

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: P268169

Luminaire Tested: **GAN-AF-01-LED-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5702.4 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

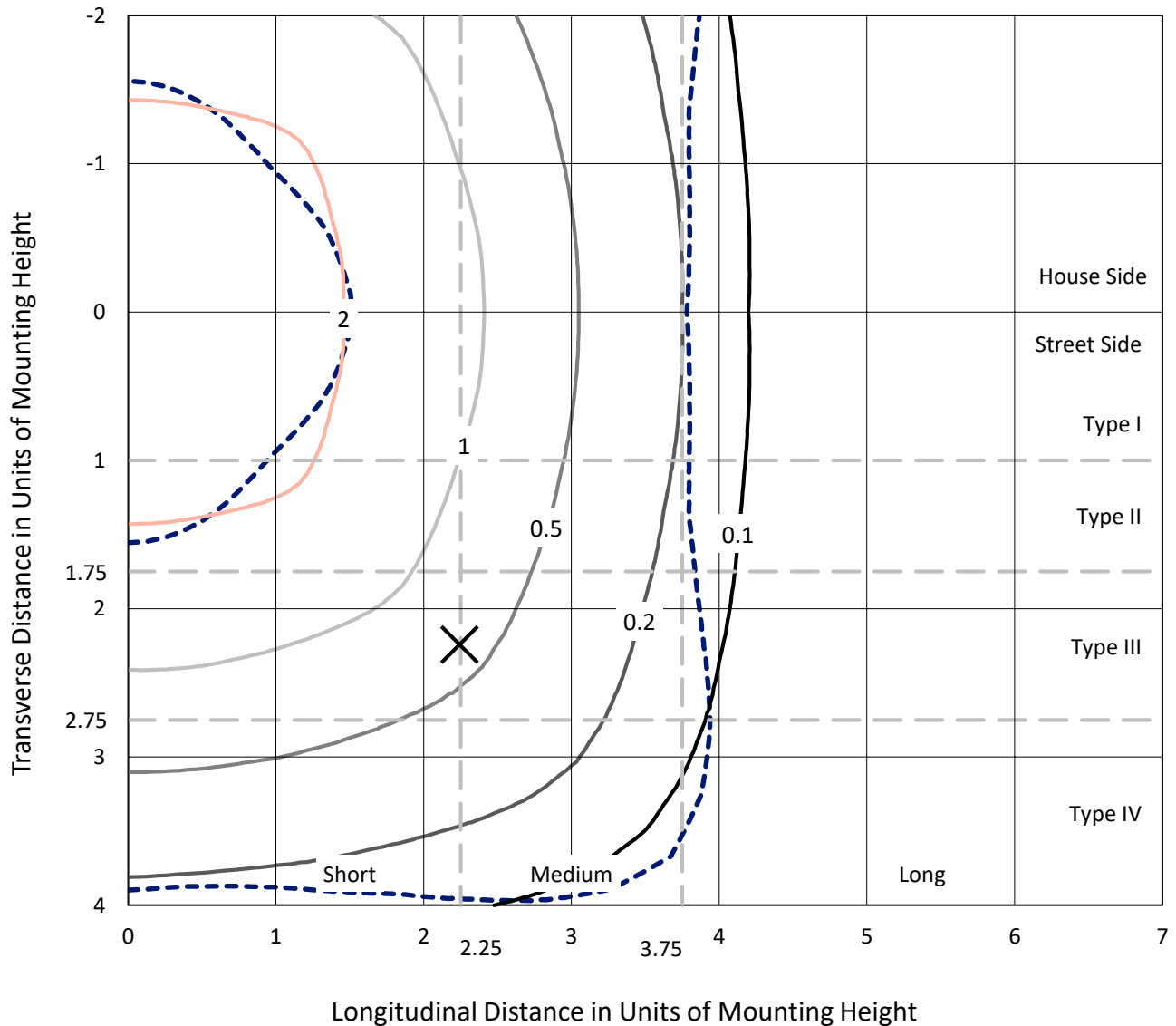
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

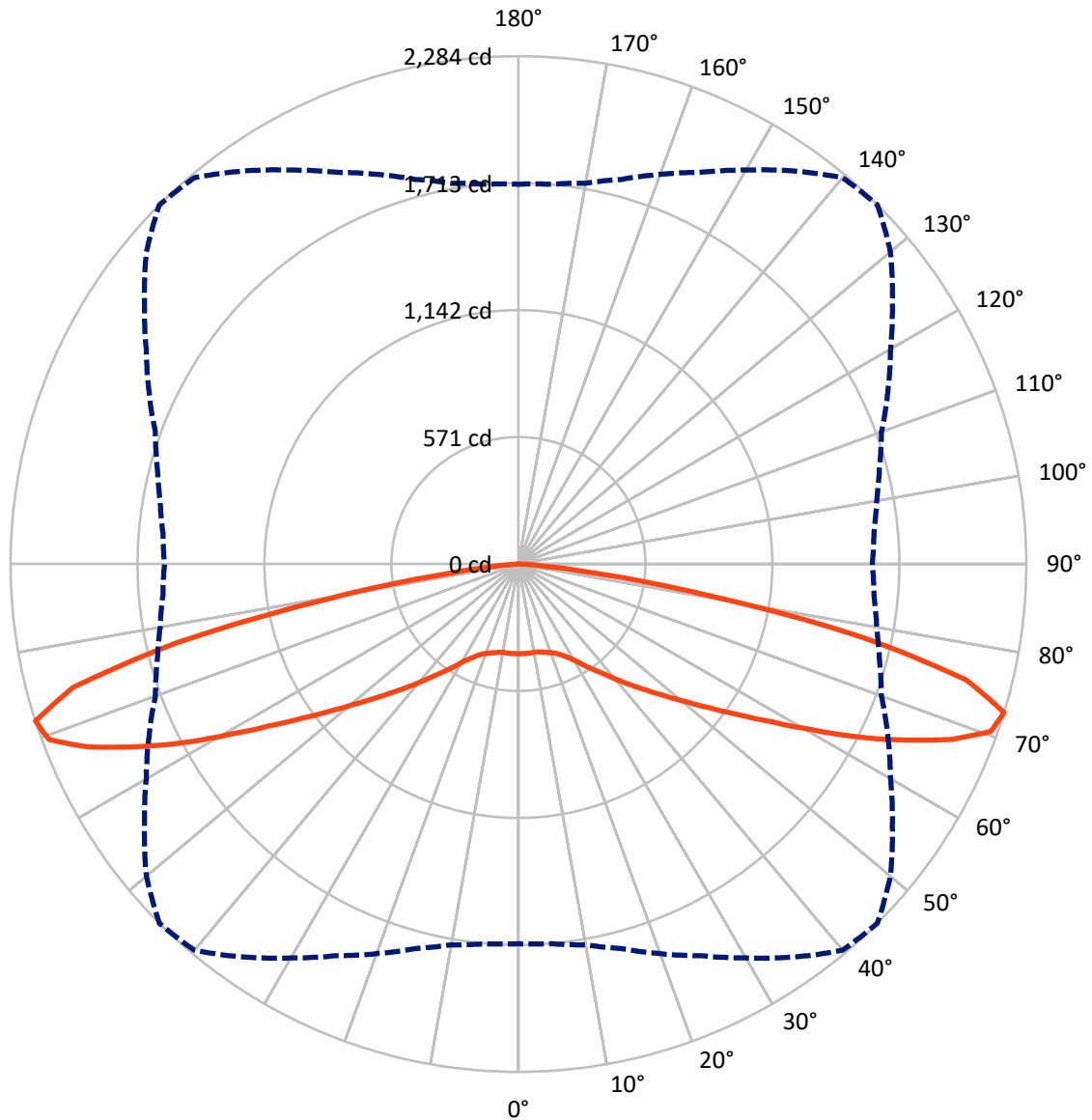
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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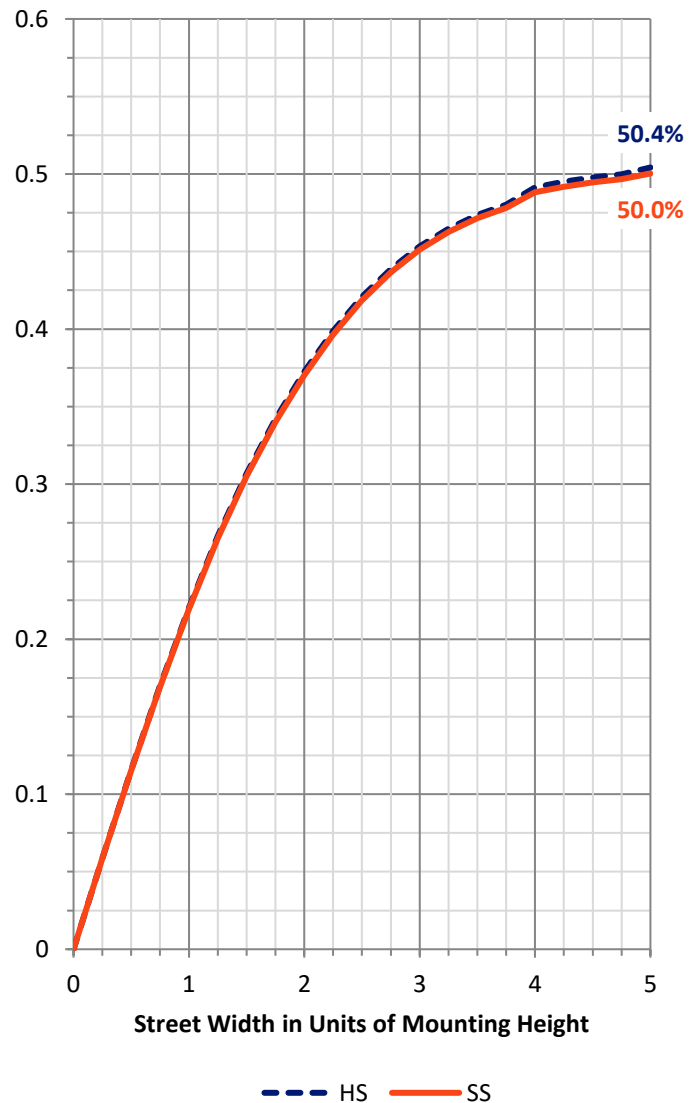
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2851.2 | 0.0 | 2851.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2851.2 | 0.0 | 2851.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5702.4 | 0.0 | 5702.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.6 | 0.7 |
| 10°-20° | 117.1 | 2.1 |
| 20°-30° | 214.0 | 3.8 |
| 30°-40° | 369.0 | 6.5 |
| 40°-50° | 630.8 | 11.1 |
| 50°-60° | 1022.4 | 17.9 |
| 60°-70° | 1696.2 | 29.7 |
| 70°-80° | 1493.9 | 26.2 |
| 80°-90° | 120.5 | 2.1 |
| 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° | 5702.4 | 100.0 |
| 0°-180° | 5702.4 | 100.0 |



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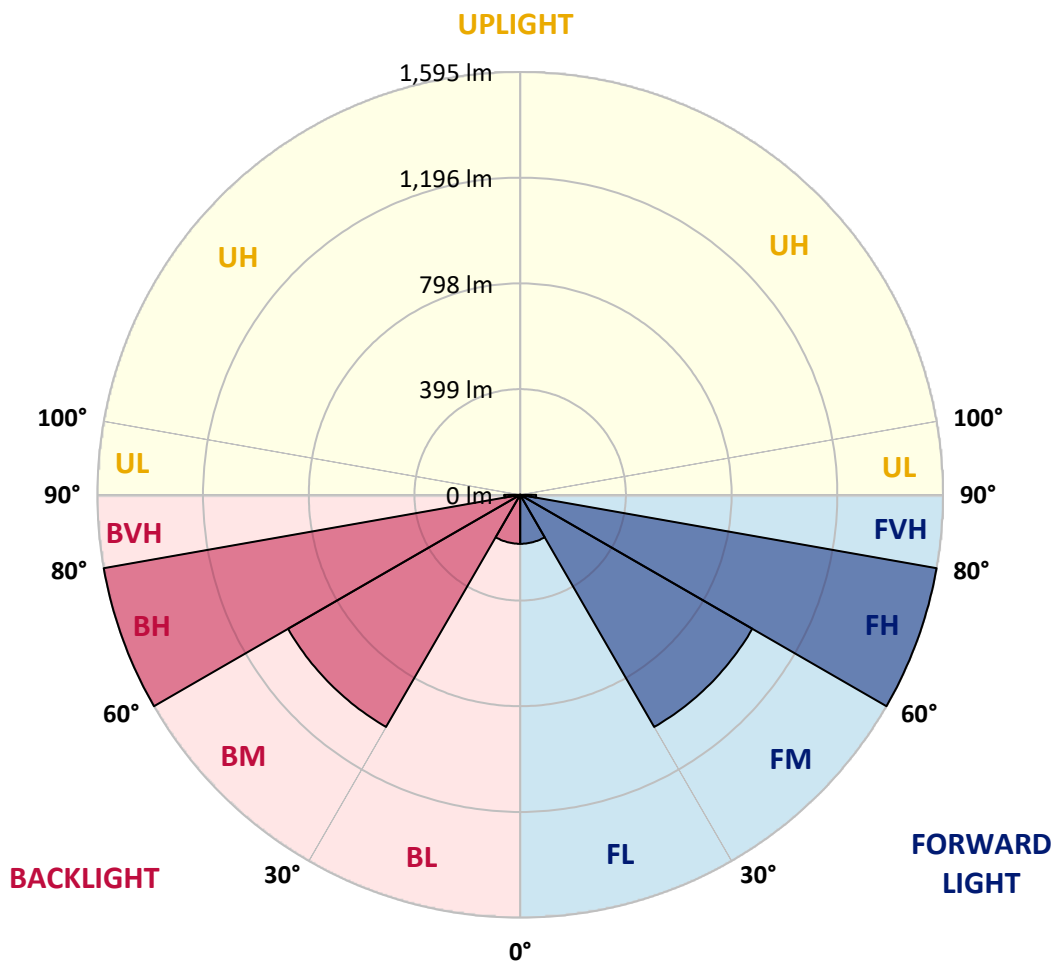
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 184.8 | 3.2 | | | |
| FM | (30°-60°) | 1011.1 | 17.7 | | | |
