

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: P318715

Luminaire Tested: **GAN-SA1B-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6019 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44
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

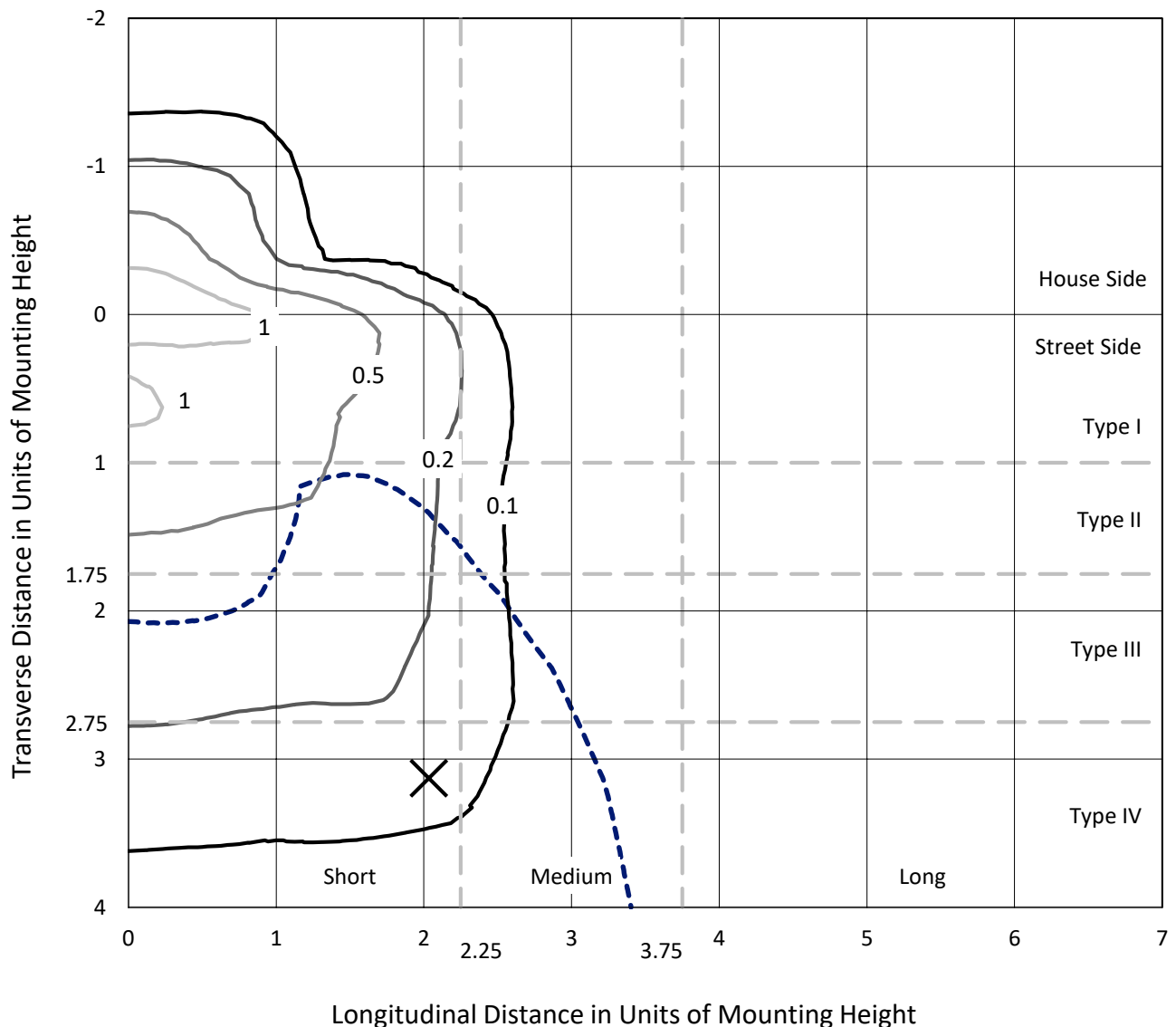




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Iso-Footcandle Lines of Horizontal Illumination

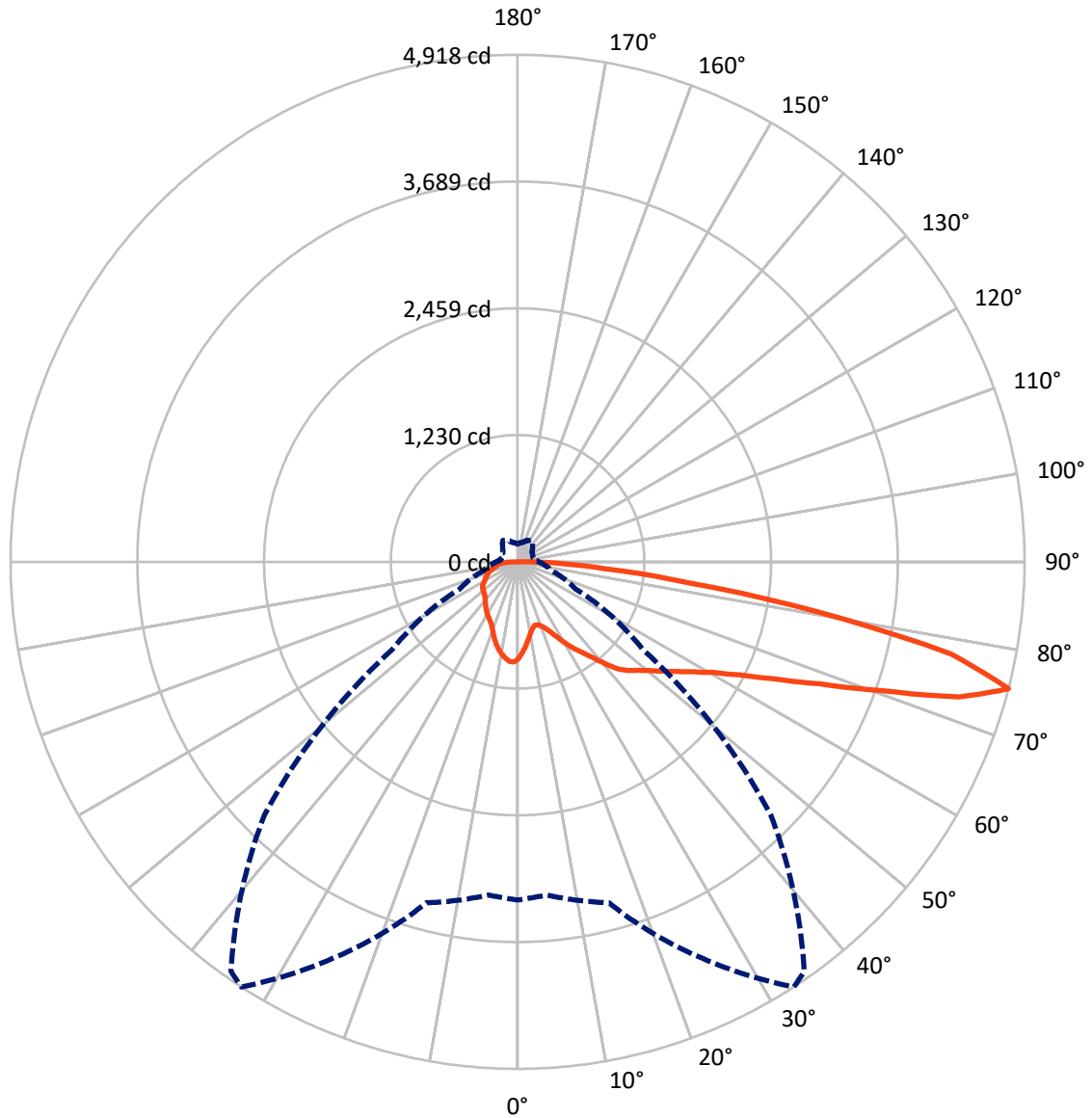
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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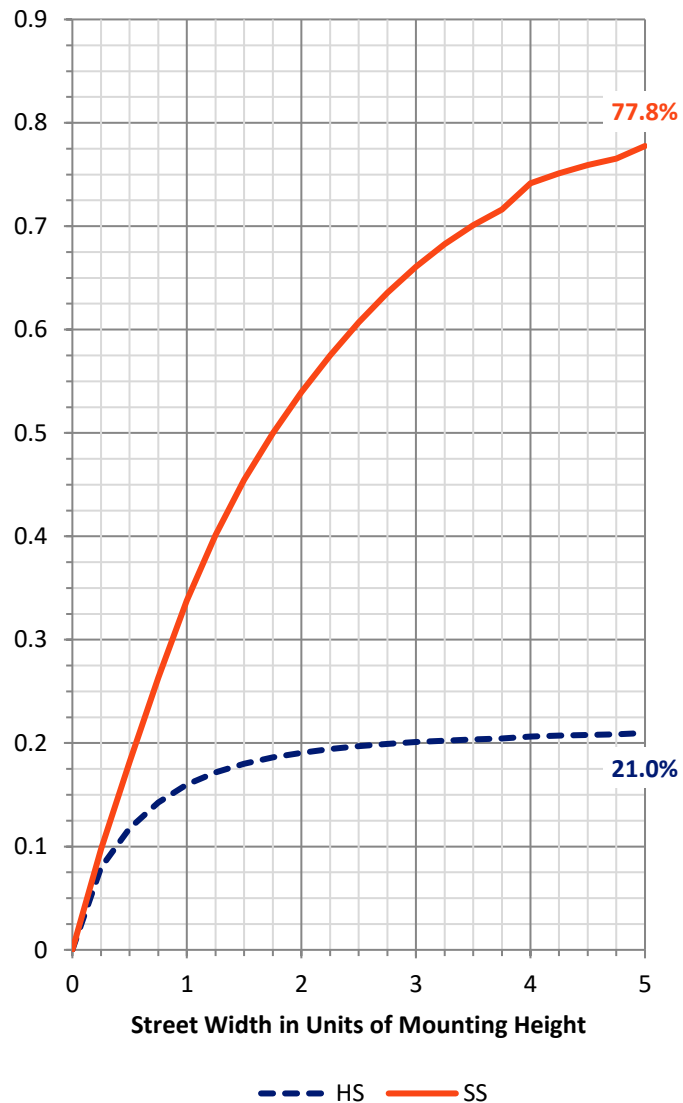
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1292.4 | 0.0 | 1292.4 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 4726.6 | 0.0 | 4726.6 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 6019.0 | 0.0 | 6019.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.1 | 1.4 |
| 10°-20° | 230.4 | 3.8 |
| 20°-30° | 376.3 | 6.3 |
| 30°-40° | 560.5 | 9.3 |
| 40°-50° | 803.9 | 13.4 |
| 50°-60° | 1103.6 | 18.3 |
| 60°-70° | 1381.6 | 23.0 |
| 70°-80° | 1249.9 | 20.8 |
| 80°-90° | 227.7 | 3.8 |
| 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° | 6019.0 | 100.0 |
| 0°-180° | 6019.0 | 100.0 |

Coefficient of Utilization

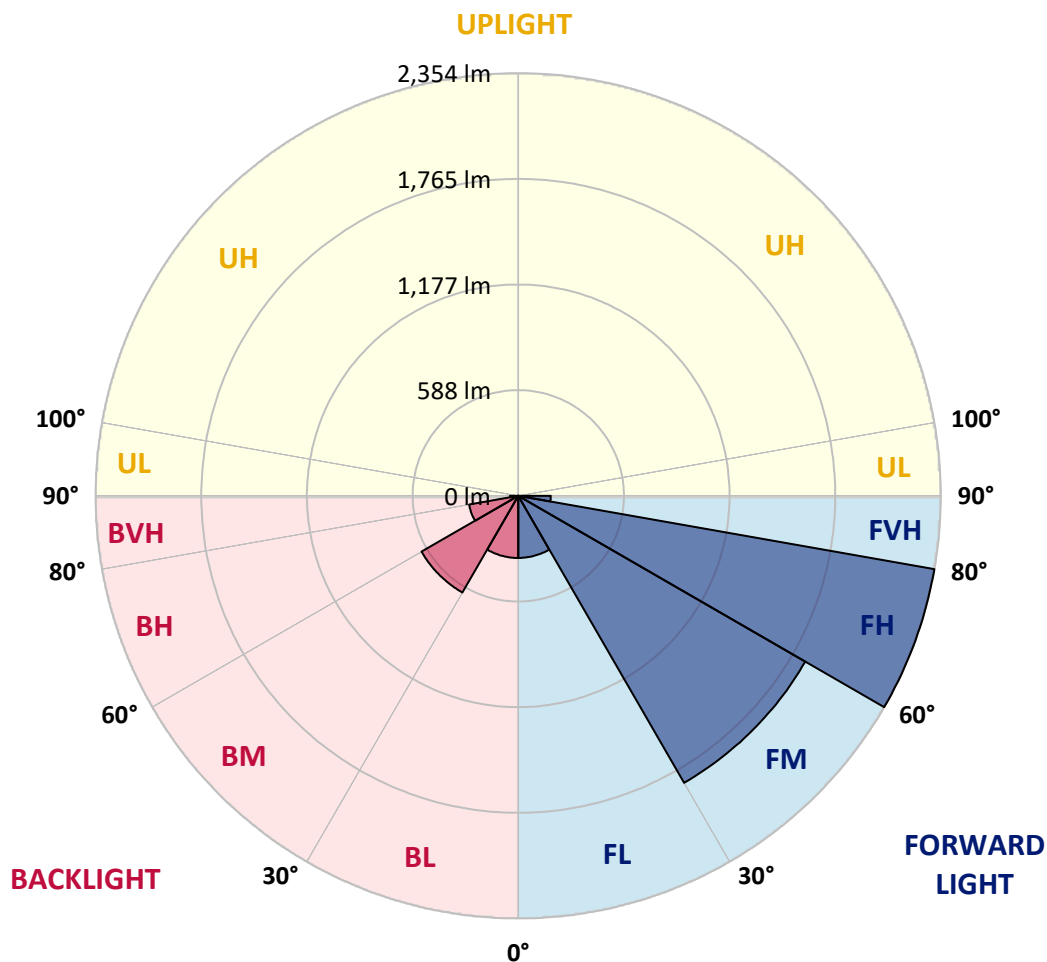


