

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: P527881

Luminaire Tested: **GLAN-SA2D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7519 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

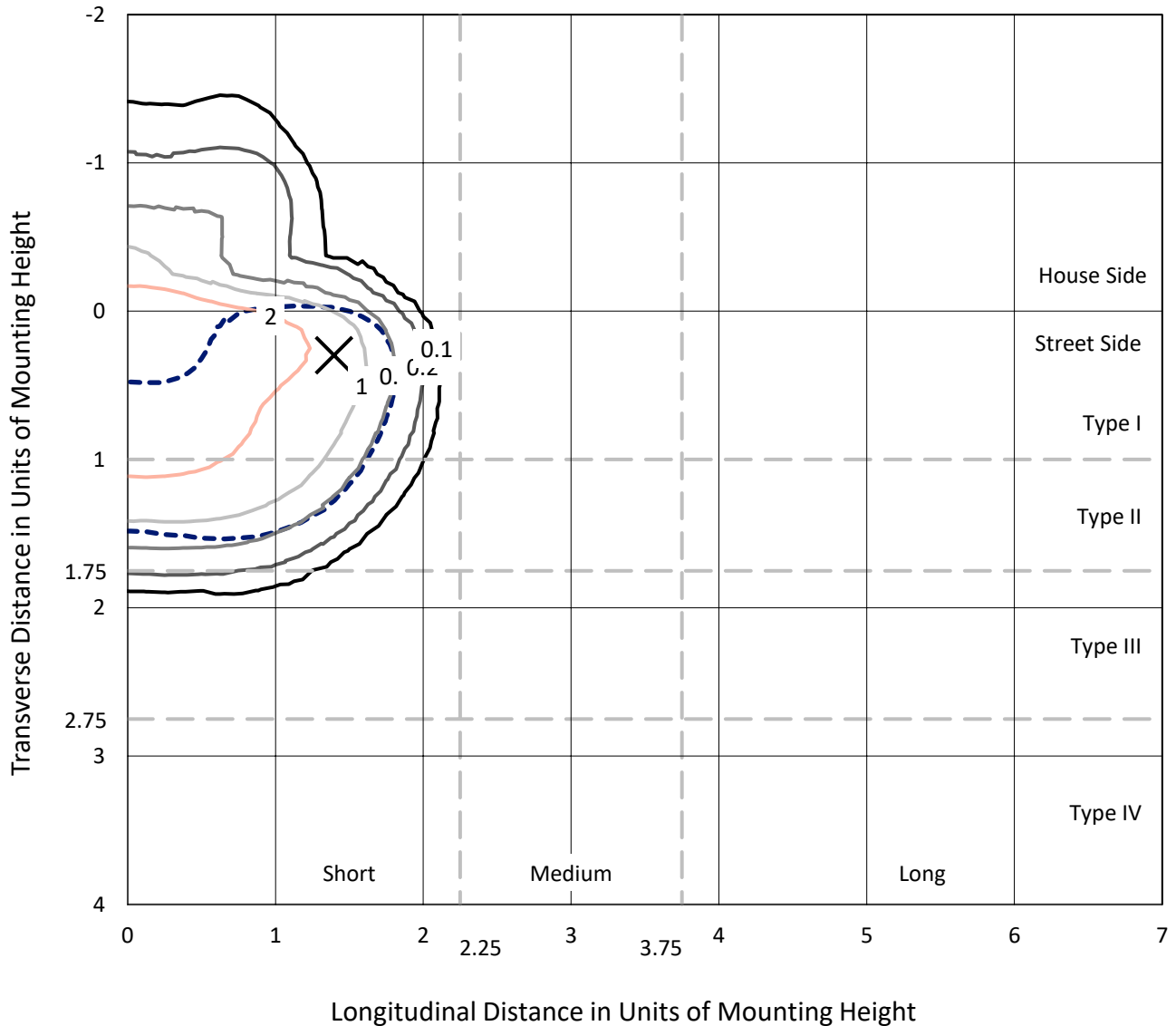
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

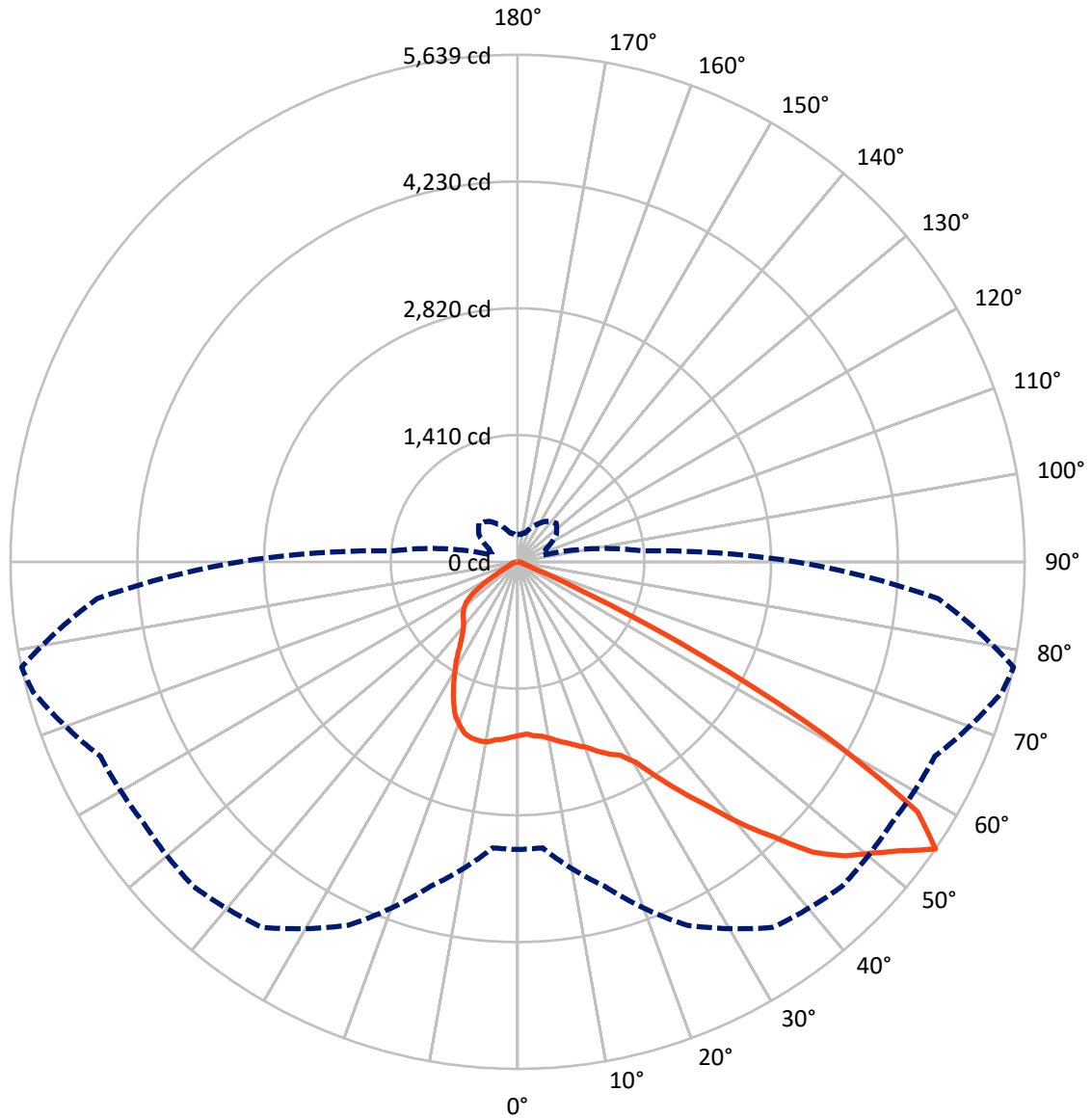
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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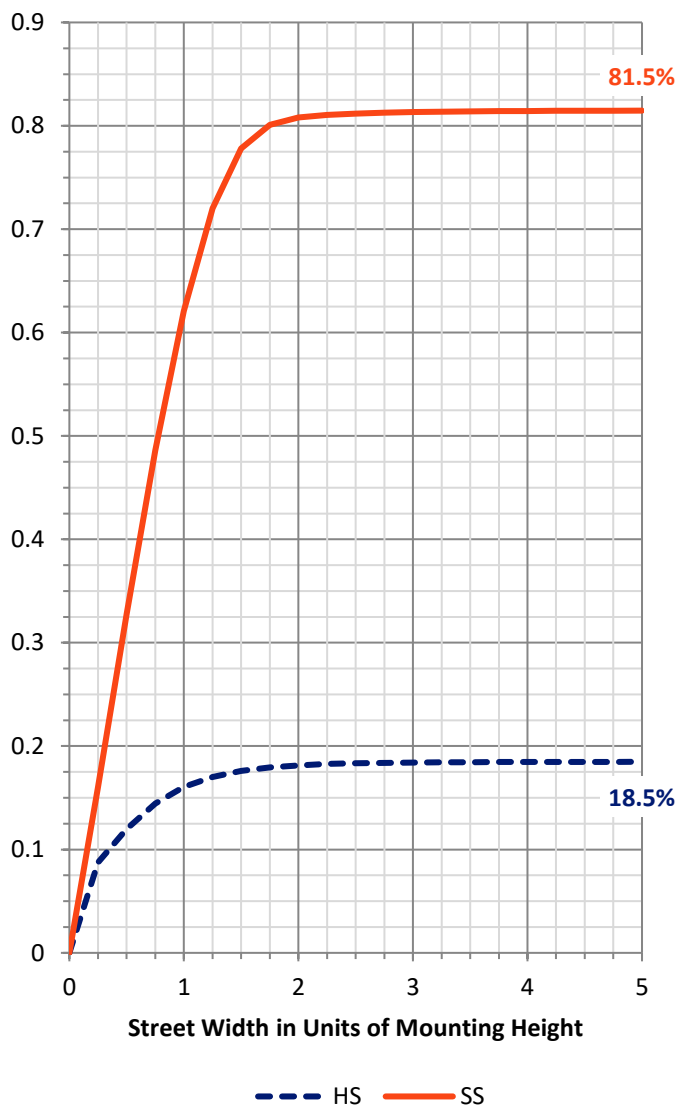
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1396.6 | 0.0 | 1396.6 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 6122.4 | 0.0 | 6122.4 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 7519.0 | 0.0 | 7519.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 172.4 | 2.3 |
| 10°-20° | 456.2 | 6.1 |
| 20°-30° | 799.6 | 10.6 |
| 30°-40° | 1318.5 | 17.5 |
| 40°-50° | 1918.6 | 25.5 |
| 50°-60° | 2173.9 | 28.9 |
| 60°-70° | 621.6 | 8.3 |
| 70°-80° | 48.3 | 0.6 |
| 80°-90° | 10.0 | 0.1 |
| 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° | 7519.0 | 100.0 |
| 0°-180° | 7519.0 | 100.0 |

Coefficient of Utilization

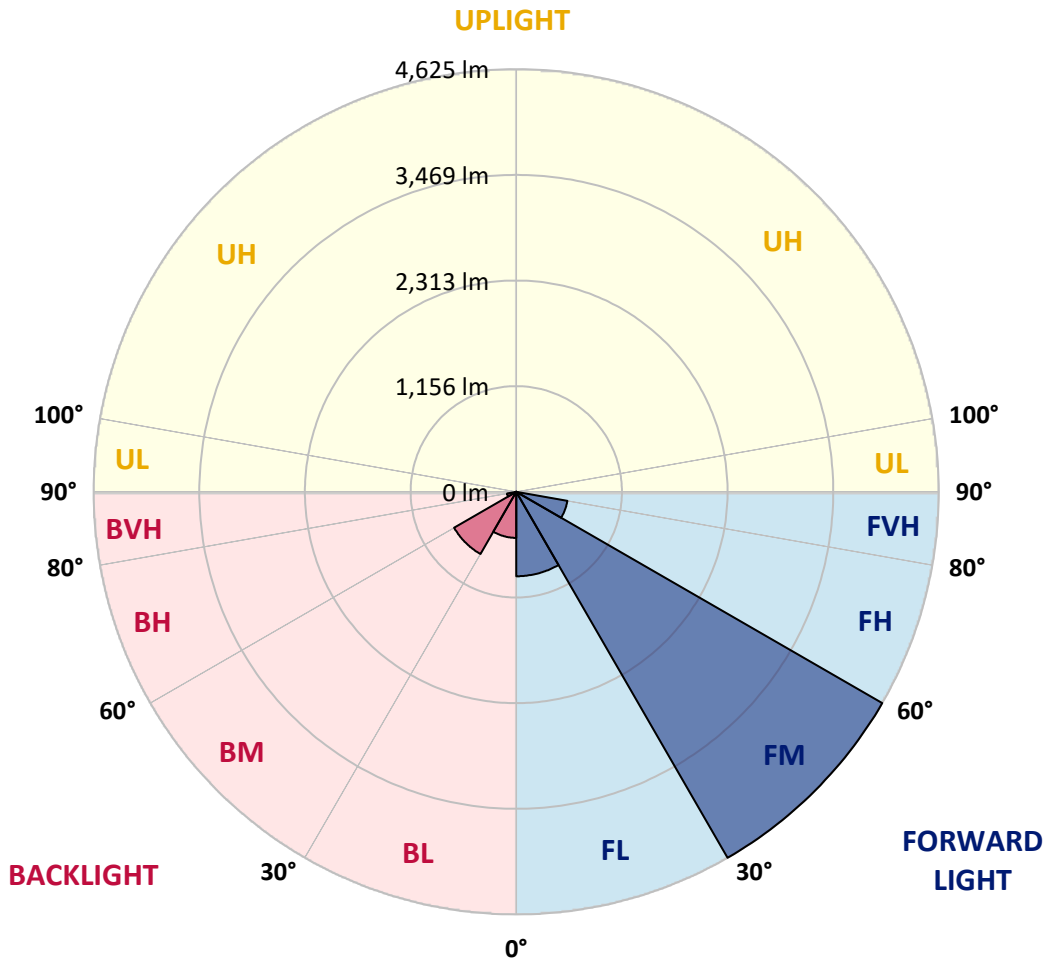


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 924.3 | 12.3 | | | |
