

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: P193710

Luminaire Tested: **GAN-AF-02-LED-U-SL3-8030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-8030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9939 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G3

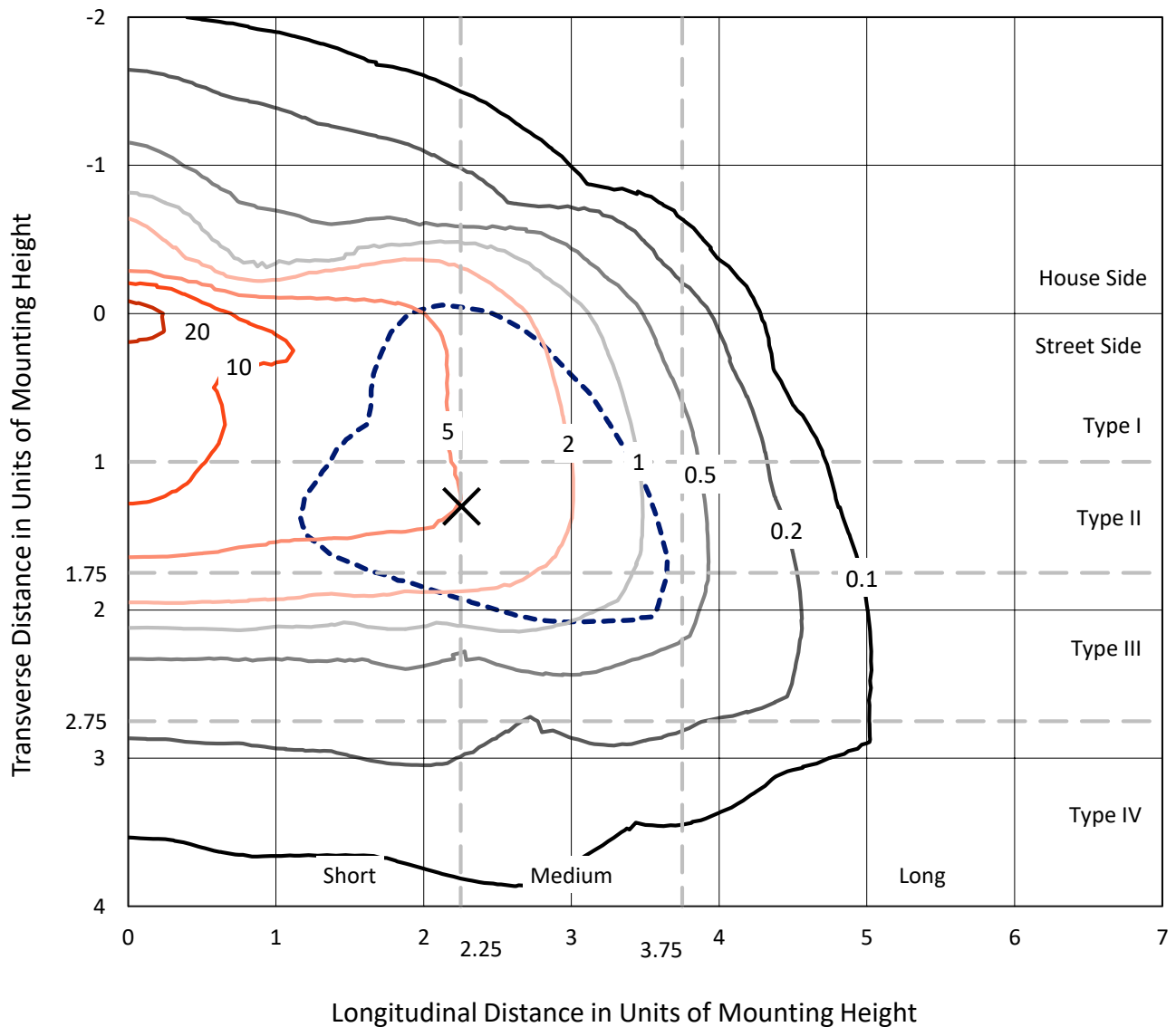
Input Watts (W): 113
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

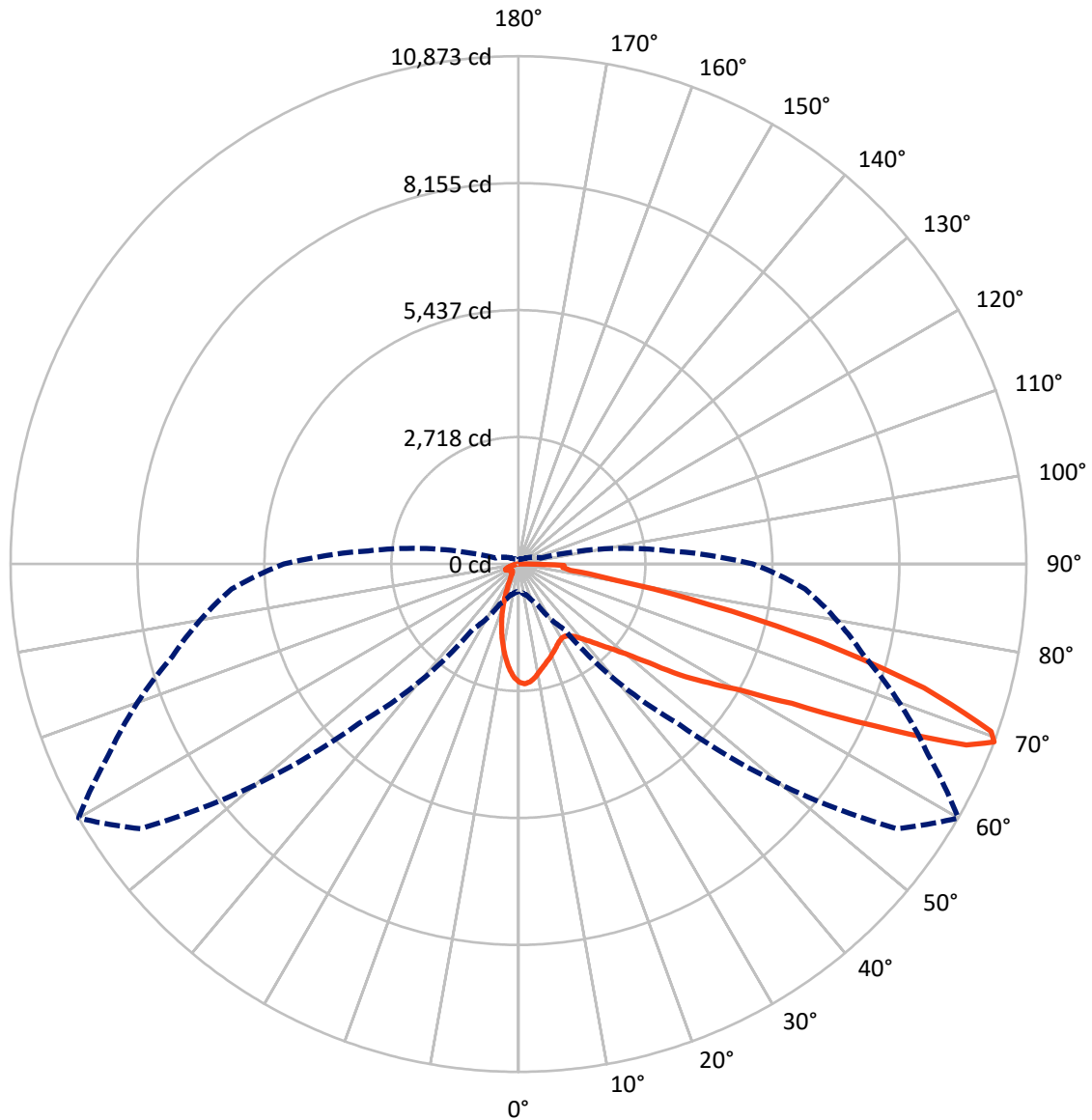
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1414.0 | 0.0 | 1414.0 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 8525.0 | 0.0 | 8525.0 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 9939.0 | 0.0 | 9939.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 214.1 | 2.2 |
| 10°-20° | 456.2 | 4.6 |
| 20°-30° | 581.3 | 5.8 |
| 30°-40° | 799.2 | 8.0 |
| 40°-50° | 1296.8 | 13.0 |
| 50°-60° | 2079.7 | 20.9 |
| 60°-70° | 2767.9 | 27.8 |
| 70°-80° | 1494.4 | 15.0 |
| 80°-90° | 249.4 | 2.5 |
| 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° | 9939.0 | 100.0 |
| 0°-180° | 9939.0 | 100.0 |

Coefficient of Utilization



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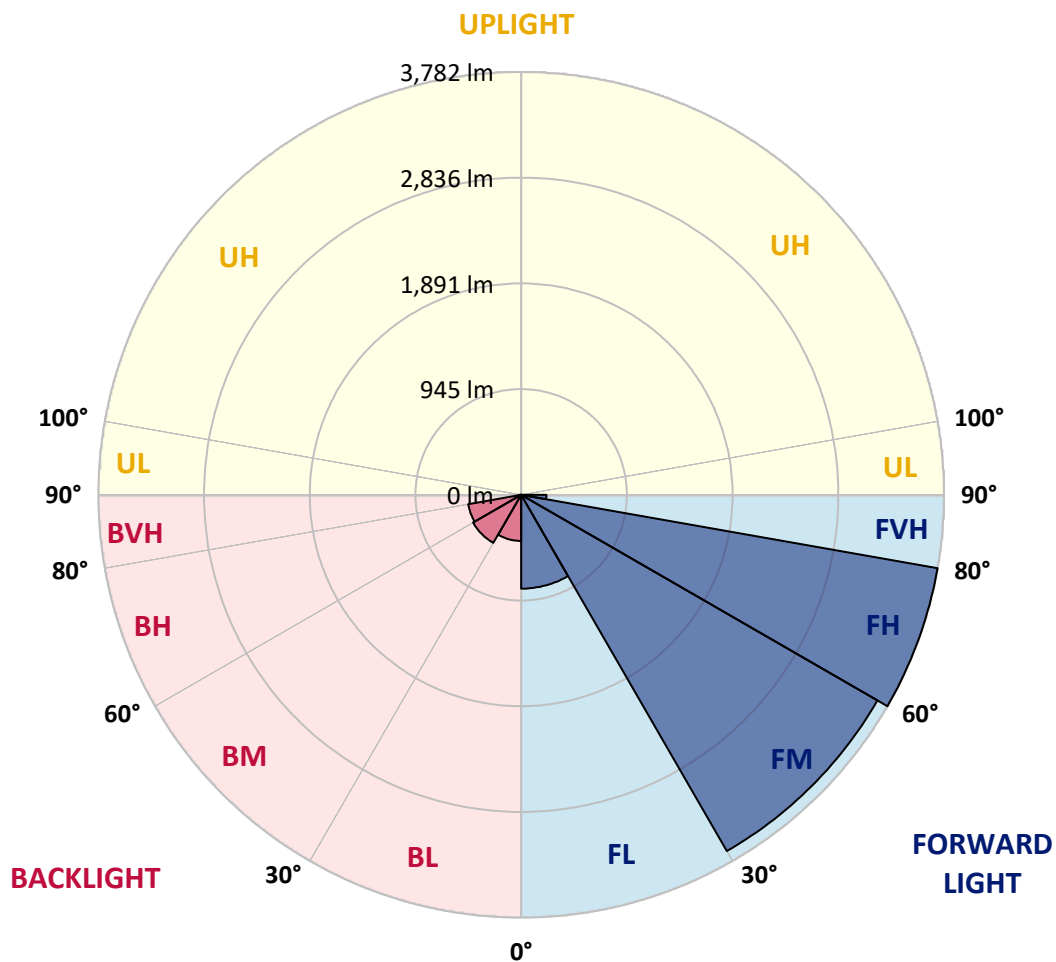
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 839.2 | 8.4 | | | |
| FM (30°-60°) | 3678.8 | 37.0 | | | |
| FH (60°-80°) | 3781.6 | 38.0 | | | G2/5000 |