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 345.7 | 5.7 | | | |
| FM (30°-60°) | 1845.9 | 30.7 | | | |
| FH (60°-80°) | 2353.6 | 39.1 | | | G2/5000 |
| FVH (80°-90°) | 181.3 | 3.0 | | | G2/225 |
| BL (0°-30°) | 346.2 | 5.8 | B1/500 | | |
| BM (30°-60°) | 622.0 | 10.3 | B1/1000 | | |
| BH (60°-80°) | 277.9 | 4.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 46.4 | 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° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 |
| 2.5° | 873.6 | 870.3 | 876.6 | 877.4 | 882.8 | 884.9 | 892.4 | 904.0 | 913.6 | 924.6 | 934.6 |
| 5° | 794.4 | 792.1 | 800.9 | 807.1 | 819.0 | 824.0 | 841.6 | 866.4 | 888.4 | 913.4 | 936.0 |
| 7.5° | 719.2 | 717.9 | 727.7 | 741.8 | 755.6 | 762.4 | 793.0 | 828.9 | 865.7 | 906.1 | 940.8 |
| 10° | 655.8 | 655.3 | 664.7 | 678.6 | 698.8 | 706.5 | 746.0 | 793.4 | 845.0 | 900.5 | 948.9 |
| 12.5° | 620.2 | 621.7 | 626.0 | 637.7 | 656.4 | 664.1 | 707.9 | 763.7 | 827.5 | 898.6 | 960.8 |
| 15° | 628.9 | 631.2 | 623.7 | 623.3 | 636.6 | 642.7 | 683.8 | 742.5 | 815.0 | 901.7 | 978.0 |
| 17.5° | 666.2 | 666.6 | 646.8 | 634.3 | 642.4 | 645.6 | 676.3 | 730.4 | 807.7 | 908.8 | 999.6 |
| 20° | 718.5 | 717.5 | 682.6 | 661.8 | 666.2 | 667.0 | 686.9 | 730.6 | 807.1 | 921.1 | 1027.7 |
