

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: P194460

Luminaire Tested: **GAN-AF-02-LED-U-SL3-7060-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7060-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8407 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

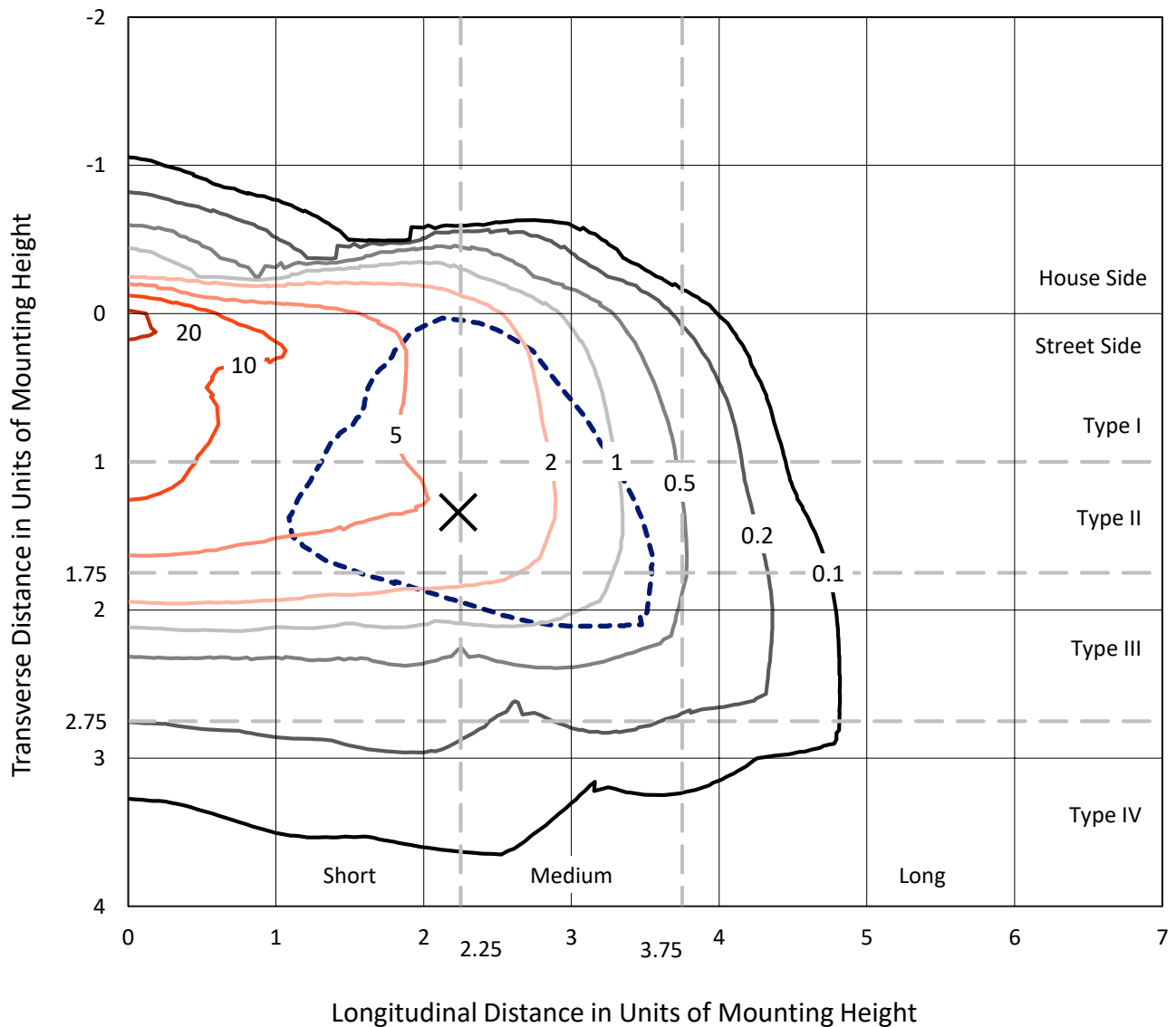


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

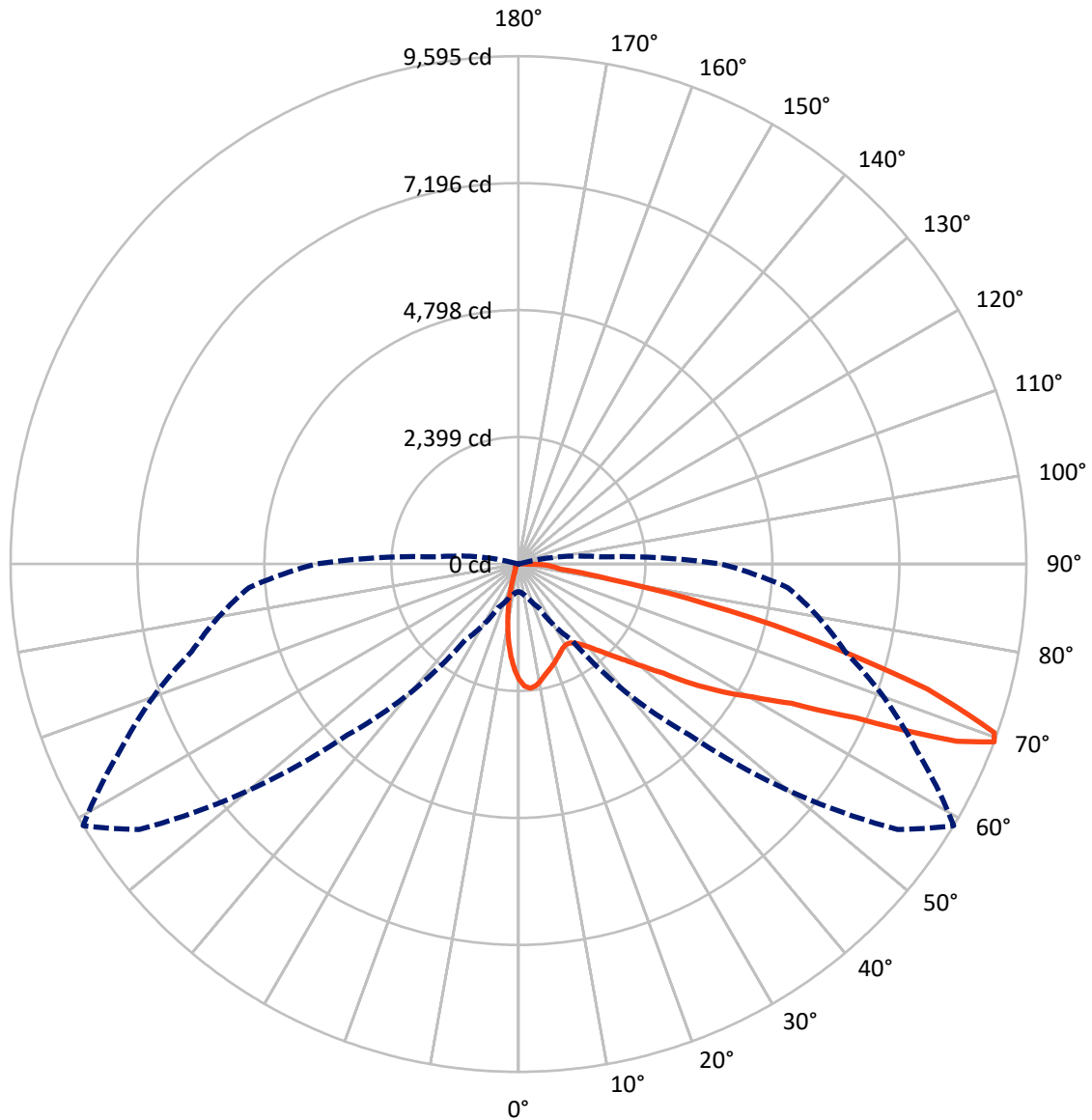


Based on 10 foot mounting height. Maximum calculated value = 22 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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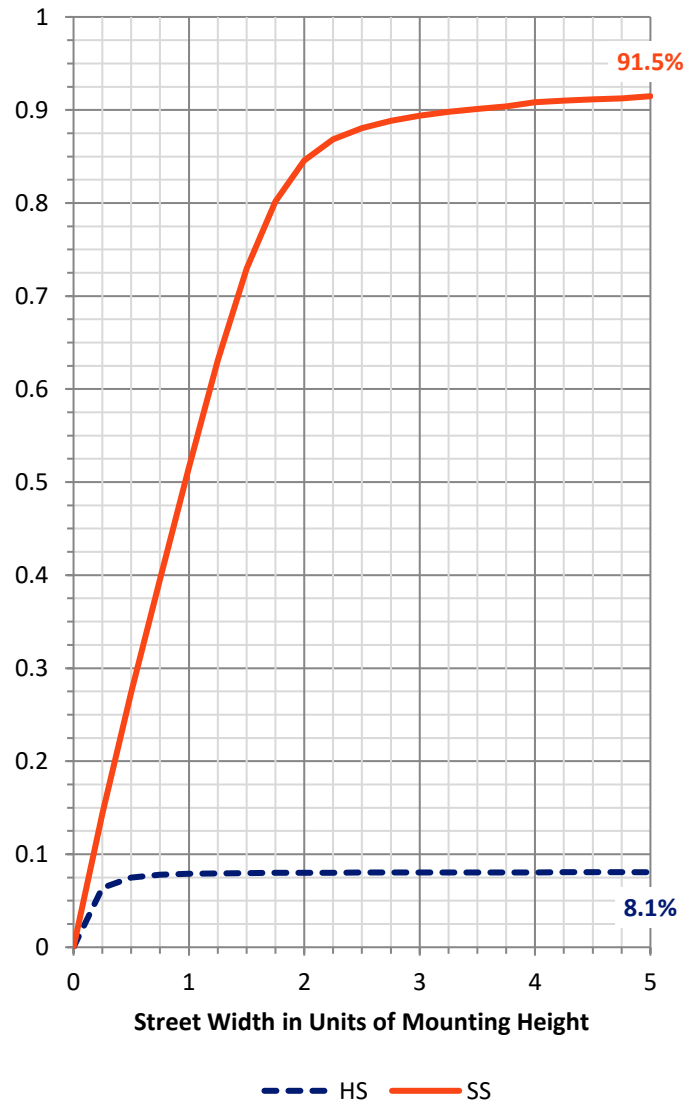
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 684.6 | 0.0 | 684.6 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 7722.4 | 0.0 | 7722.4 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 8407.0 | 0.0 | 8407.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 177.6 | 2.1 |
| 10°-20° | 367.0 | 4.4 |
| 20°-30° | 493.9 | 5.9 |
| 30°-40° | 717.0 | 8.5 |
| 40°-50° | 1193.9 | 14.2 |
| 50°-60° | 1862.5 | 22.2 |
| 60°-70° | 2304.7 | 27.4 |
| 70°-80° | 1168.0 | 13.9 |
| 80°-90° | 122.2 | 1.5 |
| 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° | 8407.0 | 100.0 |
| 0°-180° | 8407.0 | 100.0 |



