

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: P194449

Luminaire Tested: **GAN-AF-01-LED-U-SL3-7060-600-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7060-600-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3508 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 34
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

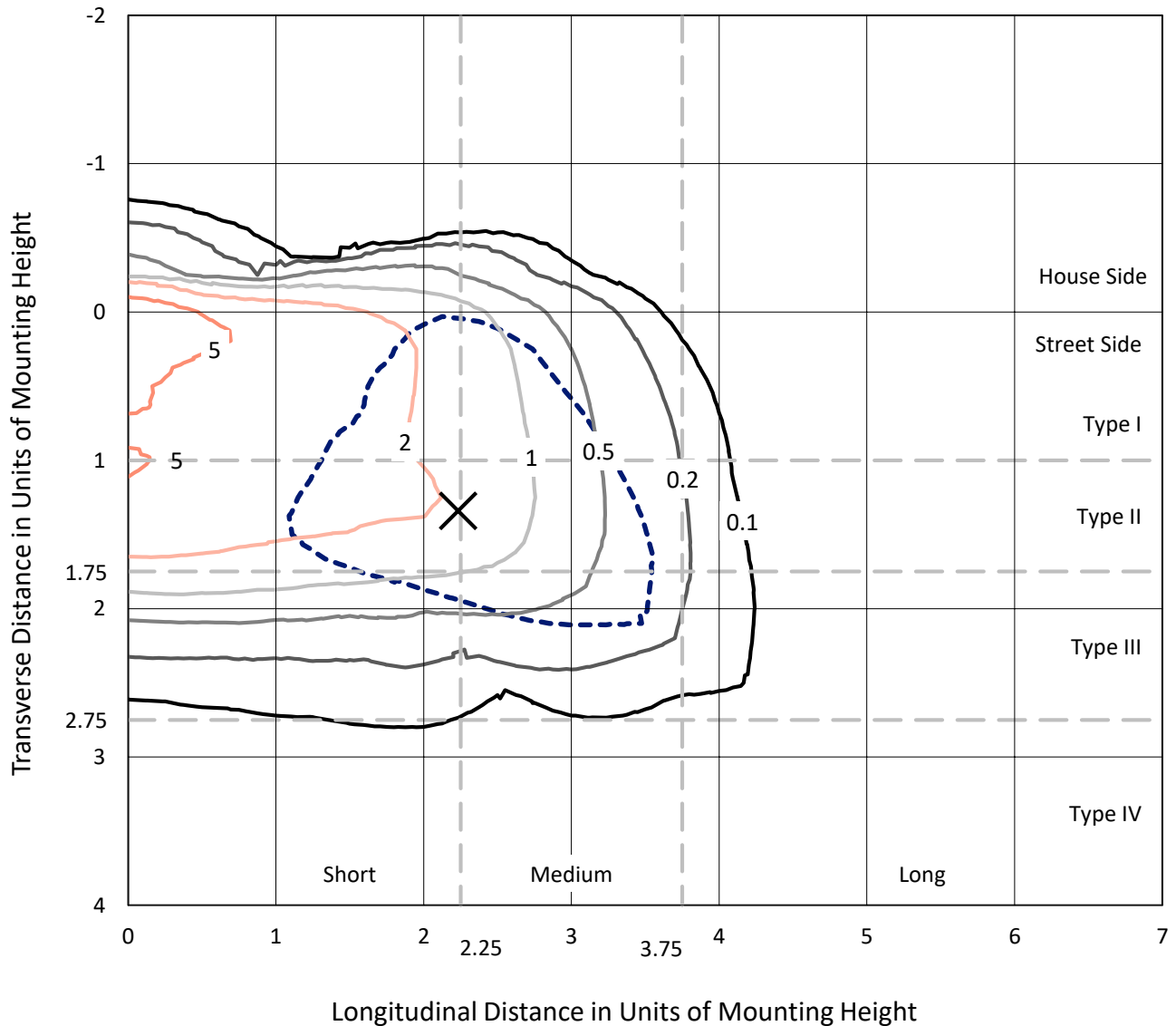


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

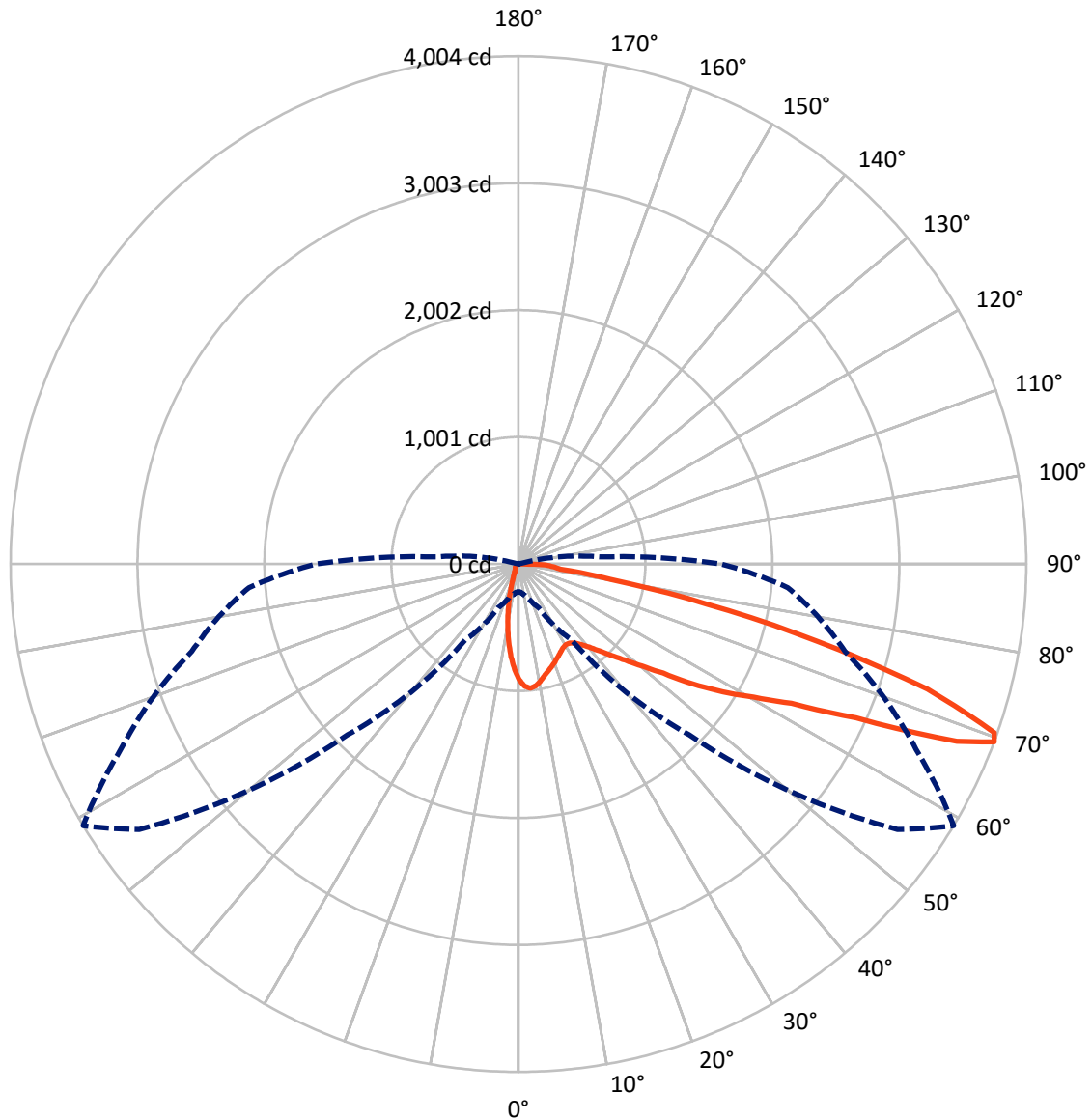


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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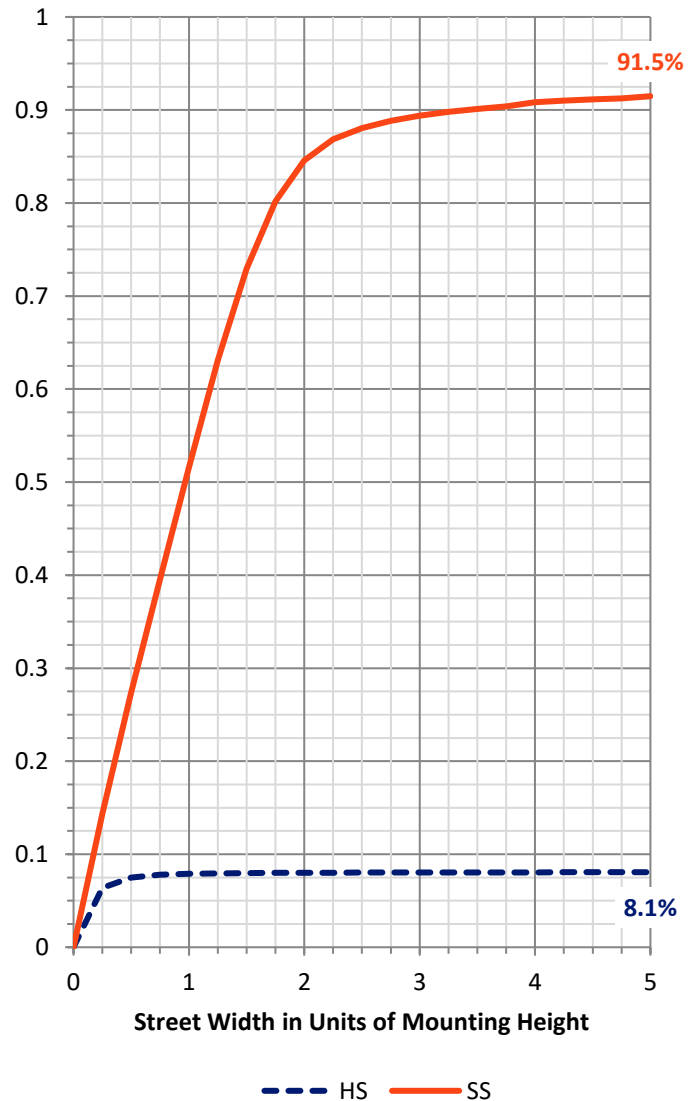
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 285.7 | 0.0 | 285.7 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 3222.3 | 0.0 | 3222.3 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 3508.0 | 0.0 | 3508.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.1 | 2.1 |
| 10°-20° | 153.1 | 4.4 |
| 20°-30° | 206.1 | 5.9 |
| 30°-40° | 299.2 | 8.5 |
| 40°-50° | 498.2 | 14.2 |
| 50°-60° | 777.2 | 22.2 |
| 60°-70° | 961.7 | 27.4 |
| 70°-80° | 487.4 | 13.9 |
| 80°-90° | 51.0 | 1.5 |
| 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° | 3508.0 | 100.0 |
| 0°-180° | 3508.0 | 100.0 |