| 22.5° | 788.0 | 780.3 | 733.3 | 705.0 | 704.0 | 702.7 | 714.2 | 746.0 | 816.3 | 941.0 | 1061.2 |
| 25° | 878.6 | 871.4 | 806.7 | 768.0 | 759.7 | 756.6 | 758.3 | 778.8 | 834.4 | 962.4 | 1098.6 |
| 27.5° | 979.5 | 966.8 | 904.4 | 849.7 | 832.5 | 828.1 | 818.1 | 825.2 | 854.1 | 983.0 | 1143.1 |
| 30° | 1063.9 | 1057.0 | 1002.6 | 937.7 | 917.3 | 911.1 | 884.9 | 877.2 | 882.6 | 1011.1 | 1199.2 |
| 32.5° | 1111.1 | 1106.5 | 1073.5 | 1021.1 | 1002.1 | 993.4 | 956.4 | 941.0 | 928.3 | 1055.4 | 1275.3 |
| 35° | 1168.3 | 1165.3 | 1145.4 | 1107.3 | 1079.3 | 1070.1 | 1041.4 | 1025.4 | 992.8 | 1116.3 | 1373.7 |
| 37.5° | 1241.0 | 1237.9 | 1238.3 | 1207.6 | 1174.1 | 1165.6 | 1146.6 | 1129.8 | 1076.4 | 1196.3 | 1480.5 |
| 40° | 1323.4 | 1317.3 | 1315.0 | 1313.6 | 1292.4 | 1287.6 | 1277.6 | 1254.8 | 1181.2 | 1292.0 | 1586.0 |
| 42.5° | 1447.3 | 1425.9 | 1380.1 | 1397.4 | 1418.4 | 1415.9 | 1424.0 | 1391.1 | 1297.6 | 1405.1 | 1688.9 |
| 45° | 1566.8 | 1531.7 | 1452.7 | 1456.4 | 1502.4 | 1516.3 | 1577.0 | 1553.7 | 1423.8 | 1529.0 | 1795.3 |
| 47.5° | 1621.3 | 1594.7 | 1527.5 | 1527.7 | 1573.3 | 1602.2 | 1735.2 | 1718.6 | 1556.4 | 1669.7 | 1925.3 |
| 50° | 1682.2 | 1655.6 | 1595.3 | 1618.0 | 1657.7 | 1688.5 | 1888.1 | 1879.5 | 1682.6 | 1823.8 | 2081.0 |