| FVH (80°-90°) | 225.3 | 2.3 | | | G3/500 |
| BL (0°-30°) | 412.5 | 4.2 | B1/500 | | |
| BM (30°-60°) | 496.8 | 5.0 | B1/1000 | | |
| BH (60°-80°) | 480.7 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 24.0 | 0.2 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|--------|--------|--------|
| 0° | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 |
| 2.5° | 2584.5 | 2590.2 | 2587.8 | 2586.4 | 2590.7 | 2584.0 | 2570.1 | 2565.7 | 2559.0 | 2543.2 | 2516.3 |
| 5° | 2487.5 | 2504.8 | 2503.8 | 2516.8 | 2538.4 | 2544.1 | 2537.9 | 2538.8 | 2526.4 | 2506.7 | 2462.0 |
| 7.5° | 2319.9 | 2327.1 | 2331.0 | 2359.3 | 2398.7 | 2430.3 | 2457.2 | 2465.9 | 2460.1 | 2443.3 | 2385.7 |
| 10° | 2147.1 | 2152.8 | 2162.0 | 2195.1 | 2245.0 | 2288.7 | 2339.6 | 2368.9 | 2381.4 | 2378.5 | 2314.2 |
| 12.5° | 1998.7 | 2004.5 | 2016.5 | 2053.9 | 2113.5 | 2167.2 | 2241.2 | 2277.7 | 2307.4 | 2325.2 | 2256.1 |
| 15° | 1865.7 | 1878.2 | 1889.7 | 1932.9 | 1999.7 | 2070.3 | 2153.8 | 2199.9 | 2246.0 | 2285.8 | 2204.7 |
| 17.5° | 1762.0 | 1774.5 | 1781.2 | 1820.6 | 1891.7 | 1978.1 | 2076.0 | 2130.3 | 2187.9 | 2253.2 | 2153.8 |
| 20° | 1702.0 | 1707.8 | 1704.9 | 1727.0 | 1790.8 | 1882.5 | 1998.7 | 2061.6 | 2131.2 | 2222.5 | 2102.9 |
| 22.5° | 1685.2 | 1685.7 | 1675.1 | 1672.7 | 1714.0 | 1791.3 | 1916.1 | 1992.5 | 2077.9 | 2202.3 | 2059.2 |