Coefficient of Utilization



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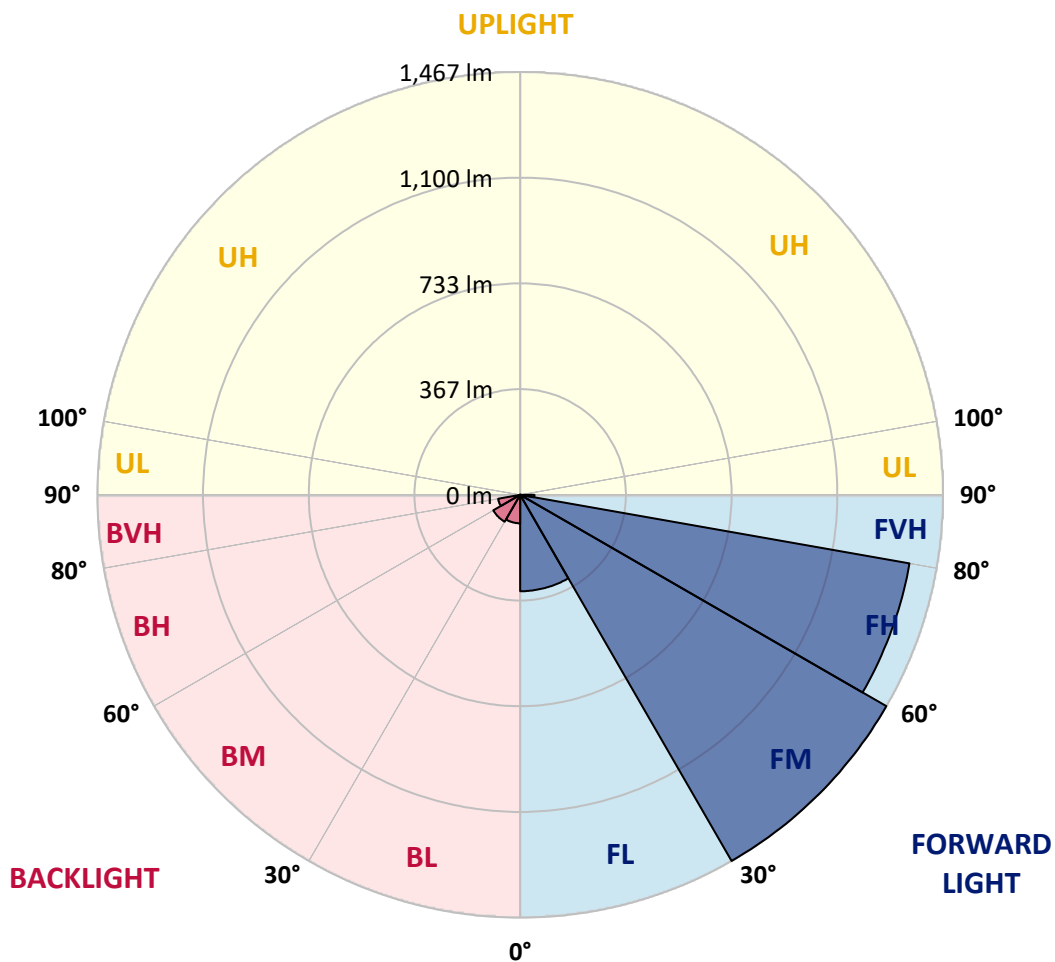
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 334.4 | 9.5 | | | |
| FM (30°-60°) | 1466.9 | 41.8 | | | |
| FH (60°-80°) | 1371.5 | 39.1 | | | G1/1800 |
| FVH (80°-90°) | 49.4 | 1.4 | | | G1/100 |
| BL (0°-30°) | 98.9 | 2.8 | B0/110 | | |
| BM (30°-60°) | 107.6 | 3.1 | B0/220 | | |
| BH (60°-80°) | 77.6 | 2.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 |
| 2.5° | 1000.8 | 1000.4 | 996.0 | 994.0 | 990.4 | 982.9 | 971.2 | 965.1 | 955.1 | 937.9 | 914.7 |
| 5° | 991.6 | 996.4 | 999.0 | 999.2 | 1001.8 | 999.0 | 988.5 | 983.3 | 969.6 | 941.8 | 900.2 |
| 7.5° | 929.7 | 931.5 | 938.9 | 945.2 | 957.5 | 969.2 | 973.0 | 970.8 | 962.7 | 932.9 | 877.6 |
| 10° | 863.5 | 865.3 | 874.0 | 882.3 | 899.0 | 917.1 | 936.1 | 940.1 | 943.4 | 920.2 | 855.8 |
| 12.5° | 806.4 | 808.1 | 817.1 | 828.0 | 847.4 | 869.6 | 899.2 | 905.7 | 920.6 | 908.1 | 838.3 |
| 15° | 757.2 | 758.0 | 766.7 | 780.2 | 803.4 | 832.0 | 865.5 | 876.0 | 898.8 | 899.6 | 823.0 |
| 17.5° | 715.3 | 717.3 | 722.7 | 735.5 | 760.9 | 796.2 | 835.3 | 850.4 | 877.2 | 892.5 | 808.1 |
