

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: P317655

Luminaire Tested: **GAN-SA1D-722-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-722-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2200K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6221 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

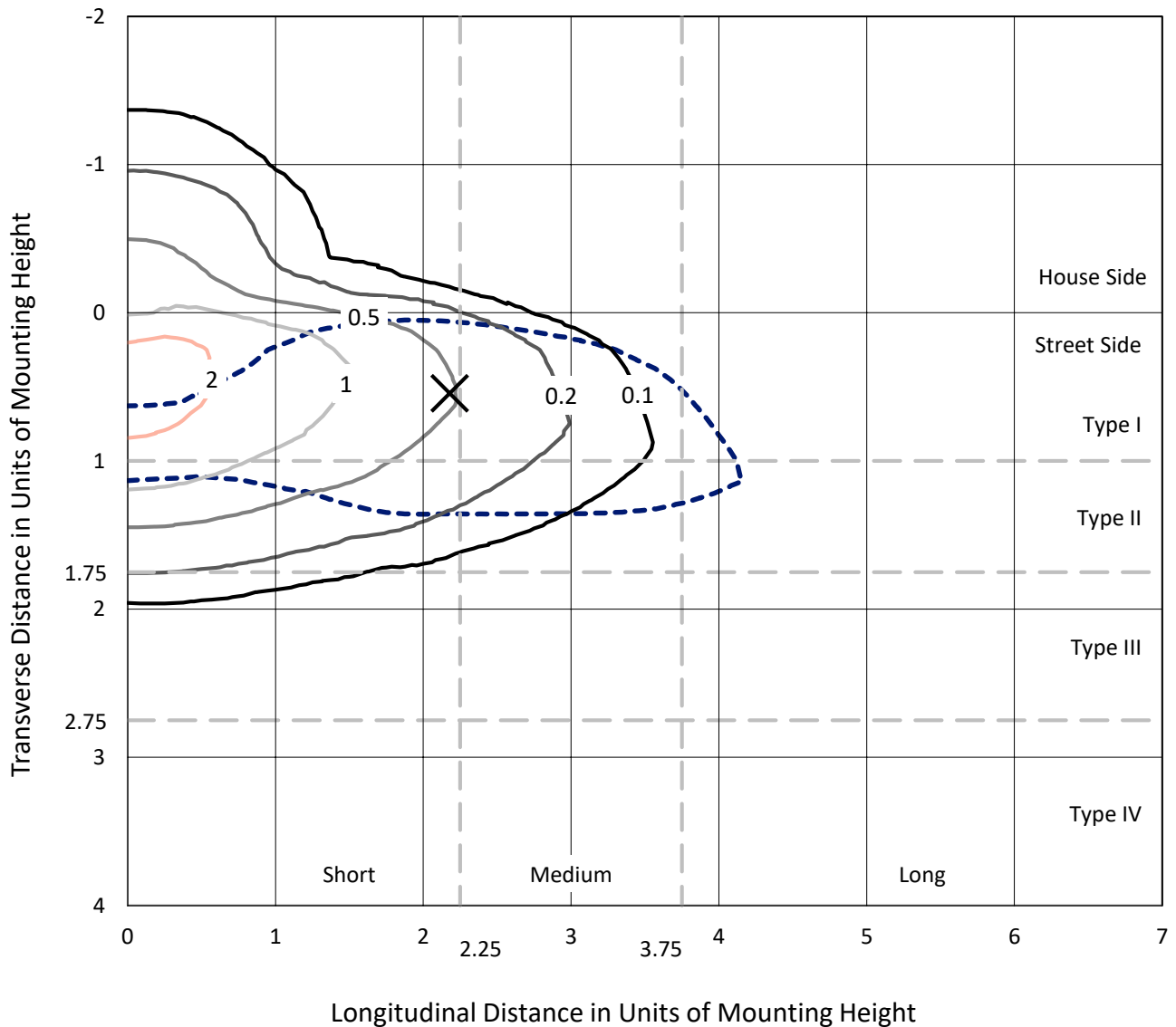
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

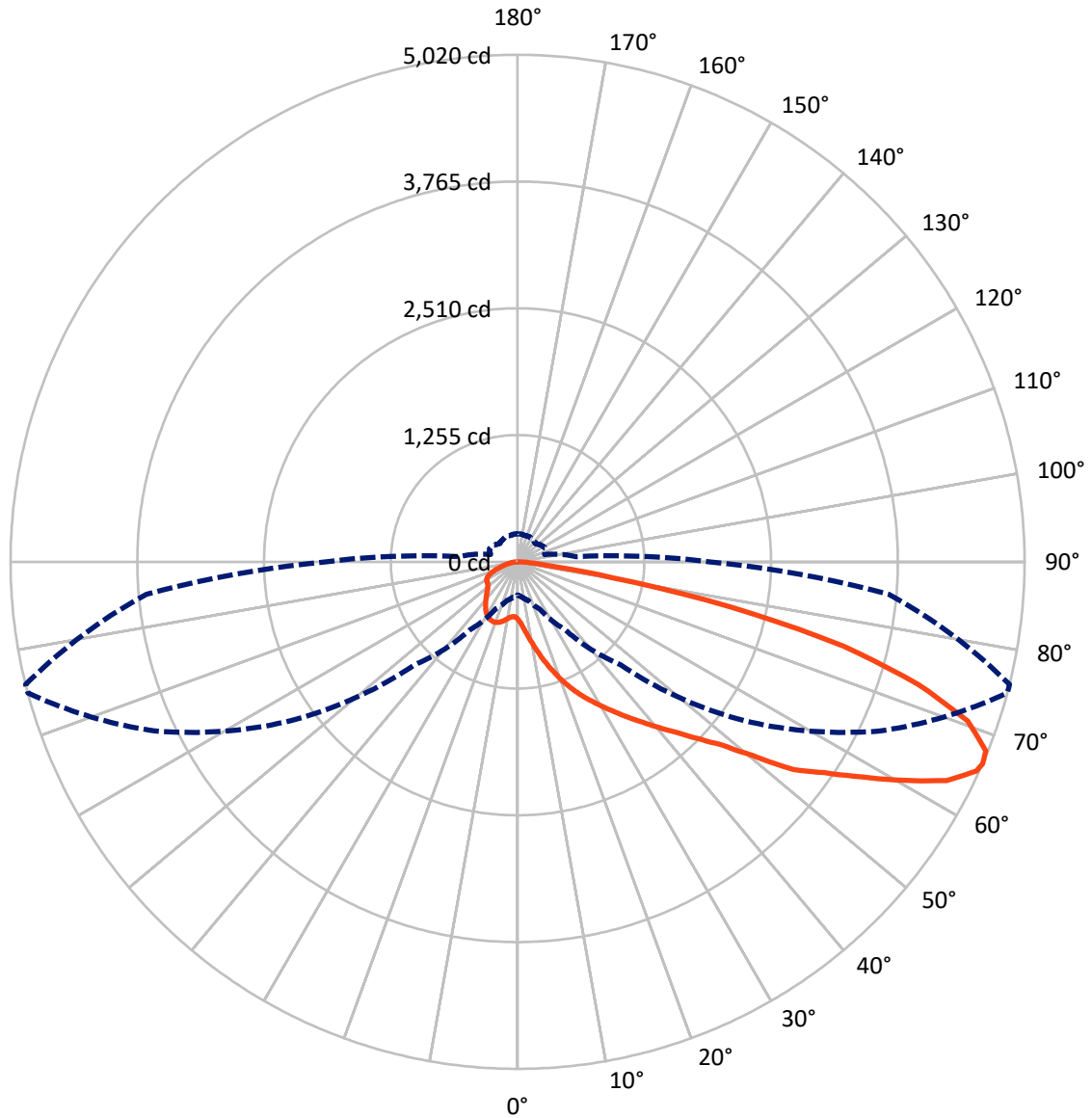
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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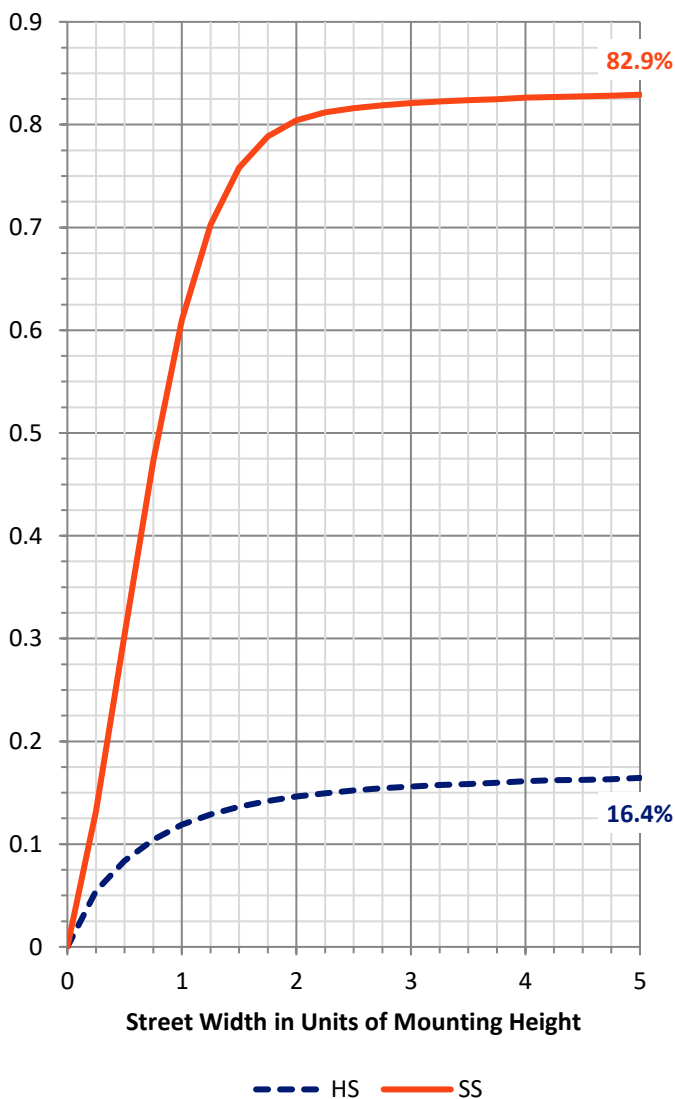
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1046.8 | 0.0 | 1046.8 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 5174.2 | 0.0 | 5174.2 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 6221.0 | 0.0 | 6221.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.7 | 1.1 |
| 10°-20° | 271.3 | 4.4 |
| 20°-30° | 527.2 | 8.5 |
| 30°-40° | 860.5 | 13.8 |
| 40°-50° | 1175.6 | 18.9 |
| 50°-60° | 1369.4 | 22.0 |
| 60°-70° | 1227.7 | 19.7 |
| 70°-80° | 620.4 | 10.0 |
| 80°-90° | 100.2 | 1.6 |
| 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° | 6221.0 | 100.0 |
| 0°-180° | 6221.0 | 100.0 |

Coefficient of Utilization

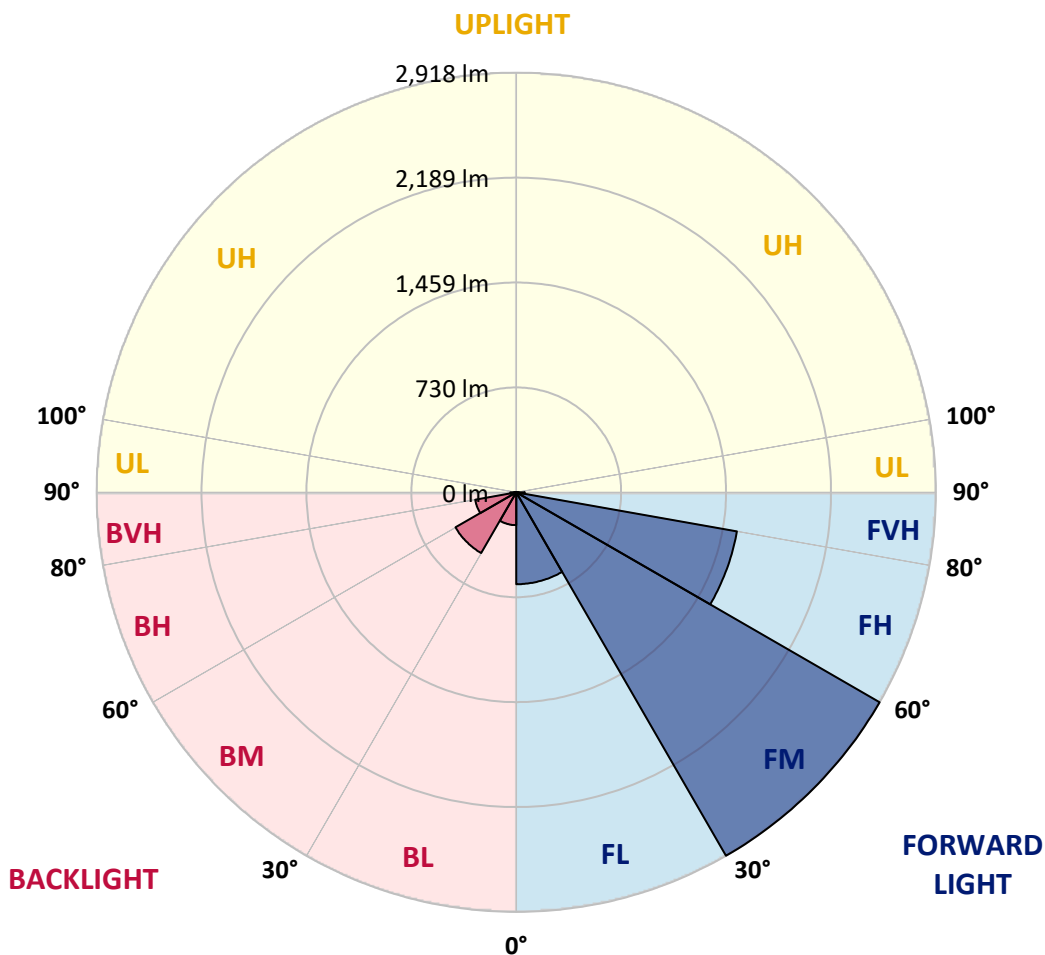