| 25° | 1726.0 | 1724.6 | 1695.8 | 1672.2 | 1676.6 | 1721.7 | 1836.4 | 1925.3 | 2033.3 | 2198.0 | 2025.6 |
| 27.5° | 1816.8 | 1821.1 | 1778.3 | 1734.2 | 1690.5 | 1689.0 | 1775.9 | 1869.6 | 1996.8 | 2217.7 | 2011.2 |
| 30° | 1944.0 | 1951.2 | 1905.6 | 1849.4 | 1767.3 | 1699.6 | 1752.4 | 1836.4 | 1974.2 | 2258.5 | 2008.8 |
| 32.5° | 2083.2 | 2090.9 | 2056.3 | 1997.3 | 1889.7 | 1764.9 | 1768.7 | 1839.3 | 1973.3 | 2315.6 | 2025.1 |
| 35° | 2231.6 | 2240.2 | 2222.5 | 2172.5 | 2053.0 | 1885.4 | 1831.2 | 1885.9 | 2004.5 | 2403.0 | 2068.8 |
| 37.5° | 2397.2 | 2410.7 | 2415.5 | 2367.9 | 2240.2 | 2044.3 | 1933.4 | 1974.2 | 2075.1 | 2524.4 | 2149.0 |
| 40° | 2635.8 | 2654.6 | 2653.1 | 2584.9 | 2454.8 | 2258.9 | 2091.4 | 2101.9 | 2185.0 | 2686.7 | 2277.2 |
| 42.5° | 3092.9 | 3096.7 | 2977.2 | 2828.8 | 2691.0 | 2484.6 | 2277.7 | 2269.0 | 2336.7 | 2892.2 | 2465.9 |
| 45° | 3674.3 | 3658.5 | 3392.5 | 3105.9 | 2937.8 | 2743.9 | 2520.1 | 2477.9 | 2529.2 | 3142.8 | 2702.1 |
| 47.5° | 4156.8 | 4120.3 | 3784.3 | 3388.7 | 3199.0 | 3025.7 | 2804.8 | 2730.9 | 2759.2 | 3427.1 | 3007.4 |
| 50° | 4324.4 | 4297.0 | 4018.6 | 3623.9 | 3446.3 | 3369.4 | 3155.3 | 3050.7 | 3058.3 | 3766.0 | 3365.1 |
| 52.5° | 4288.4 | 4284.5 | 4098.7 | 3779.0 | 3677.7 | 3730.5 | 3651.8 | 3510.1 | 3435.2 | 4142.4 | 3751.1 |
