

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: P321935

Luminaire Tested: **GAN-SA1D-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5780 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

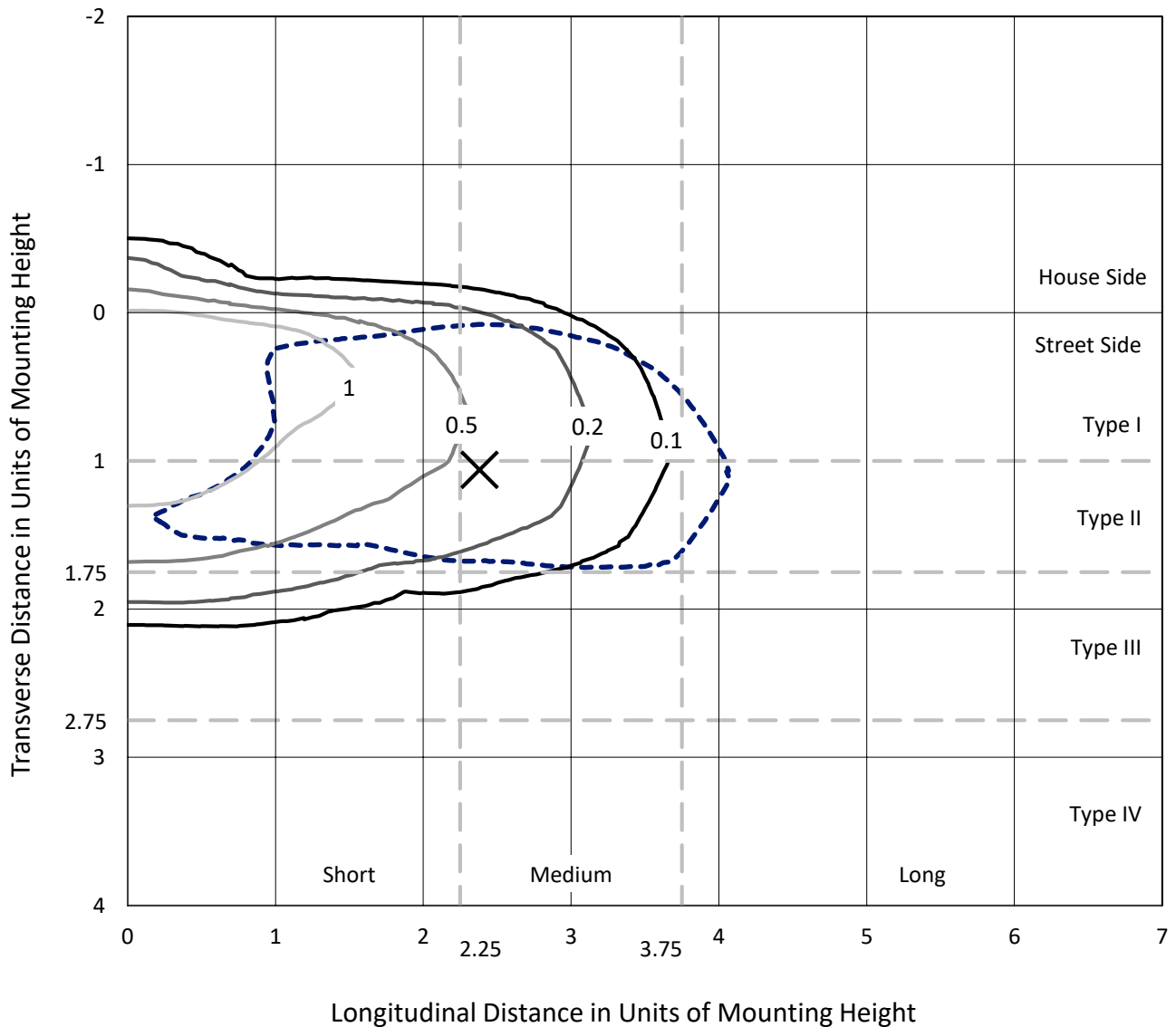
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

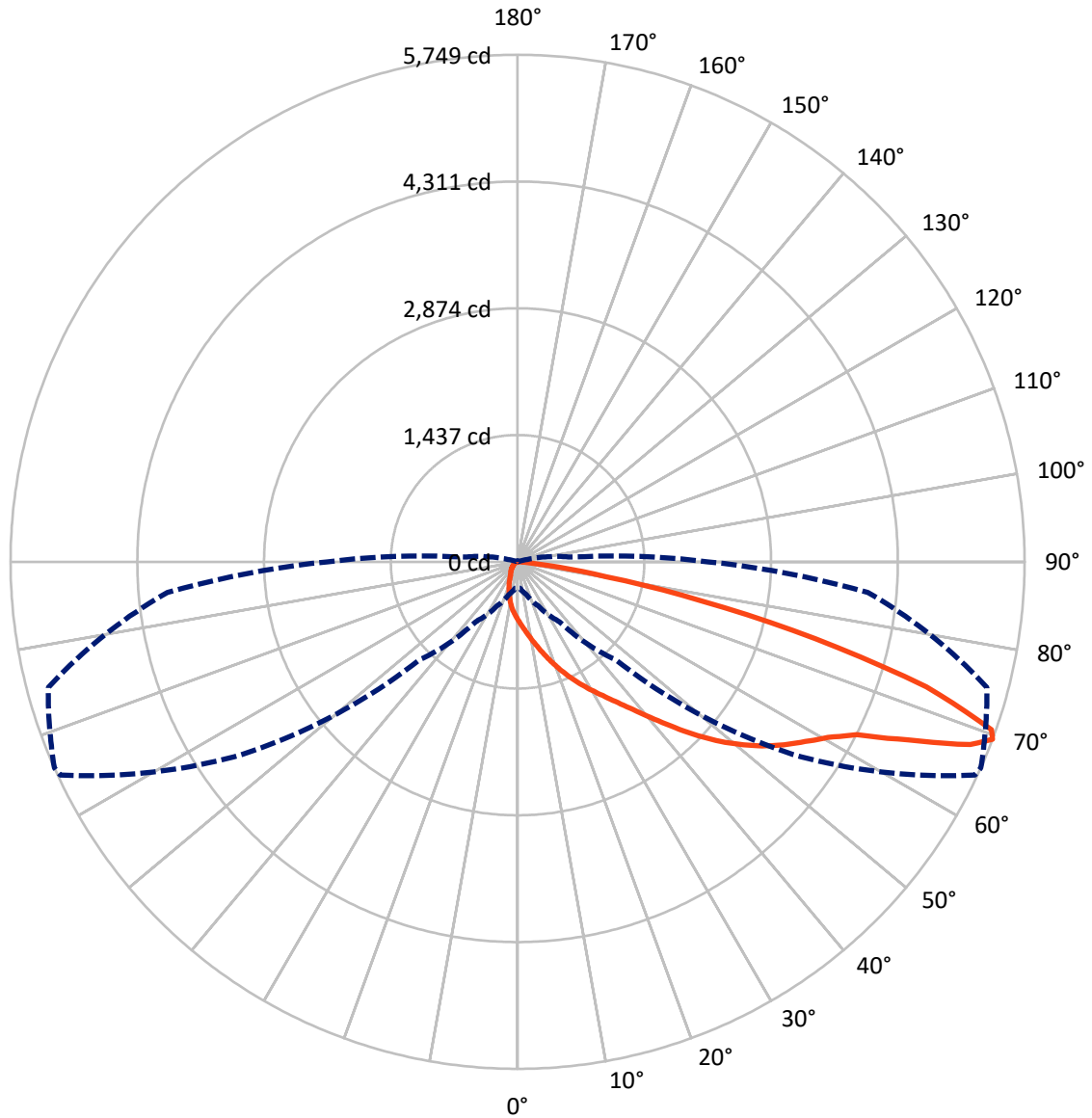
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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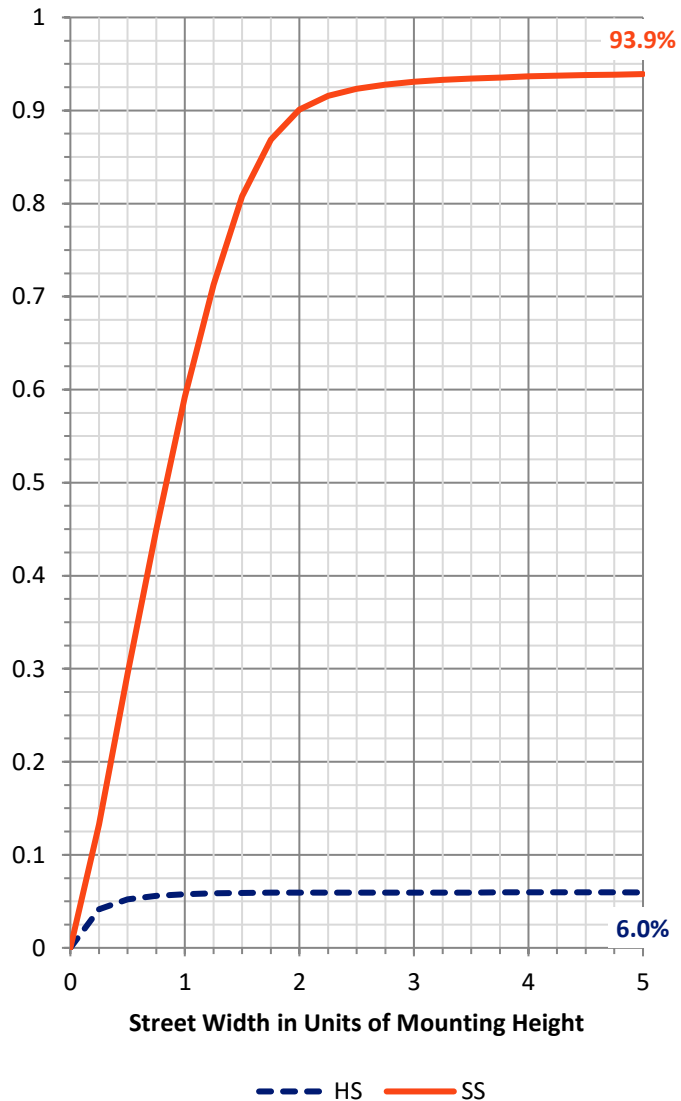
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 346.7 | 0.0 | 346.7 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 5433.3 | 0.0 | 5433.3 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 5780.0 | 0.0 | 5780.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 63.6 | 1.1 |
| 10°-20° | 189.2 | 3.3 |
| 20°-30° | 329.5 | 5.7 |
| 30°-40° | 578.2 | 10.0 |
| 40°-50° | 967.7 | 16.7 |
| 50°-60° | 1422.5 | 24.6 |
| 60°-70° | 1460.5 | 25.3 |
| 70°-80° | 721.0 | 12.5 |
| 80°-90° | 47.7 | 0.8 |
| 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° | 5780.0 | 100.0 |
| 0°-180° | 5780.0 | 100.0 |

Coefficient of Utilization

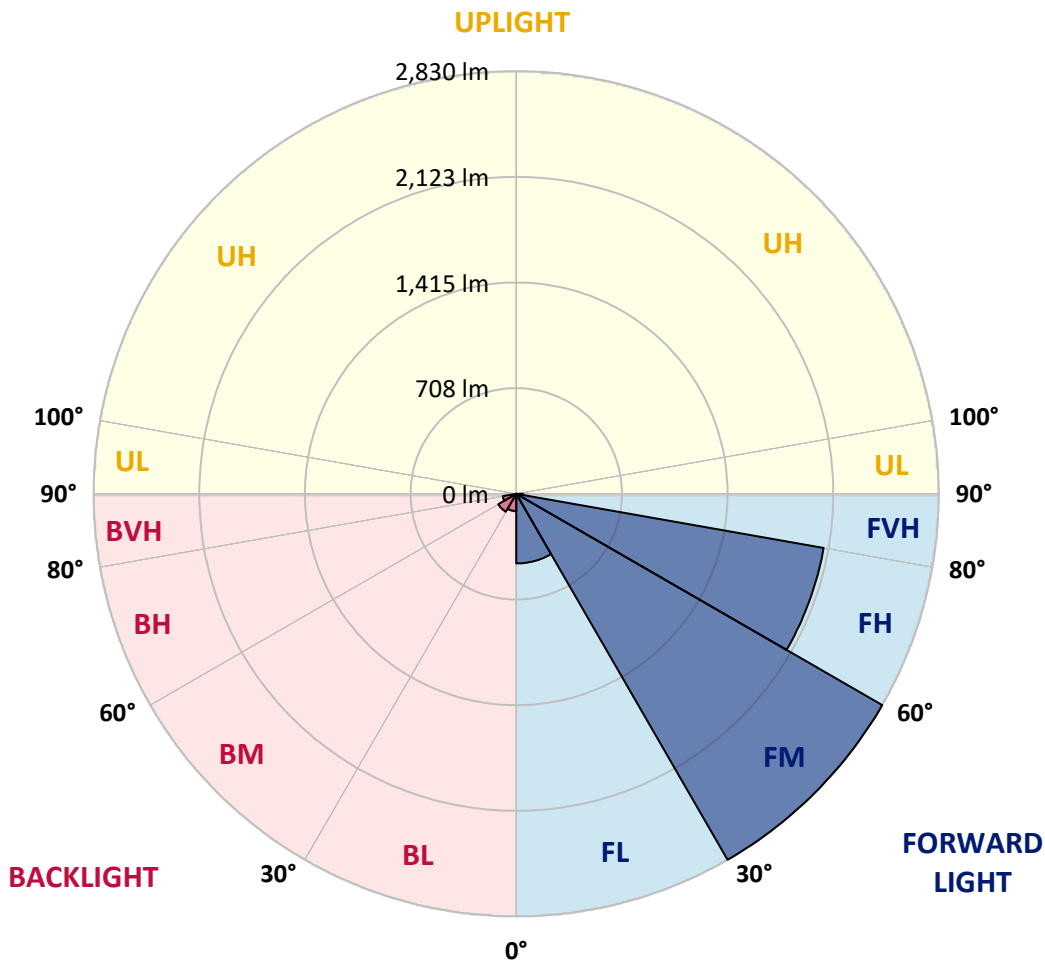


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 466.4 | 8.1 | | | |