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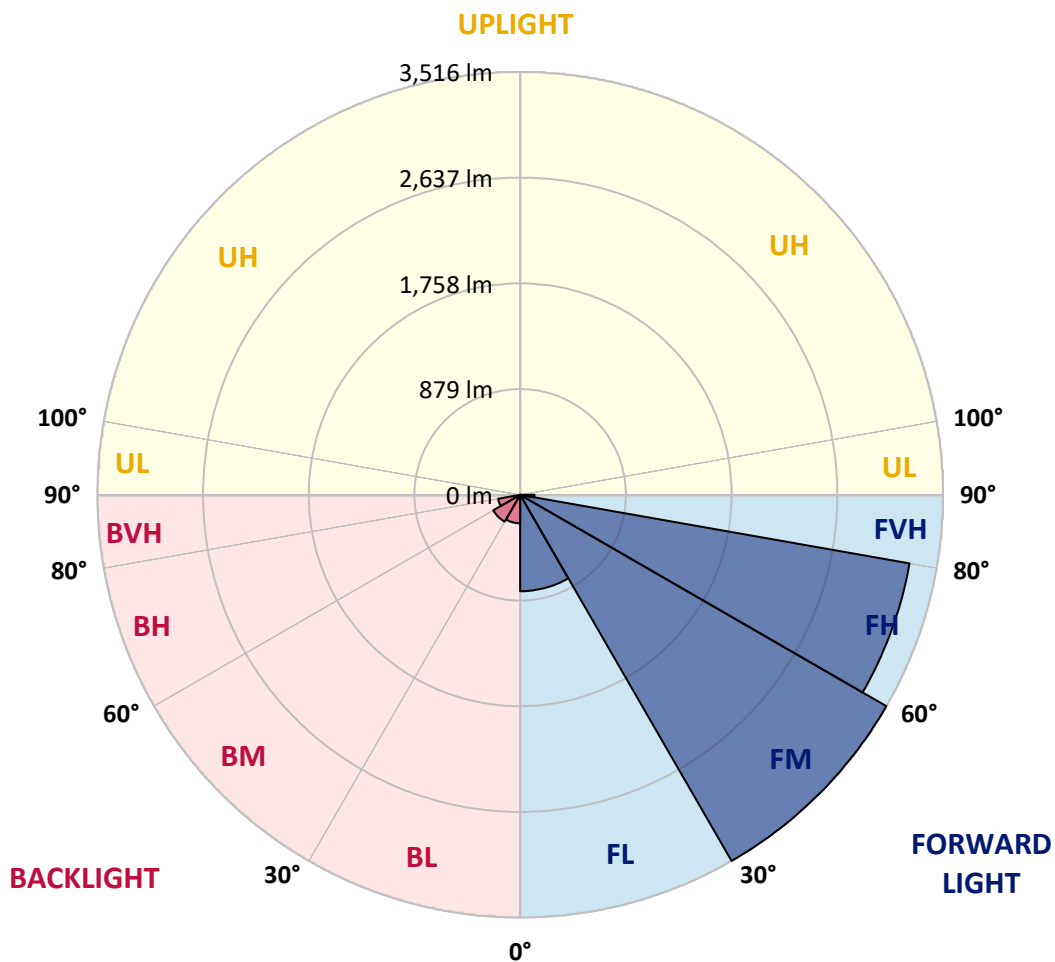
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 801.5 | 9.5 | | | |
| FM (30°-60°) | 3515.6 | 41.8 | | | |
| FH (60°-80°) | 3286.8 | 39.1 | | | G2/5000 |
| FVH (80°-90°) | 118.5 | 1.4 | | | G2/225 |
| BL (0°-30°) | 237.0 | 2.8 | B1/500 | | |
| BM (30°-60°) | 258.0 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 185.9 | 2.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 |
| 2.5° | 2398.3 | 2397.4 | 2386.9 | 2382.2 | 2373.6 | 2355.6 | 2327.5 | 2312.8 | 2289.0 | 2247.6 | 2192.0 |
| 5° | 2376.5 | 2387.9 | 2394.1 | 2394.5 | 2400.7 | 2394.1 | 2368.9 | 2356.5 | 2323.7 | 2257.2 | 2157.3 |
| 7.5° | 2228.2 | 2232.4 | 2250.0 | 2265.2 | 2294.7 | 2322.8 | 2331.8 | 2326.6 | 2307.1 | 2235.8 | 2103.1 |
| 10° | 2069.4 | 2073.7 | 2094.6 | 2114.5 | 2154.5 | 2197.7 | 2243.4 | 2252.9 | 2261.0 | 2205.3 | 2050.8 |
| 12.5° | 1932.5 | 1936.7 | 1958.1 | 1984.3 | 2030.9 | 2084.1 | 2154.9 | 2170.6 | 2206.3 | 2176.3 | 2009.0 |
| 15° | 1814.6 | 1816.5 | 1837.4 | 1869.7 | 1925.3 | 1993.8 | 2074.1 | 2099.3 | 2154.0 | 2155.9 | 1972.4 |
| 17.5° | 1714.3 | 1719.0 | 1731.9 | 1762.8 | 1823.6 | 1908.2 | 2001.9 | 2038.0 | 2102.2 | 2138.8 | 1936.7 |
| 20° | 1652.9 | 1657.7 | 1657.2 | 1674.3 | 1729.0 | 1819.3 | 1929.6 | 1972.9 | 2050.8 | 2121.2 | 1904.9 |