| 55° | 4203.4 | 4211.6 | 4144.4 | 3959.5 | 3942.2 | 4079.1 | 4300.4 | 4195.7 | 3962.9 | 4522.2 | 4150.1 |
| 57.5° | 3908.1 | 3929.3 | 4077.1 | 4186.6 | 4368.1 | 4571.7 | 4822.8 | 4793.0 | 4530.8 | 4932.7 | 4624.5 |
| 60° | 3148.6 | 3197.6 | 3594.1 | 4142.4 | 4806.4 | 5443.1 | 5555.4 | 5486.3 | 5116.6 | 5442.1 | 5251.0 |
| 62.5° | 2206.1 | 2257.0 | 2728.5 | 3586.5 | 4734.4 | 6427.3 | 6865.2 | 6567.0 | 5957.8 | 6192.5 | 6061.9 |
| 65° | 1181.1 | 1205.6 | 1565.7 | 2488.4 | 3997.0 | 6630.4 | 8779.4 | 8325.7 | 7289.6 | 7117.7 | 6755.7 |
| 67.5° | 651.5 | 665.0 | 802.8 | 1256.5 | 2560.0 | 5838.7 | 9998.9 | 10341.7 | 8954.2 | 7733.7 | 6629.4 |
| 69° | 589.1 | 601.6 | 691.8 | 951.6 | 1713.1 | 4827.6 | 9879.8 | 10873.2 | 9683.9 | 7672.7 | 6162.8 |
| 70° | 576.1 | 587.7 | 668.8 | 877.2 | 1386.6 | 3979.2 | 9480.8 | 10737.3 | 9857.7 | 7454.3 | 5755.6 |
| 72.5° | 518.5 | 531.0 | 609.7 | 787.9 | 1184.9 | 1983.8 | 7510.0 | 9078.5 | 8949.8 | 6463.3 | 4365.7 |
| 75° | 483.5 | 495.0 | 628.5 | 771.5 | 1134.5 | 1255.5 | 4950.9 | 6690.9 | 6579.0 | 4521.2 | 2354.0 |
| 77.5° | 206.9 | 206.0 | 291.4 | 653.0 | 1151.3 | 1215.7 | 2660.3 | 4179.9 | 3813.6 | 1932.5 | 676.0 |
| 80° | 138.3 | 135.9 | 138.3 | 192.0 | 1055.8 | 1222.4 | 1393.8 | 2121.6 | 1602.6 | 492.6 | 333.2 |