| FM (30°-60°) | 2830.2 | 49.0 | | | |
| FH (60°-80°) | 2090.2 | 36.2 | | | G2/5000 |
| FVH (80°-90°) | 46.5 | 0.8 | | | G1/100 |
| BL (0°-30°) | 116.0 | 2.0 | B1/500 | | |
| BM (30°-60°) | 138.2 | 2.4 | B0/220 | | |
| BH (60°-80°) | 91.4 | 1.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 |
| 2.5° | 774.2 | 770.9 | 769.5 | 763.5 | 753.0 | 745.1 | 729.7 | 711.9 | 708.6 | 691.3 | 670.1 |
| 5° | 874.7 | 871.9 | 870.0 | 861.5 | 850.8 | 830.7 | 802.7 | 769.5 | 763.2 | 730.3 | 688.0 |
| 7.5° | 944.7 | 949.6 | 949.6 | 944.1 | 930.7 | 915.6 | 881.3 | 836.0 | 828.0 | 777.5 | 711.9 |
| 10° | 985.6 | 991.6 | 996.3 | 1000.9 | 999.0 | 993.0 | 960.6 | 909.5 | 899.9 | 832.9 | 739.6 |
| 12.5° | 989.4 | 995.5 | 1008.6 | 1028.1 | 1047.1 | 1060.8 | 1040.5 | 991.1 | 980.1 | 897.2 | 772.5 |
| 15° | 968.0 | 974.3 | 994.6 | 1032.5 | 1078.4 | 1118.4 | 1125.0 | 1081.4 | 1070.1 | 973.8 | 813.7 |
| 17.5° | 930.7 | 934.8 | 963.9 | 1016.3 | 1088.3 | 1161.8 | 1201.6 | 1178.3 | 1167.9 | 1061.3 | 859.6 |
| 20° | 902.9 | 906.0 | 931.5 | 987.8 | 1082.2 | 1189.0 | 1274.1 | 1281.2 | 1270.3 | 1155.2 | 909.3 |
| 22.5° | 950.4 | 955.9 | 956.7 | 983.4 | 1065.7 | 1202.5 | 1337.8 | 1382.6 | 1374.3 | 1254.9 | 958.1 |