| 20° | 689.7 | 691.7 | 691.5 | 698.6 | 721.5 | 759.2 | 805.2 | 823.2 | 855.8 | 885.1 | 794.9 |
| 22.5° | 684.8 | 684.8 | 679.6 | 678.6 | 692.1 | 723.6 | 773.8 | 795.8 | 836.5 | 881.9 | 785.5 |
| 25° | 702.4 | 701.6 | 688.7 | 678.2 | 678.8 | 697.7 | 743.5 | 769.7 | 820.2 | 884.1 | 780.6 |
| 27.5° | 739.7 | 738.7 | 722.5 | 702.4 | 686.4 | 686.2 | 720.5 | 748.6 | 807.4 | 894.4 | 782.6 |
| 30° | 791.3 | 790.9 | 773.2 | 748.0 | 718.9 | 692.1 | 712.5 | 738.1 | 799.0 | 913.1 | 787.1 |
| 32.5° | 847.6 | 847.0 | 833.7 | 807.2 | 770.3 | 718.9 | 720.9 | 742.3 | 801.4 | 937.9 | 798.2 |
| 35° | 907.3 | 906.3 | 900.6 | 877.4 | 836.7 | 768.3 | 748.2 | 764.9 | 816.5 | 975.0 | 820.0 |
| 37.5° | 972.0 | 973.0 | 977.2 | 954.9 | 912.3 | 837.5 | 794.1 | 805.4 | 846.8 | 1025.4 | 855.6 |
| 40° | 1067.4 | 1067.2 | 1068.6 | 1039.4 | 998.4 | 922.2 | 858.1 | 861.7 | 897.6 | 1092.2 | 909.5 |
| 42.5° | 1240.6 | 1228.5 | 1191.8 | 1132.3 | 1091.0 | 1019.0 | 938.9 | 935.1 | 959.7 | 1174.9 | 985.1 |
| 45° | 1473.3 | 1447.5 | 1352.3 | 1238.2 | 1185.4 | 1128.1 | 1038.3 | 1026.2 | 1041.8 | 1274.3 | 1078.3 |
| 47.5° | 1673.4 | 1646.6 | 1512.0 | 1348.5 | 1285.6 | 1231.7 | 1154.7 | 1132.9 | 1138.0 | 1385.6 | 1196.6 |
| 50° | 1741.5 | 1728.4 | 1610.7 | 1444.5 | 1382.6 | 1362.0 | 1289.8 | 1263.2 | 1255.9 | 1514.3 | 1333.6 |
