

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: P192990

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11192.5 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

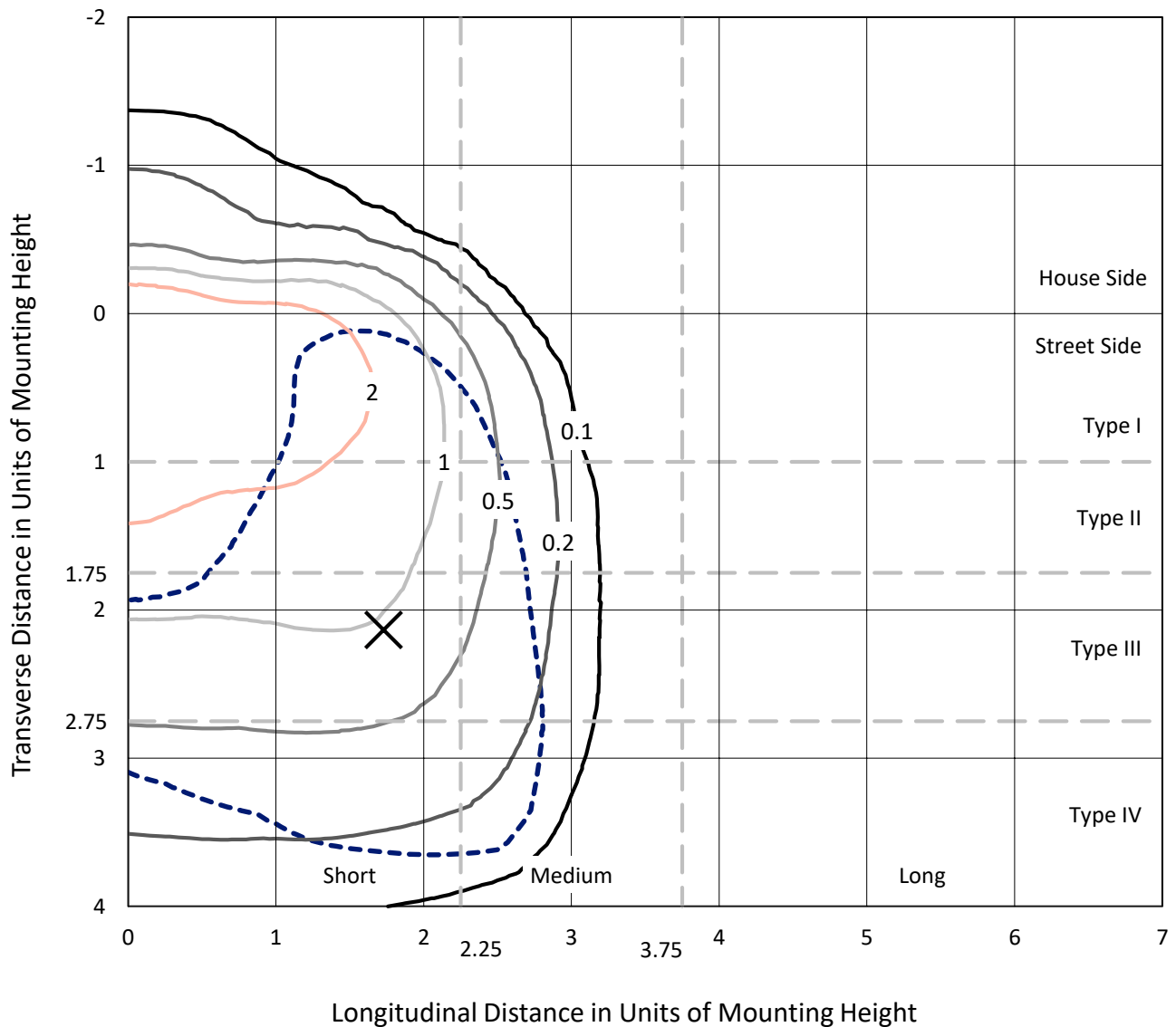
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

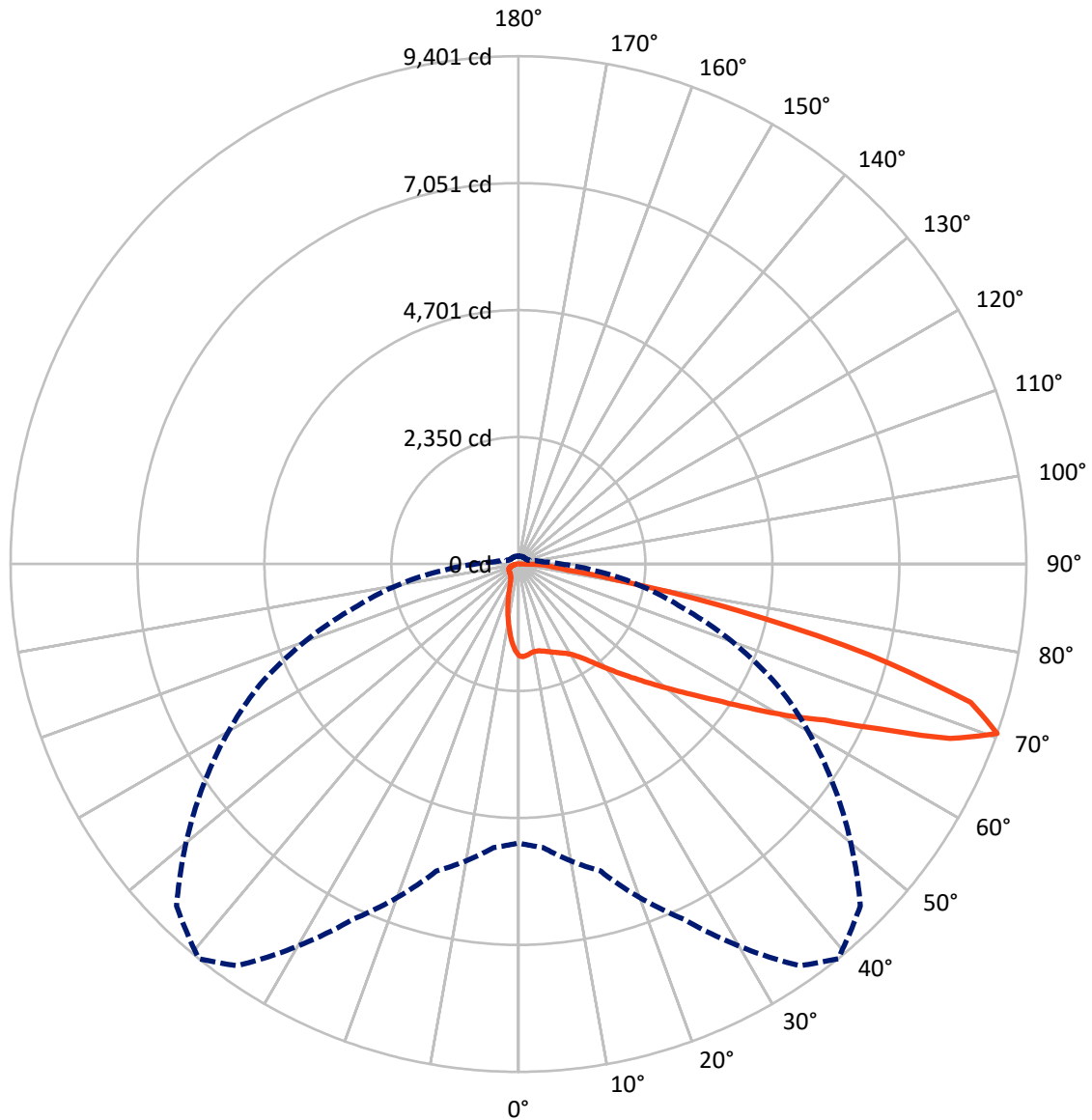


Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1273.0 | 0.0 | 1273.0 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 9919.5 | 0.0 | 9919.5 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 11192.5 | 0.0 | 11192.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 145.8 | 1.3 |
| 10°-20° | 364.5 | 3.3 |
| 20°-30° | 567.5 | 5.1 |
| 30°-40° | 884.1 | 7.9 |
| 40°-50° | 1484.3 | 13.3 |
| 50°-60° | 2357.9 | 21.1 |
| 60°-70° | 3145.2 | 28.1 |
| 70°-80° | 1899.3 | 17.0 |
| 80°-90° | 343.8 | 3.1 |
| 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° | 11192.5 | 100.0 |
| 0°-180° | 11192.5 | 100.0 |

Coefficient of Utilization



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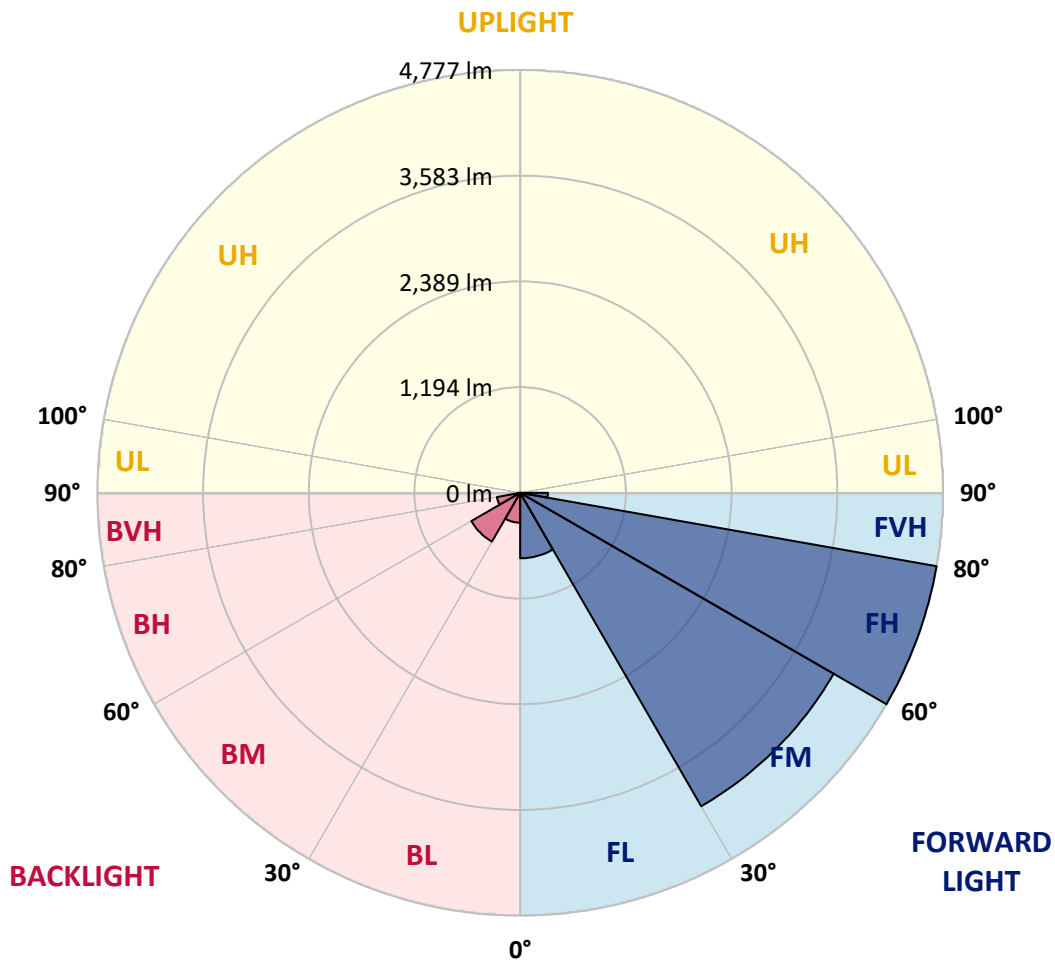
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 740.2 | 6.6 | | | |
| FM | (30°-60°) | 4089.3 | 36.5 | | | |
| FH | (60°-80°) | 4777.3 | 42.7 | | | G2/5000 |
| FVH | (80°-90°) | 312.8 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 337.7 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 637.0 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 267.2 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 31.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 |
