

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: P382903

Luminaire Tested: **GAN-SA2C-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13562.4 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

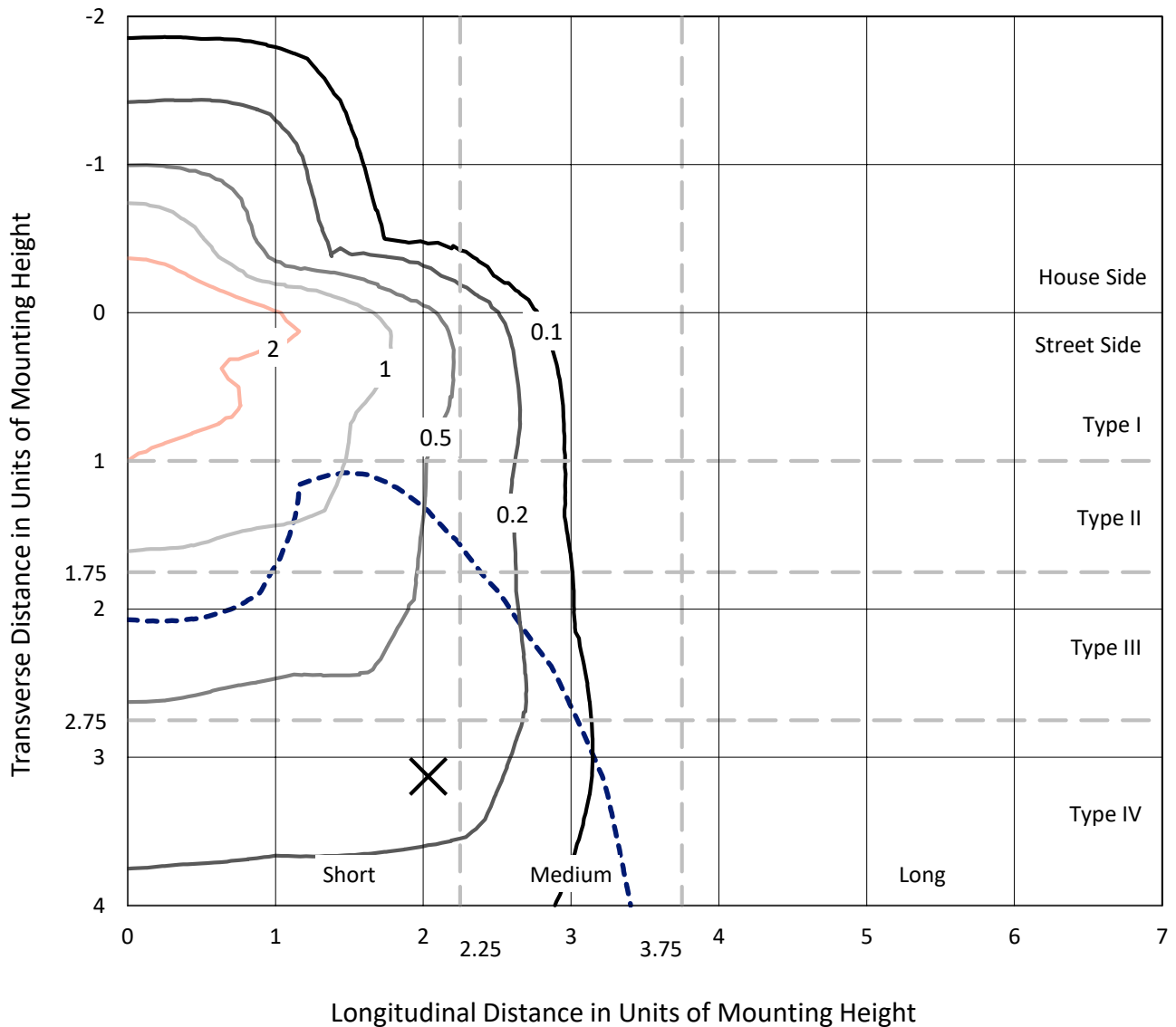
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

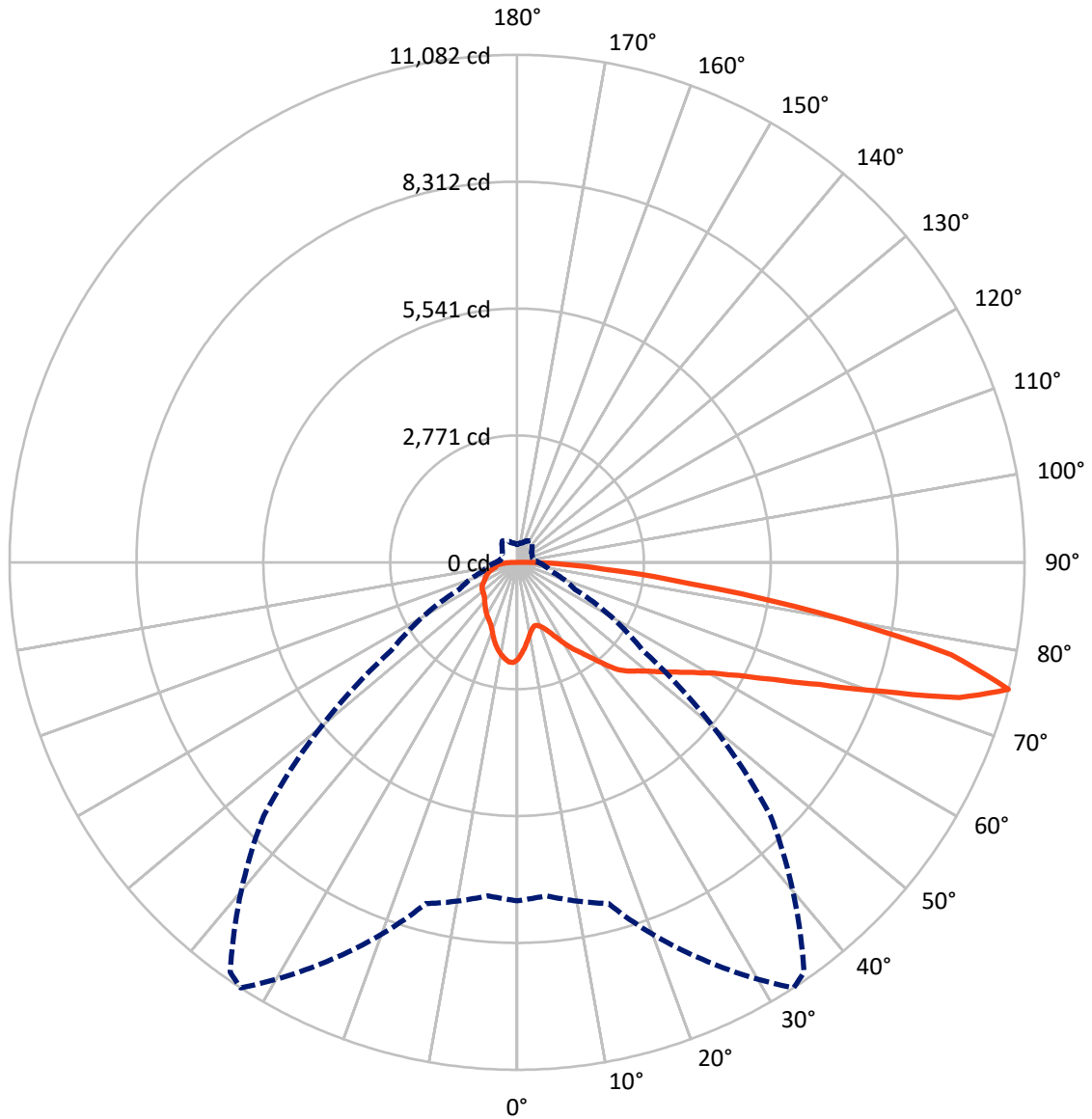
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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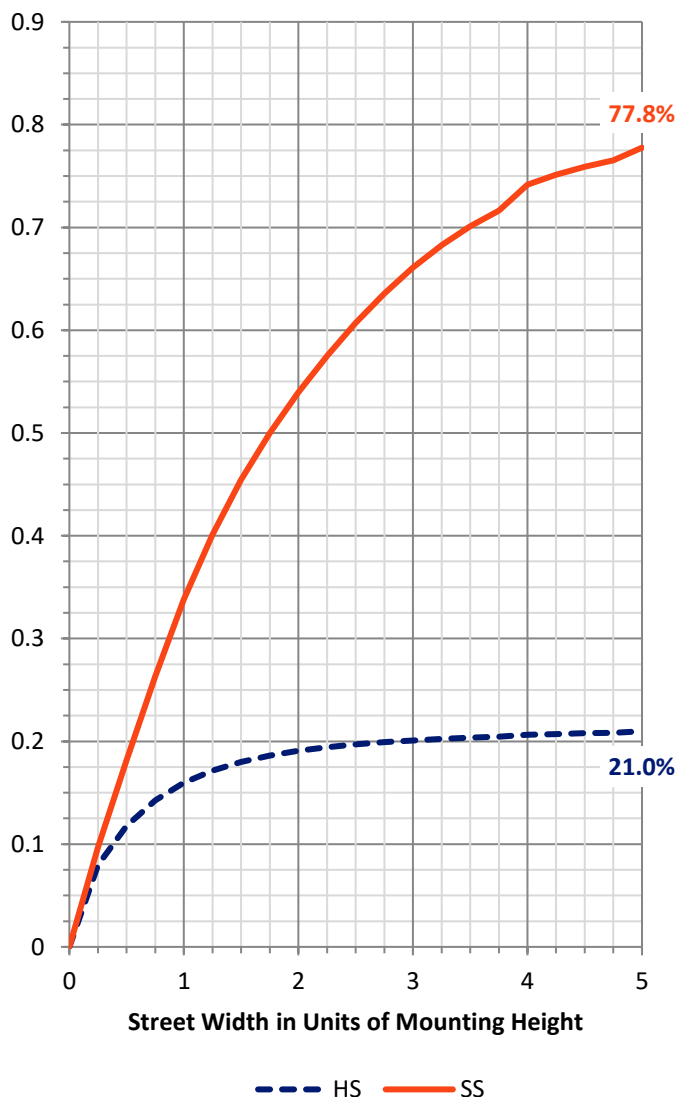
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2912.2 | 0.0 | 2912.2 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 10650.2 | 0.0 | 10650.2 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 13562.4 | 0.0 | 13562.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 191.7 | 1.4 |
| 10°-20° | 519.2 | 3.8 |
| 20°-30° | 848.0 | 6.3 |
| 30°-40° | 1262.9 | 9.3 |
| 40°-50° | 1811.3 | 13.4 |
| 50°-60° | 2486.7 | 18.3 |
| 60°-70° | 3113.2 | 23.0 |
| 70°-80° | 2816.4 | 20.8 |
| 80°-90° | 513.0 | 3.8 |
| 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° | 13562.4 | 100.0 |
| 0°-180° | 13562.4 | 100.0 |

Coefficient of Utilization



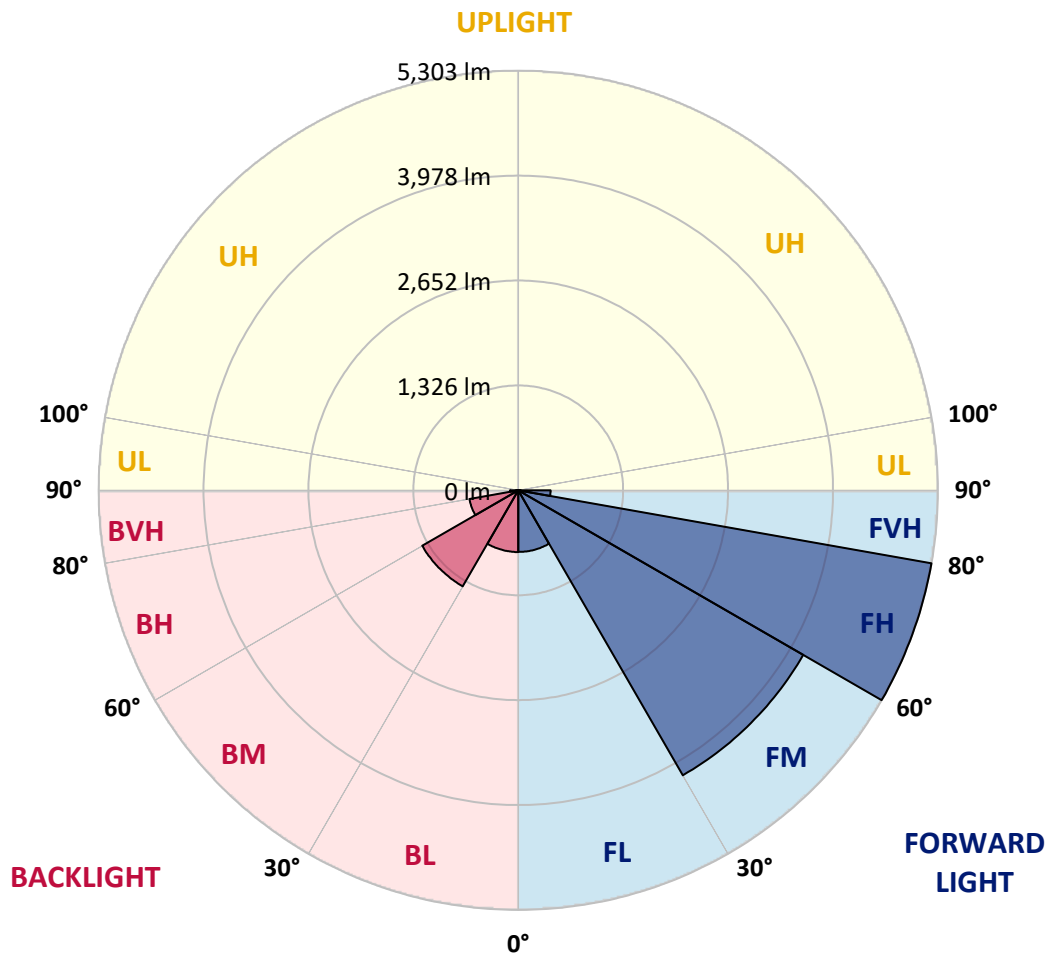
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 779.0 | 5.7 | | | |
| FM (30°-60°) | 4159.3 | 30.7 | | | |