| 52.5° | 1717.9 | 1716.9 | 1638.5 | 1506.8 | 1471.5 | 1496.9 | 1459.8 | 1429.0 | 1402.1 | 1650.0 | 1473.1 |
| 55° | 1680.0 | 1684.9 | 1649.8 | 1561.3 | 1560.2 | 1620.1 | 1692.3 | 1666.7 | 1588.5 | 1797.4 | 1593.3 |
| 57.5° | 1575.4 | 1596.7 | 1643.5 | 1664.5 | 1713.3 | 1774.6 | 1885.9 | 1901.0 | 1808.5 | 1910.3 | 1693.1 |
| 60° | 1278.3 | 1324.9 | 1478.0 | 1679.4 | 1910.7 | 2063.4 | 2119.6 | 2132.4 | 1989.0 | 2004.1 | 1827.8 |
| 62.5° | 907.3 | 954.9 | 1149.1 | 1489.7 | 1913.6 | 2442.9 | 2467.7 | 2417.1 | 2187.8 | 2143.2 | 2060.0 |
| 65° | 481.6 | 518.3 | 677.0 | 1075.3 | 1659.1 | 2531.0 | 3076.5 | 2925.7 | 2538.5 | 2416.7 | 2360.2 |
| 67.5° | 246.4 | 257.5 | 320.6 | 526.3 | 1140.6 | 2248.1 | 3622.2 | 3728.3 | 3142.9 | 2688.1 | 2345.7 |
| 69° | 218.0 | 224.6 | 266.4 | 380.5 | 730.4 | 1904.1 | 3648.8 | 4003.8 | 3459.3 | 2665.5 | 2131.7 |
| 70° | 211.1 | 216.8 | 254.9 | 344.4 | 570.9 | 1596.9 | 3547.0 | 3979.6 | 3540.3 | 2579.4 | 1971.8 |
| 72.5° | 179.1 | 184.1 | 226.9 | 304.3 | 464.0 | 792.7 | 2881.3 | 3372.2 | 3176.8 | 2148.7 | 1427.3 |
| 75° | 119.8 | 136.1 | 217.8 | 285.3 | 431.6 | 450.3 | 1899.6 | 2436.9 | 2263.8 | 1449.3 | 743.5 |