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 638.9 | 10.3 | | | |
| FM (30°-60°) | 2918.1 | 46.9 | | | |
| FH (60°-80°) | 1558.1 | 25.0 | | | G1/1800 |
| FVH (80°-90°) | 59.2 | 1.0 | | | G1/100 |
| BL (0°-30°) | 228.3 | 3.7 | B1/500 | | |
| BM (30°-60°) | 487.4 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 290.0 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 41.0 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 |
| 2.5° | 754.2 | 742.8 | 741.7 | 725.0 | 721.2 | 689.3 | 665.9 | 641.4 | 613.5 | 608.0 | 586.1 |
| 5° | 968.8 | 967.7 | 953.1 | 925.9 | 904.6 | 850.1 | 796.2 | 739.2 | 676.7 | 666.5 | 617.1 |
| 7.5° | 1161.8 | 1160.1 | 1148.9 | 1119.6 | 1088.7 | 1021.8 | 944.9 | 857.5 | 756.1 | 741.1 | 659.1 |
| 10° | 1308.4 | 1307.7 | 1303.9 | 1282.4 | 1256.2 | 1192.0 | 1107.1 | 987.8 | 848.4 | 827.9 | 711.7 |
| 12.5° | 1421.6 | 1422.8 | 1425.4 | 1417.8 | 1405.3 | 1350.6 | 1263.6 | 1125.9 | 946.8 | 926.5 | 770.2 |
| 15° | 1498.2 | 1502.0 | 1515.1 | 1525.9 | 1532.4 | 1498.9 | 1414.6 | 1267.2 | 1057.0 | 1032.7 | 835.1 |
| 17.5° | 1536.9 | 1541.1 | 1563.7 | 1596.2 | 1626.2 | 1622.8 | 1555.9 | 1401.9 | 1162.8 | 1139.4 | 904.8 |
| 20° | 1570.2 | 1573.4 | 1598.8 | 1637.8 | 1690.8 | 1714.3 | 1676.7 | 1531.6 | 1278.8 | 1250.9 | 978.7 |