| 25° | 1080.3 | 1086.6 | 1065.7 | 1049.3 | 1079.7 | 1208.5 | 1392.4 | 1486.3 | 1479.7 | 1362.2 | 1007.3 |
| 27.5° | 1251.9 | 1258.5 | 1231.6 | 1182.4 | 1153.0 | 1231.3 | 1441.0 | 1591.7 | 1591.5 | 1475.9 | 1060.2 |
| 30° | 1420.4 | 1427.0 | 1399.6 | 1350.4 | 1282.9 | 1295.8 | 1483.0 | 1702.1 | 1703.8 | 1593.1 | 1116.5 |
| 32.5° | 1597.2 | 1605.5 | 1577.2 | 1514.1 | 1443.5 | 1407.3 | 1542.1 | 1813.0 | 1822.4 | 1729.0 | 1179.9 |
| 35° | 1798.2 | 1799.3 | 1759.5 | 1693.3 | 1612.1 | 1556.3 | 1636.8 | 1937.4 | 1959.6 | 1897.3 | 1260.4 |
| 37.5° | 1995.3 | 2003.3 | 1970.6 | 1866.3 | 1791.6 | 1728.5 | 1777.6 | 2092.8 | 2124.3 | 2102.9 | 1365.5 |
| 40° | 2141.4 | 2158.1 | 2153.4 | 2040.9 | 1970.1 | 1925.0 | 1952.5 | 2277.5 | 2317.6 | 2342.3 | 1498.1 |
| 42.5° | 2233.1 | 2245.7 | 2267.1 | 2199.3 | 2135.0 | 2142.5 | 2158.9 | 2492.8 | 2542.2 | 2615.2 | 1650.5 |
| 45° | 2338.2 | 2344.2 | 2362.1 | 2332.2 | 2288.8 | 2363.5 | 2378.0 | 2735.2 | 2787.1 | 2908.7 | 1819.6 |
| 47.5° | 2466.7 | 2481.0 | 2485.9 | 2458.4 | 2438.7 | 2558.9 | 2589.1 | 2955.6 | 3028.4 | 3223.0 | 1998.6 |
| 50° | 2630.3 | 2634.2 | 2642.7 | 2624.8 | 2605.0 | 2726.9 | 2778.6 | 3187.1 | 3253.2 | 3538.5 | 2175.1 |