| FH | (60°-80°) | 1595.1 | 28.0 | | | G1/1800 |
| FVH | (80°-90°) | 60.2 | 1.1 | | | G1/100 |
| BL | (0°-30°) | 184.8 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 1011.1 | 17.7 | B2/2500 | | |
| BH | (60°-80°) | 1595.1 | 28.0 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 60.2 | 1.1 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 |
| 2.5° | 403.8 | 404.1 | 404.3 | 404.1 | 404.1 | 403.8 | 403.6 | 403.8 | 403.6 | 403.0 | 403.2 |
| 5° | 405.1 | 405.7 | 405.7 | 405.1 | 405.3 | 405.1 | 404.5 | 404.9 | 404.3 | 403.6 | 403.6 |
| 7.5° | 406.8 | 406.9 | 406.9 | 406.5 | 406.8 | 406.2 | 405.7 | 405.3 | 404.9 | 403.8 | 403.0 |
| 10° | 409.1 | 409.3 | 409.1 | 408.5 | 408.5 | 407.7 | 406.5 | 405.9 | 404.9 | 403.2 | 402.5 |
| 12.5° | 411.7 | 412.0 | 411.7 | 411.2 | 410.9 | 409.5 | 408.5 | 407.7 | 406.9 | 405.7 | 404.3 |
| 15° | 415.3 | 415.8 | 415.3 | 414.3 | 413.5 | 412.4 | 412.0 | 412.2 | 412.4 | 411.5 | 410.0 |
| 17.5° | 422.2 | 422.5 | 421.7 | 419.2 | 418.3 | 417.2 | 417.2 | 417.7 | 418.5 | 417.9 | 416.6 |
| 20° | 434.7 | 433.9 | 432.1 | 429.2 | 428.0 | 426.1 | 425.7 | 426.1 | 426.1 | 425.7 | 424.8 |
| 22.5° | 450.4 | 449.8 | 447.4 | 443.9 | 442.0 | 441.0 | 439.5 | 438.1 | 437.8 | 437.0 | 435.9 |
| 25° | 469.3 | 468.9 | 466.1 | 462.9 | 461.5 | 460.3 | 459.0 | 457.1 | 455.6 | 453.7 | 452.7 |