| 2.5° | 1732.2 | 1731.6 | 1727.1 | 1723.7 | 1720.9 | 1719.6 | 1721.9 | 1713.4 | 1706.0 | 1696.9 | 1687.3 |
| 5° | 1719.0 | 1718.5 | 1711.1 | 1704.3 | 1697.5 | 1695.2 | 1694.6 | 1679.4 | 1670.1 | 1656.5 | 1638.4 |
| 7.5° | 1704.9 | 1702.0 | 1692.3 | 1681.0 | 1669.1 | 1663.4 | 1657.7 | 1637.7 | 1627.5 | 1613.9 | 1592.8 |
| 10° | 1690.1 | 1686.6 | 1677.5 | 1666.2 | 1654.8 | 1646.3 | 1636.6 | 1617.2 | 1606.4 | 1596.2 | 1571.7 |
| 12.5° | 1674.7 | 1671.8 | 1669.6 | 1664.4 | 1656.5 | 1649.2 | 1641.7 | 1625.2 | 1613.9 | 1601.8 | 1573.5 |
| 15° | 1672.4 | 1671.3 | 1676.5 | 1679.9 | 1675.3 | 1670.8 | 1662.8 | 1648.5 | 1636.6 | 1624.6 | 1587.6 |
| 17.5° | 1690.7 | 1690.1 | 1703.2 | 1712.3 | 1710.0 | 1702.0 | 1691.3 | 1675.3 | 1665.6 | 1655.4 | 1609.3 |
| 20° | 1730.4 | 1733.3 | 1749.2 | 1761.3 | 1749.9 | 1738.5 | 1720.9 | 1698.7 | 1693.5 | 1688.9 | 1631.5 |
| 22.5° | 1805.6 | 1808.5 | 1819.8 | 1824.4 | 1794.8 | 1778.3 | 1753.8 | 1725.4 | 1721.9 | 1725.4 | 1658.2 |
| 25° | 1922.9 | 1920.0 | 1918.3 | 1901.2 | 1847.1 | 1821.6 | 1790.2 | 1760.6 | 1762.4 | 1777.7 | 1695.8 |
| 27.5° | 2078.2 | 2062.9 | 2038.9 | 1987.8 | 1901.7 | 1873.4 | 1835.2 | 1807.9 | 1818.7 | 1848.3 | 1752.1 |
| 30° | 2239.3 | 2222.2 | 2166.9 | 2083.3 | 1973.4 | 1942.2 | 1899.5 | 1868.8 | 1897.2 | 1943.9 | 1827.3 |
| 32.5° | 2388.3 | 2386.0 | 2305.3 | 2197.6 | 2072.5 | 2045.3 | 2002.5 | 1967.8 | 2013.8 | 2085.0 | 1939.9 |