| FM (30°-60°) | 4625.4 | 61.5 | | | |
| FH (60°-80°) | 567.9 | 7.6 | | | G0/660 |
| FVH (80°-90°) | 4.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 503.9 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 785.6 | 10.4 | B1/1000 | | |
| BH (60°-80°) | 101.9 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 5.1 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 |
| 2.5° | 1817.5 | 1835.0 | 1837.7 | 1859.2 | 1857.9 | 1894.2 | 1904.9 | 1906.3 | 1930.5 | 1918.4 | 1949.3 |
| 5° | 1766.4 | 1757.0 | 1753.0 | 1790.6 | 1801.4 | 1833.7 | 1860.5 | 1876.7 | 1926.4 | 1943.9 | 1976.2 |
| 7.5° | 1720.7 | 1720.7 | 1723.4 | 1757.0 | 1753.0 | 1794.7 | 1822.9 | 1872.6 | 1945.2 | 1960.0 | 1999.0 |
| 10° | 1676.4 | 1660.2 | 1680.4 | 1715.4 | 1744.9 | 1763.8 | 1822.9 | 1870.0 | 1954.6 | 1997.7 | 2051.4 |
| 12.5° | 1653.5 | 1661.6 | 1664.3 | 1689.8 | 1722.1 | 1778.5 | 1810.8 | 1888.8 | 2021.9 | 2047.4 | 2105.2 |
| 15° | 1797.4 | 1781.2 | 1742.2 | 1719.4 | 1746.3 | 1773.2 | 1853.8 | 1933.1 | 2056.8 | 2093.1 | 2157.6 |
| 17.5° | 1964.1 | 1950.6 | 1918.4 | 1856.5 | 1796.0 | 1845.8 | 1908.9 | 1981.5 | 2094.5 | 2148.2 | 2243.7 |
| 20° | 2181.8 | 2160.3 | 2128.1 | 2007.1 | 1954.6 | 1900.9 | 1968.1 | 2054.1 | 2156.3 | 2204.7 | 2302.8 |