| 27.5° | 493.3 | 492.2 | 488.0 | 486.4 | 484.6 | 483.8 | 482.0 | 480.0 | 478.6 | 476.3 | 474.9 |
| 30° | 519.7 | 519.7 | 516.3 | 515.7 | 515.7 | 513.9 | 511.9 | 508.3 | 505.8 | 503.5 | 502.7 |
| 32.5° | 546.1 | 546.3 | 542.9 | 544.1 | 544.8 | 546.1 | 546.6 | 545.4 | 543.7 | 543.5 | 541.9 |
| 35° | 584.3 | 583.2 | 579.9 | 580.7 | 580.3 | 580.0 | 580.0 | 583.0 | 583.4 | 584.0 | 580.8 |
| 37.5° | 631.6 | 631.6 | 628.3 | 628.3 | 626.7 | 625.1 | 623.0 | 624.9 | 627.6 | 628.5 | 626.4 |
| 40° | 685.8 | 687.7 | 683.4 | 683.2 | 683.7 | 678.7 | 676.3 | 679.2 | 681.0 | 684.1 | 681.9 |
| 42.5° | 749.5 | 748.3 | 744.1 | 743.5 | 740.7 | 739.1 | 737.0 | 739.3 | 742.3 | 744.3 | 745.1 |
| 45° | 810.8 | 809.7 | 805.1 | 805.1 | 802.1 | 800.7 | 801.8 | 805.8 | 807.0 | 810.0 | 812.8 |
| 47.5° | 871.1 | 869.9 | 866.8 | 868.0 | 868.3 | 870.6 | 874.1 | 877.7 | 881.3 | 885.3 | 886.6 |
| 50° | 932.9 | 933.2 | 929.7 | 932.9 | 936.8 | 943.4 | 952.6 | 958.5 | 966.1 | 971.1 | 972.7 |
| 52.5° | 989.2 | 990.2 | 993.9 | 1001.3 | 1009.1 | 1021.8 | 1037.5 | 1052.2 | 1064.8 | 1073.0 | 1072.5 |
| 55° | 1056.6 | 1058.3 | 1067.0 | 1079.7 | 1092.5 | 1111.8 | 1135.1 | 1161.0 | 1181.9 | 1193.9 | 1186.3 |
| 57.5° | 1143.0 | 1146.3 | 1156.3 | 1173.2 | 1192.4 | 1217.5 | 1249.5 | 1288.3 | 1320.8 | 1336.9 | 1324.7 |