| 52.5° | 2790.4 | 2804.1 | 2833.7 | 2822.5 | 2814.5 | 2870.0 | 2947.4 | 3395.7 | 3469.6 | 3801.5 | 2351.4 |
| 55° | 2836.5 | 2848.3 | 2950.7 | 3020.7 | 3085.5 | 3046.2 | 3108.8 | 3582.7 | 3662.6 | 4036.5 | 2521.0 |
| 57.5° | 2652.3 | 2676.2 | 2853.5 | 3035.8 | 3304.6 | 3320.2 | 3330.6 | 3774.6 | 3846.2 | 4216.6 | 2697.6 |
| 60° | 2186.7 | 2191.3 | 2482.3 | 2795.0 | 3268.3 | 3559.3 | 3654.6 | 3980.7 | 4040.9 | 4384.3 | 2909.0 |
| 62.5° | 1390.8 | 1438.3 | 1757.6 | 2199.0 | 2885.1 | 3524.7 | 4046.4 | 4292.6 | 4314.6 | 4585.5 | 3212.0 |
| 65° | 662.4 | 693.2 | 923.3 | 1358.7 | 2089.7 | 3081.9 | 4316.8 | 4856.8 | 4866.7 | 4984.4 | 3617.0 |
| 67.5° | 366.8 | 381.6 | 491.1 | 731.4 | 1221.7 | 2179.5 | 4207.5 | 5525.0 | 5534.3 | 5391.8 | 3972.2 |
| 69° | 286.9 | 299.5 | 385.7 | 551.3 | 828.3 | 1566.5 | 3807.5 | 5720.7 | 5748.5 | 5508.5 | 3984.9 |
| 70° | 243.5 | 255.9 | 332.2 | 465.6 | 666.0 | 1210.4 | 3389.1 | 5672.1 | 5701.5 | 5497.5 | 3890.7 |
| 72.5° | 149.1 | 156.2 | 221.3 | 327.8 | 446.4 | 608.9 | 2090.0 | 4796.9 | 4846.6 | 5042.9 | 3343.8 |
| 75° | 100.5 | 104.3 | 138.4 | 226.2 | 319.3 | 313.5 | 1085.8 | 3381.2 | 3488.8 | 3922.8 | 2469.7 |
| 77.5° | 71.9 | 75.5 | 92.8 | 146.3 | 223.7 | 207.0 | 491.7 | 2101.3 | 2124.3 | 2352.8 | 1346.9 |
