

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: P382989

Luminaire Tested: **GAN-SA3B-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16138.1 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

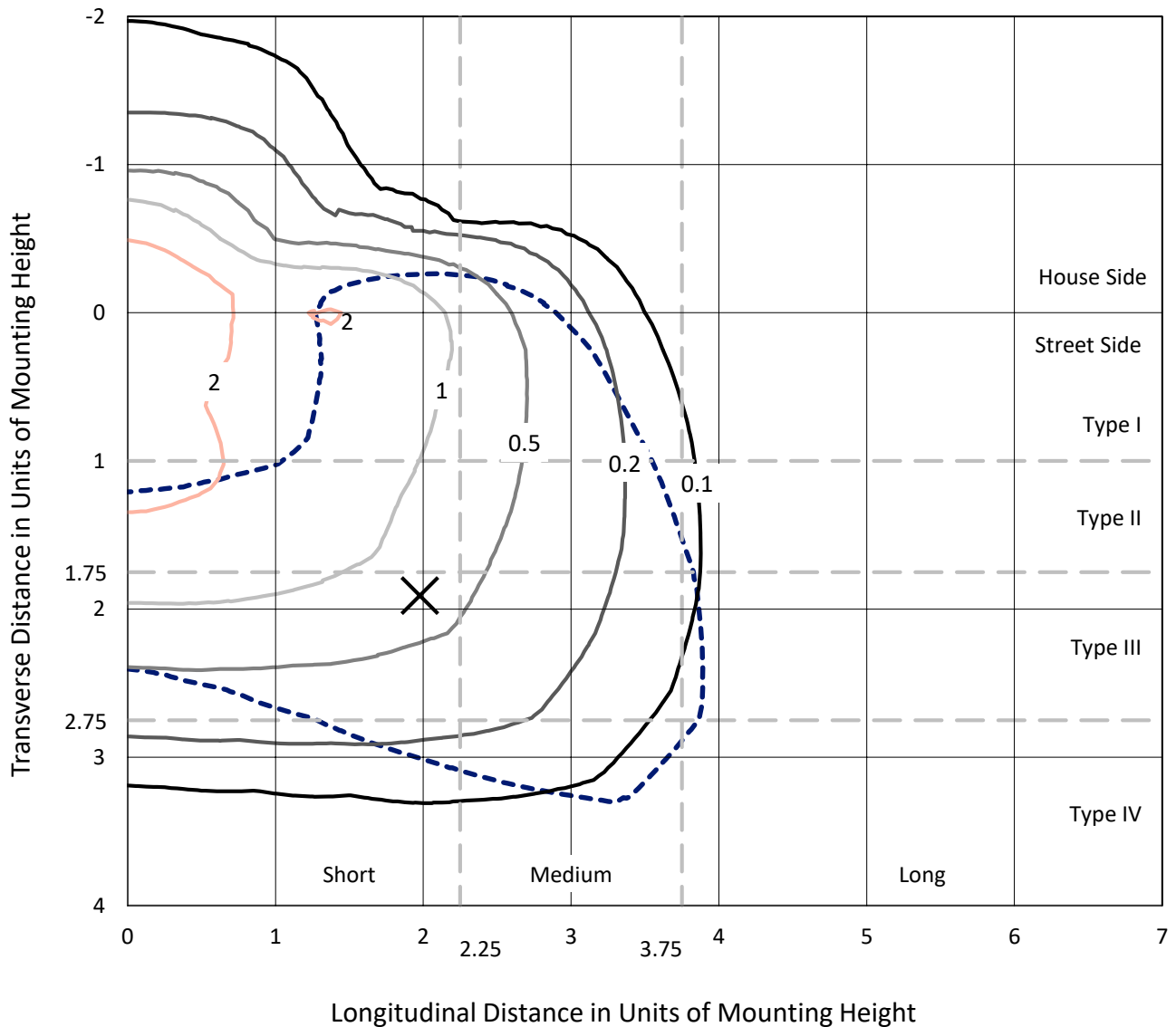
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

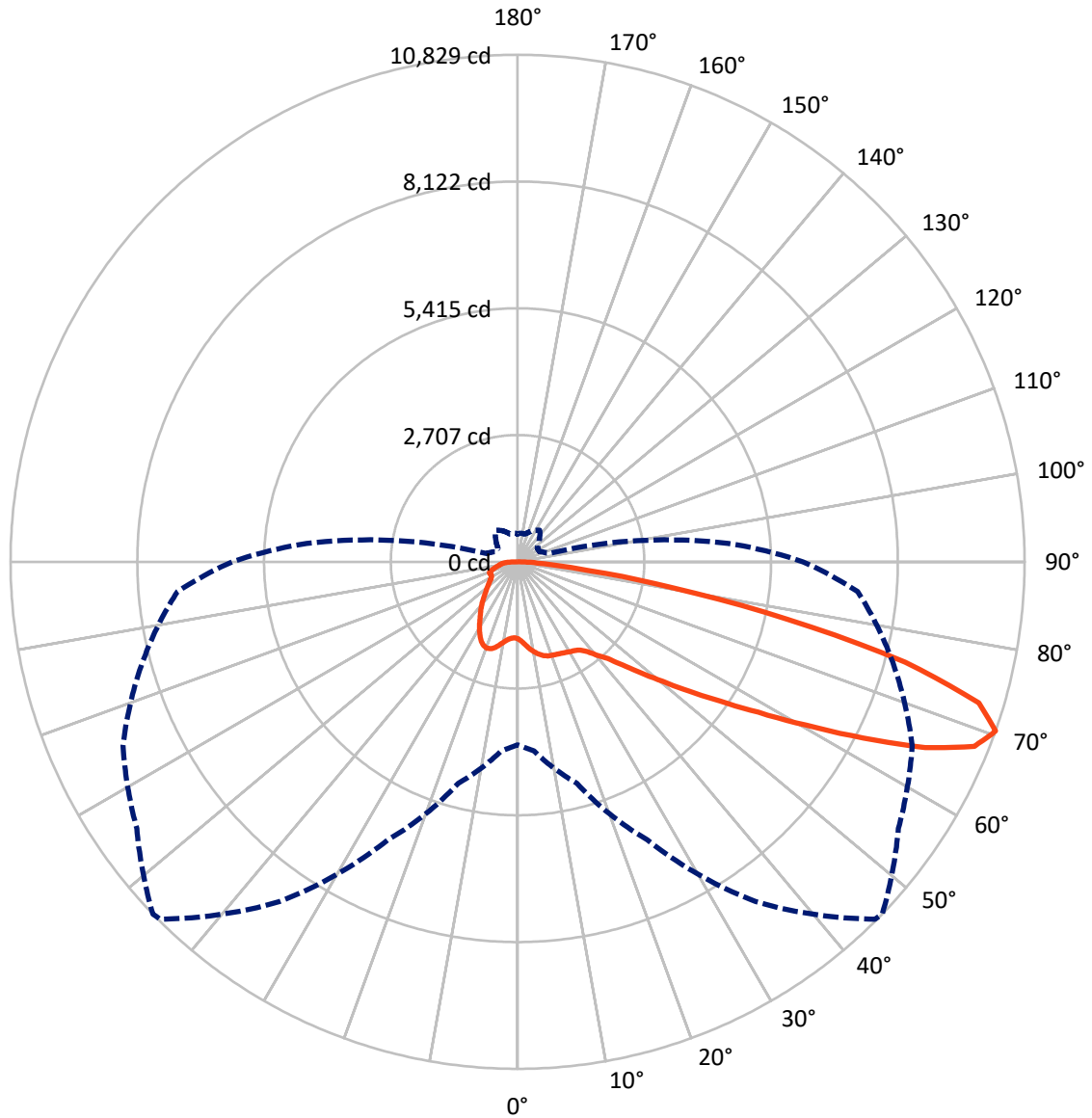
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3698.8 | 0.0 | 3698.8 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 12439.3 | 0.0 | 12439.3 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 16138.1 | 0.0 | 16138.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 167.6 | 1.0 |
| 10°-20° | 558.4 | 3.5 |
| 20°-30° | 931.1 | 5.8 |
| 30°-40° | 1321.3 | 8.2 |
| 40°-50° | 1943.6 | 12.0 |
| 50°-60° | 3291.4 | 20.4 |
| 60°-70° | 4672.1 | 29.0 |
| 70°-80° | 2838.3 | 17.6 |
| 80°-90° | 414.2 | 2.6 |
| 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° | 16138.1 | 100.0 |
| 0°-180° | 16138.1 | 100.0 |

Coefficient of Utilization

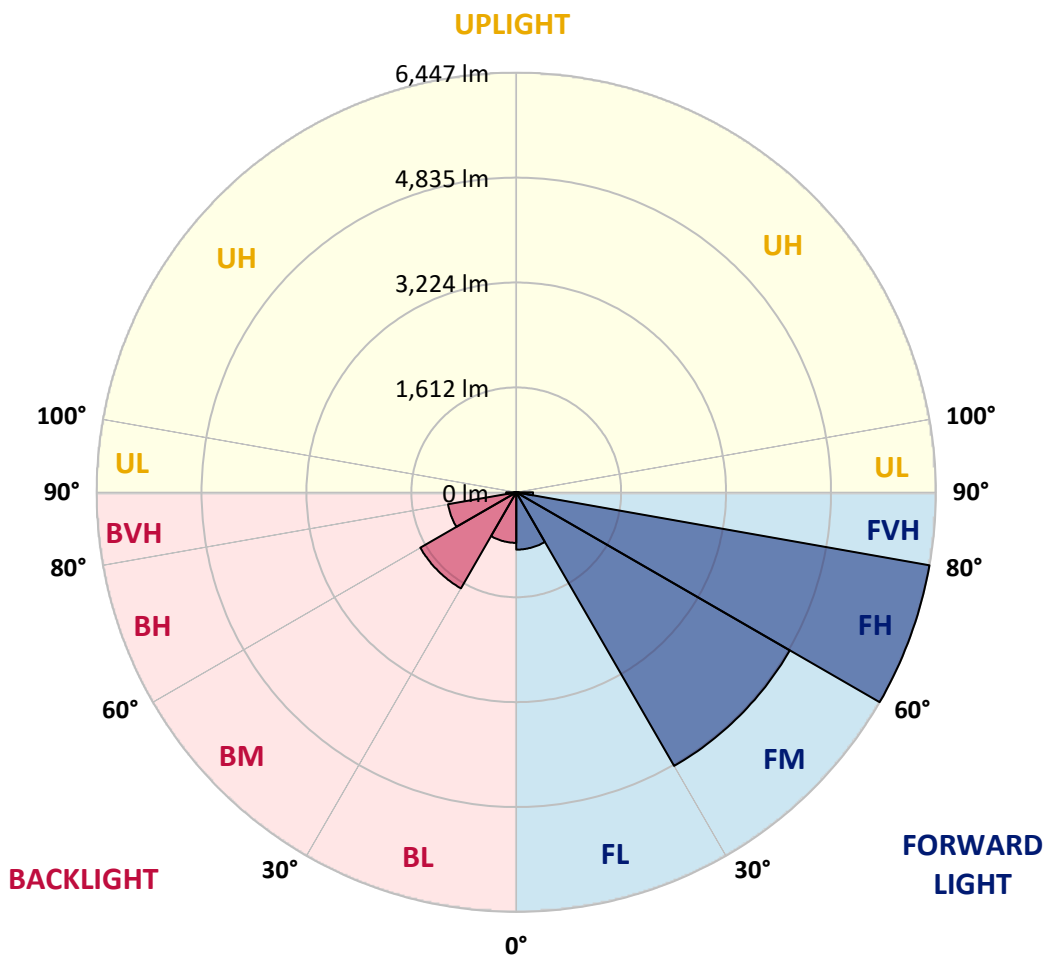


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 880.6 | 5.5 | | | |
| FM (30°-60°) | 4853.6 | 30.1 | | | |
| FH (60°-80°) | 6447.1 | 39.9 | | | G3/7500 |
| FVH (80°-90°) | 258.0 | 1.6 | | | G3/500 |
| BL (0°-30°) | 776.6 | 4.8 | B2/1000 | | |
| BM (30°-60°) | 1702.7 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1063.4 | 6.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 156.2 | 1.0 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|