| 22.5° | 1641.1 | 1641.1 | 1628.7 | 1626.3 | 1658.6 | 1734.2 | 1854.5 | 1907.3 | 2004.7 | 2113.6 | 1882.5 |
| 25° | 1683.4 | 1681.5 | 1650.6 | 1625.4 | 1626.8 | 1672.0 | 1781.8 | 1844.5 | 1965.7 | 2118.8 | 1870.7 |
| 27.5° | 1772.7 | 1770.4 | 1731.4 | 1683.4 | 1644.9 | 1644.4 | 1726.6 | 1794.1 | 1934.8 | 2143.5 | 1875.4 |
| 30° | 1896.3 | 1895.4 | 1853.1 | 1792.7 | 1722.8 | 1658.6 | 1707.6 | 1768.9 | 1914.9 | 2188.2 | 1886.4 |
| 32.5° | 2031.3 | 2029.9 | 1998.1 | 1934.4 | 1845.9 | 1722.8 | 1727.6 | 1778.9 | 1920.6 | 2247.6 | 1913.0 |
| 35° | 2174.4 | 2172.1 | 2158.3 | 2102.7 | 2005.2 | 1841.2 | 1793.2 | 1833.1 | 1956.7 | 2336.5 | 1965.3 |
| 37.5° | 2329.4 | 2331.8 | 2341.8 | 2288.5 | 2186.3 | 2007.1 | 1903.0 | 1930.1 | 2029.4 | 2457.3 | 2050.4 |
| 40° | 2558.1 | 2557.6 | 2560.9 | 2491.1 | 2392.6 | 2210.1 | 2056.5 | 2065.1 | 2151.1 | 2617.5 | 2179.7 |
| 42.5° | 2973.1 | 2944.1 | 2856.2 | 2713.5 | 2614.7 | 2442.1 | 2250.0 | 2241.0 | 2299.9 | 2815.7 | 2360.8 |
| 45° | 3530.7 | 3468.9 | 3240.7 | 2967.4 | 2840.9 | 2703.5 | 2488.2 | 2459.2 | 2496.8 | 3053.9 | 2584.2 |
| 47.5° | 4010.4 | 3946.2 | 3623.4 | 3231.7 | 3081.0 | 2951.7 | 2767.3 | 2715.0 | 2727.3 | 3320.6 | 2867.6 |
| 50° | 4173.5 | 4142.1 | 3860.2 | 3461.8 | 3313.5 | 3264.0 | 3091.0 | 3027.3 | 3009.7 | 3629.1 | 3196.1 |