| FH (60°-80°) | 5303.4 | 39.1 | | | G3/7500 |
| FVH (80°-90°) | 408.6 | 3.0 | | | G3/500 |
| BL (0°-30°) | 780.0 | 5.8 | B2/1000 | | |
| BM (30°-60°) | 1401.6 | 10.3 | B2/2500 | | |
| BH (60°-80°) | 626.2 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 104.4 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 |
| 2.5° | 1968.5 | 1961.1 | 1975.2 | 1977.0 | 1989.1 | 1993.9 | 2010.7 | 2036.9 | 2058.5 | 2083.3 | 2105.9 |
| 5° | 1790.1 | 1784.9 | 1804.6 | 1818.7 | 1845.3 | 1856.6 | 1896.4 | 1952.2 | 2001.8 | 2058.1 | 2109.1 |
| 7.5° | 1620.5 | 1617.6 | 1639.7 | 1671.6 | 1702.5 | 1718.0 | 1786.8 | 1867.8 | 1950.8 | 2041.7 | 2119.9 |
| 10° | 1477.6 | 1476.7 | 1497.7 | 1529.1 | 1574.6 | 1591.9 | 1680.9 | 1787.7 | 1903.9 | 2029.0 | 2138.2 |
| 12.5° | 1397.5 | 1400.8 | 1410.6 | 1436.8 | 1479.0 | 1496.3 | 1595.2 | 1720.8 | 1864.6 | 2024.8 | 2164.8 |
| 15° | 1417.2 | 1422.3 | 1405.4 | 1404.5 | 1434.5 | 1448.1 | 1540.9 | 1673.0 | 1836.5 | 2031.8 | 2203.8 |
| 17.5° | 1501.0 | 1501.9 | 1457.4 | 1429.4 | 1447.6 | 1454.6 | 1524.0 | 1645.8 | 1820.1 | 2047.7 | 2252.5 |
| 20° | 1619.0 | 1616.7 | 1538.0 | 1491.2 | 1501.0 | 1502.9 | 1547.9 | 1646.2 | 1818.7 | 2075.4 | 2315.7 |
| 22.5° | 1775.5 | 1758.2 | 1652.4 | 1588.7 | 1586.2 | 1583.4 | 1609.2 | 1680.9 | 1839.2 | 2120.4 | 2391.1 |