| 77.5° | 28.8 | 30.9 | 61.5 | 226.9 | 394.8 | 396.3 | 977.0 | 1514.9 | 1235.6 | 516.5 | 175.8 |
| 80° | 15.5 | 14.9 | 17.3 | 45.0 | 367.6 | 371.9 | 439.8 | 735.3 | 441.2 | 85.7 | 57.9 |
| 82.5° | 10.9 | 10.3 | 11.1 | 18.8 | 115.6 | 338.8 | 318.2 | 332.9 | 182.9 | 32.9 | 26.0 |
| 85° | 4.0 | 3.8 | 6.1 | 17.1 | 36.3 | 194.8 | 326.9 | 274.5 | 148.2 | 15.1 | 19.0 |
| 87.5° | 1.4 | 1.2 | 2.4 | 9.3 | 11.1 | 82.9 | 201.7 | 207.5 | 58.3 | 9.1 | 8.9 |
| 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° | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 |
| 2.5° | 905.0 | 892.7 | 870.0 | 846.8 | 825.4 | 799.6 | 786.7 | 774.0 | 768.7 | 766.7 | 757.4 |
| 5° | 878.8 | 857.9 | 809.9 | 761.7 | 717.3 | 670.1 | 638.9 | 613.9 | 599.3 | 592.1 | 580.8 |
| 7.5° | 845.2 | 811.1 | 738.3 | 663.9 | 594.7 | 526.5 | 475.9 | 437.0 | 410.2 | 397.3 | 385.6 |
| 10° | 812.7 | 767.3 | 663.7 | 562.4 | 468.3 | 377.9 | 308.1 | 257.5 | 225.1 | 210.3 | 200.7 |
| 12.5° | 783.6 | 724.6 | 591.7 | 463.4 | 345.4 | 239.4 | 168.4 | 128.1 | 108.1 | 101.2 | 97.8 |
| 15° | 757.6 | 685.4 | 523.7 | 369.4 | 233.9 | 136.9 | 92.0 | 78.4 | 75.2 | 75.2 | 74.8 |
| 17.5° | 733.0 | 646.9 | 458.0 | 281.1 | 146.8 | 83.7 | 70.0 | 68.2 | 68.2 | 69.0 | 69.0 |