| 52.5° | 4116.9 | 4114.5 | 3926.7 | 3611.1 | 3526.5 | 3587.3 | 3498.4 | 3424.7 | 3360.1 | 3954.3 | 3530.3 |
| 55° | 4026.1 | 4038.0 | 3953.8 | 3741.8 | 3739.0 | 3882.5 | 4055.6 | 3994.2 | 3806.9 | 4307.5 | 3818.3 |
| 57.5° | 3775.6 | 3826.4 | 3938.6 | 3989.0 | 4106.0 | 4252.9 | 4519.5 | 4555.7 | 4334.1 | 4578.0 | 4057.5 |
| 60° | 3063.4 | 3175.1 | 3542.1 | 4024.7 | 4579.0 | 4945.0 | 5079.6 | 5110.5 | 4766.7 | 4802.9 | 4380.3 |
| 62.5° | 2174.4 | 2288.5 | 2753.9 | 3570.2 | 4586.1 | 5854.4 | 5913.9 | 5792.6 | 5243.1 | 5136.1 | 4936.9 |
| 65° | 1154.2 | 1242.2 | 1622.5 | 2577.1 | 3976.2 | 6065.5 | 7372.8 | 7011.5 | 6083.6 | 5791.7 | 5656.2 |
| 67.5° | 590.4 | 617.1 | 768.2 | 1261.2 | 2733.5 | 5387.6 | 8680.6 | 8935.0 | 7532.1 | 6442.0 | 5621.5 |
| 69° | 522.5 | 538.1 | 638.5 | 911.8 | 1750.4 | 4563.3 | 8744.3 | 9595.3 | 8290.3 | 6387.8 | 5108.6 |
| 70° | 505.8 | 519.6 | 610.9 | 825.3 | 1368.2 | 3826.9 | 8500.5 | 9537.3 | 8484.3 | 6181.5 | 4725.4 |
| 72.5° | 429.3 | 441.2 | 543.8 | 729.3 | 1111.9 | 1899.7 | 6905.1 | 8081.7 | 7613.4 | 5149.4 | 3420.4 |
| 75° | 287.1 | 326.1 | 522.0 | 683.6 | 1034.5 | 1079.1 | 4552.3 | 5840.2 | 5425.2 | 3473.2 | 1781.8 |
| 77.5° | 68.9 | 74.2 | 147.4 | 543.8 | 946.0 | 949.8 | 2341.3 | 3630.6 | 2961.2 | 1237.9 | 421.2 |