| 22.5° | 2441.3 | 2441.3 | 2368.7 | 2222.2 | 2113.3 | 2062.2 | 2090.4 | 2140.2 | 2224.9 | 2290.7 | 2387.5 |
| 25° | 2711.5 | 2703.4 | 2637.6 | 2485.7 | 2301.5 | 2241.0 | 2273.3 | 2308.2 | 2331.1 | 2367.4 | 2431.9 |
| 27.5° | 3020.7 | 2973.6 | 2890.3 | 2722.3 | 2559.6 | 2442.6 | 2477.6 | 2446.7 | 2418.4 | 2437.3 | 2530.0 |
| 30° | 3230.4 | 3260.0 | 3153.8 | 2992.5 | 2839.2 | 2708.8 | 2715.5 | 2688.6 | 2559.6 | 2586.5 | 2641.6 |
| 32.5° | 3448.2 | 3467.0 | 3407.9 | 3319.1 | 3165.9 | 3014.0 | 2958.9 | 2936.0 | 2839.2 | 2851.3 | 2797.5 |
| 35° | 3629.7 | 3666.0 | 3613.5 | 3574.6 | 3530.2 | 3407.9 | 3256.0 | 3329.9 | 3174.0 | 3144.4 | 3004.6 |
| 37.5° | 3796.4 | 3785.6 | 3847.5 | 3807.1 | 3797.7 | 3711.7 | 3545.0 | 3559.8 | 3454.9 | 3448.2 | 3286.9 |
| 40° | 3945.6 | 3948.3 | 4033.0 | 4051.8 | 4014.2 | 3860.9 | 3618.9 | 3735.9 | 3820.6 | 3828.6 | 3621.6 |
| 42.5° | 4069.3 | 4105.6 | 4178.2 | 4330.1 | 4273.6 | 4018.2 | 3695.5 | 3823.3 | 4137.8 | 4187.6 | 3938.9 |
| 45° | 4176.8 | 4250.8 | 4340.8 | 4476.6 | 4444.3 | 4241.3 | 3886.4 | 4003.4 | 4476.6 | 4607.0 | 4237.3 |
| 47.5° | 4183.5 | 4280.3 | 4378.5 | 4580.1 | 4620.4 | 4361.0 | 4084.1 | 4288.4 | 4745.5 | 4886.6 | 4455.1 |
| 50° | 4156.7 | 4207.7 | 4404.0 | 4623.1 | 4714.5 | 4555.9 | 4361.0 | 4527.7 | 5006.3 | 5095.0 | 4565.3 |