| 82.5° | 119.1 | 117.1 | 121.5 | 117.1 | 371.1 | 1395.2 | 1184.9 | 1128.3 | 761.9 | 279.9 | 165.2 |
| 85° | 80.2 | 76.8 | 104.7 | 105.1 | 175.2 | 1239.7 | 1334.7 | 953.0 | 616.5 | 166.1 | 81.6 |
| 87.5° | 38.4 | 37.4 | 61.0 | 74.4 | 102.7 | 503.6 | 1497.5 | 976.6 | 621.7 | 85.0 | 38.9 |
| 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° | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 | 2532.6 |
| 2.5° | 2508.1 | 2488.4 | 2469.2 | 2446.2 | 2422.2 | 2395.3 | 2381.9 | 2368.4 | 2365.0 | 2361.2 | 2347.8 |
| 5° | 2439.0 | 2411.1 | 2363.1 | 2310.3 | 2254.6 | 2200.4 | 2159.1 | 2133.2 | 2113.5 | 2103.4 | 2085.6 |
| 7.5° | 2349.7 | 2308.9 | 2224.9 | 2133.6 | 2040.0 | 1954.5 | 1880.6 | 1834.0 | 1789.9 | 1769.2 | 1745.7 |
| 10° | 2264.7 | 2203.7 | 2073.1 | 1938.7 | 1804.3 | 1675.1 | 1553.7 | 1467.7 | 1391.4 | 1348.6 | 1318.4 |
| 12.5° | 2191.7 | 2108.2 | 1927.2 | 1745.2 | 1560.9 | 1377.0 | 1195.0 | 1051.9 | 932.4 | 869.5 | 837.3 |
| 15° | 2120.7 | 2019.8 | 1788.4 | 1557.5 | 1320.8 | 1070.7 | 831.6 | 669.3 | 570.4 | 531.0 | 517.6 |
| 17.5° | 2056.3 | 1927.2 | 1649.2 | 1368.3 | 1073.1 | 770.6 | 558.9 | 469.6 | 431.6 | 418.7 | 414.3 |
| 20° | 1986.7 | 1833.6 | 1504.7 | 1170.5 | 814.8 | 538.7 | 436.4 | 397.1 | 381.7 | 377.9 | 375.9 |
| 22.5° | 1919.5 | 1741.4 | 1366.4 | 958.8 | 585.3 | 415.8 | 375.0 | 358.6 | 356.2 | 359.6 | 359.6 |