| 25° | 1979.8 | 1963.4 | 1817.7 | 1730.5 | 1711.8 | 1704.8 | 1708.6 | 1754.9 | 1880.0 | 2168.6 | 2475.5 |
| 27.5° | 2207.0 | 2178.4 | 2037.9 | 1914.7 | 1875.8 | 1866.0 | 1843.4 | 1859.4 | 1924.5 | 2214.9 | 2575.7 |
| 30° | 2397.2 | 2381.8 | 2259.0 | 2112.8 | 2066.9 | 2052.9 | 1993.9 | 1976.6 | 1988.7 | 2278.2 | 2702.2 |
| 32.5° | 2503.5 | 2493.3 | 2418.8 | 2300.7 | 2258.1 | 2238.4 | 2155.0 | 2120.4 | 2091.8 | 2378.1 | 2873.6 |
| 35° | 2632.4 | 2625.8 | 2580.9 | 2495.2 | 2431.9 | 2411.3 | 2346.7 | 2310.5 | 2237.0 | 2515.3 | 3095.3 |
| 37.5° | 2796.4 | 2789.3 | 2790.3 | 2721.0 | 2645.5 | 2626.3 | 2583.6 | 2545.7 | 2425.3 | 2695.6 | 3336.1 |
| 40° | 2981.9 | 2968.3 | 2963.2 | 2959.9 | 2912.1 | 2901.3 | 2878.9 | 2827.2 | 2661.4 | 2911.2 | 3573.6 |
| 42.5° | 3261.1 | 3212.8 | 3109.8 | 3148.6 | 3196.0 | 3190.4 | 3208.6 | 3134.6 | 2923.8 | 3166.0 | 3805.5 |
| 45° | 3530.5 | 3451.3 | 3273.3 | 3281.7 | 3385.2 | 3416.6 | 3553.4 | 3500.9 | 3208.2 | 3445.2 | 4045.3 |
| 47.5° | 3653.3 | 3593.3 | 3442.0 | 3442.4 | 3545.0 | 3610.1 | 3910.0 | 3872.4 | 3507.1 | 3762.3 | 4338.1 |
| 50° | 3790.5 | 3730.5 | 3594.7 | 3645.7 | 3735.2 | 3804.5 | 4254.3 | 4235.1 | 3791.4 | 4109.5 | 4689.0 |
| 52.5° | 3940.4 | 3838.7 | 3752.6 | 3843.9 | 3969.4 | 4050.0 | 4599.1 | 4546.6 | 4052.3 | 4459.0 | 5092.4 |