| 22.5° | 1667.0 | 1671.0 | 1678.6 | 1700.8 | 1747.6 | 1790.7 | 1772.6 | 1654.3 | 1385.0 | 1359.0 | 1048.8 |
| 25° | 1853.7 | 1858.5 | 1842.1 | 1823.3 | 1832.1 | 1862.1 | 1865.5 | 1766.2 | 1492.7 | 1463.4 | 1124.2 |
| 27.5° | 2078.6 | 2085.6 | 2057.5 | 2009.1 | 1966.9 | 1955.3 | 1951.2 | 1857.9 | 1595.6 | 1561.6 | 1198.7 |
| 30° | 2298.9 | 2310.9 | 2274.4 | 2211.6 | 2134.1 | 2079.6 | 2039.3 | 1947.7 | 1697.0 | 1664.4 | 1269.1 |
| 32.5° | 2514.1 | 2509.2 | 2456.2 | 2395.0 | 2304.1 | 2235.9 | 2138.4 | 2044.0 | 1811.0 | 1773.6 | 1339.0 |
| 35° | 2661.5 | 2663.2 | 2614.0 | 2541.3 | 2454.7 | 2402.4 | 2271.0 | 2147.9 | 1927.4 | 1893.0 | 1418.4 |
| 37.5° | 2786.9 | 2779.1 | 2723.4 | 2655.6 | 2581.0 | 2558.6 | 2426.2 | 2262.3 | 2053.5 | 2015.9 | 1502.9 |
| 40° | 2828.8 | 2819.7 | 2783.1 | 2734.4 | 2674.6 | 2672.7 | 2597.5 | 2392.0 | 2196.0 | 2158.8 | 1598.1 |
| 42.5° | 2803.4 | 2791.8 | 2776.8 | 2763.5 | 2745.1 | 2753.6 | 2758.4 | 2544.1 | 2352.7 | 2311.1 | 1708.4 |
| 45° | 2709.9 | 2692.3 | 2702.9 | 2731.8 | 2771.7 | 2819.5 | 2903.7 | 2712.4 | 2528.2 | 2493.4 | 1837.8 |
| 47.5° | 2566.0 | 2550.2 | 2583.1 | 2645.0 | 2753.6 | 2874.4 | 3041.2 | 2898.2 | 2737.7 | 2703.1 | 2022.2 |
| 50° | 2363.7 | 2368.4 | 2415.5 | 2528.0 | 2692.1 | 2899.7 | 3210.6 | 3144.3 | 3042.3 | 3010.0 | 2273.7 |
| 52.5° | 2031.7 | 2032.6 | 2165.2 | 2350.0 | 2583.1 | 2886.6 | 3304.6 | 3458.8 | 3458.1 | 3419.1 | 2513.2 |
