

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: P191771

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7050-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-AFL-7050-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18644 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

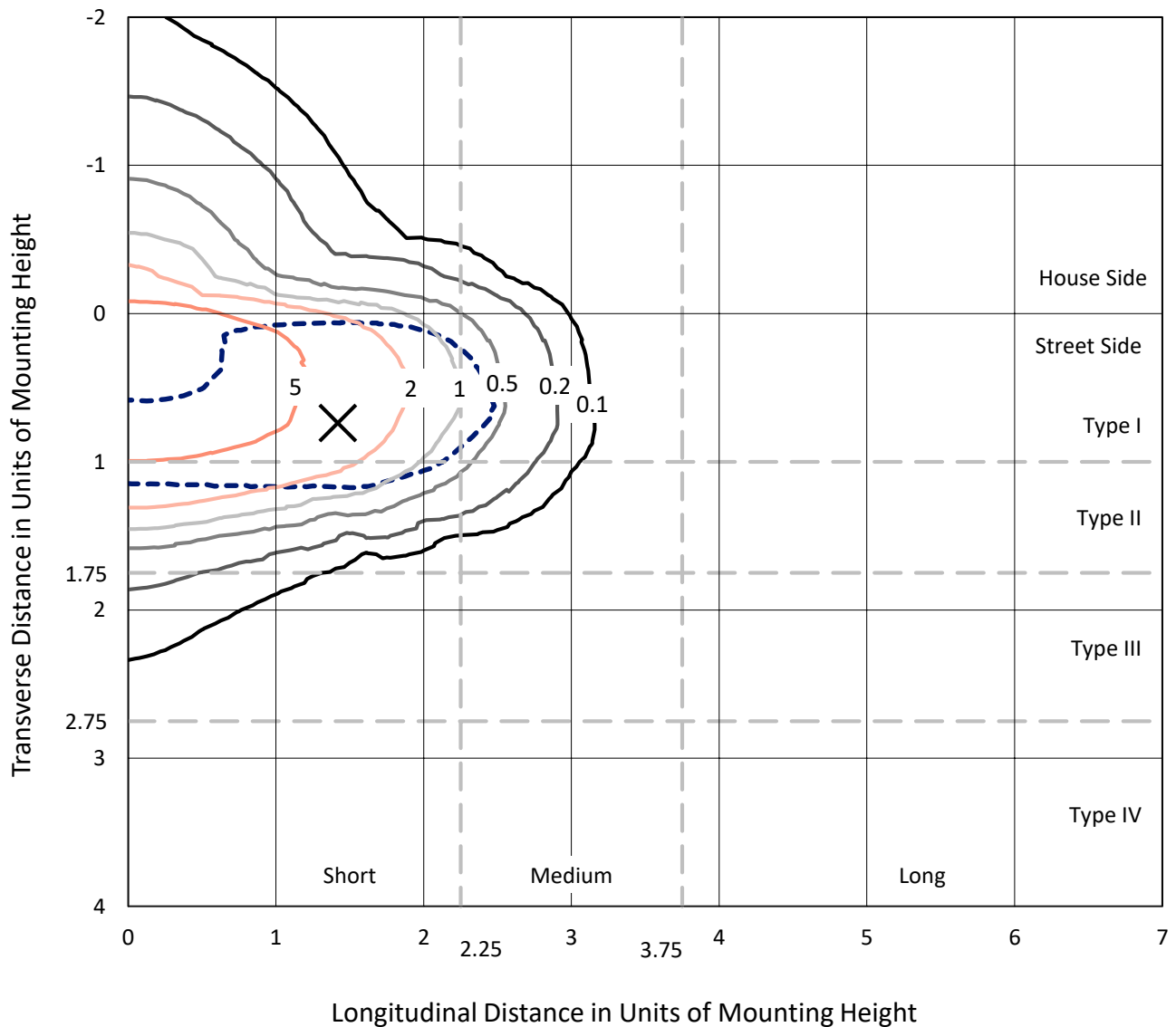
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