| 55° | 3942.3 | 3914.6 | 3980.2 | 4047.2 | 4235.1 | 4333.9 | 4960.3 | 4821.6 | 4265.1 | 4802.4 | 5420.8 |
| 57.5° | 4166.7 | 4121.7 | 4260.8 | 4291.7 | 4537.3 | 4648.7 | 5319.6 | 5061.0 | 4481.5 | 5065.7 | 5597.9 |
| 60° | 4463.7 | 4425.3 | 4539.2 | 4620.7 | 4911.1 | 5060.1 | 5703.3 | 5306.9 | 4651.6 | 5264.4 | 5589.5 |
| 62.5° | 4976.7 | 4933.1 | 4931.7 | 5046.0 | 5437.2 | 5610.5 | 6133.9 | 5548.2 | 4719.0 | 5303.7 | 5351.0 |
| 65° | 5727.6 | 5658.3 | 5527.6 | 5581.9 | 6163.8 | 6336.7 | 6614.9 | 5723.0 | 4630.0 | 5092.9 | 4736.8 |
| 67.5° | 6458.5 | 6456.2 | 6295.5 | 6407.0 | 7123.3 | 7262.0 | 7163.0 | 5740.3 | 4352.2 | 4358.7 | 3647.1 |
| 70° | 7187.0 | 7196.4 | 7169.2 | 7557.1 | 8419.5 | 8563.8 | 7746.8 | 5507.5 | 3727.7 | 3147.7 | 2185.0 |
| 72.5° | 7764.2 | 7761.8 | 7898.6 | 8898.8 | 10101.9 | 10069.6 | 8238.7 | 4801.9 | 2676.4 | 1699.1 | 1044.3 |
| 75° | 7390.3 | 7308.7 | 7716.4 | 9563.1 | 11082.4 | 10924.5 | 7820.3 | 3349.7 | 1389.0 | 773.5 | 562.2 |
| 77.5° | 4820.2 | 4897.5 | 5495.8 | 7900.0 | 9693.8 | 9501.8 | 5737.5 | 1562.9 | 654.5 | 507.3 | 407.6 |
| 80° | 1745.5 | 1827.0 | 2573.4 | 4475.0 | 6678.6 | 6647.2 | 2825.4 | 642.3 | 442.7 | 383.2 | 297.0 |
| 82.5° | 600.6 | 630.6 | 1015.2 | 1987.3 | 3770.8 | 3911.4 | 1063.0 | 365.0 | 321.8 | 271.7 | 203.4 |