| 80° | 40.9 | 44.2 | 65.6 | 87.0 | 151.8 | 138.1 | 195.5 | 1003.7 | 1015.2 | 1008.9 | 449.7 |
| 82.5° | 21.4 | 24.2 | 36.0 | 57.4 | 97.5 | 90.3 | 81.3 | 336.0 | 337.7 | 280.8 | 98.6 |
| 85° | 4.1 | 4.9 | 17.8 | 39.3 | 50.2 | 39.3 | 33.2 | 78.8 | 80.4 | 71.1 | 24.4 |
| 87.5° | 0.0 | 0.3 | 7.1 | 8.8 | 9.9 | 10.2 | 10.7 | 15.4 | 16.5 | 22.2 | 6.6 |
| 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° | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 | 657.8 |
| 2.5° | 660.8 | 650.9 | 632.0 | 610.0 | 593.0 | 576.2 | 563.1 | 549.3 | 544.4 | 541.9 | 541.7 |
| 5° | 667.4 | 646.5 | 606.4 | 565.3 | 531.5 | 499.7 | 476.9 | 455.2 | 445.0 | 440.4 | 438.4 |
| 7.5° | 678.4 | 644.9 | 580.4 | 517.5 | 468.9 | 429.1 | 397.5 | 373.9 | 362.1 | 357.2 | 355.2 |
| 10° | 691.3 | 642.7 | 549.9 | 467.0 | 404.9 | 363.8 | 332.5 | 309.1 | 296.2 | 290.7 | 288.0 |
| 12.5° | 706.4 | 638.8 | 514.8 | 415.9 | 350.3 | 309.1 | 271.2 | 242.4 | 227.6 | 221.3 | 218.3 |
| 15° | 725.0 | 635.0 | 478.0 | 367.9 | 302.3 | 252.0 | 210.6 | 191.1 | 188.1 | 187.0 | 187.2 |
| 17.5° | 743.4 | 629.0 | 437.9 | 320.4 | 251.7 | 196.8 | 175.7 | 174.6 | 175.2 | 175.2 | 175.2 |
| 20° | 759.9 | 615.2 | 394.2 | 279.7 | 203.7 | 166.1 | 161.7 | 159.8 | 158.4 | 157.3 | 155.9 |