| 52.5° | 1748.8 | 1703.6 | 1665.4 | 1705.9 | 1761.6 | 1797.4 | 2041.1 | 2017.8 | 1798.4 | 1978.9 | 2260.0 |
| 55° | 1749.6 | 1737.3 | 1766.4 | 1796.2 | 1879.5 | 1923.4 | 2201.4 | 2139.8 | 1892.8 | 2131.3 | 2405.8 |
| 57.5° | 1849.2 | 1829.2 | 1891.0 | 1904.7 | 2013.6 | 2063.1 | 2360.8 | 2246.1 | 1988.9 | 2248.2 | 2484.3 |
| 60° | 1981.0 | 1963.9 | 2014.5 | 2050.6 | 2179.5 | 2245.7 | 2531.1 | 2355.2 | 2064.4 | 2336.3 | 2480.6 |
| 62.5° | 2208.7 | 2189.3 | 2188.7 | 2239.4 | 2413.0 | 2490.0 | 2722.2 | 2462.3 | 2094.3 | 2353.8 | 2374.8 |
| 65° | 2541.9 | 2511.2 | 2453.2 | 2477.3 | 2735.5 | 2812.2 | 2935.7 | 2539.9 | 2054.8 | 2260.2 | 2102.2 |
| 67.5° | 2866.3 | 2865.2 | 2793.9 | 2843.4 | 3161.3 | 3222.8 | 3179.0 | 2547.6 | 1931.5 | 1934.4 | 1618.6 |
| 70° | 3189.6 | 3193.7 | 3181.7 | 3353.8 | 3736.6 | 3800.6 | 3438.0 | 2444.2 | 1654.4 | 1397.0 | 969.7 |
| 72.5° | 3445.7 | 3444.7 | 3505.4 | 3949.3 | 4483.2 | 4468.9 | 3656.3 | 2131.1 | 1187.8 | 754.1 | 463.4 |
| 75° | 3279.8 | 3243.6 | 3424.5 | 4244.1 | 4918.4 | 4848.3 | 3470.7 | 1486.6 | 616.5 | 343.3 | 249.5 |
| 77.5° | 2139.2 | 2173.5 | 2439.0 | 3506.0 | 4302.1 | 4216.9 | 2546.3 | 693.6 | 290.5 | 225.2 | 180.9 |
| 80° | 774.7 | 810.9 | 1142.1 | 1986.0 | 2964.0 | 2950.1 | 1253.9 | 285.0 | 196.5 | 170.1 | 131.8 |