| 52.5° | 3838.0 | 3877.0 | 4270.9 | 4663.5 | 4883.9 | 4776.4 | 4728.0 | 4861.1 | 5272.4 | 5338.3 | 4668.8 |
| 55° | 3199.5 | 3192.8 | 3734.5 | 4460.5 | 4961.9 | 5103.1 | 5073.5 | 5120.5 | 5580.3 | 5639.4 | 4694.4 |
| 57.5° | 2188.6 | 2310.9 | 2778.7 | 3714.4 | 4484.7 | 5026.4 | 5057.4 | 4979.4 | 5221.4 | 5244.2 | 4092.1 |
| 60° | 1180.3 | 1231.4 | 1607.8 | 2478.9 | 3414.6 | 4096.2 | 4176.8 | 4035.7 | 4016.8 | 3952.3 | 2921.2 |
| 62.5° | 469.2 | 494.7 | 708.5 | 1227.4 | 1860.5 | 2489.7 | 2663.1 | 2605.3 | 2481.6 | 2312.2 | 1512.4 |
| 65° | 223.2 | 239.3 | 352.2 | 574.0 | 825.4 | 1037.8 | 1211.2 | 1265.0 | 933.0 | 840.2 | 498.7 |
| 67.5° | 151.9 | 164.0 | 256.8 | 328.0 | 294.4 | 307.9 | 400.6 | 372.4 | 219.1 | 186.9 | 138.5 |
| 70° | 115.6 | 123.7 | 205.7 | 223.2 | 131.7 | 92.8 | 103.5 | 96.8 | 90.1 | 91.4 | 90.1 |
| 72.5° | 82.0 | 88.7 | 150.6 | 131.7 | 57.8 | 43.0 | 55.1 | 65.9 | 65.9 | 65.9 | 64.5 |
| 75° | 49.7 | 56.5 | 87.4 | 51.1 | 22.9 | 22.9 | 35.0 | 44.4 | 47.1 | 48.4 | 45.7 |
| 77.5° | 25.5 | 32.3 | 29.6 | 14.8 | 14.8 | 17.5 | 25.5 | 30.9 | 33.6 | 33.6 | 32.3 |
| 80° | 5.4 | 5.4 | 5.4 | 8.1 | 14.8 | 18.8 | 25.5 | 28.2 | 32.3 | 32.3 | 29.6 |