| 0° | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 |
| 2.5° | 1726.4 | 1727.6 | 1729.8 | 1724.2 | 1708.7 | 1704.4 | 1702.7 | 1686.7 | 1676.2 | 1660.8 | 1647.4 |
| 5° | 1864.5 | 1865.6 | 1862.3 | 1846.9 | 1812.6 | 1787.2 | 1785.0 | 1748.5 | 1715.4 | 1680.0 | 1653.6 |
| 7.5° | 2008.7 | 2010.3 | 1999.8 | 1970.6 | 1922.5 | 1878.4 | 1875.6 | 1825.8 | 1775.6 | 1722.1 | 1682.3 |
| 10° | 2136.2 | 2129.6 | 2112.5 | 2071.7 | 2014.8 | 1960.6 | 1958.4 | 1906.5 | 1848.5 | 1783.9 | 1730.9 |
| 12.5° | 2221.3 | 2215.8 | 2193.7 | 2144.0 | 2081.5 | 2031.9 | 2027.4 | 1979.4 | 1923.1 | 1852.4 | 1788.9 |
| 15° | 2268.2 | 2272.1 | 2242.3 | 2186.0 | 2125.2 | 2083.2 | 2079.4 | 2045.1 | 1994.8 | 1923.6 | 1850.7 |
| 17.5° | 2274.3 | 2277.6 | 2248.9 | 2193.1 | 2143.4 | 2114.7 | 2113.0 | 2090.4 | 2054.0 | 1985.5 | 1909.3 |
| 20° | 2239.0 | 2241.2 | 2217.5 | 2171.6 | 2139.0 | 2130.2 | 2129.6 | 2119.6 | 2092.6 | 2031.9 | 1957.8 |
| 22.5° | 2187.6 | 2189.2 | 2172.2 | 2139.0 | 2127.9 | 2141.8 | 2145.6 | 2141.8 | 2122.4 | 2065.5 | 1995.9 |
| 25° | 2174.9 | 2173.8 | 2156.2 | 2122.4 | 2131.8 | 2161.1 | 2166.0 | 2167.7 | 2154.5 | 2104.7 | 2044.6 |
| 27.5° | 2236.2 | 2232.4 | 2198.6 | 2144.5 | 2150.6 | 2186.0 | 2192.6 | 2208.6 | 2200.3 | 2156.7 | 2099.8 |
| 30° | 2413.5 | 2406.8 | 2337.8 | 2228.4 | 2198.6 | 2216.9 | 2225.2 | 2250.5 | 2252.2 | 2215.8 | 2173.2 |
| 32.5° | 2712.9 | 2704.6 | 2580.9 | 2385.3 | 2279.9 | 2248.4 | 2256.1 | 2294.2 | 2314.6 | 2286.5 | 2240.7 |
| 35° | 3091.2 | 3081.7 | 2919.4 | 2652.1 | 2415.7 | 2308.6 | 2314.1 | 2344.4 | 2385.3 | 2345.5 | 2284.8 |
