

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: P266635

Luminaire Tested: **GAN-AF-01-LED-U-T4FT-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-T4FT-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5975.3 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

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: 28.75 FT

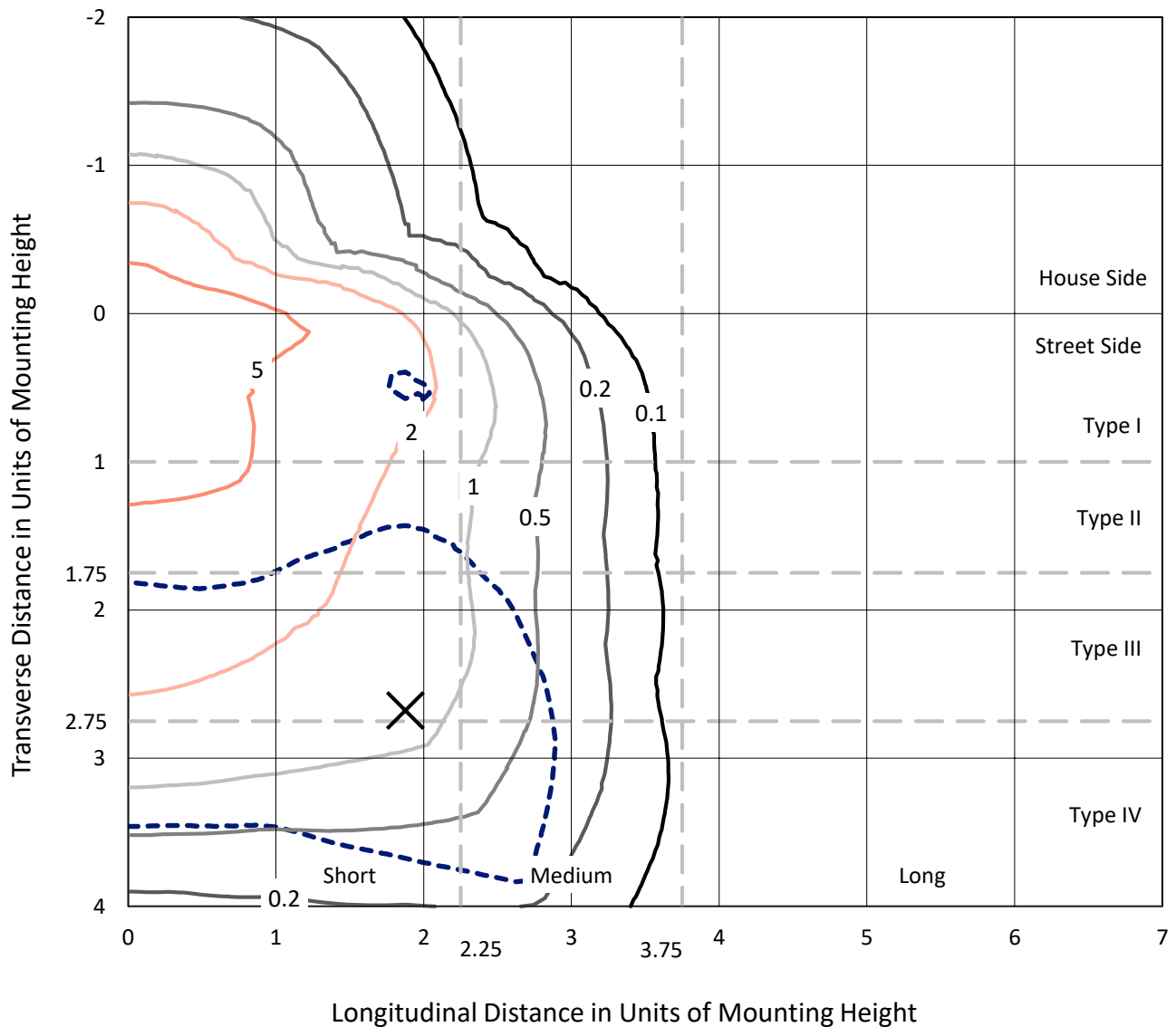


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

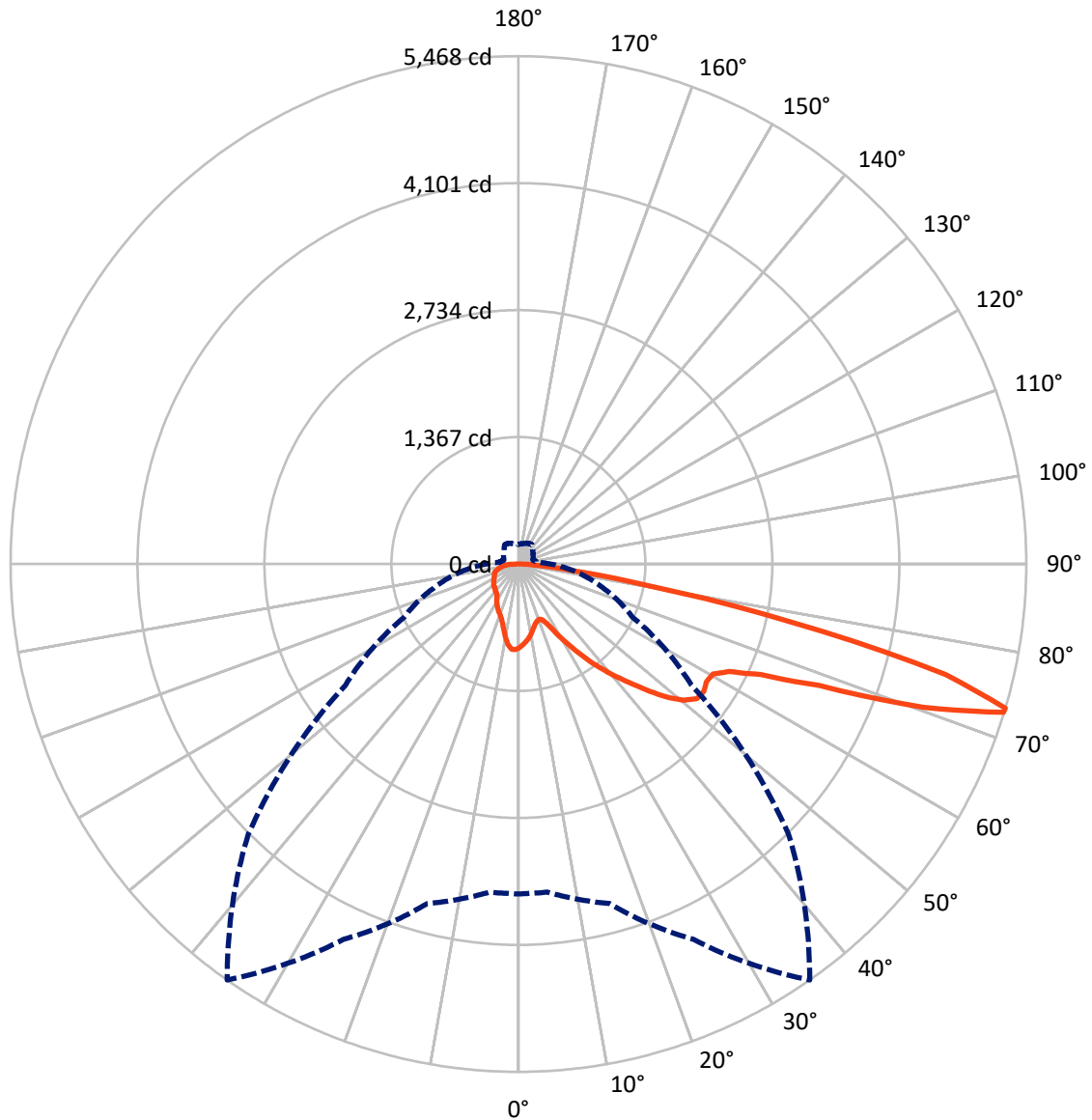


Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1139.6 | 0.0 | 1139.6 |
| | % Fixture | 19.1 | 0.0 | 19.1 |
| Street Side | Lumens | 4835.6 | 0.0 | 4835.6 |
| | % Fixture | 80.9 | 0.0 | 80.9 |
| Total | Lumens | 5975.3 | 0.0 | 5975.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 81.6 | 1.4 |
| 10°-20° | 203.8 | 3.4 |
| 20°-30° | 329.4 | 5.5 |
| 30°-40° | 552.4 | 9.2 |
| 40°-50° | 851.5 | 14.3 |
| 50°-60° | 1142.4 | 19.1 |
| 60°-70° | 1521.9 | 25.5 |
| 70°-80° | 1160.7 | 19.4 |
| 80°-90° | 131.6 | 2.2 |
| 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° | 5975.3 | 100.0 |
| 0°-180° | 5975.3 | 100.0 |

Coefficient of Utilization



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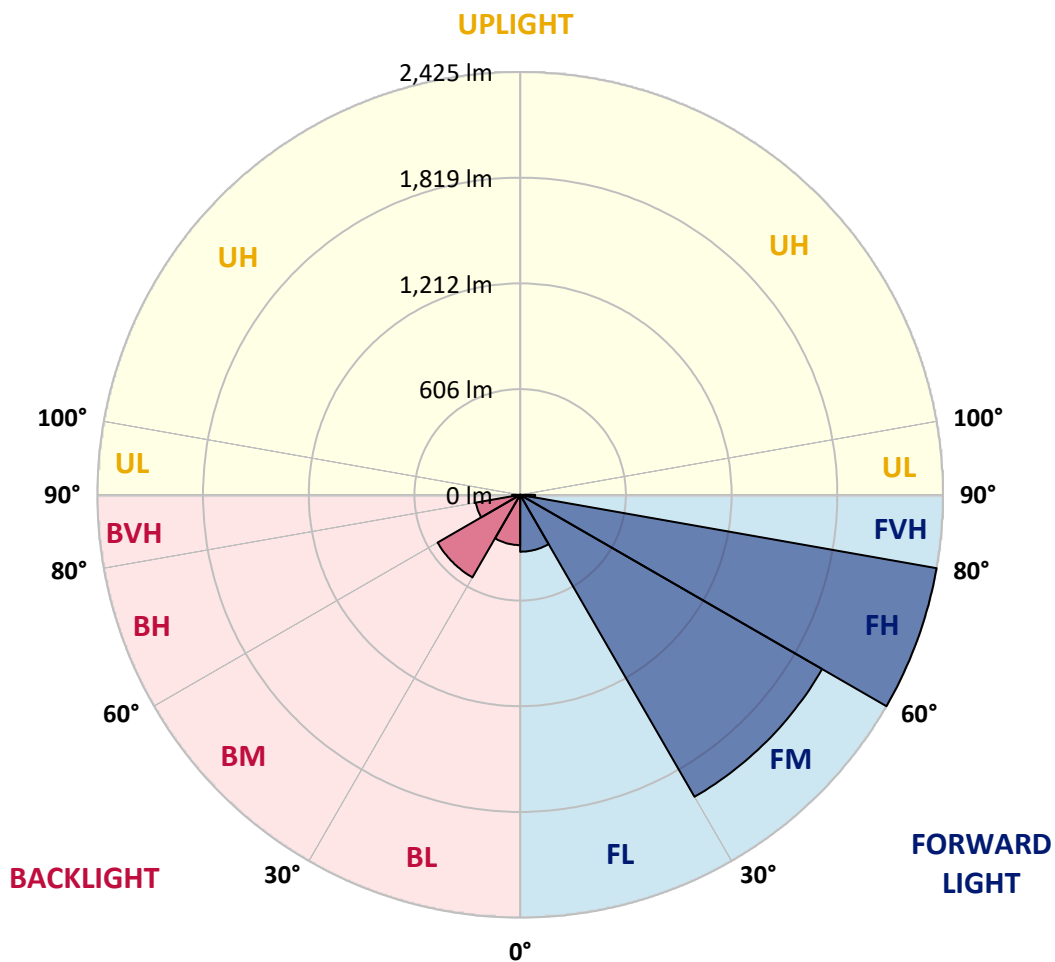
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 326.5 | 5.5 | | | |
| FM | (30°-60°) | 1999.3 | 33.5 | | | |
| FH | (60°-80°) | 2424.8 | 40.6 | | | G2/5000 |