| 25° | 1862.4 | 1658.8 | 1217.1 | 737.5 | 429.7 | 350.0 | 335.6 | 331.8 | 340.9 | 353.4 | 355.8 |
| 27.5° | 1819.6 | 1591.1 | 1058.2 | 544.5 | 342.3 | 304.4 | 303.9 | 310.2 | 332.7 | 356.7 | 361.5 |
| 30° | 1790.3 | 1526.8 | 888.2 | 392.7 | 287.1 | 267.9 | 275.6 | 289.0 | 322.2 | 356.2 | 365.4 |
| 32.5° | 1775.5 | 1479.2 | 711.1 | 303.9 | 245.8 | 235.3 | 248.2 | 264.5 | 297.2 | 328.9 | 340.9 |
| 35° | 1787.0 | 1444.2 | 544.0 | 253.5 | 217.0 | 208.9 | 222.3 | 238.1 | 257.3 | 270.8 | 279.9 |
| 37.5° | 1830.2 | 1430.3 | 410.5 | 227.1 | 197.3 | 189.6 | 200.2 | 209.3 | 217.0 | 220.9 | 225.2 |
| 40° | 1923.3 | 1445.1 | 328.9 | 213.7 | 186.3 | 176.7 | 181.0 | 184.4 | 189.2 | 193.0 | 194.9 |
| 42.5° | 2060.7 | 1489.8 | 294.8 | 208.4 | 180.5 | 166.6 | 165.6 | 167.1 | 173.3 | 180.5 | 182.0 |
| 45° | 2252.7 | 1568.5 | 292.4 | 211.7 | 177.6 | 158.4 | 154.1 | 156.0 | 165.6 | 176.7 | 178.6 |
| 47.5° | 2498.0 | 1688.6 | 311.6 | 221.8 | 180.0 | 154.1 | 146.9 | 149.3 | 161.3 | 176.2 | 178.6 |
| 50° | 2795.2 | 1856.1 | 343.8 | 236.7 | 190.6 | 155.1 | 144.5 | 146.0 | 158.4 | 174.8 | 177.2 |
| 52.5° | 3146.2 | 2093.8 | 378.8 | 251.1 | 201.6 | 161.3 | 146.4 | 143.1 | 154.6 | 169.0 | 171.9 |
| 55° | 3536.5 | 2398.7 | 414.8 | 264.1 | 207.4 | 169.0 | 150.3 | 139.2 | 147.4 | 159.4 | 161.8 |
| 57.5° | 4015.7 | 2825.0 | 477.2 | 276.5 | 211.3 | 174.3 | 154.1 | 135.4 | 138.3 | 146.9 | 148.8 |