| 20° | 709.4 | 610.2 | 394.6 | 201.7 | 92.4 | 66.5 | 63.3 | 62.9 | 63.3 | 64.3 | 64.3 |
| 22.5° | 689.1 | 576.9 | 335.2 | 138.5 | 68.6 | 59.9 | 58.3 | 57.7 | 57.9 | 58.5 | 58.9 |
| 25° | 674.1 | 548.7 | 279.3 | 93.8 | 59.1 | 54.6 | 52.8 | 51.8 | 51.0 | 51.0 | 51.4 |
| 27.5° | 664.5 | 524.9 | 225.1 | 68.2 | 53.2 | 49.6 | 46.8 | 45.2 | 43.4 | 42.5 | 42.8 |
| 30° | 657.6 | 502.3 | 174.4 | 55.7 | 47.6 | 44.0 | 40.5 | 37.9 | 35.3 | 34.1 | 34.5 |
| 32.5° | 655.0 | 484.0 | 130.3 | 49.2 | 42.6 | 38.7 | 34.3 | 30.9 | 28.2 | 27.2 | 27.4 |
| 35° | 662.0 | 469.5 | 95.4 | 44.4 | 38.7 | 33.7 | 28.8 | 25.0 | 22.8 | 22.2 | 22.4 |
| 37.5° | 680.2 | 461.8 | 71.4 | 40.5 | 35.1 | 29.6 | 24.0 | 20.4 | 19.0 | 19.0 | 19.2 |
| 40° | 714.7 | 461.6 | 57.3 | 37.7 | 31.9 | 25.6 | 19.8 | 17.3 | 16.5 | 16.9 | 17.1 |
| 42.5° | 765.1 | 472.1 | 50.0 | 35.1 | 29.2 | 21.8 | 16.5 | 14.7 | 14.5 | 14.9 | 15.1 |
| 45° | 833.9 | 491.4 | 46.0 | 32.9 | 26.2 | 18.2 | 13.9 | 12.7 | 12.7 | 13.3 | 13.5 |
| 47.5° | 918.2 | 519.5 | 42.6 | 30.7 | 23.2 | 15.3 | 11.9 | 11.1 | 11.3 | 11.9 | 12.1 |
| 50° | 1019.8 | 555.0 | 39.3 | 28.4 | 21.0 | 12.7 | 10.3 | 9.7 | 9.9 | 10.7 | 10.9 |
| 52.5° | 1135.5 | 602.8 | 36.5 | 26.2 | 18.2 | 10.5 | 8.7 | 8.3 | 8.7 | 9.5 | 9.7 |