| 85° | 235.7 | 269.9 | 464.3 | 956.1 | 1902.0 | 1916.1 | 430.6 | 218.4 | 223.9 | 178.0 | 111.5 |
| 87.5° | 89.5 | 108.7 | 222.1 | 444.2 | 868.6 | 797.9 | 154.2 | 104.0 | 127.4 | 105.9 | 52.9 |
| 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° | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 | 2119.9 |
| 2.5° | 2123.2 | 2133.0 | 2153.6 | 2167.6 | 2182.6 | 2186.9 | 2188.8 | 2192.5 | 2196.2 | 2194.8 | 2195.3 |
| 5° | 2136.3 | 2155.5 | 2188.8 | 2202.8 | 2209.4 | 2201.9 | 2187.4 | 2175.6 | 2167.2 | 2162.5 | 2161.1 |
| 7.5° | 2157.8 | 2185.0 | 2220.6 | 2218.3 | 2203.3 | 2170.0 | 2132.5 | 2104.5 | 2081.0 | 2072.6 | 2067.8 |
| 10° | 2186.4 | 2218.3 | 2243.1 | 2216.4 | 2172.8 | 2115.2 | 2059.0 | 2015.4 | 1980.3 | 1966.7 | 1964.4 |
| 12.5° | 2223.0 | 2255.3 | 2259.9 | 2203.3 | 2131.1 | 2052.4 | 1976.1 | 1918.4 | 1866.0 | 1849.1 | 1845.3 |
| 15° | 2270.3 | 2300.7 | 2271.7 | 2180.3 | 2079.6 | 1973.7 | 1874.8 | 1796.6 | 1741.3 | 1720.8 | 1713.2 |
| 17.5° | 2319.9 | 2349.0 | 2274.0 | 2142.4 | 2012.1 | 1880.5 | 1756.3 | 1676.2 | 1613.0 | 1589.1 | 1586.2 |
| 20° | 2379.5 | 2392.5 | 2264.1 | 2088.1 | 1919.4 | 1759.6 | 1628.9 | 1553.4 | 1519.7 | 1502.9 | 1501.0 |
| 22.5° | 2453.0 | 2438.9 | 2241.7 | 2014.5 | 1801.8 | 1620.1 | 1513.7 | 1478.6 | 1470.1 | 1466.3 | 1467.7 |
| 25° | 2530.7 | 2487.6 | 2208.4 | 1918.4 | 1653.3 | 1480.4 | 1429.4 | 1439.1 | 1450.4 | 1449.0 | 1449.0 |