| FVH | (80°-90°) | 85.0 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 288.4 | 4.8 | B1/500 | | |
| BM | (30°-60°) | 546.9 | 9.2 | B1/1000 | | |
| BH | (60°-80°) | 257.8 | 4.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 46.5 | 0.8 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 |
| 2.5° | 866.2 | 868.0 | 866.0 | 868.7 | 872.9 | 877.5 | 880.6 | 885.2 | 890.4 | 897.5 | 899.3 |
| 5° | 825.5 | 828.1 | 828.1 | 832.6 | 841.1 | 848.4 | 855.4 | 862.8 | 873.7 | 886.1 | 890.9 |
| 7.5° | 780.7 | 782.2 | 784.8 | 791.6 | 803.8 | 814.4 | 824.0 | 836.1 | 851.1 | 867.5 | 876.0 |
| 10° | 726.8 | 728.9 | 732.8 | 742.5 | 759.0 | 773.6 | 787.6 | 804.3 | 823.2 | 843.6 | 854.5 |
| 12.5° | 688.6 | 688.1 | 689.8 | 696.9 | 711.3 | 729.2 | 749.5 | 770.7 | 793.9 | 817.7 | 831.0 |
| 15° | 675.7 | 672.7 | 666.1 | 664.2 | 672.0 | 689.8 | 713.3 | 739.5 | 767.3 | 796.0 | 812.3 |
| 17.5° | 683.8 | 678.3 | 660.3 | 647.0 | 645.9 | 659.4 | 684.4 | 713.7 | 745.8 | 780.7 | 801.2 |
| 20° | 734.3 | 721.3 | 677.0 | 646.2 | 635.6 | 642.2 | 663.9 | 695.0 | 732.8 | 779.3 | 805.4 |
| 22.5° | 855.0 | 836.1 | 741.7 | 684.7 | 648.8 | 640.8 | 657.1 | 690.1 | 734.3 | 797.2 | 830.5 |
| 25° | 1031.0 | 1003.9 | 853.1 | 780.4 | 706.4 | 663.7 | 667.4 | 701.2 | 754.7 | 838.5 | 878.6 |
| 27.5° | 1169.9 | 1152.3 | 998.6 | 915.6 | 811.4 | 725.7 | 700.9 | 729.5 | 796.3 | 906.2 | 947.3 |
| 30° | 1252.4 | 1241.8 | 1154.1 | 1068.9 | 945.5 | 824.4 | 765.3 | 782.2 | 861.4 | 1000.1 | 1033.9 |