| 82.5° | 0.0 | 1.3 | 4.0 | 8.1 | 13.4 | 17.5 | 24.2 | 28.2 | 32.3 | 33.6 | 30.9 |
| 85° | 0.0 | 1.3 | 2.7 | 5.4 | 9.4 | 10.8 | 9.4 | 8.1 | 8.1 | 8.1 | 8.1 |
| 87.5° | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| 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° | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 | 1933.1 |
| 2.5° | 1952.0 | 1956.0 | 1949.3 | 1947.9 | 1942.5 | 1958.7 | 1919.7 | 1910.3 | 1934.5 | 1911.6 | 1917.0 |
| 5° | 1977.5 | 1986.9 | 1974.8 | 1954.6 | 1925.1 | 1879.4 | 1840.4 | 1789.3 | 1765.1 | 1747.6 | 1744.9 |
| 7.5° | 1996.3 | 2003.0 | 1990.9 | 1926.4 | 1837.7 | 1722.1 | 1636.0 | 1572.9 | 1523.1 | 1508.3 | 1484.1 |
| 10° | 2072.9 | 2074.3 | 2013.8 | 1871.3 | 1697.9 | 1546.0 | 1414.2 | 1317.4 | 1267.7 | 1236.8 | 1223.3 |
| 12.5° | 2124.0 | 2121.3 | 1999.0 | 1762.4 | 1531.2 | 1329.5 | 1179.0 | 1062.0 | 1016.3 | 1001.5 | 992.1 |
| 15° | 2188.6 | 2173.8 | 1964.1 | 1650.8 | 1316.1 | 1098.3 | 962.5 | 881.9 | 877.8 | 868.4 | 877.8 |
| 17.5° | 2239.6 | 2198.0 | 1913.0 | 1447.8 | 1110.4 | 904.7 | 816.0 | 821.4 | 832.1 | 841.5 | 842.9 |
| 20° | 2323.0 | 2237.0 | 1796.0 | 1270.4 | 919.5 | 775.7 | 774.3 | 798.5 | 825.4 | 836.2 | 846.9 |
| 22.5° | 2386.2 | 2253.1 | 1671.0 | 1080.8 | 763.6 | 723.2 | 746.1 | 782.4 | 802.6 | 813.3 | 829.4 |