| 27.5° | 2616.4 | 2537.3 | 2157.4 | 1791.0 | 1488.8 | 1366.1 | 1372.2 | 1408.2 | 1425.1 | 1424.6 | 1424.1 |
| 30° | 2726.5 | 2593.5 | 2092.3 | 1637.8 | 1335.2 | 1285.5 | 1322.5 | 1366.6 | 1389.5 | 1388.6 | 1389.0 |
| 32.5° | 2862.0 | 2655.4 | 2003.7 | 1466.8 | 1224.1 | 1226.0 | 1268.7 | 1312.2 | 1338.9 | 1336.6 | 1337.1 |
| 35° | 3020.3 | 2724.7 | 1883.8 | 1298.2 | 1150.6 | 1178.7 | 1212.4 | 1242.9 | 1268.2 | 1264.9 | 1261.6 |
| 37.5° | 3192.7 | 2792.6 | 1724.5 | 1147.3 | 1090.7 | 1134.6 | 1162.8 | 1167.9 | 1179.6 | 1171.2 | 1165.1 |
| 40° | 3356.6 | 2844.7 | 1519.3 | 1023.7 | 1030.2 | 1097.2 | 1115.4 | 1094.8 | 1073.8 | 1070.9 | 1062.5 |
| 42.5° | 3499.5 | 2862.0 | 1311.7 | 924.7 | 966.5 | 1057.9 | 1069.0 | 1026.0 | 988.0 | 970.2 | 962.8 |
| 45° | 3650.4 | 2868.0 | 1118.2 | 841.8 | 905.1 | 1022.7 | 1034.9 | 977.3 | 923.8 | 885.4 | 872.8 |
| 47.5° | 3847.7 | 2912.1 | 967.9 | 780.5 | 858.2 | 999.3 | 1016.6 | 938.3 | 869.0 | 814.3 | 802.5 |
| 50° | 4105.8 | 2999.2 | 845.6 | 733.7 | 827.8 | 983.8 | 1003.5 | 900.4 | 824.0 | 758.0 | 746.3 |
| 52.5° | 4392.5 | 3079.3 | 746.7 | 695.7 | 798.3 | 956.6 | 986.6 | 873.2 | 781.9 | 706.0 | 693.4 |
| 55° | 4593.0 | 3017.9 | 667.1 | 656.4 | 759.9 | 917.8 | 963.2 | 850.3 | 721.5 | 655.4 | 644.2 |