| 80° | 37.1 | 35.7 | 41.4 | 107.9 | 880.9 | 891.4 | 1053.9 | 1762.3 | 1057.3 | 205.4 | 138.8 |
| 82.5° | 26.1 | 24.7 | 26.6 | 45.2 | 277.2 | 812.0 | 762.5 | 797.7 | 438.3 | 78.9 | 62.3 |
| 85° | 9.5 | 9.0 | 14.7 | 40.9 | 87.0 | 466.8 | 783.4 | 657.9 | 355.1 | 36.1 | 45.6 |
| 87.5° | 3.3 | 2.9 | 5.7 | 22.3 | 26.6 | 198.7 | 483.5 | 497.3 | 139.8 | 21.9 | 21.4 |
| 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° | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 | 2188.2 |
| 2.5° | 2168.7 | 2139.3 | 2085.1 | 2029.4 | 1978.1 | 1916.3 | 1885.4 | 1855.0 | 1842.1 | 1837.4 | 1815.0 |
| 5° | 2106.0 | 2056.1 | 1941.0 | 1825.5 | 1719.0 | 1605.9 | 1531.2 | 1471.3 | 1436.2 | 1419.0 | 1391.9 |
| 7.5° | 2025.6 | 1943.9 | 1769.4 | 1591.1 | 1425.2 | 1261.7 | 1140.5 | 1047.3 | 983.1 | 952.2 | 924.2 |
| 10° | 1947.7 | 1838.8 | 1590.7 | 1347.7 | 1122.4 | 905.6 | 738.3 | 617.1 | 539.6 | 503.9 | 481.1 |
| 12.5° | 1877.8 | 1736.6 | 1418.1 | 1110.5 | 827.7 | 573.8 | 403.6 | 307.1 | 259.1 | 242.4 | 234.4 |
| 15° | 1815.5 | 1642.5 | 1255.0 | 885.2 | 560.5 | 328.0 | 220.6 | 187.8 | 180.2 | 180.2 | 179.2 |
| 17.5° | 1756.6 | 1550.3 | 1097.7 | 673.6 | 351.8 | 200.6 | 167.8 | 163.5 | 163.5 | 165.4 | 165.4 |
| 20° | 1700.0 | 1462.3 | 945.6 | 483.5 | 221.5 | 159.3 | 151.6 | 150.7 | 151.6 | 154.0 | 154.0 |