| 35° | 2551.1 | 2556.2 | 2459.4 | 2330.3 | 2206.3 | 2177.7 | 2147.1 | 2120.8 | 2182.4 | 2280.2 | 2103.2 |
| 37.5° | 2725.3 | 2735.5 | 2621.0 | 2475.4 | 2358.7 | 2346.8 | 2328.6 | 2317.2 | 2412.2 | 2547.7 | 2331.4 |
| 40° | 2957.9 | 2947.7 | 2789.0 | 2639.2 | 2546.0 | 2545.4 | 2539.7 | 2553.4 | 2711.6 | 2897.0 | 2624.5 |
| 42.5° | 3207.2 | 3177.0 | 2967.1 | 2815.1 | 2751.3 | 2770.7 | 2782.1 | 2837.9 | 3071.8 | 3321.6 | 2981.8 |
| 45° | 3475.7 | 3408.2 | 3152.0 | 3001.3 | 2979.6 | 3020.6 | 3059.3 | 3180.4 | 3495.7 | 3804.7 | 3373.4 |
| 47.5° | 3690.3 | 3624.9 | 3343.3 | 3196.4 | 3243.6 | 3305.6 | 3380.2 | 3571.9 | 3970.3 | 4303.7 | 3759.7 |
| 50° | 3859.4 | 3816.7 | 3536.0 | 3423.9 | 3534.4 | 3630.0 | 3751.8 | 4015.3 | 4464.3 | 4789.7 | 4117.7 |
| 52.5° | 4023.3 | 3991.3 | 3730.7 | 3657.4 | 3875.9 | 4007.8 | 4173.4 | 4491.0 | 4970.6 | 5267.7 | 4418.7 |
| 55° | 4171.2 | 4148.3 | 3940.1 | 3948.1 | 4277.6 | 4449.5 | 4657.7 | 5032.7 | 5522.7 | 5693.9 | 4673.7 |
| 57.5° | 4337.9 | 4308.8 | 4179.1 | 4312.9 | 4793.8 | 5016.7 | 5287.7 | 5641.6 | 6040.5 | 6072.9 | 4867.7 |
| 60° | 4505.8 | 4480.7 | 4444.3 | 4733.9 | 5449.3 | 5683.6 | 5940.3 | 6231.7 | 6565.7 | 6367.2 | 4856.3 |
| 62.5° | 4651.5 | 4654.3 | 4718.6 | 5176.1 | 6091.2 | 6362.6 | 6675.6 | 6963.5 | 7040.8 | 6418.3 | 4497.2 |
| 65° | 4898.4 | 4943.3 | 5135.1 | 5802.1 | 6994.8 | 7357.8 | 7742.0 | 7695.9 | 7172.4 | 5939.8 | 3727.3 |
| 67.5° | 5192.1 | 5271.1 | 5659.8 | 6636.3 | 8136.9 | 8618.9 | 8767.4 | 7861.5 | 6646.0 | 4828.3 | 2656.9 |