| 32.5° | 1348.4 | 1342.0 | 1298.9 | 1220.6 | 1090.2 | 954.1 | 867.1 | 861.1 | 948.6 | 1112.7 | 1128.2 |
| 35° | 1447.6 | 1445.6 | 1420.4 | 1364.2 | 1245.3 | 1125.0 | 1002.2 | 961.5 | 1043.7 | 1229.8 | 1220.1 |
| 37.5° | 1540.1 | 1536.6 | 1521.9 | 1489.2 | 1407.7 | 1308.7 | 1139.9 | 1064.5 | 1146.1 | 1341.7 | 1298.4 |
| 40° | 1710.2 | 1683.2 | 1632.9 | 1608.2 | 1571.9 | 1463.3 | 1249.4 | 1160.7 | 1252.1 | 1448.4 | 1366.1 |
| 42.5° | 1917.6 | 1873.8 | 1780.3 | 1746.3 | 1741.2 | 1585.4 | 1323.9 | 1253.9 | 1359.2 | 1554.3 | 1432.6 |
| 45° | 2081.0 | 2039.6 | 1958.9 | 1916.2 | 1935.0 | 1695.8 | 1398.8 | 1353.4 | 1469.4 | 1665.4 | 1501.2 |
| 47.5° | 2255.0 | 2190.2 | 2083.4 | 2096.4 | 2137.6 | 1800.3 | 1475.1 | 1460.6 | 1590.2 | 1789.7 | 1586.4 |
| 50° | 2261.4 | 2211.7 | 2164.9 | 2242.2 | 2306.4 | 1896.4 | 1570.6 | 1572.8 | 1738.0 | 1946.0 | 1699.9 |
| 52.5° | 2130.2 | 2119.6 | 2193.9 | 2315.3 | 2407.9 | 1972.4 | 1679.4 | 1688.6 | 1927.0 | 2125.7 | 1824.4 |
| 55° | 2084.3 | 2072.3 | 2158.1 | 2289.8 | 2421.8 | 2035.3 | 1797.4 | 1814.0 | 2155.8 | 2315.0 | 1945.8 |
| 57.5° | 2196.3 | 2169.5 | 2175.2 | 2277.7 | 2388.2 | 2104.1 | 1926.0 | 1959.6 | 2404.3 | 2480.6 | 2023.8 |
| 60° | 2509.0 | 2452.0 | 2343.5 | 2340.9 | 2406.3 | 2207.4 | 2074.5 | 2115.6 | 2662.5 | 2559.8 | 1993.3 |
| 62.5° | 2947.8 | 2890.7 | 2687.5 | 2555.1 | 2545.4 | 2377.9 | 2257.1 | 2268.0 | 2811.8 | 2452.5 | 1807.7 |
| 65° | 3422.6 | 3371.6 | 3144.5 | 2957.8 | 2867.7 | 2660.2 | 2469.1 | 2336.0 | 2762.9 | 2157.2 | 1482.9 |