| 60° | 1261.4 | 1263.5 | 1275.6 | 1294.4 | 1317.4 | 1348.4 | 1391.1 | 1443.4 | 1489.2 | 1510.7 | 1496.5 |
| 62.5° | 1417.5 | 1421.5 | 1431.2 | 1450.3 | 1473.8 | 1509.2 | 1561.2 | 1626.6 | 1683.6 | 1713.3 | 1681.4 |
| 65° | 1604.1 | 1616.6 | 1624.7 | 1644.1 | 1665.9 | 1703.5 | 1757.9 | 1828.0 | 1889.1 | 1908.7 | 1871.9 |
| 67.5° | 1788.6 | 1799.7 | 1813.8 | 1836.0 | 1858.2 | 1900.4 | 1950.8 | 2018.9 | 2086.0 | 2103.8 | 2046.6 |
| 70° | 1869.6 | 1875.8 | 1897.7 | 1928.1 | 1970.7 | 2020.4 | 2078.7 | 2155.2 | 2238.2 | 2252.9 | 2180.1 |
| 72.5° | 1707.6 | 1713.8 | 1738.5 | 1790.1 | 1864.3 | 1943.3 | 2045.0 | 2157.2 | 2267.1 | 2283.5 | 2183.3 |
| 75° | 1291.6 | 1281.3 | 1317.6 | 1385.9 | 1486.1 | 1596.2 | 1738.5 | 1899.2 | 2058.0 | 2078.7 | 1959.3 |
| 77.5° | 667.4 | 666.2 | 693.6 | 778.3 | 897.9 | 1023.2 | 1179.8 | 1361.7 | 1517.0 | 1579.7 | 1482.5 |
| 80° | 188.0 | 190.1 | 203.2 | 245.3 | 315.1 | 405.7 | 528.1 | 698.3 | 825.5 | 890.3 | 836.0 |
| 82.5° | 73.8 | 79.5 | 84.5 | 92.3 | 101.5 | 114.9 | 153.3 | 228.1 | 306.1 | 365.6 | 299.4 |
| 85° | 26.4 | 28.2 | 40.1 | 47.3 | 48.1 | 50.8 | 57.9 | 67.6 | 81.3 | 97.0 | 79.8 |
| 87.5° | 9.9 | 11.0 | 12.8 | 21.2 | 20.9 | 19.1 | 23.3 | 24.3 | 18.3 | 16.8 | 20.8 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 | 403.8 |
| 2.5° | 402.8 | 403.0 | 403.0 | 403.2 | 403.6 | 403.6 | 404.1 | 404.1 |