| 55° | 1723.4 | 1742.2 | 1847.1 | 2092.7 | 2406.6 | 2834.3 | 3370.3 | 3611.7 | 3731.2 | 3685.4 | 2736.5 |
| 57.5° | 1422.2 | 1433.2 | 1532.7 | 1779.3 | 2154.6 | 2694.7 | 3437.6 | 3795.2 | 4045.9 | 4017.0 | 3014.0 |
| 60° | 1079.6 | 1096.5 | 1199.4 | 1427.3 | 1832.3 | 2446.9 | 3444.0 | 3986.7 | 4422.0 | 4392.9 | 3323.8 |
| 62.5° | 700.7 | 729.9 | 826.2 | 1039.7 | 1442.5 | 2090.6 | 3297.0 | 4112.0 | 4778.5 | 4768.2 | 3598.8 |
| 65° | 402.8 | 424.7 | 491.7 | 656.4 | 995.2 | 1643.3 | 2947.5 | 4063.8 | 4998.0 | 4992.0 | 3701.6 |
| 66° | 329.0 | 342.8 | 394.1 | 513.0 | 821.1 | 1443.1 | 2744.3 | 3962.3 | 5019.7 | 5019.9 | 3689.8 |
| 67.5° | 263.2 | 269.3 | 292.3 | 367.3 | 605.9 | 1143.8 | 2381.2 | 3738.2 | 4992.7 | 5000.1 | 3613.6 |
| 70° | 217.7 | 220.9 | 228.1 | 246.3 | 330.7 | 689.8 | 1690.2 | 3155.9 | 4721.3 | 4727.0 | 3316.0 |
| 72.5° | 195.4 | 197.3 | 200.0 | 202.5 | 233.4 | 385.4 | 1032.3 | 2524.6 | 4139.4 | 4146.8 | 2862.6 |
| 75° | 177.0 | 178.0 | 177.6 | 177.8 | 195.8 | 245.6 | 533.5 | 1884.9 | 3347.0 | 3332.3 | 2192.8 |
| 77.5° | 155.4 | 156.5 | 154.4 | 154.8 | 173.2 | 188.8 | 265.5 | 1319.6 | 2258.7 | 2154.4 | 1235.5 |
| 80° | 131.4 | 132.2 | 131.4 | 132.8 | 150.8 | 142.6 | 154.4 | 742.4 | 998.7 | 944.7 | 439.3 |
