

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: P194379

Luminaire Tested: **GAN-AF-01-LED-U-SL2-7060-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-SL2-7060-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4171 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

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: 28.75 FT

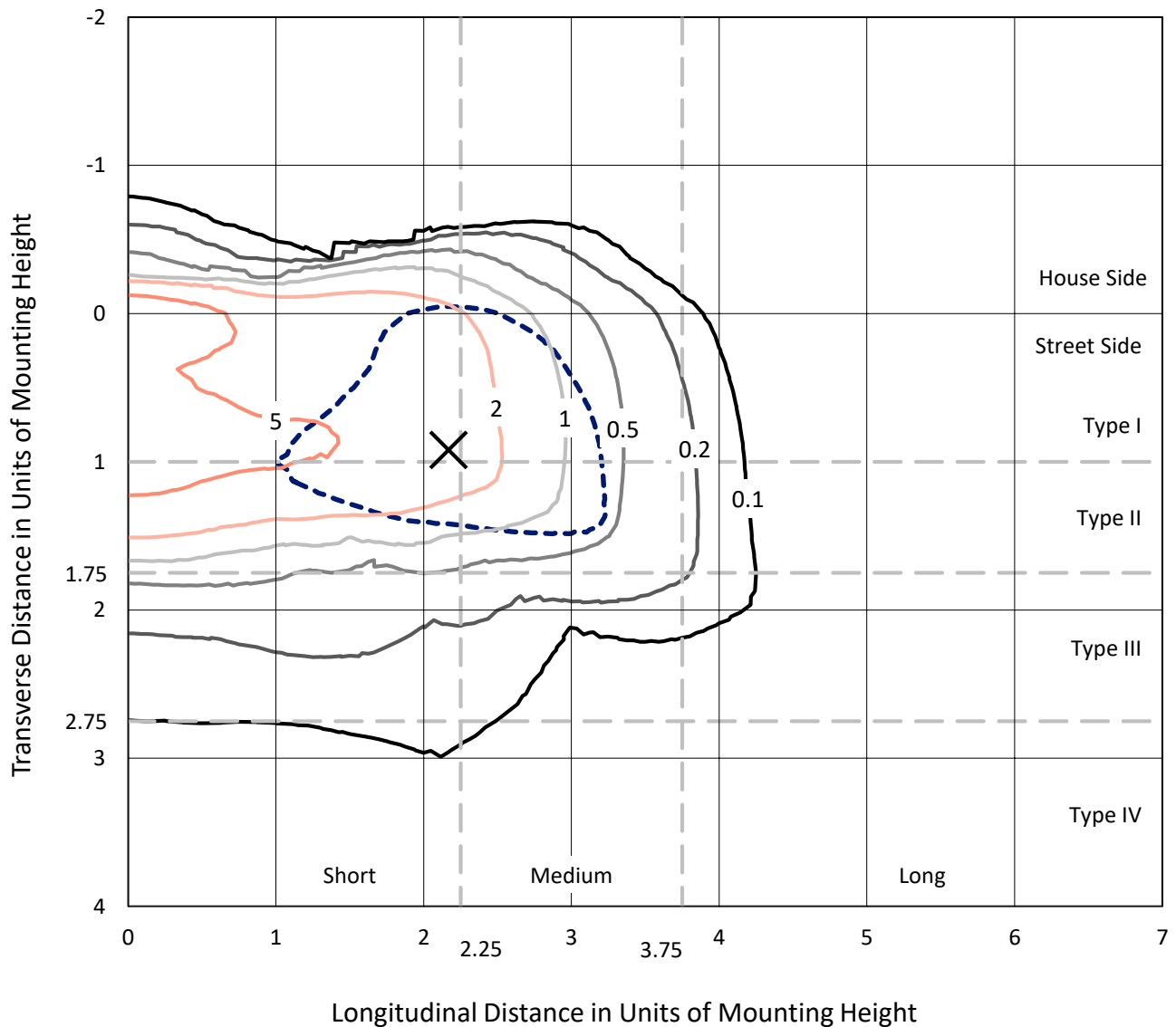


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

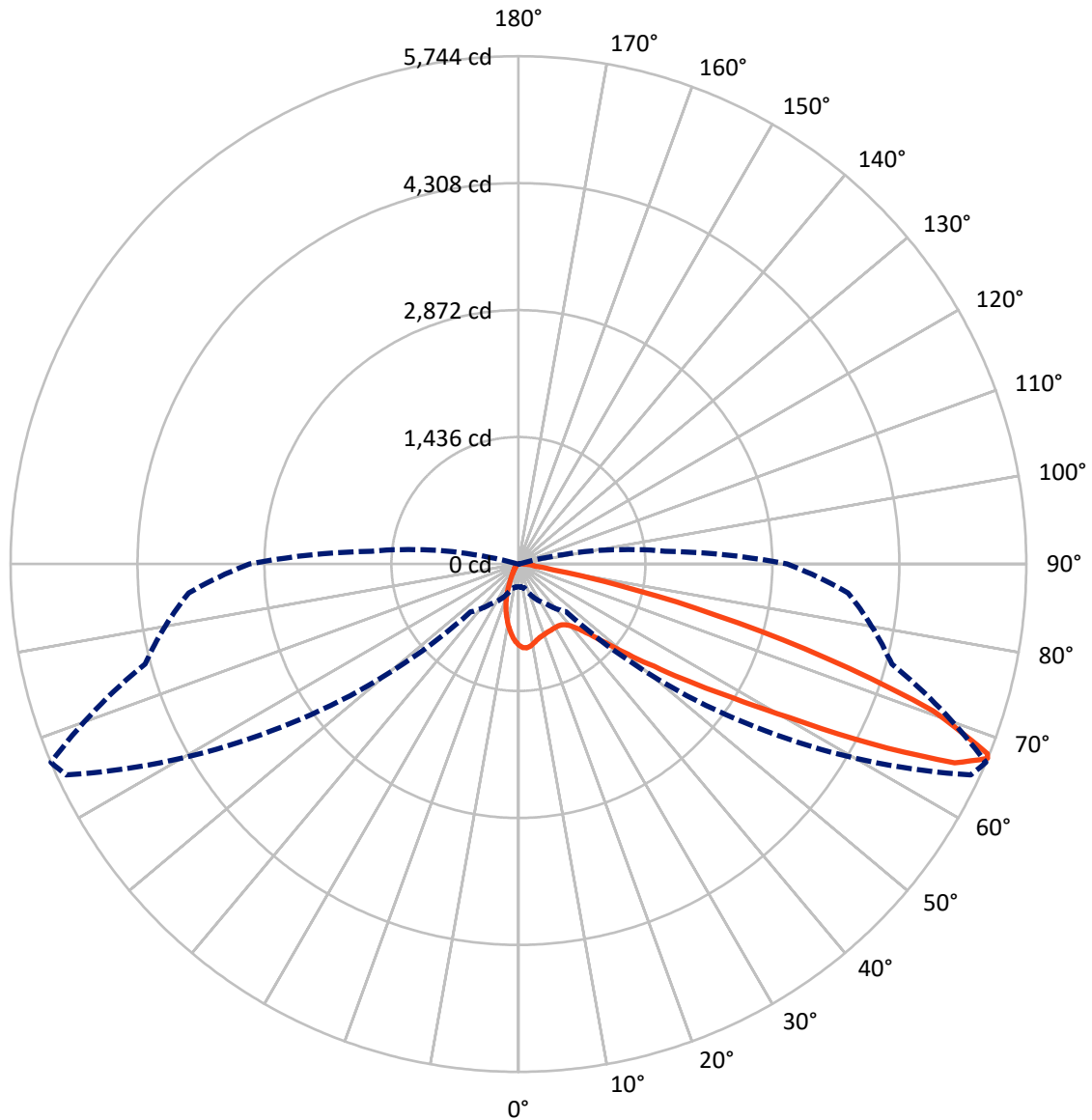


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 433.1 | 0.0 | 433.1 |
| | % Fixture | 10.4 | 0.0 | 10.4 |
| Street Side | Lumens | 3737.9 | 0.0 | 3737.9 |
| | % Fixture | 89.6 | 0.0 | 89.6 |
| Total | Lumens | 4171.0 | 0.0 | 4171.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 74.8 | 1.8 |
| 10°-20° | 159.3 | 3.8 |
| 20°-30° | 231.6 | 5.6 |
| 30°-40° | 361.3 | 8.7 |
| 40°-50° | 640.1 | 15.3 |
| 50°-60° | 1012.9 | 24.3 |
| 60°-70° | 1160.1 | 27.8 |
| 70°-80° | 481.2 | 11.5 |
| 80°-90° | 49.7 | 1.2 |
| 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° | 4171.0 | 100.0 |
| 0°-180° | 4171.0 | 100.0 |

Coefficient of Utilization



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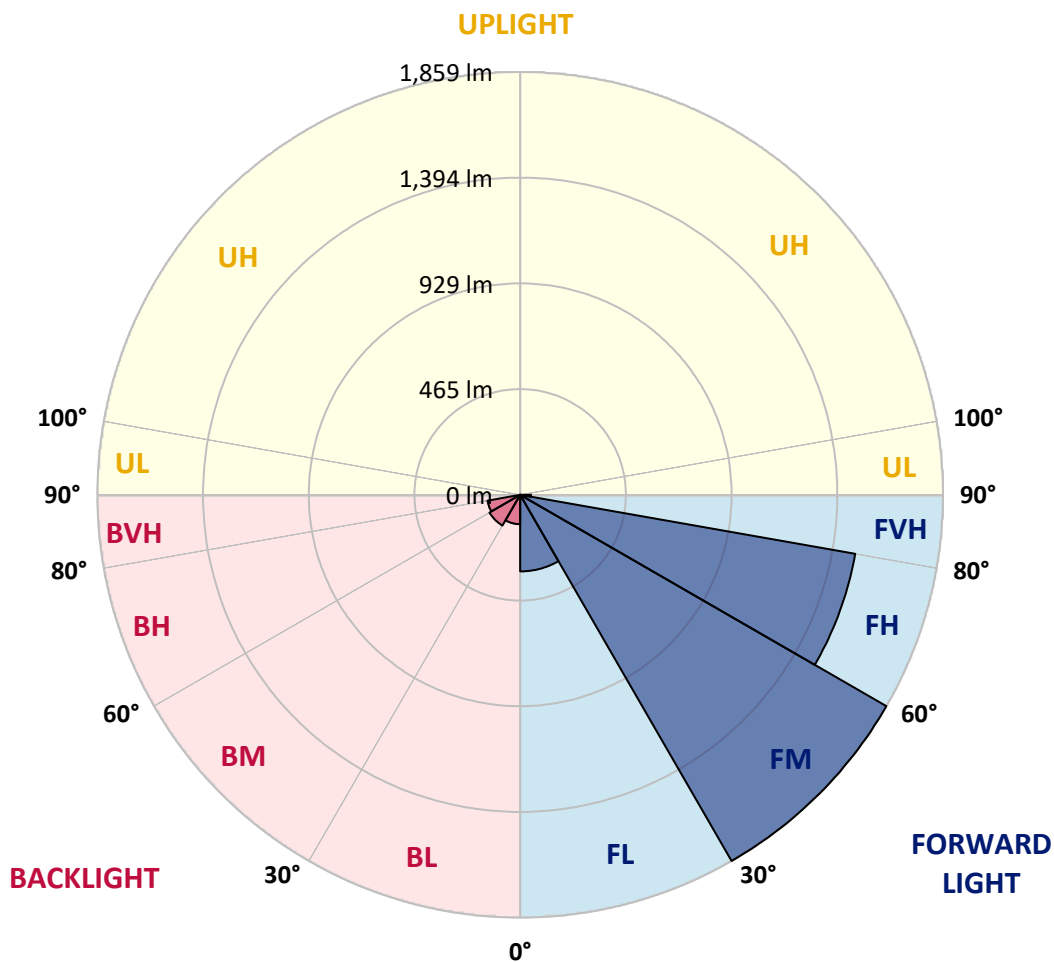
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 336.5 | 8.1 | | | |
| FM (30°-60°) | 1858.6 | 44.6 | | | |
| FH (60°-80°) | 1495.3 | 35.9 | | | G1/1800 |