| 82.5° | 266.5 | 279.9 | 450.5 | 882.0 | 1673.5 | 1735.9 | 471.8 | 162.0 | 142.8 | 120.6 | 90.2 |
| 85° | 104.6 | 119.8 | 206.0 | 424.3 | 844.1 | 850.4 | 191.1 | 96.9 | 99.4 | 79.0 | 49.5 |
| 87.5° | 39.7 | 48.2 | 98.6 | 197.1 | 385.5 | 354.1 | 68.4 | 46.2 | 56.6 | 47.0 | 23.5 |
| 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° | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 |
| 2.5° | 942.3 | 946.6 | 955.8 | 962.0 | 968.7 | 970.5 | 971.4 | 973.0 | 974.7 | 974.1 | 974.3 |
| 5° | 948.1 | 956.6 | 971.4 | 977.6 | 980.5 | 977.2 | 970.7 | 965.5 | 961.8 | 959.7 | 959.1 |
| 7.5° | 957.6 | 969.7 | 985.5 | 984.5 | 977.8 | 963.1 | 946.4 | 933.9 | 923.5 | 919.8 | 917.7 |
| 10° | 970.3 | 984.5 | 995.5 | 983.6 | 964.3 | 938.7 | 913.8 | 894.4 | 878.8 | 872.8 | 871.8 |
| 12.5° | 986.5 | 1000.9 | 1003.0 | 977.8 | 945.8 | 910.9 | 877.0 | 851.4 | 828.1 | 820.6 | 819.0 |
| 15° | 1007.5 | 1021.1 | 1008.2 | 967.6 | 922.9 | 875.9 | 832.1 | 797.3 | 772.8 | 763.7 | 760.3 |
| 17.5° | 1029.6 | 1042.5 | 1009.2 | 950.8 | 893.0 | 834.6 | 779.5 | 743.9 | 715.8 | 705.2 | 704.0 |
| 20° | 1056.0 | 1061.8 | 1004.8 | 926.7 | 851.8 | 780.9 | 722.9 | 689.4 | 674.5 | 667.0 | 666.2 |
| 22.5° | 1088.6 | 1082.4 | 994.9 | 894.0 | 799.6 | 719.0 | 671.8 | 656.2 | 652.4 | 650.8 | 651.4 |