| 82.5° | 99.3 | 102.9 | 105.4 | 111.3 | 124.2 | 101.4 | 103.3 | 289.1 | 304.1 | 289.5 | 134.7 |
| 85° | 43.5 | 53.0 | 79.4 | 85.1 | 93.3 | 60.8 | 67.8 | 117.8 | 123.8 | 120.0 | 49.0 |
| 87.5° | 11.4 | 12.5 | 39.3 | 49.4 | 51.7 | 27.5 | 35.3 | 53.6 | 56.6 | 53.6 | 16.3 |
| 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° | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 | 568.1 |
| 2.5° | 574.5 | 564.1 | 545.5 | 529.0 | 516.6 | 508.1 | 499.7 | 495.5 | 492.9 | 490.4 | 490.8 |
| 5° | 592.8 | 571.9 | 540.0 | 517.4 | 504.8 | 496.7 | 492.5 | 490.8 | 489.8 | 487.2 | 487.2 |
| 7.5° | 620.5 | 590.9 | 547.0 | 523.8 | 513.8 | 507.7 | 505.2 | 504.3 | 503.1 | 500.1 | 500.5 |
| 10° | 655.3 | 613.9 | 561.6 | 539.0 | 529.9 | 523.1 | 519.5 | 518.3 | 516.0 | 512.6 | 513.0 |
| 12.5° | 696.3 | 642.5 | 580.8 | 557.1 | 546.2 | 537.1 | 531.2 | 527.6 | 523.6 | 519.1 | 519.3 |
| 15° | 741.1 | 673.5 | 601.5 | 573.4 | 558.4 | 545.7 | 536.2 | 530.1 | 523.8 | 518.3 | 518.1 |
| 17.5° | 786.5 | 703.5 | 617.3 | 582.3 | 562.0 | 545.3 | 532.4 | 522.9 | 515.1 | 508.3 | 507.7 |
| 20° | 835.5 | 730.5 | 626.2 | 581.4 | 555.2 | 535.4 | 518.3 | 506.4 | 497.8 | 491.0 | 490.0 |
| 22.5° | 885.3 | 755.9 | 627.7 | 572.8 | 540.2 | 516.0 | 498.0 | 484.9 | 476.0 | 469.1 | 466.5 |
| 25° | 931.0 | 775.5 | 621.6 | 556.1 | 519.3 | 493.1 | 475.6 | 462.3 | 455.1 | 446.9 | 444.4 |