| 60° | 4664.3 | 3428.0 | 587.2 | 297.2 | 219.9 | 176.2 | 153.6 | 132.0 | 129.2 | 134.0 | 134.9 |
| 62.5° | 5441.6 | 4082.9 | 678.9 | 323.1 | 234.3 | 177.6 | 150.8 | 129.6 | 121.5 | 121.5 | 122.4 |
| 65° | 5903.0 | 4258.1 | 628.0 | 344.7 | 246.3 | 176.2 | 147.4 | 127.2 | 115.7 | 110.4 | 110.9 |
| 67.5° | 5511.7 | 3744.9 | 538.2 | 349.0 | 245.8 | 169.5 | 142.1 | 122.9 | 109.9 | 101.8 | 101.3 |
| 69° | 5021.5 | 3231.2 | 497.9 | 337.5 | 234.3 | 160.8 | 135.4 | 118.1 | 105.6 | 97.0 | 96.5 |
| 70° | 4626.4 | 2917.7 | 471.5 | 325.0 | 221.8 | 154.6 | 130.1 | 113.8 | 102.3 | 94.1 | 93.1 |
| 72.5° | 3363.7 | 1911.8 | 402.8 | 279.4 | 182.9 | 129.6 | 112.3 | 99.9 | 91.2 | 86.4 | 85.5 |
| 75° | 1680.9 | 911.7 | 327.0 | 226.6 | 140.2 | 103.7 | 92.2 | 83.5 | 79.2 | 78.3 | 77.8 |
| 77.5° | 552.1 | 417.7 | 233.8 | 169.0 | 104.2 | 81.1 | 74.4 | 68.2 | 67.2 | 70.1 | 69.1 |
| 80° | 303.4 | 242.9 | 148.4 | 111.9 | 71.1 | 59.5 | 58.6 | 55.2 | 56.7 | 61.5 | 60.5 |
| 82.5° | 154.6 | 126.3 | 91.7 | 67.2 | 48.0 | 42.7 | 46.6 | 44.7 | 46.6 | 50.9 | 50.4 |
| 85° | 76.3 | 69.1 | 58.1 | 40.8 | 31.7 | 27.4 | 33.1 | 34.6 | 35.5 | 38.9 | 38.9 |
| 87.5° | 44.2 | 40.8 | 30.7 | 19.2 | 15.8 | 14.4 | 19.2 | 18.7 | 22.1 | 24.0 | 23.5 |
| 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)