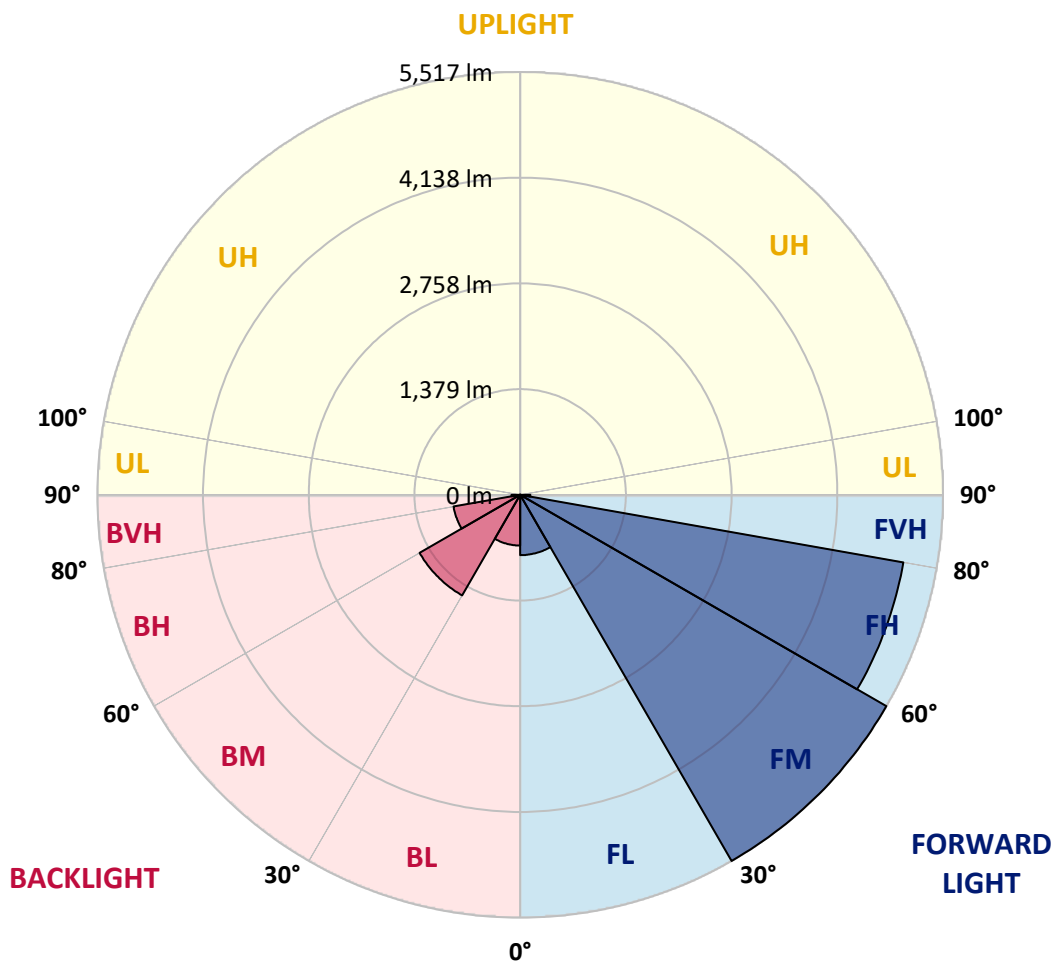
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 787.2 | 5.4 | | | |
| FM (30°-60°) | 5516.8 | 37.6 | | | |
| FH (60°-80°) | 5076.7 | 34.6 | | | G3/7500 |
| FVH (80°-90°) | 132.1 | 0.9 | | | G2/225 |
| BL (0°-30°) | 662.4 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 1515.0 | 10.3 | B2/2500 | | |
| BH (60°-80°) | 882.8 | 6.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 112.0 | 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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|
| 0° | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 |
| 2.5° | 1795.2 | 1795.9 | 1797.3 | 1803.0 | 1808.0 | 1806.6 | 1807.3 | 1804.4 | 1803.7 | 1799.5 | 1803.7 |
| 5° | 1772.5 | 1774.6 | 1775.4 | 1784.6 | 1790.3 | 1791.7 | 1789.5 | 1786.0 | 1781.7 | 1777.5 | 1779.6 |
| 7.5° | 1720.7 | 1726.4 | 1727.1 | 1739.9 | 1749.1 | 1761.2 | 1761.9 | 1762.6 | 1760.5 | 1757.6 | 1761.9 |
| 10° | 1688.1 | 1689.5 | 1688.8 | 1698.0 | 1705.1 | 1718.6 | 1726.4 | 1739.9 | 1745.6 | 1747.0 | 1749.8 |
| 12.5° | 1686.0 | 1684.6 | 1682.4 | 1682.4 | 1680.3 | 1686.0 | 1700.2 | 1719.3 | 1732.8 | 1737.1 | 1740.6 |
| 15° | 1708.7 | 1708.0 | 1700.9 | 1690.2 | 1676.8 | 1672.5 | 1684.6 | 1705.8 | 1723.6 | 1732.8 | 1736.3 |
| 17.5° | 1759.8 | 1755.5 | 1744.1 | 1720.0 | 1691.0 | 1679.6 | 1681.0 | 1698.8 | 1719.3 | 1731.4 | 1734.9 |
| 20° | 1853.4 | 1853.4 | 1829.3 | 1783.9 | 1732.1 | 1705.1 | 1692.4 | 1703.0 | 1722.9 | 1739.2 | 1744.1 |
| 22.5° | 2015.1 | 2016.5 | 1976.1 | 1901.6 | 1814.4 | 1756.9 | 1725.0 | 1722.9 | 1746.3 | 1764.7 | 1770.4 |
| 25° | 2244.2 | 2238.5 | 2181.8 | 2075.4 | 1942.7 | 1847.7 | 1792.4 | 1779.6 | 1799.5 | 1820.0 | 1827.1 |
| 27.5° | 2510.9 | 2490.3 | 2422.9 | 2294.6 | 2122.9 | 1983.9 | 1898.8 | 1878.2 | 1897.4 | 1920.8 | 1927.9 |
| 30° | 2774.7 | 2753.5 | 2673.3 | 2532.9 | 2342.1 | 2166.2 | 2044.2 | 2010.8 | 2037.8 | 2071.1 | 2075.4 |