| 70° | 5162.5 | 5271.1 | 5886.4 | 7258.3 | 9078.2 | 9401.3 | 8950.6 | 7114.9 | 5277.4 | 3154.4 | 1411.3 |
| 72.5° | 4584.3 | 4739.6 | 5424.8 | 6973.2 | 8781.6 | 8753.2 | 7770.4 | 5304.2 | 3135.5 | 1266.8 | 551.4 |
| 75° | 3494.0 | 3651.0 | 4240.6 | 5509.1 | 6940.8 | 6701.8 | 5513.6 | 2930.2 | 1190.0 | 503.0 | 347.7 |
| 77.5° | 2010.0 | 2131.6 | 2586.9 | 3378.6 | 4403.3 | 4158.1 | 3068.9 | 1303.1 | 579.3 | 350.5 | 271.4 |
| 80° | 1122.2 | 1190.0 | 1466.5 | 1714.0 | 2157.9 | 1978.0 | 1373.2 | 809.7 | 432.4 | 254.3 | 209.4 |
| 82.5° | 887.1 | 947.5 | 1185.9 | 1081.2 | 985.6 | 909.4 | 788.8 | 721.0 | 345.4 | 160.5 | 125.2 |
| 85° | 775.0 | 832.5 | 1003.8 | 851.3 | 673.1 | 617.5 | 640.8 | 709.6 | 268.6 | 96.7 | 107.0 |
| 87.5° | 718.2 | 795.0 | 894.5 | 656.1 | 524.1 | 464.4 | 591.2 | 777.9 | 86.6 | 60.3 | 43.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 | 1699.2 |
| 2.5° | 1678.7 | 1669.6 | 1654.8 | 1641.7 | 1621.2 | 1610.4 | 1598.5 | 1589.9 | 1583.0 | 1577.3 | 1586.6 |
| 5° | 1627.0 | 1609.8 | 1578.6 | 1545.0 | 1505.1 | 1473.8 | 1447.6 | 1423.2 | 1406.1 | 1394.8 | 1402.7 |
| 7.5° | 1578.0 | 1550.1 | 1501.1 | 1440.2 | 1372.0 | 1314.0 | 1266.1 | 1224.0 | 1195.0 | 1176.2 | 1183.6 |
| 10° | 1550.1 | 1515.4 | 1439.7 | 1344.1 | 1243.4 | 1152.9 | 1077.9 | 1013.0 | 967.9 | 942.4 | 946.3 |
| 12.5° | 1543.3 | 1498.3 | 1393.6 | 1262.2 | 1124.5 | 998.7 | 892.8 | 802.9 | 739.8 | 706.8 | 707.9 |