| 27.5° | 972.6 | 789.2 | 609.3 | 534.7 | 495.9 | 470.1 | 453.6 | 442.2 | 434.4 | 428.1 | 426.0 |
| 30° | 1009.9 | 796.6 | 589.2 | 509.4 | 471.8 | 448.4 | 434.4 | 426.6 | 419.9 | 411.8 | 410.4 |
| 32.5° | 1045.4 | 796.6 | 563.5 | 481.7 | 447.9 | 429.2 | 420.9 | 416.1 | 408.5 | 400.6 | 398.5 |
| 35° | 1080.9 | 791.8 | 533.1 | 452.8 | 426.0 | 415.4 | 415.0 | 409.3 | 397.7 | 387.1 | 384.4 |
| 37.5° | 1118.3 | 781.8 | 498.8 | 425.8 | 408.0 | 409.3 | 412.9 | 400.2 | 383.7 | 368.7 | 364.7 |
| 40° | 1160.5 | 768.1 | 463.4 | 402.3 | 393.0 | 406.6 | 407.2 | 387.1 | 355.0 | 341.3 | 337.7 |
| 42.5° | 1210.2 | 754.4 | 430.4 | 381.6 | 381.2 | 398.3 | 396.4 | 358.8 | 339.6 | 332.6 | 330.7 |
| 45° | 1275.4 | 746.6 | 399.2 | 362.0 | 371.9 | 385.0 | 378.0 | 343.2 | 335.2 | 331.2 | 329.5 |
| 47.5° | 1378.3 | 750.6 | 370.4 | 346.4 | 362.6 | 371.7 | 343.8 | 336.9 | 331.2 | 326.3 | 324.6 |
| 50° | 1507.1 | 748.3 | 347.2 | 335.6 | 352.1 | 357.8 | 328.4 | 328.6 | 325.7 | 320.2 | 317.6 |
| 52.5° | 1604.0 | 730.1 | 332.2 | 329.5 | 342.8 | 333.1 | 318.7 | 320.6 | 319.1 | 311.1 | 308.3 |
| 55° | 1697.6 | 714.5 | 324.6 | 327.1 | 336.0 | 302.2 | 307.3 | 311.9 | 310.5 | 302.6 | 301.4 |
| 57.5° | 1814.0 | 711.5 | 320.0 | 327.8 | 330.3 | 286.8 | 296.3 | 302.4 | 301.4 | 298.0 | 297.4 |