| 55° | 1234.6 | 645.7 | 33.1 | 24.4 | 14.7 | 8.7 | 7.1 | 7.1 | 7.5 | 8.5 | 8.7 |
| 57.5° | 1330.1 | 690.5 | 30.2 | 21.0 | 11.5 | 6.9 | 6.0 | 6.1 | 6.7 | 7.7 | 7.9 |
| 60° | 1470.1 | 766.5 | 26.6 | 17.7 | 8.7 | 5.6 | 5.0 | 5.2 | 6.0 | 6.9 | 7.1 |
| 62.5° | 1707.9 | 882.1 | 23.0 | 14.7 | 6.7 | 4.4 | 4.0 | 4.4 | 5.4 | 6.5 | 6.7 |
| 65° | 1922.6 | 929.2 | 18.8 | 12.3 | 5.2 | 3.4 | 3.4 | 4.0 | 5.2 | 6.3 | 6.5 |
| 67.5° | 1803.0 | 782.2 | 14.7 | 9.7 | 4.0 | 2.6 | 2.8 | 3.8 | 5.0 | 6.3 | 6.5 |
| 69° | 1594.5 | 639.5 | 12.5 | 7.7 | 3.4 | 2.4 | 2.6 | 3.8 | 5.0 | 6.1 | 6.3 |
| 70° | 1432.0 | 540.0 | 11.1 | 6.5 | 3.0 | 2.4 | 2.6 | 3.6 | 5.0 | 6.1 | 6.3 |
| 72.5° | 959.1 | 291.6 | 8.9 | 4.8 | 2.8 | 2.2 | 2.2 | 3.6 | 4.8 | 6.0 | 6.1 |
| 75° | 412.2 | 80.5 | 7.1 | 3.4 | 2.4 | 2.0 | 2.0 | 3.4 | 4.6 | 5.8 | 6.1 |
| 77.5° | 75.4 | 20.4 | 5.8 | 3.0 | 2.4 | 2.0 | 1.8 | 3.2 | 4.4 | 5.6 | 5.8 |
| 80° | 30.0 | 10.1 | 4.6 | 2.6 | 2.2 | 1.8 | 1.6 | 3.0 | 4.2 | 5.4 | 5.6 |
| 82.5° | 18.1 | 5.8 | 3.8 | 2.4 | 2.2 | 1.6 | 1.4 | 2.6 | 4.0 | 5.2 | 5.4 |
| 85° | 14.7 | 4.0 | 3.0 | 2.4 | 2.0 | 1.6 | 1.2 | 2.4 | 3.6 | 5.0 | 5.2 |
| 87.5° | 7.1 | 2.8 | 2.8 | 2.2 | 2.0 | 1.6 | 1.2 | 2.2 | 3.4 | 4.8 | 5.0 |
| 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)