| 22.5° | 772.8 | 596.8 | 352.2 | 239.4 | 166.4 | 152.1 | 145.2 | 139.2 | 134.2 | 131.0 | 129.3 |
| 25° | 781.6 | 572.4 | 313.8 | 200.7 | 149.6 | 138.4 | 126.0 | 115.9 | 108.2 | 103.5 | 101.6 |
| 27.5° | 788.2 | 546.0 | 279.5 | 168.0 | 138.1 | 122.4 | 106.2 | 94.2 | 86.2 | 82.1 | 80.4 |
| 30° | 792.9 | 516.1 | 249.3 | 147.7 | 125.2 | 105.7 | 88.4 | 76.6 | 70.8 | 68.6 | 67.5 |
| 32.5° | 797.2 | 482.9 | 220.7 | 138.1 | 113.1 | 90.3 | 74.1 | 65.1 | 61.5 | 58.8 | 57.9 |
| 35° | 808.2 | 452.2 | 193.5 | 127.9 | 100.8 | 77.1 | 63.7 | 57.1 | 53.5 | 51.9 | 51.3 |
| 37.5° | 834.3 | 429.4 | 167.5 | 117.5 | 88.4 | 66.7 | 55.7 | 51.1 | 47.8 | 46.1 | 45.6 |
| 40° | 876.3 | 417.8 | 145.5 | 106.2 | 76.3 | 58.8 | 50.5 | 46.1 | 42.6 | 40.1 | 39.5 |
| 42.5° | 938.1 | 419.5 | 130.1 | 95.0 | 66.7 | 52.4 | 45.6 | 40.4 | 36.5 | 34.3 | 33.8 |
| 45° | 1013.0 | 431.6 | 119.4 | 84.0 | 58.8 | 47.5 | 40.1 | 34.6 | 31.0 | 29.1 | 28.6 |
| 47.5° | 1094.3 | 451.1 | 110.6 | 74.1 | 52.4 | 42.8 | 34.6 | 28.8 | 25.8 | 24.2 | 23.9 |
| 50° | 1179.9 | 470.0 | 101.6 | 64.5 | 46.9 | 38.2 | 29.1 | 23.9 | 21.4 | 20.0 | 19.5 |
| 52.5° | 1266.7 | 492.0 | 93.3 | 55.7 | 42.3 | 32.7 | 24.2 | 19.5 | 17.6 | 16.5 | 15.9 |