| 25° | 2409.0 | 2208.7 | 1504.3 | 891.3 | 688.3 | 699.0 | 734.0 | 758.2 | 783.7 | 795.8 | 789.1 |
| 27.5° | 2431.9 | 2185.9 | 1305.3 | 734.0 | 648.0 | 682.9 | 712.5 | 736.7 | 744.8 | 760.9 | 771.6 |
| 30° | 2487.0 | 2106.6 | 1126.5 | 634.5 | 627.8 | 672.2 | 693.7 | 701.7 | 723.2 | 732.7 | 732.7 |
| 32.5° | 2531.4 | 2075.6 | 937.0 | 587.5 | 625.1 | 677.5 | 680.2 | 680.2 | 682.9 | 676.2 | 673.5 |
| 35° | 2622.8 | 1969.4 | 767.6 | 559.2 | 623.8 | 678.9 | 685.6 | 662.8 | 600.9 | 576.7 | 570.0 |
| 37.5° | 2735.7 | 1900.9 | 642.6 | 552.5 | 633.2 | 695.0 | 705.8 | 619.7 | 539.1 | 500.1 | 493.4 |
| 40° | 2872.8 | 1852.5 | 560.6 | 549.8 | 654.7 | 732.7 | 700.4 | 586.1 | 481.3 | 424.8 | 422.1 |
| 42.5° | 3032.8 | 1808.1 | 505.5 | 548.5 | 681.6 | 771.6 | 695.0 | 557.9 | 422.1 | 384.5 | 389.9 |
| 45° | 3160.5 | 1783.9 | 467.8 | 539.1 | 691.0 | 794.5 | 699.0 | 508.2 | 397.9 | 373.7 | 376.4 |
| 47.5° | 3260.0 | 1732.8 | 436.9 | 522.9 | 689.6 | 802.6 | 662.8 | 488.0 | 385.8 | 392.5 | 399.3 |
| 50° | 3262.7 | 1664.3 | 397.9 | 488.0 | 669.5 | 787.8 | 621.1 | 469.2 | 383.1 | 411.4 | 424.8 |
| 52.5° | 3226.4 | 1567.5 | 356.2 | 438.2 | 622.4 | 736.7 | 583.4 | 461.1 | 371.0 | 368.3 | 384.5 |