| 67.5° | 3999.1 | 3944.3 | 3749.2 | 3576.7 | 3490.1 | 3116.0 | 2618.0 | 2270.8 | 2453.4 | 1671.1 | 1066.0 |
| 70° | 4402.2 | 4346.3 | 4269.4 | 4409.2 | 4621.2 | 3773.3 | 2637.2 | 2005.9 | 1832.5 | 1110.8 | 641.6 |
| 72.5° | 3876.2 | 3850.1 | 3990.5 | 4579.0 | 5462.1 | 4172.1 | 2383.9 | 1460.6 | 1064.2 | 589.6 | 371.3 |
| 73° | 3551.4 | 3545.7 | 3785.0 | 4459.9 | 5468.3 | 4110.7 | 2272.8 | 1357.5 | 912.8 | 521.6 | 339.5 |
| 75° | 1603.7 | 1649.8 | 2174.4 | 3406.6 | 4750.9 | 3387.2 | 1599.7 | 778.7 | 515.6 | 360.4 | 256.2 |
| 77.5° | 385.4 | 401.5 | 680.3 | 1617.8 | 3000.2 | 2018.6 | 724.8 | 385.1 | 329.7 | 254.5 | 187.0 |
| 80° | 164.1 | 169.6 | 261.9 | 597.7 | 1412.7 | 812.8 | 334.0 | 258.0 | 228.1 | 177.7 | 131.2 |
| 82.5° | 91.3 | 96.9 | 148.6 | 271.2 | 570.2 | 277.1 | 203.7 | 179.7 | 150.0 | 107.0 | 85.2 |
| 85° | 51.7 | 54.7 | 87.0 | 151.5 | 241.6 | 111.3 | 122.0 | 119.4 | 84.6 | 55.1 | 42.0 |
| 87.5° | 24.4 | 26.4 | 42.0 | 70.2 | 94.7 | 43.6 | 62.0 | 68.4 | 53.1 | 33.5 | 21.7 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 | 901.9 |
| 2.5° | 901.3 | 906.4 | 912.5 | 915.6 | 918.4 | 921.9 | 925.3 | 925.3 | 926.0 | 926.2 |
| 5° | 895.0 | 905.6 | 915.1 | 919.1 | 920.0 | 920.0 | 919.1 | 914.5 | 910.4 | 912.1 |
| 7.5° | 881.7 | 897.2 | 905.3 | 903.9 | 892.9 | 880.2 | 869.6 | 856.9 | 850.2 | 849.1 |
| 10° | 862.8 | 880.6 | 882.0 | 867.8 | 840.8 | 813.8 | 791.3 | 769.6 | 759.2 | 756.6 |