| 37.5° | 3485.5 | 3462.8 | 3306.5 | 2965.8 | 2631.6 | 2437.2 | 2437.2 | 2441.1 | 2460.4 | 2377.6 | 2336.7 |
| 40° | 3877.6 | 3854.9 | 3713.6 | 3334.8 | 2911.1 | 2639.9 | 2627.2 | 2541.6 | 2526.2 | 2454.9 | 2441.1 |
| 42.5° | 4242.1 | 4235.5 | 4152.1 | 3751.7 | 3239.2 | 2839.3 | 2821.7 | 2676.4 | 2679.7 | 2635.5 | 2636.1 |
| 45° | 4629.8 | 4629.8 | 4561.9 | 4172.5 | 3621.4 | 3159.6 | 3141.9 | 2928.2 | 2961.4 | 2940.9 | 2990.1 |
| 47.5° | 4946.3 | 4956.2 | 4946.8 | 4611.1 | 4065.9 | 3566.7 | 3534.7 | 3277.3 | 3370.1 | 3440.2 | 3583.2 |
| 50° | 5269.4 | 5284.9 | 5286.5 | 5092.1 | 4603.3 | 4050.5 | 4014.0 | 3740.6 | 3947.7 | 4148.7 | 4429.9 |
| 52.5° | 5738.2 | 5773.1 | 5634.5 | 5572.1 | 5261.7 | 4624.9 | 4589.0 | 4336.5 | 4682.3 | 4964.5 | 5448.9 |
| 55° | 6172.9 | 6142.5 | 6043.7 | 6082.4 | 5966.4 | 5278.8 | 5251.7 | 5030.3 | 5500.8 | 5867.5 | 6496.5 |
| 57.5° | 6408.2 | 6406.0 | 6505.4 | 6671.1 | 6726.3 | 6085.1 | 6062.4 | 5847.0 | 6423.7 | 6699.2 | 7480.1 |
| 60° | 6684.3 | 6688.2 | 6934.5 | 7310.6 | 7538.2 | 7089.2 | 7079.2 | 6915.7 | 7320.0 | 7475.8 | 8251.7 |
| 62.5° | 6723.0 | 6792.6 | 7216.7 | 7864.0 | 8298.1 | 8262.2 | 8284.3 | 7878.4 | 8122.0 | 8095.4 | 8827.7 |
| 65° | 6278.4 | 6370.1 | 7137.8 | 8031.3 | 9053.6 | 9545.2 | 9565.6 | 8846.5 | 8754.3 | 8625.1 | 9033.8 |
| 67.5° | 5367.1 | 5503.0 | 6336.9 | 7667.4 | 9302.7 | 10493.4 | 10522.2 | 9597.1 | 9279.0 | 8804.5 | 8537.8 |
| 70° | 3905.8 | 4056.5 | 4896.0 | 6548.5 | 8858.6 | 10796.6 | 10829.2 | 9929.0 | 9298.9 | 8293.7 | 7288.5 |