| 25° | 1123.1 | 1104.0 | 980.1 | 851.4 | 733.7 | 657.0 | 634.3 | 638.7 | 643.7 | 643.1 | 643.1 |
| 27.5° | 1161.2 | 1126.1 | 957.4 | 794.8 | 660.7 | 606.3 | 609.0 | 625.0 | 632.5 | 632.3 | 632.1 |
| 30° | 1210.0 | 1151.0 | 928.5 | 726.9 | 592.6 | 570.5 | 586.9 | 606.5 | 616.7 | 616.3 | 616.5 |
| 32.5° | 1270.1 | 1178.4 | 889.2 | 651.0 | 543.3 | 544.1 | 563.0 | 582.4 | 594.2 | 593.2 | 593.4 |
| 35° | 1340.4 | 1209.2 | 836.0 | 576.1 | 510.6 | 523.1 | 538.1 | 551.6 | 562.8 | 561.4 | 559.9 |
| 37.5° | 1416.9 | 1239.4 | 765.3 | 509.2 | 484.0 | 503.6 | 516.0 | 518.3 | 523.5 | 519.8 | 517.1 |
| 40° | 1489.7 | 1262.4 | 674.3 | 454.3 | 457.2 | 486.9 | 495.0 | 485.9 | 476.5 | 475.3 | 471.5 |
| 42.5° | 1553.1 | 1270.1 | 582.2 | 410.4 | 428.9 | 469.5 | 474.5 | 455.3 | 438.5 | 430.6 | 427.3 |
| 45° | 1620.1 | 1272.8 | 496.3 | 373.6 | 401.7 | 453.9 | 459.3 | 433.7 | 410.0 | 393.0 | 387.3 |
| 47.5° | 1707.6 | 1292.4 | 429.5 | 346.4 | 380.9 | 443.5 | 451.2 | 416.4 | 385.7 | 361.4 | 356.2 |
| 50° | 1822.1 | 1331.1 | 375.3 | 325.6 | 367.4 | 436.6 | 445.3 | 399.6 | 365.7 | 336.4 | 331.2 |
| 52.5° | 1949.4 | 1366.6 | 331.4 | 308.7 | 354.3 | 424.6 | 437.9 | 387.5 | 347.0 | 313.3 | 307.7 |
| 55° | 2038.4 | 1339.4 | 296.1 | 291.3 | 337.2 | 407.3 | 427.5 | 377.4 | 320.2 | 290.9 | 285.9 |