| 57.5° | 4631.4 | 2808.1 | 606.7 | 615.6 | 713.5 | 869.0 | 927.2 | 799.3 | 688.7 | 633.4 | 621.7 |
| 60° | 4526.5 | 2515.7 | 561.7 | 578.1 | 663.8 | 807.7 | 859.6 | 763.1 | 657.3 | 610.0 | 600.1 |
| 62.5° | 4262.7 | 2216.4 | 528.5 | 544.4 | 617.4 | 745.3 | 817.5 | 725.2 | 625.4 | 583.2 | 573.5 |
| 65° | 3730.0 | 1860.8 | 496.6 | 514.4 | 574.4 | 691.5 | 779.5 | 690.1 | 594.0 | 561.7 | 552.3 |
| 67.5° | 2815.6 | 1393.7 | 466.6 | 482.5 | 535.9 | 644.6 | 738.3 | 655.4 | 563.6 | 543.0 | 531.7 |
| 70° | 1658.0 | 872.8 | 432.4 | 449.3 | 495.7 | 595.9 | 694.3 | 617.4 | 525.7 | 516.3 | 501.7 |
| 72.5° | 771.6 | 525.2 | 393.5 | 409.9 | 445.1 | 530.8 | 637.6 | 567.8 | 480.7 | 460.1 | 440.3 |
| 75° | 460.6 | 384.2 | 347.7 | 362.1 | 387.0 | 461.5 | 566.4 | 517.2 | 438.0 | 410.8 | 390.2 |
| 77.5° | 344.3 | 293.7 | 297.0 | 312.4 | 332.7 | 403.8 | 501.7 | 477.4 | 405.2 | 384.2 | 370.1 |
| 80° | 247.8 | 223.0 | 242.2 | 259.1 | 280.1 | 367.3 | 480.7 | 441.3 | 366.4 | 338.2 | 325.1 |
| 82.5° | 165.3 | 160.2 | 182.2 | 199.5 | 220.2 | 321.4 | 451.6 | 386.5 | 312.9 | 277.3 | 248.3 |
| 85° | 91.4 | 96.5 | 122.8 | 130.2 | 148.0 | 226.3 | 370.1 | 310.6 | 235.7 | 189.8 | 181.3 |
| 87.5° | 37.9 | 44.5 | 66.0 | 63.7 | 78.7 | 134.9 | 243.6 | 187.4 | 149.9 | 112.0 | 87.1 |
| 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)