| 5° | 403.0 | 403.0 | 402.5 | 402.8 | 402.5 | 402.5 | 402.8 | 402.8 |
| 7.5° | 402.5 | 402.3 | 401.7 | 401.5 | 401.0 | 401.0 | 401.0 | 401.0 |
| 10° | 401.7 | 401.5 | 401.0 | 400.6 | 400.5 | 400.5 | 400.5 | 400.5 |
| 12.5° | 403.8 | 403.0 | 402.5 | 402.3 | 402.3 | 402.3 | 402.3 | 402.3 |
| 15° | 409.3 | 407.6 | 406.2 | 406.2 | 406.5 | 406.9 | 406.9 | 407.6 |
| 17.5° | 416.2 | 413.9 | 412.7 | 411.7 | 412.2 | 413.0 | 413.5 | 413.9 |
| 20° | 424.2 | 423.2 | 421.3 | 420.2 | 420.2 | 421.3 | 421.8 | 422.2 |
| 22.5° | 435.5 | 434.7 | 433.9 | 432.7 | 432.7 | 433.2 | 434.2 | 434.2 |
| 25° | 452.1 | 451.7 | 451.2 | 450.1 | 449.8 | 449.8 | 450.4 | 450.9 |
| 27.5° | 473.1 | 473.3 | 472.9 | 472.6 | 471.8 | 471.6 | 472.4 | 472.1 |
| 30° | 501.2 | 502.4 | 503.7 | 502.7 | 501.3 | 500.5 | 499.7 | 498.7 |
| 32.5° | 539.1 | 537.5 | 536.4 | 534.6 | 532.2 | 530.1 | 528.6 | 526.8 |
| 35° | 574.8 | 572.2 | 571.2 | 572.8 | 572.5 | 571.2 | 569.3 | 567.8 |
| 37.5° | 618.8 | 618.3 | 618.8 | 621.6 | 621.2 | 622.4 | 618.8 | 618.6 |
| 40° | 674.3 | 674.7 | 678.4 | 681.9 | 683.7 | 685.4 | 683.4 | 681.4 |
| 42.5° | 738.5 | 738.3 | 739.7 | 744.3 | 747.5 | 749.5 | 745.1 | 744.7 |
| 45° | 806.6 | 804.7 | 805.8 | 809.7 | 812.8 | 815.2 | 810.2 | 810.2 |
| 47.5° | 881.3 | 878.3 | 874.9 | 879.4 | 881.1 | 882.8 | 878.8 | 877.5 |