| 15° | 1548.4 | 1491.0 | 1350.3 | 1183.6 | 1009.5 | 850.7 | 718.7 | 609.4 | 536.0 | 498.4 | 497.9 |
| 17.5° | 1557.0 | 1485.3 | 1304.9 | 1098.8 | 892.8 | 708.4 | 561.0 | 454.1 | 389.2 | 359.0 | 356.8 |
| 20° | 1566.0 | 1476.1 | 1253.6 | 1007.3 | 771.6 | 576.5 | 439.3 | 355.6 | 314.6 | 298.2 | 297.0 |
| 22.5° | 1579.2 | 1468.1 | 1200.8 | 910.4 | 652.8 | 469.5 | 361.3 | 305.1 | 283.4 | 274.9 | 273.7 |
| 25° | 1600.2 | 1464.2 | 1144.4 | 809.7 | 545.8 | 392.7 | 314.6 | 279.9 | 267.4 | 261.7 | 261.2 |
| 27.5° | 1635.5 | 1469.9 | 1091.5 | 712.0 | 458.7 | 340.9 | 288.6 | 267.4 | 258.4 | 253.3 | 252.6 |
| 30° | 1681.0 | 1487.4 | 1035.7 | 619.2 | 390.9 | 305.6 | 272.6 | 259.0 | 251.6 | 246.4 | 246.4 |
| 32.5° | 1756.7 | 1517.1 | 977.1 | 538.8 | 342.5 | 281.2 | 260.6 | 251.6 | 245.3 | 241.3 | 240.7 |
| 35° | 1868.3 | 1572.9 | 922.4 | 472.3 | 307.9 | 263.5 | 250.4 | 243.5 | 239.0 | 236.8 | 236.8 |
| 37.5° | 2030.4 | 1661.1 | 874.1 | 424.5 | 286.8 | 251.6 | 240.7 | 235.6 | 232.7 | 232.7 | 232.7 |
| 40° | 2248.3 | 1782.9 | 834.8 | 392.7 | 274.9 | 243.0 | 233.3 | 229.3 | 227.6 | 228.3 | 228.3 |
| 42.5° | 2517.6 | 1941.1 | 808.6 | 370.5 | 269.3 | 237.8 | 228.3 | 224.7 | 223.1 | 222.5 | 223.1 |
| 45° | 2824.3 | 2120.8 | 805.8 | 354.0 | 263.5 | 234.5 | 224.7 | 221.4 | 218.0 | 215.7 | 215.7 |
| 47.5° | 3122.4 | 2303.5 | 829.1 | 348.2 | 257.2 | 230.4 | 221.9 | 218.5 | 213.4 | 208.2 | 208.2 |
| 50° | 3385.8 | 2458.9 | 860.4 | 350.5 | 254.9 | 224.7 | 217.4 | 215.7 | 207.7 | 202.0 | 201.5 |