| FVH (80°-90°) | 47.5 | 1.1 | | | G1/100 |
| BL (0°-30°) | 129.2 | 3.1 | B1/500 | | |
| BM (30°-60°) | 155.6 | 3.7 | B0/220 | | |
| BH (60°-80°) | 146.0 | 3.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.2 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 |
| 2.5° | 951.0 | 952.9 | 952.7 | 954.2 | 957.6 | 957.8 | 954.4 | 947.8 | 946.4 | 937.9 | 923.0 |
| 5° | 877.0 | 882.6 | 886.0 | 899.9 | 915.5 | 934.2 | 948.3 | 953.4 | 952.7 | 946.6 | 924.2 |
| 7.5° | 792.6 | 798.2 | 802.1 | 818.4 | 839.1 | 871.2 | 907.9 | 938.1 | 940.8 | 947.4 | 923.3 |
| 10° | 736.4 | 737.4 | 742.7 | 758.3 | 780.0 | 812.8 | 856.6 | 909.4 | 917.4 | 941.5 | 920.8 |
| 12.5° | 690.2 | 690.9 | 698.0 | 714.8 | 737.9 | 771.0 | 817.0 | 878.0 | 890.4 | 934.2 | 920.3 |
| 15° | 657.4 | 660.0 | 666.4 | 683.9 | 708.4 | 741.3 | 788.5 | 854.9 | 869.7 | 931.5 | 924.7 |
| 17.5° | 646.4 | 649.3 | 651.3 | 663.9 | 686.3 | 718.4 | 766.8 | 839.8 | 856.6 | 933.0 | 933.2 |
| 20° | 657.8 | 660.0 | 655.7 | 658.8 | 672.7 | 701.4 | 748.6 | 826.9 | 846.9 | 934.7 | 944.2 |
| 22.5° | 700.4 | 701.4 | 689.5 | 675.6 | 673.2 | 689.0 | 734.2 | 816.7 | 838.1 | 939.3 | 957.1 |
| 25° | 773.4 | 771.7 | 752.2 | 722.3 | 694.1 | 686.8 | 725.7 | 810.4 | 833.7 | 944.2 | 970.5 |
| 27.5° | 861.5 | 863.9 | 837.1 | 793.6 | 739.8 | 701.4 | 724.5 | 807.7 | 831.8 | 947.6 | 982.1 |
| 30° | 968.5 | 971.9 | 941.3 | 886.5 | 809.4 | 737.4 | 735.7 | 807.2 | 830.6 | 945.4 | 983.1 |