| 50° | 964.8 | 958.3 | 950.9 | 952.8 | 952.8 | 952.3 | 947.4 | 947.1 |
| 52.5° | 1060.5 | 1048.5 | 1035.1 | 1030.1 | 1027.3 | 1024.2 | 1015.5 | 1011.4 |
| 55° | 1170.6 | 1152.6 | 1131.7 | 1118.8 | 1112.1 | 1103.5 | 1089.0 | 1085.2 |
| 57.5° | 1299.4 | 1271.1 | 1235.0 | 1219.3 | 1204.2 | 1190.1 | 1174.1 | 1169.7 |
| 60° | 1451.8 | 1410.2 | 1362.4 | 1333.4 | 1316.8 | 1303.3 | 1286.8 | 1286.1 |
| 62.5° | 1621.8 | 1556.1 | 1502.1 | 1475.8 | 1463.9 | 1451.8 | 1436.1 | 1438.1 |
| 65° | 1794.8 | 1726.2 | 1675.3 | 1654.3 | 1643.0 | 1633.1 | 1617.4 | 1619.7 |
| 67.5° | 1965.2 | 1902.3 | 1846.5 | 1824.7 | 1812.2 | 1799.7 | 1785.6 | 1787.8 |
| 70° | 2087.7 | 2009.4 | 1946.6 | 1898.5 | 1868.5 | 1834.5 | 1812.5 | 1807.0 |
| 72.5° | 2052.5 | 1932.1 | 1832.4 | 1737.0 | 1680.9 | 1635.5 | 1604.6 | 1591.2 |
| 75° | 1776.4 | 1611.6 | 1483.5 | 1366.3 | 1300.3 | 1246.8 | 1207.9 | 1183.4 |
| 77.5° | 1319.3 | 1134.0 | 982.6 | 847.6 | 740.9 | 669.2 | 618.8 | 586.1 |
| 80° | 722.1 | 549.3 | 401.5 | 282.2 | 207.4 | 172.4 | 152.3 | 142.6 |
| 82.5° | 224.9 | 145.2 | 107.0 | 92.3 | 85.8 | 82.1 | 76.0 | 66.5 |
| 85° | 71.7 | 62.8 | 58.3 | 55.8 | 53.1 | 46.4 | 31.9 | 29.0 |
| 87.5° | 27.7 | 28.4 | 28.2 | 26.7 | 27.2 | 19.7 | 15.7 | 13.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)