| 22.5° | 1651.5 | 1382.4 | 803.4 | 331.8 | 164.5 | 143.6 | 139.8 | 138.3 | 138.8 | 140.2 | 141.2 |
| 25° | 1615.4 | 1314.9 | 669.4 | 224.9 | 141.7 | 130.7 | 126.5 | 124.1 | 122.2 | 122.2 | 123.1 |
| 27.5° | 1592.6 | 1257.9 | 539.6 | 163.5 | 127.4 | 118.8 | 112.2 | 108.4 | 104.1 | 101.7 | 102.7 |
| 30° | 1575.9 | 1203.7 | 417.9 | 133.6 | 114.1 | 105.5 | 97.0 | 90.8 | 84.6 | 81.8 | 82.7 |
| 32.5° | 1569.7 | 1160.0 | 312.3 | 117.9 | 102.2 | 92.7 | 82.2 | 74.2 | 67.5 | 65.1 | 65.6 |
| 35° | 1586.4 | 1125.3 | 228.7 | 106.5 | 92.7 | 80.8 | 68.9 | 59.9 | 54.7 | 53.2 | 53.7 |
| 37.5° | 1630.1 | 1106.7 | 171.1 | 97.0 | 84.1 | 70.8 | 57.5 | 49.0 | 45.6 | 45.6 | 46.1 |
| 40° | 1712.8 | 1106.2 | 137.4 | 90.3 | 76.5 | 61.3 | 47.5 | 41.4 | 39.5 | 40.4 | 40.9 |
| 42.5° | 1833.6 | 1131.4 | 119.8 | 84.1 | 69.9 | 52.3 | 39.5 | 35.2 | 34.7 | 35.7 | 36.1 |
| 45° | 1998.5 | 1177.5 | 110.3 | 78.9 | 62.8 | 43.7 | 33.3 | 30.4 | 30.4 | 31.9 | 32.3 |
| 47.5° | 2200.6 | 1245.0 | 102.2 | 73.7 | 55.6 | 36.6 | 28.5 | 26.6 | 27.1 | 28.5 | 29.0 |
| 50° | 2444.0 | 1330.1 | 94.1 | 68.0 | 50.4 | 30.4 | 24.7 | 23.3 | 23.8 | 25.7 | 26.1 |
| 52.5° | 2721.1 | 1444.7 | 87.5 | 62.8 | 43.7 | 25.2 | 20.9 | 20.0 | 20.9 | 22.8 | 23.3 |