| 32.5° | 1077.8 | 1081.9 | 1057.8 | 1001.4 | 902.3 | 797.7 | 761.0 | 812.6 | 833.0 | 937.9 | 977.5 |
| 35° | 1192.1 | 1197.9 | 1181.9 | 1133.5 | 1028.4 | 884.8 | 805.5 | 828.9 | 844.4 | 937.1 | 971.9 |
| 37.5° | 1350.0 | 1355.3 | 1325.2 | 1273.8 | 1180.9 | 1001.6 | 877.0 | 859.5 | 871.4 | 948.8 | 973.4 |
| 40° | 1585.7 | 1585.0 | 1507.1 | 1428.6 | 1348.5 | 1150.0 | 977.5 | 915.0 | 921.1 | 984.1 | 991.4 |
| 42.5° | 1842.6 | 1841.4 | 1726.3 | 1606.9 | 1534.6 | 1332.7 | 1109.6 | 1010.8 | 1006.7 | 1049.0 | 1038.1 |
| 45° | 2040.7 | 2040.4 | 1946.5 | 1812.0 | 1758.7 | 1542.4 | 1280.4 | 1144.2 | 1137.8 | 1154.6 | 1124.2 |
| 47.5° | 2125.1 | 2126.6 | 2079.4 | 1984.7 | 2007.1 | 1826.1 | 1495.7 | 1337.3 | 1327.8 | 1321.0 | 1274.8 |
| 50° | 2059.4 | 2062.3 | 2066.2 | 2047.7 | 2189.3 | 2207.3 | 1784.5 | 1609.6 | 1604.9 | 1574.5 | 1502.3 |
| 52.5° | 1844.8 | 1859.7 | 1905.4 | 1964.0 | 2252.6 | 2573.2 | 2237.2 | 1947.7 | 1922.9 | 1890.6 | 1811.0 |
| 55° | 1483.3 | 1499.6 | 1586.5 | 1728.8 | 2158.4 | 2813.6 | 2871.7 | 2383.7 | 2342.3 | 2245.8 | 2130.9 |
| 57.5° | 981.7 | 1007.0 | 1133.0 | 1314.0 | 1885.0 | 2852.3 | 3504.8 | 2988.8 | 2844.7 | 2580.3 | 2450.9 |
| 60° | 540.8 | 565.2 | 701.9 | 865.9 | 1361.4 | 2661.0 | 3930.5 | 3776.5 | 3522.0 | 2954.2 | 2839.4 |
| 62.5° | 333.1 | 346.2 | 447.2 | 599.7 | 816.5 | 2100.3 | 4018.6 | 4766.4 | 4471.8 | 3435.7 | 3308.7 |