| 55° | 3097.3 | 1386.0 | 286.3 | 354.9 | 525.6 | 607.6 | 549.8 | 446.3 | 334.7 | 303.8 | 306.5 |
| 57.5° | 2503.1 | 993.5 | 211.1 | 254.1 | 372.4 | 445.0 | 496.1 | 439.6 | 301.1 | 258.1 | 259.5 |
| 60° | 1550.0 | 563.3 | 154.6 | 173.4 | 229.9 | 270.2 | 402.0 | 408.7 | 268.9 | 217.8 | 215.1 |
| 62.5° | 795.8 | 278.3 | 119.6 | 122.3 | 141.2 | 158.6 | 275.6 | 342.8 | 243.3 | 207.0 | 207.0 |
| 65° | 266.2 | 137.1 | 104.9 | 94.1 | 94.1 | 98.1 | 166.7 | 237.9 | 205.7 | 173.4 | 173.4 |
| 67.5° | 114.3 | 102.2 | 91.4 | 82.0 | 75.3 | 71.2 | 94.1 | 138.5 | 153.3 | 131.7 | 126.4 |
| 70° | 88.7 | 86.0 | 79.3 | 68.6 | 59.2 | 53.8 | 55.1 | 71.2 | 87.4 | 84.7 | 82.0 |
| 72.5° | 65.9 | 65.9 | 63.2 | 53.8 | 45.7 | 39.0 | 36.3 | 37.6 | 41.7 | 43.0 | 44.4 |
| 75° | 45.7 | 47.1 | 47.1 | 41.7 | 33.6 | 28.2 | 24.2 | 20.2 | 16.1 | 13.4 | 12.1 |
| 77.5° | 30.9 | 32.3 | 35.0 | 30.9 | 25.5 | 18.8 | 14.8 | 10.8 | 6.7 | 2.7 | 2.7 |
| 80° | 26.9 | 30.9 | 33.6 | 30.9 | 26.9 | 20.2 | 14.8 | 8.1 | 4.0 | 0.0 | 0.0 |
| 82.5° | 28.2 | 30.9 | 35.0 | 29.6 | 25.5 | 18.8 | 14.8 | 9.4 | 4.0 | 1.3 | 0.0 |
| 85° | 6.7 | 6.7 | 8.1 | 9.4 | 12.1 | 13.4 | 10.8 | 6.7 | 4.0 | 1.3 | 0.0 |
| 87.5° | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 | 0.0 |
| 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)