| 52.5° | 3595.2 | 2578.4 | 886.0 | 357.4 | 257.2 | 220.8 | 211.6 | 212.3 | 203.8 | 197.4 | 196.8 |
| 55° | 3763.1 | 2656.9 | 879.2 | 364.2 | 262.3 | 218.5 | 206.6 | 207.7 | 200.9 | 194.6 | 194.6 |
| 57.5° | 3836.5 | 2627.9 | 803.5 | 358.5 | 266.3 | 219.1 | 202.5 | 207.1 | 201.5 | 195.8 | 195.8 |
| 60° | 3679.0 | 2370.2 | 661.8 | 333.5 | 261.2 | 217.4 | 200.9 | 209.4 | 208.8 | 203.1 | 202.5 |
| 62.5° | 3202.1 | 1908.6 | 513.3 | 296.5 | 243.5 | 208.8 | 196.3 | 208.8 | 215.1 | 213.4 | 212.8 |
| 65° | 2467.9 | 1359.5 | 392.1 | 256.6 | 219.6 | 194.6 | 184.3 | 195.8 | 204.4 | 206.6 | 206.0 |
| 67.5° | 1601.8 | 833.1 | 302.2 | 219.1 | 193.0 | 178.1 | 169.1 | 174.2 | 175.8 | 175.8 | 174.7 |
| 70° | 787.5 | 448.4 | 240.7 | 184.3 | 165.6 | 160.5 | 155.3 | 152.5 | 149.6 | 147.4 | 147.4 |
| 72.5° | 388.6 | 293.1 | 198.0 | 155.9 | 142.8 | 140.5 | 139.5 | 136.0 | 133.8 | 130.9 | 129.7 |
| 75° | 287.4 | 238.4 | 168.5 | 131.4 | 122.9 | 120.6 | 122.9 | 120.0 | 119.5 | 117.2 | 116.1 |
| 77.5° | 236.1 | 203.1 | 145.1 | 112.6 | 105.3 | 101.3 | 104.7 | 105.3 | 105.9 | 102.3 | 101.3 |
| 80° | 191.7 | 171.9 | 121.2 | 93.3 | 86.6 | 83.7 | 85.9 | 90.4 | 91.7 | 86.6 | 84.2 |
| 82.5° | 138.3 | 140.5 | 97.9 | 72.8 | 67.2 | 64.9 | 69.4 | 75.1 | 76.3 | 68.9 | 67.2 |
| 85° | 116.1 | 117.2 | 75.1 | 51.8 | 46.1 | 42.7 | 50.0 | 55.7 | 59.8 | 52.3 | 50.7 |
| 87.5° | 48.4 | 68.9 | 43.2 | 29.1 | 25.5 | 22.2 | 26.8 | 29.6 | 35.8 | 33.0 | 32.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)