| 32.5° | 3038.6 | 3038.6 | 2949.2 | 2785.4 | 2577.6 | 2383.9 | 2237.8 | 2198.1 | 2242.8 | 2283.2 | 2292.4 |
| 35° | 3354.2 | 3355.7 | 3269.1 | 3071.9 | 2848.5 | 2643.5 | 2482.5 | 2453.4 | 2520.8 | 2549.2 | 2571.2 |
| 37.5° | 3742.2 | 3750.0 | 3638.7 | 3400.3 | 3155.6 | 2940.0 | 2748.5 | 2708.8 | 2776.2 | 2853.5 | 2924.4 |
| 40° | 4161.4 | 4171.3 | 4048.6 | 3755.0 | 3510.3 | 3284.7 | 3077.6 | 3006.0 | 3118.0 | 3265.6 | 3357.1 |
| 42.5° | 4561.5 | 4612.5 | 4494.1 | 4191.9 | 3928.8 | 3695.4 | 3485.5 | 3381.2 | 3521.6 | 3744.3 | 3823.8 |
| 45° | 5139.5 | 5176.4 | 4970.0 | 4696.2 | 4448.7 | 4187.7 | 3909.6 | 3799.7 | 3996.1 | 4277.0 | 4293.3 |
| 47.5° | 5524.7 | 5497.0 | 5392.0 | 5221.8 | 5065.0 | 4821.1 | 4402.6 | 4282.0 | 4543.0 | 4873.5 | 4782.0 |
| 50° | 5729.7 | 5738.2 | 5724.0 | 5733.9 | 5739.6 | 5586.4 | 5006.9 | 4841.6 | 5153.0 | 5552.3 | 5341.7 |
| 52.5° | 5921.2 | 5864.4 | 5911.2 | 6143.9 | 6424.8 | 6368.0 | 5664.4 | 5492.0 | 5807.0 | 6305.6 | 5933.2 |
| 55° | 5916.9 | 5830.4 | 5982.9 | 6393.6 | 7002.8 | 7068.1 | 6402.8 | 6204.2 | 6498.5 | 7113.5 | 6560.2 |
| 57.5° | 5707.7 | 5711.9 | 5946.7 | 6484.3 | 7405.7 | 7726.3 | 7259.6 | 6961.7 | 7231.9 | 7932.0 | 7132.6 |
| 60° | 5419.7 | 5458.7 | 5797.0 | 6469.4 | 7728.4 | 8266.1 | 8310.8 | 7778.1 | 7950.4 | 8676.1 | 7606.4 |
| 62.5° | 4955.1 | 4996.2 | 5463.0 | 6314.8 | 7679.5 | 8786.0 | 9261.2 | 8704.4 | 8701.6 | 9127.2 | 7745.5 |
| 65° | 4222.4 | 4210.4 | 4700.5 | 5736.7 | 7268.8 | 9170.4 | 10205.3 | 9505.2 | 9267.6 | 9134.3 | 7466.0 |
| 67.5° | 3113.8 | 3059.9 | 3480.5 | 4369.2 | 6041.7 | 8739.9 | 10760.7 | 9922.3 | 9460.5 | 8533.5 | 6612.0 |
| 70° | 1615.8 | 1561.9 | 1902.3 | 2551.3 | 3973.5 | 6821.3 | 10145.7 | 9706.7 | 9034.2 | 7153.2 | 5180.0 |
| 72.5° | 690.8 | 681.6 | 819.9 | 1119.3 | 1922.2 | 3934.4 | 7955.4 | 8401.6 | 7751.8 | 5329.6 | 3561.4 |
| 75° | 464.6 | 461.7 | 513.5 | 610.0 | 864.6 | 1596.6 | 4978.5 | 5963.7 | 5671.5 | 3304.6 | 2003.0 |