| 55° | 2958.8 | 1547.4 | 79.4 | 58.5 | 35.2 | 20.9 | 17.1 | 17.1 | 18.1 | 20.4 | 20.9 |
| 57.5° | 3187.5 | 1654.8 | 72.3 | 50.4 | 27.6 | 16.6 | 14.3 | 14.7 | 16.2 | 18.5 | 19.0 |
| 60° | 3523.1 | 1836.9 | 63.7 | 42.3 | 20.9 | 13.3 | 11.9 | 12.4 | 14.3 | 16.6 | 17.1 |
| 62.5° | 4093.1 | 2114.1 | 55.1 | 35.2 | 16.2 | 10.5 | 9.5 | 10.5 | 12.8 | 15.7 | 16.2 |
| 65° | 4607.5 | 2226.7 | 45.2 | 29.5 | 12.4 | 8.1 | 8.1 | 9.5 | 12.4 | 15.2 | 15.7 |
| 67.5° | 4320.8 | 1874.5 | 35.2 | 23.3 | 9.5 | 6.2 | 6.7 | 9.0 | 11.9 | 15.2 | 15.7 |
| 69° | 3821.2 | 1532.7 | 29.9 | 18.5 | 8.1 | 5.7 | 6.2 | 9.0 | 11.9 | 14.7 | 15.2 |
| 70° | 3431.8 | 1294.0 | 26.6 | 15.7 | 7.1 | 5.7 | 6.2 | 8.6 | 11.9 | 14.7 | 15.2 |
| 72.5° | 2298.5 | 698.8 | 21.4 | 11.4 | 6.7 | 5.2 | 5.2 | 8.6 | 11.4 | 14.3 | 14.7 |
| 75° | 987.9 | 193.0 | 17.1 | 8.1 | 5.7 | 4.8 | 4.8 | 8.1 | 10.9 | 13.8 | 14.7 |
| 77.5° | 180.6 | 49.0 | 13.8 | 7.1 | 5.7 | 4.8 | 4.3 | 7.6 | 10.5 | 13.3 | 13.8 |
| 80° | 71.8 | 24.2 | 10.9 | 6.2 | 5.2 | 4.3 | 3.8 | 7.1 | 10.0 | 12.8 | 13.3 |
| 82.5° | 43.3 | 13.8 | 9.0 | 5.7 | 5.2 | 3.8 | 3.3 | 6.2 | 9.5 | 12.4 | 12.8 |
| 85° | 35.2 | 9.5 | 7.1 | 5.7 | 4.8 | 3.8 | 2.9 | 5.7 | 8.6 | 11.9 | 12.4 |
| 87.5° | 17.1 | 6.7 | 6.7 | 5.2 | 4.8 | 3.8 | 2.9 | 5.2 | 8.1 | 11.4 | 11.9 |
| 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)