| 72.5° | 2359.3 | 2477.5 | 3169.6 | 4820.9 | 7476.9 | 10244.4 | 10302.4 | 9508.2 | 8489.8 | 7025.1 | 5382.0 |
| 75° | 1036.1 | 1113.4 | 1532.6 | 2778.0 | 5352.8 | 8476.0 | 8548.3 | 8138.5 | 6898.1 | 5105.3 | 3181.1 |
| 77.5° | 441.3 | 463.4 | 628.5 | 1206.7 | 3025.9 | 5791.8 | 5891.3 | 5946.4 | 4680.1 | 2778.0 | 1344.2 |
| 80° | 275.0 | 283.8 | 355.7 | 546.2 | 1416.0 | 3253.0 | 3360.1 | 3498.7 | 2324.0 | 1021.2 | 469.4 |
| 82.5° | 167.3 | 177.3 | 236.3 | 330.2 | 737.3 | 1474.6 | 1526.0 | 1623.7 | 901.9 | 441.3 | 243.0 |
| 85° | 100.5 | 107.7 | 144.7 | 208.8 | 419.8 | 579.9 | 579.3 | 640.6 | 424.7 | 283.8 | 128.1 |
| 87.5° | 48.1 | 53.6 | 77.3 | 108.2 | 211.6 | 217.6 | 203.8 | 230.8 | 257.9 | 186.1 | 64.6 |
| 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° | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 | 1644.2 |
| 2.5° | 1643.1 | 1640.8 | 1633.7 | 1628.2 | 1627.0 | 1623.7 | 1621.0 | 1622.7 | 1624.8 | 1625.4 | 1625.4 |
| 5° | 1642.5 | 1636.4 | 1627.0 | 1623.1 | 1628.2 | 1634.8 | 1643.1 | 1654.1 | 1660.8 | 1665.7 | 1669.1 |
| 7.5° | 1669.1 | 1657.4 | 1646.9 | 1644.7 | 1654.6 | 1672.3 | 1691.1 | 1714.3 | 1730.3 | 1741.3 | 1743.6 |
| 10° | 1713.2 | 1698.9 | 1688.3 | 1690.6 | 1708.2 | 1733.6 | 1760.2 | 1790.0 | 1814.3 | 1829.2 | 1830.3 |
| 12.5° | 1764.0 | 1750.2 | 1740.2 | 1749.6 | 1778.9 | 1809.8 | 1837.5 | 1863.4 | 1885.5 | 1900.5 | 1900.5 |
| 15° | 1822.6 | 1812.6 | 1801.1 | 1822.6 | 1862.3 | 1889.9 | 1901.6 | 1914.2 | 1926.3 | 1937.4 | 1935.2 |
