

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: P193172

Luminaire Tested: **GAN-AF-04-LED-U-T3-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193172
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-04-LED-U-T3-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15303.9 lumens
Efficiency: N/A
Efficacy: 118.6 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): 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

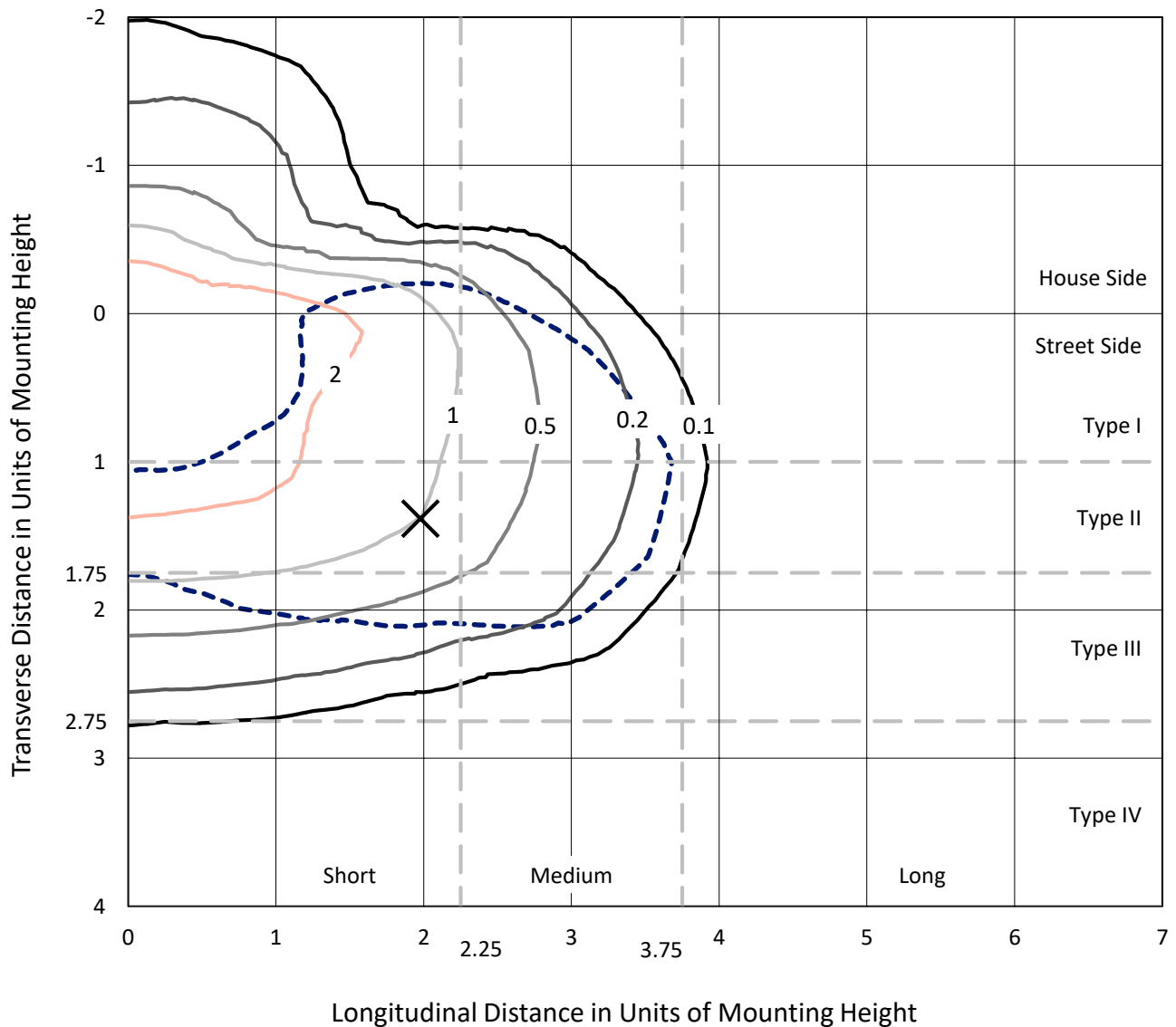


REPORT NUMBER: P193172

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

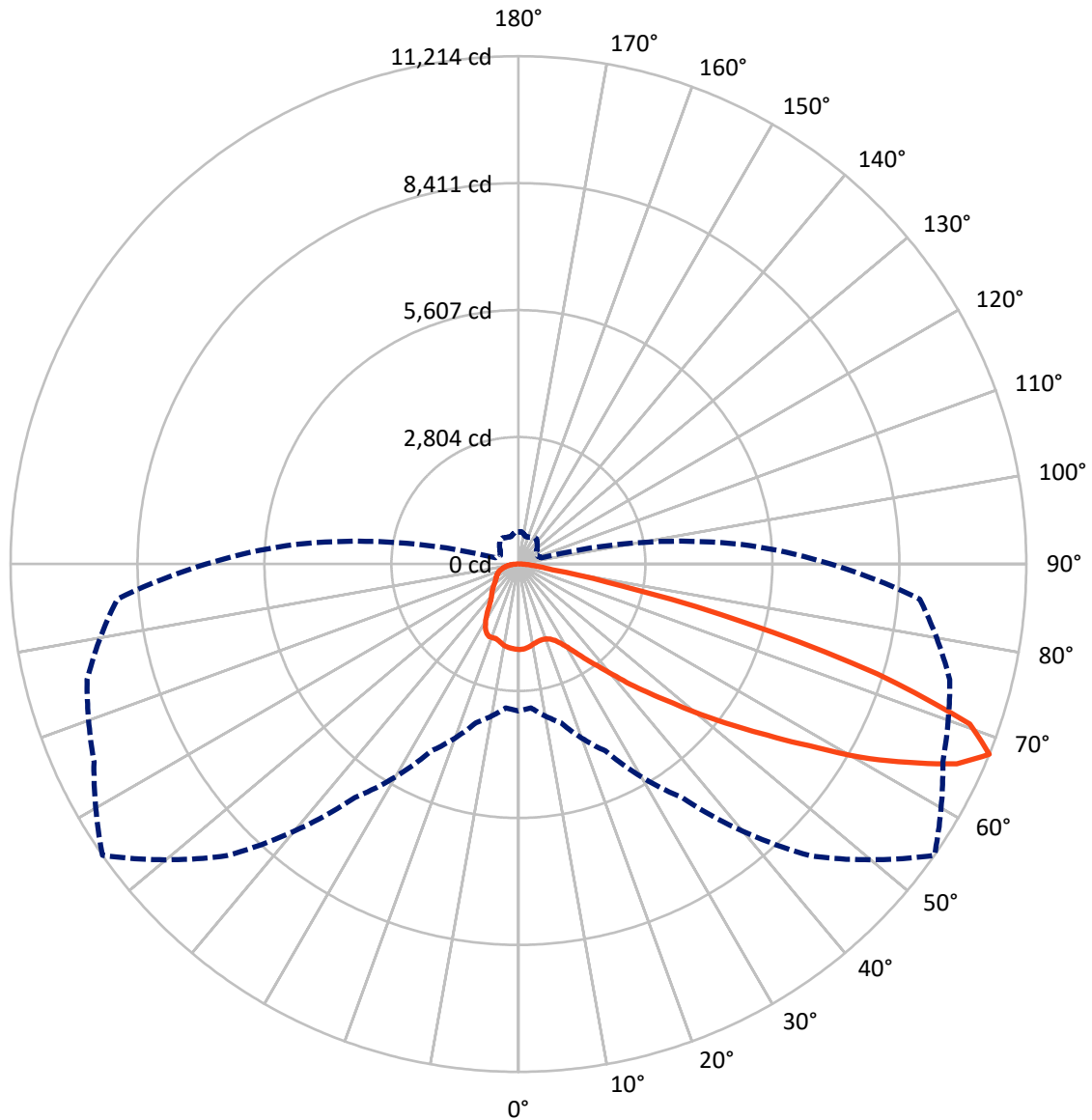


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193172

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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 | 3306.0 | 0.0 | 3306.0 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 11998.0 | 0.0 | 11998.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 15303.9 | 0.0 | 15303.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 176.1 | 1.2 |
| 10°-20° | 498.9 | 3.3 |
| 20°-30° | 835.7 | 5.5 |
| 30°-40° | 1374.2 | 9.0 |
| 40°-50° | 2313.2 | 15.1 |
| 50°-60° | 3640.8 | 23.8 |
| 60°-70° | 4344.9 | 28.4 |
| 70°-80° | 1865.8 | 12.2 |
| 80°-90° | 254.4 | 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° | 15303.9 | 100.0 |
| 0°-180° | 15303.9 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P193172