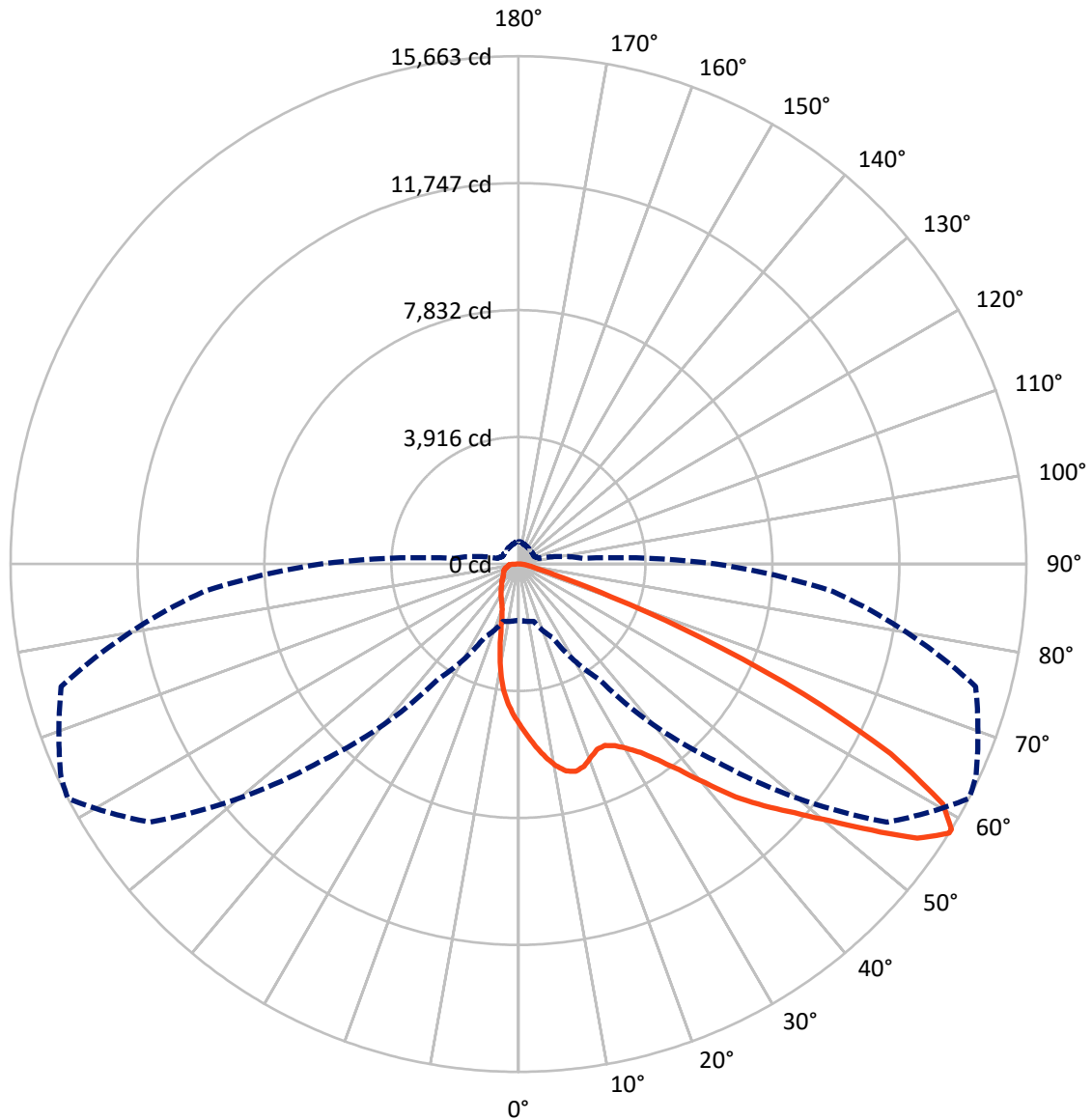
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2843.3 | 0.0 | 2843.3 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 15800.7 | 0.0 | 15800.7 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 18644.0 | 0.0 | 18644.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 442.9 | 2.4 |
| 10°-20° | 1132.2 | 6.1 |
| 20°-30° | 1830.2 | 9.8 |
| 30°-40° | 2905.4 | 15.6 |
| 40°-50° | 4251.2 | 22.8 |
| 50°-60° | 4446.4 | 23.8 |
| 60°-70° | 2627.0 | 14.1 |
| 70°-80° | 740.0 | 4.0 |
| 80°-90° | 268.7 | 1.4 |
| 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° | 18644.0 | 100.0 |
| 0°-180° | 18644.0 | 100.0 |