| 55° | 1360.0 | 508.4 | 85.4 | 48.9 | 37.6 | 27.7 | 20.0 | 16.2 | 14.6 | 13.2 | 12.9 |
| 57.5° | 1469.9 | 534.0 | 77.1 | 42.3 | 32.1 | 23.1 | 16.5 | 12.9 | 11.5 | 10.2 | 9.9 |
| 60° | 1618.1 | 563.9 | 68.4 | 37.3 | 26.4 | 18.9 | 13.5 | 10.4 | 8.8 | 7.7 | 7.4 |
| 62.5° | 1813.6 | 597.1 | 57.4 | 32.7 | 21.4 | 15.4 | 10.7 | 8.2 | 6.3 | 4.9 | 4.9 |
| 65° | 2061.5 | 651.2 | 46.9 | 27.5 | 17.6 | 12.6 | 8.2 | 6.0 | 3.6 | 2.2 | 2.2 |
| 67.5° | 2206.2 | 660.5 | 37.9 | 22.5 | 14.3 | 10.7 | 6.9 | 4.1 | 1.1 | 0.3 | 0.0 |
| 69° | 2159.8 | 606.4 | 32.1 | 19.2 | 12.4 | 10.2 | 6.3 | 3.0 | 0.5 | 0.0 | 0.0 |
| 70° | 2072.5 | 554.6 | 28.3 | 17.0 | 11.3 | 9.6 | 6.0 | 2.2 | 0.5 | 0.0 | 0.0 |
| 72.5° | 1712.5 | 394.8 | 21.4 | 12.6 | 8.2 | 8.5 | 5.5 | 1.4 | 0.5 | 0.0 | 0.0 |
| 75° | 1247.5 | 239.9 | 15.4 | 8.8 | 5.2 | 6.3 | 3.8 | 0.5 | 0.3 | 0.0 | 0.0 |
| 77.5° | 694.0 | 113.1 | 9.6 | 4.9 | 3.3 | 3.8 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 225.4 | 30.7 | 4.4 | 2.7 | 1.9 | 2.2 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 41.7 | 8.8 | 2.5 | 1.4 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 9.1 | 3.6 | 1.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.0 | 1.1 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)