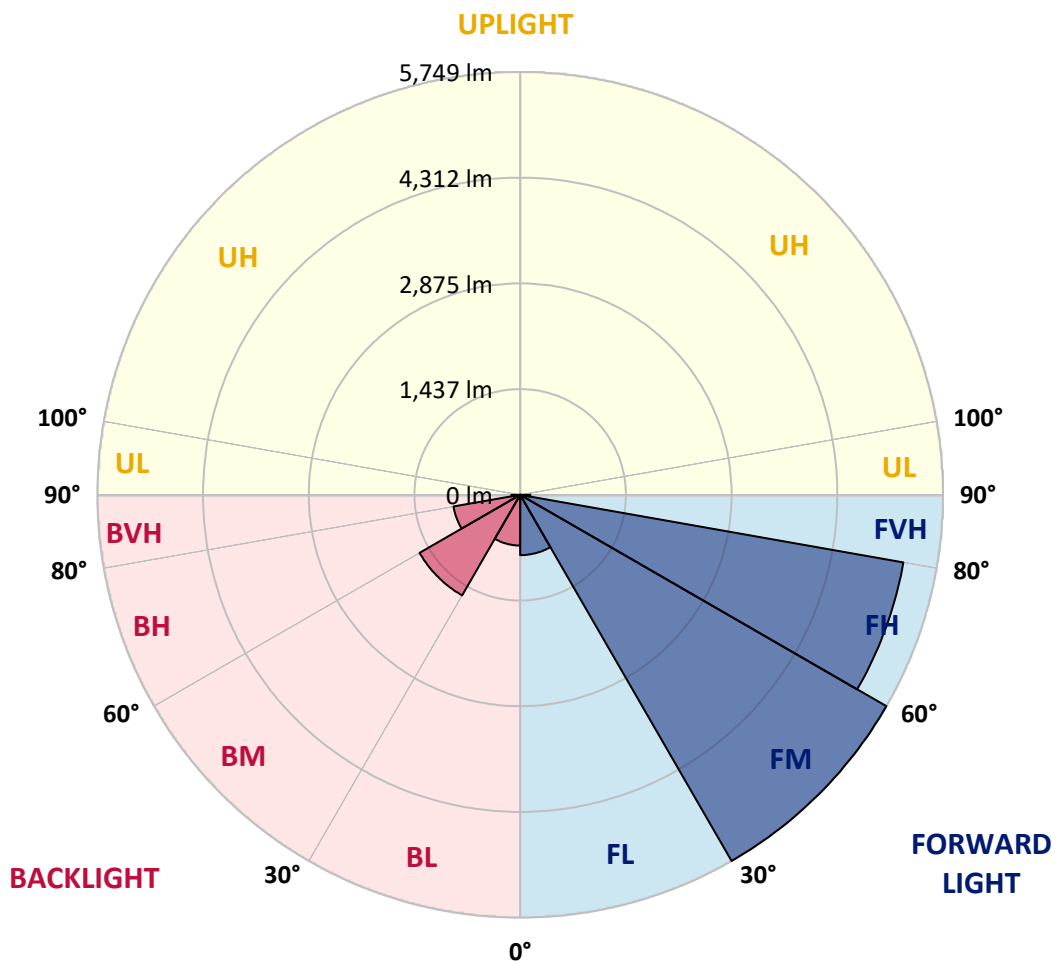
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 820.3 | 5.4 | | | |
| FM (30°-60°) | 5749.3 | 37.6 | | | |
| FH (60°-80°) | 5290.6 | 34.6 | | | G3/7500 |
| FVH (80°-90°) | 137.7 | 0.9 | | | G2/225 |
| BL (0°-30°) | 690.3 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 1578.9 | 10.3 | B2/2500 | | |
| BH (60°-80°) | 920.0 | 6.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 116.7 | 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