| 60° | 1956.5 | 712.4 | 315.7 | 328.8 | 324.0 | 275.4 | 286.0 | 293.8 | 294.4 | 293.8 | 293.4 |
| 62.5° | 2034.9 | 689.3 | 305.2 | 325.9 | 312.8 | 265.5 | 275.2 | 286.6 | 286.8 | 288.1 | 287.9 |
| 65° | 1968.3 | 620.5 | 285.5 | 315.5 | 294.0 | 257.2 | 265.9 | 278.4 | 275.2 | 280.9 | 280.9 |
| 66° | 1903.7 | 580.8 | 275.8 | 308.8 | 286.0 | 254.1 | 262.9 | 274.1 | 270.1 | 277.9 | 277.9 |
| 67.5° | 1771.7 | 513.8 | 258.3 | 294.4 | 274.6 | 249.6 | 259.6 | 267.2 | 261.7 | 273.3 | 272.4 |
| 70° | 1530.5 | 397.5 | 223.0 | 261.9 | 255.8 | 243.1 | 254.9 | 253.2 | 245.2 | 262.9 | 259.6 |
| 72.5° | 1290.4 | 302.0 | 179.1 | 219.2 | 227.2 | 234.9 | 248.4 | 235.5 | 225.3 | 237.8 | 230.4 |
| 75° | 1001.3 | 227.0 | 141.5 | 170.4 | 192.0 | 222.0 | 240.6 | 215.0 | 200.4 | 199.2 | 195.1 |
| 77.5° | 541.3 | 155.9 | 112.1 | 130.1 | 152.5 | 205.9 | 235.3 | 193.0 | 171.1 | 166.0 | 162.8 |
| 80° | 214.4 | 101.4 | 81.5 | 98.6 | 106.7 | 182.7 | 222.6 | 167.5 | 141.1 | 136.0 | 131.2 |
| 82.5° | 88.5 | 60.0 | 52.6 | 66.1 | 69.5 | 156.3 | 199.8 | 137.3 | 109.0 | 150.8 | 160.1 |
| 85° | 38.0 | 32.9 | 31.3 | 34.2 | 39.3 | 109.6 | 159.0 | 104.8 | 117.6 | 105.0 | 83.4 |
| 87.5° | 11.4 | 13.9 | 13.3 | 13.1 | 14.4 | 26.2 | 84.7 | 58.3 | 86.4 | 32.7 | 24.5 |
| 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)