| 12.5° | 841.9 | 858.2 | 849.1 | 819.6 | 776.1 | 736.9 | 708.5 | 686.3 | 676.7 | 674.0 |
| 15° | 825.0 | 836.1 | 812.8 | 766.4 | 711.8 | 670.2 | 646.8 | 630.4 | 623.6 | 621.4 |
| 17.5° | 816.1 | 818.4 | 775.9 | 713.1 | 655.0 | 620.4 | 605.7 | 598.0 | 595.3 | 594.0 |
| 20° | 820.3 | 804.3 | 740.7 | 663.4 | 608.6 | 584.2 | 580.8 | 578.8 | 578.1 | 577.3 |
| 22.5° | 841.9 | 800.0 | 708.1 | 616.3 | 567.9 | 557.3 | 560.2 | 559.9 | 559.3 | 558.7 |
| 25° | 880.2 | 803.8 | 676.7 | 571.6 | 533.8 | 531.3 | 536.6 | 536.6 | 534.3 | 534.3 |
| 27.5° | 931.2 | 811.4 | 641.3 | 529.1 | 502.7 | 503.1 | 507.1 | 505.8 | 503.3 | 501.6 |
| 30° | 993.0 | 816.3 | 600.0 | 491.0 | 473.8 | 472.6 | 473.8 | 468.8 | 461.1 | 460.6 |
| 32.5° | 1056.4 | 810.4 | 552.1 | 457.1 | 443.0 | 440.4 | 439.6 | 432.8 | 423.8 | 421.2 |
| 35° | 1113.9 | 788.3 | 503.3 | 430.1 | 413.8 | 408.0 | 412.1 | 409.7 | 401.7 | 399.7 |
| 37.5° | 1155.8 | 747.2 | 459.5 | 406.4 | 392.7 | 391.4 | 393.9 | 394.9 | 385.4 | 383.3 |
| 40° | 1184.0 | 691.5 | 421.8 | 386.2 | 388.7 | 383.3 | 374.8 | 368.8 | 365.9 | 365.0 |
| 42.5° | 1206.6 | 633.6 | 390.3 | 376.7 | 389.7 | 373.9 | 355.2 | 345.5 | 350.7 | 352.9 |
| 45° | 1232.7 | 577.0 | 363.9 | 365.0 | 385.4 | 362.9 | 341.7 | 332.3 | 334.3 | 334.9 |
| 47.5° | 1268.5 | 508.3 | 335.4 | 346.0 | 371.0 | 355.5 | 333.5 | 319.9 | 310.5 | 306.1 |
| 50° | 1318.3 | 426.6 | 305.9 | 324.7 | 356.9 | 350.1 | 320.5 | 306.1 | 288.6 | 284.7 |