| 57.5° | 2055.4 | 1246.2 | 269.2 | 273.2 | 316.7 | 385.7 | 411.5 | 354.7 | 305.6 | 281.1 | 275.9 |
| 60° | 2008.8 | 1116.5 | 249.3 | 256.6 | 294.6 | 358.4 | 381.5 | 338.7 | 291.7 | 270.7 | 266.3 |
| 62.5° | 1891.8 | 983.6 | 234.5 | 241.6 | 274.0 | 330.8 | 362.8 | 321.8 | 277.6 | 258.9 | 254.5 |
| 65° | 1655.4 | 825.8 | 220.4 | 228.3 | 254.9 | 306.9 | 346.0 | 306.3 | 263.6 | 249.3 | 245.1 |
| 67.5° | 1249.6 | 618.5 | 207.1 | 214.1 | 237.9 | 286.1 | 327.7 | 290.9 | 250.1 | 241.0 | 236.0 |
| 70° | 735.8 | 387.3 | 191.9 | 199.4 | 220.0 | 264.5 | 308.1 | 274.0 | 233.3 | 229.1 | 222.7 |
| 72.5° | 342.4 | 233.1 | 174.6 | 181.9 | 197.5 | 235.6 | 283.0 | 252.0 | 213.3 | 204.2 | 195.4 |
| 75° | 204.4 | 170.5 | 154.3 | 160.7 | 171.7 | 204.8 | 251.4 | 229.5 | 194.4 | 182.3 | 173.2 |
| 77.5° | 152.8 | 130.4 | 131.8 | 138.7 | 147.6 | 179.2 | 222.7 | 211.9 | 179.8 | 170.5 | 164.3 |
| 80° | 110.0 | 99.0 | 107.5 | 115.0 | 124.3 | 163.0 | 213.3 | 195.9 | 162.6 | 150.1 | 144.3 |
| 82.5° | 73.4 | 71.1 | 80.9 | 88.6 | 97.7 | 142.6 | 200.4 | 171.5 | 138.9 | 123.1 | 110.2 |
| 85° | 40.5 | 42.8 | 54.5 | 57.8 | 65.7 | 100.4 | 164.3 | 137.8 | 104.6 | 84.2 | 80.5 |
| 87.5° | 16.8 | 19.8 | 29.3 | 28.3 | 34.9 | 59.9 | 108.1 | 83.2 | 66.5 | 49.7 | 38.7 |
| 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)