| 65° | 265.2 | 270.8 | 320.2 | 490.2 | 585.3 | 1249.3 | 3734.2 | 5521.1 | 5422.8 | 4018.6 | 3728.8 |
| 67° | 257.4 | 259.6 | 282.9 | 420.9 | 551.8 | 765.9 | 3128.4 | 5644.0 | 5743.7 | 4371.3 | 3742.0 |
| 67.5° | 259.1 | 261.5 | 283.7 | 401.7 | 550.8 | 703.8 | 2919.7 | 5595.5 | 5721.6 | 4399.3 | 3683.8 |
| 70° | 249.9 | 257.4 | 324.8 | 401.4 | 523.8 | 584.9 | 1748.5 | 4848.2 | 4979.3 | 4087.7 | 3125.7 |
| 72.5° | 88.6 | 89.0 | 140.4 | 324.8 | 569.5 | 591.2 | 878.0 | 3554.1 | 3651.2 | 3126.9 | 2253.5 |
| 75° | 52.5 | 44.8 | 46.7 | 92.4 | 544.2 | 574.2 | 506.5 | 2271.1 | 2307.3 | 1791.8 | 1141.2 |
| 77.5° | 36.2 | 31.6 | 32.6 | 40.9 | 207.3 | 566.1 | 402.4 | 1184.3 | 1145.6 | 628.4 | 243.0 |
| 80° | 20.7 | 18.2 | 19.5 | 35.8 | 75.4 | 528.2 | 379.5 | 480.2 | 409.4 | 106.6 | 67.1 |
| 82.5° | 10.9 | 9.2 | 11.2 | 29.4 | 52.5 | 329.2 | 380.3 | 232.1 | 183.9 | 36.0 | 45.7 |
| 85° | 3.9 | 3.2 | 5.4 | 20.2 | 35.0 | 101.0 | 352.5 | 195.1 | 153.3 | 17.5 | 34.8 |
| 87.5° | 0.7 | 0.7 | 2.2 | 8.3 | 14.1 | 30.9 | 208.5 | 115.8 | 77.6 | 10.5 | 23.8 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 | 919.9 |
| 2.5° | 916.9 | 906.5 | 892.4 | 875.1 | 854.7 | 836.7 | 823.3 | 809.4 | 806.5 | 801.6 | 800.9 |
| 5° | 910.9 | 892.9 | 857.8 | 817.7 | 774.9 | 736.2 | 704.8 | 676.8 | 664.4 | 653.7 | 652.5 |
| 7.5° | 901.9 | 874.9 | 815.2 | 750.5 | 683.6 | 622.8 | 571.2 | 534.7 | 501.2 | 485.1 | 482.7 |
| 10° | 891.4 | 852.7 | 767.3 | 677.5 | 585.1 | 499.2 | 422.6 | 358.4 | 319.4 | 296.3 | 293.4 |