| 52.5° | 1352.7 | 350.7 | 281.4 | 307.0 | 344.3 | 339.2 | 310.2 | 291.5 | 273.2 | 269.8 |
| 55° | 1334.1 | 291.2 | 260.2 | 287.2 | 327.7 | 325.6 | 301.7 | 276.6 | 262.2 | 259.4 |
| 57.5° | 1240.6 | 253.6 | 243.9 | 268.6 | 307.3 | 314.1 | 290.2 | 264.0 | 253.6 | 251.6 |
| 60° | 1062.9 | 230.1 | 233.6 | 255.9 | 290.7 | 302.6 | 278.7 | 257.1 | 250.2 | 248.8 |
| 62.5° | 824.6 | 214.3 | 225.8 | 246.8 | 277.8 | 294.6 | 272.2 | 256.2 | 253.6 | 252.0 |
| 65° | 590.8 | 201.7 | 217.5 | 237.6 | 266.0 | 287.2 | 270.0 | 255.1 | 255.7 | 254.2 |
| 67.5° | 401.5 | 190.5 | 207.5 | 227.2 | 254.5 | 280.6 | 266.8 | 251.0 | 258.3 | 256.6 |
| 70° | 280.9 | 179.7 | 195.7 | 214.1 | 240.1 | 271.5 | 261.0 | 245.1 | 244.5 | 237.6 |
| 72.5° | 219.2 | 165.3 | 179.7 | 195.7 | 221.8 | 258.5 | 249.5 | 231.6 | 222.2 | 215.0 |
| 73° | 209.1 | 161.9 | 175.6 | 191.7 | 217.7 | 255.4 | 246.4 | 227.8 | 217.2 | 210.7 |
| 75° | 173.1 | 147.0 | 159.4 | 173.9 | 200.6 | 240.4 | 231.0 | 210.9 | 197.4 | 193.3 |
| 77.5° | 136.1 | 125.8 | 137.7 | 150.6 | 176.7 | 218.6 | 208.0 | 188.9 | 181.4 | 178.0 |
| 80° | 100.7 | 104.2 | 114.8 | 126.2 | 153.3 | 195.4 | 185.9 | 166.7 | 200.1 | 191.7 |
| 82.5° | 70.8 | 79.0 | 88.7 | 99.1 | 128.5 | 172.7 | 161.2 | 141.5 | 146.3 | 121.7 |
| 85° | 42.0 | 51.7 | 60.8 | 69.7 | 92.6 | 143.2 | 133.2 | 112.7 | 92.3 | 88.2 |
| 87.5° | 24.4 | 28.7 | 31.4 | 40.5 | 63.7 | 107.8 | 93.9 | 83.5 | 47.9 | 32.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)