REPORT NUMBER: P193172

CATALOG NUMBER: GAN-AF-04-LED-U-T3-7030-600-ADJ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0° | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 |
| 2.5° | 1870.8 | 1871.6 | 1873.1 | 1879.0 | 1884.1 | 1882.7 | 1883.4 | 1880.5 | 1879.8 | 1875.3 | 1879.8 |
| 5° | 1847.2 | 1849.4 | 1850.2 | 1859.8 | 1865.7 | 1867.1 | 1864.9 | 1861.2 | 1856.9 | 1852.4 | 1854.5 |
| 7.5° | 1793.3 | 1799.2 | 1799.9 | 1813.2 | 1822.9 | 1835.4 | 1836.1 | 1836.8 | 1834.7 | 1831.7 | 1836.1 |
| 10° | 1759.3 | 1760.7 | 1760.0 | 1769.6 | 1777.0 | 1791.1 | 1799.2 | 1813.2 | 1819.1 | 1820.6 | 1823.5 |
| 12.5° | 1757.0 | 1755.6 | 1753.4 | 1753.4 | 1751.1 | 1757.0 | 1771.8 | 1791.8 | 1805.8 | 1810.3 | 1813.9 |
| 15° | 1780.7 | 1780.0 | 1772.6 | 1761.5 | 1747.4 | 1743.0 | 1755.6 | 1777.7 | 1796.2 | 1805.8 | 1809.6 |
| 17.5° | 1833.9 | 1829.4 | 1817.6 | 1792.5 | 1762.3 | 1750.5 | 1751.9 | 1770.3 | 1791.8 | 1804.3 | 1808.0 |
| 20° | 1931.4 | 1931.4 | 1906.3 | 1859.0 | 1805.1 | 1777.0 | 1763.7 | 1774.8 | 1795.4 | 1812.5 | 1817.6 |
| 22.5° | 2100.1 | 2101.5 | 2059.4 | 1981.8 | 1890.8 | 1830.9 | 1797.8 | 1795.4 | 1819.9 | 1839.1 | 1845.1 |
| 25° | 2338.8 | 2332.9 | 2273.6 | 2162.9 | 2024.7 | 1925.5 | 1867.9 | 1854.5 | 1875.3 | 1896.7 | 1904.2 |
| 27.5° | 2616.8 | 2595.2 | 2525.1 | 2391.2 | 2212.4 | 2067.5 | 1978.8 | 1957.4 | 1977.4 | 2001.7 | 2009.1 |
| 30° | 2891.6 | 2869.4 | 2786.0 | 2639.6 | 2440.8 | 2257.6 | 2130.3 | 2095.6 | 2123.7 | 2158.4 | 2162.9 |
| 32.5° | 3166.7 | 3166.7 | 3073.6 | 2902.8 | 2686.2 | 2484.4 | 2332.1 | 2290.7 | 2337.3 | 2379.4 | 2389.1 |
| 35° | 3495.6 | 3497.1 | 3406.9 | 3201.4 | 2968.6 | 2755.0 | 2587.2 | 2556.8 | 2627.0 | 2656.6 | 2679.6 |
| 37.5° | 3899.9 | 3908.1 | 3792.1 | 3543.8 | 3288.6 | 3063.9 | 2864.3 | 2822.9 | 2893.1 | 2973.7 | 3047.7 |
| 40° | 4336.8 | 4347.2 | 4219.3 | 3913.2 | 3658.2 | 3423.2 | 3207.3 | 3132.7 | 3249.5 | 3403.2 | 3498.6 |
| 42.5° | 4753.8 | 4807.0 | 4683.5 | 4368.6 | 4094.4 | 3851.2 | 3632.4 | 3523.7 | 3670.0 | 3902.2 | 3984.9 |