| 77.5° | 364.6 | 361.0 | 391.5 | 438.3 | 560.3 | 629.9 | 2209.4 | 3201.7 | 2963.4 | 1438.4 | 876.7 |
| 80° | 285.1 | 282.3 | 301.4 | 327.0 | 402.9 | 397.2 | 727.0 | 1273.9 | 985.9 | 551.1 | 426.3 |
| 82.5° | 224.8 | 224.8 | 240.4 | 241.2 | 285.8 | 270.9 | 379.5 | 561.0 | 492.2 | 321.3 | 261.0 |
| 85° | 205.7 | 205.7 | 222.0 | 180.2 | 186.5 | 170.9 | 235.5 | 332.7 | 312.1 | 131.9 | 113.5 |
| 87.5° | 103.6 | 100.7 | 186.5 | 159.6 | 101.4 | 90.8 | 114.9 | 161.0 | 173.1 | 73.1 | 56.7 |
| 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° | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 | 1810.8 |
| 2.5° | 1802.3 | 1801.6 | 1803.0 | 1803.7 | 1809.4 | 1817.2 | 1820.8 | 1825.7 | 1828.6 | 1827.1 |
| 5° | 1781.0 | 1782.4 | 1788.1 | 1792.4 | 1802.3 | 1815.1 | 1822.2 | 1827.8 | 1832.8 | 1830.7 |
| 7.5° | 1763.3 | 1766.8 | 1775.4 | 1778.9 | 1784.6 | 1788.1 | 1787.4 | 1789.5 | 1793.8 | 1788.8 |
| 10° | 1753.4 | 1757.6 | 1764.0 | 1759.0 | 1745.6 | 1726.4 | 1708.7 | 1699.5 | 1702.3 | 1698.8 |
| 12.5° | 1743.4 | 1749.1 | 1744.1 | 1720.7 | 1683.1 | 1658.3 | 1644.8 | 1646.3 | 1652.6 | 1654.1 |
| 15° | 1737.8 | 1739.9 | 1718.6 | 1674.6 | 1636.3 | 1632.8 | 1639.9 | 1638.5 | 1639.2 | 1639.2 |
| 17.5° | 1737.8 | 1732.1 | 1692.4 | 1648.4 | 1632.1 | 1625.7 | 1603.7 | 1576.0 | 1564.0 | 1559.7 |
| 20° | 1747.0 | 1732.1 | 1683.9 | 1654.8 | 1619.3 | 1564.7 | 1506.5 | 1455.5 | 1432.8 | 1426.4 |
| 22.5° | 1774.6 | 1749.1 | 1708.0 | 1657.6 | 1556.9 | 1465.4 | 1373.2 | 1312.2 | 1271.1 | 1264.0 |
| 25° | 1830.7 | 1802.3 | 1755.5 | 1620.0 | 1457.6 | 1327.1 | 1222.1 | 1154.0 | 1112.9 | 1107.2 |
| 27.5° | 1928.6 | 1910.1 | 1781.0 | 1537.0 | 1325.7 | 1185.9 | 1088.8 | 1036.3 | 1005.8 | 1003.6 |
| 30° | 2076.1 | 2066.9 | 1768.3 | 1414.3 | 1163.2 | 1049.0 | 1002.2 | 971.7 | 949.0 | 948.3 |
| 32.5° | 2311.6 | 2237.1 | 1726.4 | 1264.7 | 1015.0 | 951.9 | 932.7 | 914.3 | 896.5 | 896.5 |
| 35° | 2614.4 | 2374.7 | 1647.0 | 1104.4 | 924.9 | 898.0 | 873.8 | 844.8 | 821.4 | 819.9 |