| 17.5° | 1878.8 | 1869.5 | 1863.4 | 1888.8 | 1930.3 | 1942.9 | 1935.2 | 1925.8 | 1925.8 | 1931.9 | 1933.0 |
| 20° | 1927.5 | 1919.2 | 1923.1 | 1948.0 | 1969.5 | 1956.2 | 1927.5 | 1897.7 | 1885.5 | 1888.8 | 1892.2 |
| 22.5° | 1970.0 | 1966.1 | 1977.8 | 1989.3 | 1973.9 | 1927.5 | 1874.5 | 1834.1 | 1819.2 | 1818.1 | 1819.2 |
| 25° | 2019.7 | 2019.1 | 2033.6 | 2012.5 | 1944.0 | 1858.4 | 1787.2 | 1748.0 | 1739.7 | 1746.4 | 1757.4 |
| 27.5° | 2081.5 | 2087.7 | 2094.9 | 2018.1 | 1883.3 | 1754.1 | 1681.7 | 1654.6 | 1662.9 | 1678.9 | 1689.5 |
| 30° | 2160.5 | 2177.1 | 2161.7 | 2004.2 | 1796.0 | 1634.8 | 1565.7 | 1558.0 | 1580.6 | 1603.3 | 1614.4 |
| 32.5° | 2237.3 | 2263.3 | 2225.7 | 1968.4 | 1683.4 | 1508.3 | 1454.7 | 1452.6 | 1480.1 | 1502.2 | 1517.7 |
| 35° | 2299.2 | 2350.6 | 2273.7 | 1897.1 | 1553.1 | 1391.7 | 1352.5 | 1337.6 | 1347.6 | 1373.6 | 1391.2 |
| 37.5° | 2379.8 | 2465.4 | 2306.9 | 1788.3 | 1411.7 | 1295.7 | 1249.9 | 1215.6 | 1206.7 | 1217.3 | 1226.1 |
| 40° | 2527.3 | 2640.5 | 2322.3 | 1636.4 | 1273.6 | 1199.6 | 1153.2 | 1103.0 | 1068.1 | 1042.7 | 1043.2 |
| 42.5° | 2768.1 | 2868.6 | 2312.5 | 1452.0 | 1146.0 | 1105.7 | 1053.2 | 995.3 | 938.9 | 881.4 | 877.1 |
| 45° | 3159.1 | 3207.7 | 2282.6 | 1256.5 | 1033.9 | 1007.4 | 958.2 | 900.2 | 825.1 | 760.0 | 753.9 |
| 47.5° | 3784.8 | 3677.1 | 2236.2 | 1085.8 | 935.0 | 924.0 | 878.7 | 811.8 | 732.3 | 679.8 | 675.5 |
| 50° | 4638.1 | 4354.8 | 2213.5 | 949.9 | 847.8 | 851.1 | 814.1 | 743.4 | 668.3 | 629.6 | 625.2 |