| 45° | 5356.1 | 5394.5 | 5179.4 | 4894.2 | 4636.2 | 4364.2 | 4074.4 | 3959.8 | 4164.5 | 4457.3 | 4474.2 |
| 47.5° | 5757.5 | 5728.7 | 5619.3 | 5441.8 | 5278.6 | 5024.3 | 4588.2 | 4462.4 | 4734.5 | 5078.9 | 4983.7 |
| 50° | 5971.1 | 5980.0 | 5965.2 | 5975.6 | 5981.5 | 5821.9 | 5217.9 | 5045.7 | 5370.2 | 5786.4 | 5566.9 |
| 52.5° | 6170.8 | 6111.6 | 6160.4 | 6402.8 | 6695.5 | 6636.4 | 5903.2 | 5723.5 | 6051.8 | 6571.4 | 6183.3 |
| 55° | 6166.3 | 6076.1 | 6235.0 | 6663.0 | 7298.0 | 7366.0 | 6672.7 | 6465.6 | 6772.4 | 7413.4 | 6836.8 |
| 57.5° | 5948.2 | 5952.7 | 6197.3 | 6757.6 | 7717.8 | 8052.0 | 7565.5 | 7255.2 | 7536.7 | 8266.3 | 7433.2 |
| 60° | 5648.1 | 5688.8 | 6041.4 | 6742.2 | 8054.1 | 8614.4 | 8661.1 | 8106.0 | 8285.5 | 9041.8 | 7927.1 |
| 62.5° | 5163.9 | 5206.9 | 5693.2 | 6581.0 | 8003.1 | 9156.3 | 9651.5 | 9071.2 | 9068.3 | 9511.9 | 8072.0 |
| 65° | 4400.4 | 4387.9 | 4898.6 | 5978.5 | 7575.2 | 9556.9 | 10635.4 | 9905.9 | 9658.2 | 9519.2 | 7780.7 |
| 67.5° | 3245.0 | 3188.8 | 3627.2 | 4553.4 | 6296.4 | 9108.3 | 11214.2 | 10340.6 | 9859.2 | 8893.1 | 6890.7 |
| 70° | 1683.9 | 1627.6 | 1982.5 | 2658.9 | 4140.9 | 7108.7 | 10573.3 | 10115.8 | 9415.0 | 7454.6 | 5398.3 |
| 72.5° | 720.0 | 710.4 | 854.5 | 1166.5 | 2003.2 | 4100.3 | 8290.7 | 8755.7 | 8078.5 | 5554.2 | 3711.4 |
| 75° | 484.1 | 481.2 | 535.2 | 635.7 | 901.1 | 1663.9 | 5188.4 | 6215.1 | 5910.5 | 3443.9 | 2087.5 |
| 77.5° | 379.9 | 376.3 | 408.1 | 456.8 | 584.0 | 656.4 | 2302.5 | 3336.7 | 3088.3 | 1499.0 | 913.6 |
| 80° | 297.1 | 294.2 | 314.1 | 340.8 | 419.9 | 414.0 | 757.7 | 1327.6 | 1027.5 | 574.3 | 444.2 |
| 82.5° | 234.4 | 234.4 | 250.5 | 251.3 | 297.8 | 282.3 | 395.5 | 584.6 | 513.0 | 334.9 | 272.0 |
| 85° | 214.3 | 214.3 | 231.4 | 187.7 | 194.4 | 178.1 | 245.4 | 346.7 | 325.3 | 137.4 | 118.2 |
| 87.5° | 107.9 | 105.0 | 194.4 | 166.3 | 105.7 | 94.6 | 119.7 | 167.8 | 180.4 | 76.2 | 59.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P193172