| 37.5° | 2970.5 | 2459.8 | 1504.4 | 975.3 | 882.4 | 861.8 | 826.3 | 783.1 | 741.9 | 734.8 |
| 40° | 3330.1 | 2485.4 | 1303.7 | 895.8 | 855.4 | 825.6 | 782.3 | 731.3 | 691.6 | 689.4 |
| 42.5° | 3659.9 | 2436.4 | 1090.9 | 841.2 | 828.5 | 788.7 | 743.3 | 697.9 | 666.7 | 666.0 |
| 45° | 3936.6 | 2309.5 | 912.1 | 789.4 | 800.1 | 755.4 | 715.0 | 678.1 | 654.0 | 649.0 |
| 47.5° | 4196.9 | 2130.0 | 786.6 | 734.8 | 771.7 | 737.0 | 702.9 | 668.2 | 644.7 | 641.2 |
| 50° | 4499.0 | 1936.4 | 698.7 | 681.6 | 746.9 | 730.6 | 712.8 | 676.7 | 637.7 | 633.4 |
| 52.5° | 4865.0 | 1769.0 | 629.9 | 634.8 | 727.7 | 739.1 | 738.4 | 700.8 | 632.7 | 627.0 |
| 55° | 5273.6 | 1583.1 | 578.1 | 596.5 | 719.9 | 754.7 | 744.8 | 723.5 | 636.9 | 628.4 |
| 57.5° | 5675.7 | 1366.1 | 541.9 | 567.4 | 708.6 | 753.3 | 714.3 | 683.8 | 646.9 | 634.8 |
| 60° | 5977.2 | 1074.6 | 514.2 | 541.9 | 683.8 | 729.9 | 680.9 | 640.5 | 644.7 | 635.5 |
| 62.5° | 5997.1 | 830.6 | 480.9 | 519.9 | 646.2 | 706.5 | 658.9 | 621.3 | 654.0 | 645.5 |
| 65° | 5644.5 | 627.7 | 449.0 | 493.7 | 605.7 | 691.6 | 637.7 | 610.7 | 673.1 | 663.9 |
| 67.5° | 4752.3 | 505.0 | 422.0 | 466.7 | 565.3 | 660.4 | 618.5 | 600.8 | 690.1 | 673.8 |
| 70° | 3430.8 | 430.5 | 395.8 | 434.1 | 529.1 | 624.9 | 601.5 | 583.0 | 644.0 | 618.5 |
| 72.5° | 2112.3 | 373.1 | 366.0 | 390.8 | 501.5 | 588.0 | 575.9 | 549.7 | 580.2 | 559.6 |
| 75° | 1054.7 | 323.4 | 332.7 | 348.3 | 462.5 | 546.2 | 533.4 | 507.1 | 511.4 | 507.1 |
| 77.5° | 505.0 | 276.6 | 293.6 | 305.7 | 412.1 | 498.6 | 485.2 | 458.2 | 453.2 | 453.9 |
| 80° | 319.9 | 231.2 | 247.5 | 256.1 | 368.1 | 443.3 | 429.8 | 402.9 | 459.6 | 426.3 |
| 82.5° | 200.0 | 188.0 | 192.2 | 207.8 | 320.6 | 385.9 | 368.1 | 344.0 | 414.2 | 327.7 |
| 85° | 110.6 | 131.2 | 136.9 | 150.4 | 246.8 | 322.7 | 305.0 | 274.5 | 246.1 | 241.9 |
| 87.5° | 66.0 | 78.0 | 80.1 | 90.1 | 166.0 | 233.4 | 206.4 | 195.8 | 162.4 | 161.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)