| 52.5° | 5658.8 | 5144.0 | 2257.2 | 845.0 | 777.7 | 789.2 | 761.6 | 695.3 | 632.3 | 602.0 | 597.6 |
| 55° | 6717.5 | 5961.3 | 2304.2 | 768.8 | 711.3 | 734.0 | 724.6 | 670.0 | 613.1 | 584.9 | 581.0 |
| 57.5° | 7623.8 | 6571.7 | 2210.3 | 707.0 | 652.3 | 687.6 | 695.9 | 653.9 | 603.1 | 577.7 | 573.3 |
| 60° | 8194.3 | 6817.4 | 1963.9 | 648.9 | 605.3 | 650.6 | 679.3 | 649.5 | 607.0 | 604.8 | 601.4 |
| 62.5° | 8464.9 | 6795.9 | 1594.4 | 603.1 | 576.1 | 634.6 | 691.5 | 674.3 | 651.2 | 671.0 | 672.7 |
| 65° | 8343.4 | 6471.2 | 1187.4 | 572.7 | 555.0 | 640.6 | 727.9 | 721.3 | 663.8 | 683.8 | 686.5 |
| 67.5° | 7543.7 | 5696.3 | 879.3 | 546.2 | 531.8 | 657.8 | 794.1 | 736.8 | 639.0 | 653.4 | 644.5 |
| 70° | 6097.3 | 4516.0 | 678.2 | 516.4 | 508.1 | 655.5 | 824.0 | 727.4 | 611.9 | 615.3 | 591.5 |
| 72.5° | 4204.5 | 3079.5 | 551.8 | 488.8 | 473.9 | 597.6 | 803.0 | 704.2 | 589.3 | 563.9 | 532.4 |
| 75° | 2286.5 | 1653.0 | 468.8 | 460.1 | 413.7 | 524.6 | 764.3 | 687.6 | 568.9 | 535.2 | 517.5 |
| 77.5° | 899.7 | 685.9 | 407.0 | 420.9 | 361.7 | 463.4 | 721.3 | 656.1 | 540.7 | 496.5 | 487.7 |
| 80° | 367.3 | 350.2 | 337.4 | 364.0 | 311.0 | 405.4 | 669.4 | 619.1 | 507.0 | 460.7 | 443.0 |
| 82.5° | 208.2 | 217.6 | 262.3 | 287.2 | 252.4 | 373.4 | 644.5 | 589.3 | 466.7 | 412.6 | 391.5 |
| 85° | 106.6 | 127.6 | 182.8 | 206.0 | 185.6 | 317.6 | 593.7 | 515.8 | 374.5 | 315.9 | 317.6 |
| 87.5° | 51.3 | 71.3 | 115.4 | 129.2 | 120.4 | 229.7 | 443.5 | 373.9 | 291.6 | 230.8 | 223.7 |
| 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)