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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 | 1887.1 |
| 2.5° | 1878.2 | 1877.5 | 1879.0 | 1879.8 | 1885.7 | 1893.8 | 1897.5 | 1902.6 | 1905.6 | 1904.2 |
| 5° | 1856.1 | 1857.6 | 1863.5 | 1867.9 | 1878.2 | 1891.6 | 1898.9 | 1904.9 | 1910.1 | 1907.8 |
| 7.5° | 1837.6 | 1841.3 | 1850.2 | 1853.9 | 1859.8 | 1863.5 | 1862.8 | 1864.9 | 1869.4 | 1864.2 |
| 10° | 1827.3 | 1831.7 | 1838.4 | 1833.2 | 1819.1 | 1799.2 | 1780.7 | 1771.1 | 1774.1 | 1770.3 |
| 12.5° | 1816.9 | 1822.9 | 1817.6 | 1793.3 | 1754.0 | 1728.3 | 1714.2 | 1715.7 | 1722.3 | 1723.8 |
| 15° | 1811.0 | 1813.2 | 1791.1 | 1745.2 | 1705.3 | 1701.6 | 1709.1 | 1707.5 | 1708.3 | 1708.3 |
| 17.5° | 1811.0 | 1805.1 | 1763.7 | 1717.9 | 1700.8 | 1694.2 | 1671.3 | 1642.5 | 1629.9 | 1625.4 |
| 20° | 1820.6 | 1805.1 | 1754.8 | 1724.5 | 1687.5 | 1630.7 | 1570.0 | 1516.8 | 1493.1 | 1486.5 |
| 22.5° | 1849.4 | 1822.9 | 1780.0 | 1727.5 | 1622.5 | 1527.1 | 1431.1 | 1367.5 | 1324.7 | 1317.2 |
| 25° | 1907.8 | 1878.2 | 1829.4 | 1688.3 | 1519.0 | 1383.0 | 1273.6 | 1202.6 | 1159.8 | 1153.9 |
| 27.5° | 2009.9 | 1990.6 | 1856.1 | 1601.8 | 1381.6 | 1235.9 | 1134.6 | 1079.9 | 1048.2 | 1045.9 |
| 30° | 2163.6 | 2153.9 | 1842.7 | 1473.9 | 1212.2 | 1093.2 | 1044.5 | 1012.8 | 989.1 | 988.2 |
| 32.5° | 2409.0 | 2331.4 | 1799.2 | 1318.0 | 1057.7 | 992.0 | 972.1 | 952.8 | 934.3 | 934.3 |
| 35° | 2724.6 | 2474.8 | 1716.4 | 1150.9 | 963.8 | 935.8 | 910.6 | 880.4 | 855.9 | 854.5 |
| 37.5° | 3095.8 | 2563.5 | 1567.8 | 1016.3 | 919.5 | 898.1 | 861.2 | 816.0 | 773.2 | 765.8 |
| 40° | 3470.5 | 2590.1 | 1358.6 | 933.6 | 891.4 | 860.4 | 815.3 | 762.1 | 720.7 | 718.5 |
| 42.5° | 3814.2 | 2539.0 | 1136.9 | 876.7 | 863.3 | 821.9 | 774.6 | 727.3 | 694.9 | 694.2 |
| 45° | 4102.4 | 2406.8 | 950.5 | 822.7 | 833.7 | 787.2 | 745.1 | 706.7 | 681.6 | 676.4 |
| 47.5° | 4373.7 | 2219.8 | 819.8 | 765.8 | 804.2 | 768.0 | 732.6 | 696.3 | 672.0 | 668.2 |
| 50° | 4688.7 | 2018.0 | 728.1 | 710.4 | 778.4 | 761.3 | 742.9 | 705.2 | 664.6 | 660.2 |
| 52.5° | 5070.0 | 1843.5 | 656.4 | 661.6 | 758.4 | 770.3 | 769.5 | 730.3 | 659.4 | 653.5 |
| 55° | 5495.8 | 1649.9 | 602.4 | 621.6 | 750.3 | 786.4 | 776.2 | 754.0 | 663.8 | 654.9 |
| 57.5° | 5915.0 | 1423.6 | 564.8 | 591.3 | 738.5 | 785.0 | 744.4 | 712.6 | 674.1 | 661.6 |
| 60° | 6229.1 | 1119.9 | 535.9 | 564.8 | 712.6 | 760.7 | 709.6 | 667.5 | 672.0 | 662.3 |
| 62.5° | 6249.8 | 865.6 | 501.2 | 541.8 | 673.4 | 736.2 | 686.7 | 647.6 | 681.6 | 672.7 |
| 65° | 5882.4 | 654.1 | 467.9 | 514.5 | 631.3 | 720.7 | 664.6 | 636.4 | 701.5 | 691.8 |
| 67.5° | 4952.5 | 526.3 | 439.8 | 486.4 | 589.1 | 688.3 | 644.5 | 626.0 | 719.3 | 702.2 |
| 70° | 3575.4 | 448.7 | 412.5 | 452.4 | 551.4 | 651.1 | 626.8 | 607.6 | 671.2 | 644.5 |
| 72.5° | 2201.2 | 388.9 | 381.5 | 407.3 | 522.6 | 612.8 | 600.3 | 572.8 | 604.6 | 583.2 |
| 75° | 1099.1 | 337.1 | 346.7 | 363.0 | 482.0 | 569.1 | 555.9 | 528.5 | 532.9 | 528.5 |
| 77.5° | 526.3 | 288.3 | 306.0 | 318.6 | 429.5 | 519.6 | 505.7 | 477.5 | 472.3 | 473.1 |
| 80° | 333.3 | 241.0 | 258.0 | 266.8 | 383.6 | 461.9 | 448.0 | 419.9 | 479.0 | 444.2 |
| 82.5° | 208.4 | 195.9 | 200.3 | 216.6 | 334.2 | 402.1 | 383.6 | 358.5 | 431.7 | 341.6 |
| 85° | 115.3 | 136.8 | 142.7 | 156.7 | 257.2 | 336.3 | 317.8 | 286.0 | 256.5 | 252.1 |
| 87.5° | 68.8 | 81.3 | 83.5 | 93.9 | 172.9 | 243.2 | 215.1 | 204.0 | 169.3 | 168.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)