| 12.5° | 881.7 | 831.1 | 718.4 | 601.9 | 479.0 | 364.2 | 265.7 | 204.4 | 163.5 | 146.9 | 145.0 |
| 15° | 877.0 | 813.5 | 672.7 | 524.5 | 368.1 | 231.9 | 145.2 | 112.4 | 99.0 | 95.1 | 94.9 |
| 17.5° | 876.6 | 798.7 | 627.9 | 444.5 | 257.9 | 134.8 | 94.6 | 86.4 | 83.7 | 82.7 | 82.7 |
| 20° | 876.3 | 784.6 | 583.2 | 361.5 | 163.7 | 89.8 | 78.8 | 76.9 | 74.9 | 73.7 | 73.7 |
| 22.5° | 879.0 | 771.9 | 536.4 | 276.9 | 103.2 | 72.7 | 69.3 | 67.4 | 65.0 | 63.3 | 63.0 |
| 25° | 881.7 | 762.2 | 488.8 | 197.1 | 74.7 | 63.3 | 59.8 | 57.2 | 53.8 | 51.6 | 51.3 |
| 27.5° | 882.2 | 750.0 | 437.7 | 131.9 | 62.5 | 55.2 | 50.8 | 46.7 | 42.8 | 40.6 | 40.4 |
| 30° | 874.9 | 729.6 | 381.0 | 89.0 | 55.2 | 47.9 | 42.1 | 37.7 | 34.1 | 32.4 | 32.4 |
| 32.5° | 860.5 | 704.3 | 318.7 | 67.1 | 49.1 | 41.1 | 34.8 | 30.7 | 28.2 | 27.5 | 27.2 |
| 35° | 847.6 | 677.1 | 254.7 | 56.9 | 44.0 | 34.8 | 28.5 | 25.8 | 24.3 | 24.1 | 23.8 |
| 37.5° | 840.1 | 655.2 | 194.6 | 51.6 | 39.2 | 29.2 | 24.1 | 22.1 | 21.4 | 20.9 | 21.2 |
| 40° | 845.9 | 636.9 | 143.8 | 47.2 | 34.3 | 24.3 | 20.4 | 19.5 | 18.7 | 18.5 | 18.5 |
| 42.5° | 871.4 | 633.8 | 106.8 | 43.3 | 29.7 | 20.2 | 17.8 | 17.0 | 16.5 | 16.3 | 16.5 |
| 45° | 938.6 | 653.2 | 83.0 | 39.7 | 25.1 | 17.0 | 15.1 | 14.8 | 14.6 | 14.6 | 14.6 |
| 47.5° | 1039.6 | 693.4 | 69.1 | 35.5 | 20.9 | 14.6 | 13.1 | 12.9 | 12.7 | 12.9 | 12.9 |
| 50° | 1210.6 | 766.8 | 61.8 | 31.4 | 17.3 | 12.4 | 11.2 | 11.2 | 11.2 | 11.2 | 11.4 |
| 52.5° | 1470.7 | 911.3 | 56.9 | 27.2 | 14.1 | 10.5 | 9.5 | 9.5 | 9.7 | 9.7 | 10.0 |
| 55° | 1760.4 | 1103.1 | 52.5 | 23.1 | 11.9 | 8.8 | 7.8 | 8.0 | 8.3 | 8.5 | 8.5 |
| 57.5° | 2074.7 | 1315.4 | 48.9 | 19.0 | 10.2 | 7.1 | 6.6 | 6.8 | 7.1 | 7.5 | 7.5 |
| 60° | 2454.0 | 1545.3 | 43.5 | 14.8 | 8.5 | 5.6 | 5.1 | 5.6 | 6.3 | 6.8 | 7.1 |
| 62.5° | 2870.5 | 1767.7 | 36.7 | 11.7 | 7.1 | 4.4 | 4.1 | 5.1 | 6.1 | 6.6 | 6.8 |
| 65° | 3155.2 | 1837.5 | 28.2 | 9.5 | 5.4 | 3.2 | 3.4 | 4.6 | 5.8 | 6.6 | 6.6 |
| 67° | 3039.8 | 1666.0 | 23.1 | 8.0 | 4.4 | 2.4 | 3.2 | 4.6 | 5.8 | 6.3 | 6.6 |
| 67.5° | 2959.8 | 1598.9 | 22.1 | 7.8 | 4.1 | 2.4 | 3.2 | 4.6 | 5.8 | 6.6 | 6.6 |
| 70° | 2408.3 | 1201.1 | 18.5 | 5.8 | 3.4 | 2.2 | 2.7 | 4.4 | 5.6 | 6.3 | 6.3 |
| 72.5° | 1673.3 | 740.6 | 16.5 | 4.1 | 2.9 | 1.9 | 2.4 | 4.1 | 5.4 | 6.1 | 6.3 |
| 75° | 795.5 | 268.1 | 14.1 | 3.2 | 2.7 | 1.7 | 2.2 | 4.1 | 5.4 | 6.1 | 6.1 |
| 77.5° | 162.3 | 62.3 | 11.4 | 2.7 | 2.2 | 1.7 | 1.9 | 3.9 | 5.1 | 5.8 | 5.8 |
| 80° | 53.3 | 24.1 | 8.5 | 2.4 | 2.2 | 1.7 | 1.9 | 3.6 | 5.1 | 5.6 | 5.8 |
| 82.5° | 38.4 | 12.2 | 5.6 | 2.4 | 2.2 | 1.7 | 1.7 | 3.6 | 4.9 | 5.6 | 5.6 |
| 85° | 29.4 | 8.5 | 3.6 | 2.4 | 2.2 | 1.7 | 1.7 | 3.4 | 4.6 | 5.4 | 5.4 |
| 87.5° | 19.5 | 3.4 | 2.9 | 2.4 | 2.2 | 1.7 | 1.7 | 3.4 | 4.4 | 5.1 | 5.4 |
| 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)