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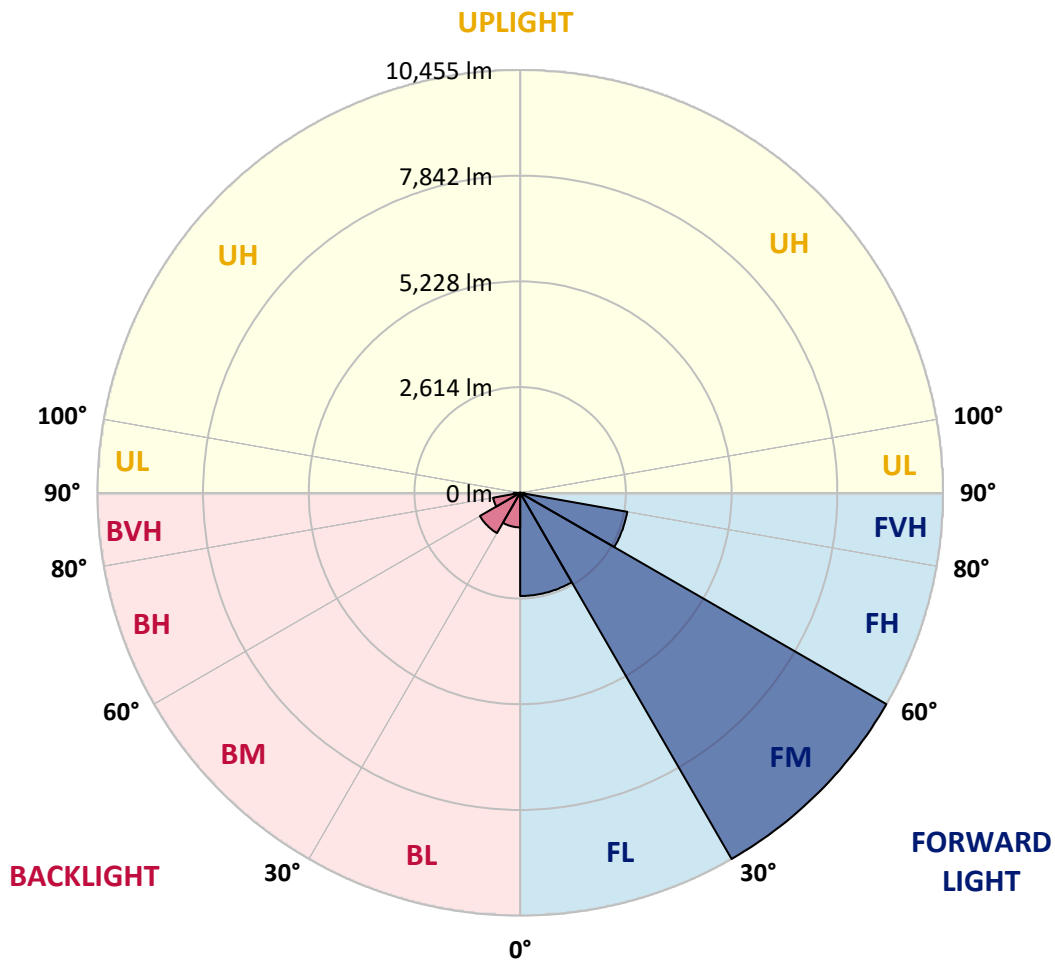
CATALOG NUMBER: GAN-AF-03-LED-U-AFL-7050-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2550.7 | 13.7 | | | |
| FM | (30°-60°) | 10455.5 | 56.1 | | | |
| FH | (60°-80°) | 2688.5 | 14.4 | | | G2/5000 |
| FVH | (80°-90°) | 106.0 | 0.6 | | | G2/225 |
| BL | (0°-30°) | 854.6 | 4.6 | B2/1000 | | |
| BM | (30°-60°) | 1147.6 | 6.2 | B2/2500 | | |
| BH | (60°-80°) | 678.4 | 3.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 162.7 | 0.9 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 |
| 2.5° | 5659.1 | 5613.5 | 5584.5 | 5559.0 | 5525.7 | 5454.6 | 5358.9 | 5298.3 | 5267.6 | 5163.1 | 5039.3 |
| 5° | 6214.0 | 6173.6 | 6143.7 | 6109.5 | 6049.8 | 5938.3 | 5783.8 | 5660.9 | 5600.3 | 5391.4 | 5143.8 |
| 7.5° | 6084.0 | 6100.7 | 6152.5 | 6243.0 | 6320.2 | 6305.3 | 6167.5 | 6011.2 | 5931.3 | 5640.7 | 5264.9 |
| 10° | 5300.9 | 5329.9 | 5419.5 | 5631.0 | 5973.4 | 6324.6 | 6431.7 | 6323.7 | 6243.0 | 5887.4 | 5389.6 |
| 12.5° | 5143.8 | 5142.9 | 5149.9 | 5206.1 | 5409.8 | 5904.1 | 6440.5 | 6549.4 | 6501.1 | 6122.7 | 5516.9 |
| 15° | 5207.9 | 5209.6 | 5204.4 | 5228.1 | 5291.3 | 5487.1 | 6171.8 | 6636.3 | 6670.5 | 6359.7 | 5648.6 |
| 17.5° | 5376.4 | 5372.0 | 5351.9 | 5351.9 | 5374.7 | 5451.1 | 5855.8 | 6555.5 | 6713.5 | 6569.5 | 5764.5 |
| 20° | 5659.1 | 5638.9 | 5585.4 | 5536.2 | 5511.6 | 5552.9 | 5725.9 | 6369.4 | 6638.9 | 6753.0 | 5860.2 |
| 22.5° | 6001.5 | 5985.7 | 5898.8 | 5793.5 | 5708.3 | 5707.4 | 5792.6 | 6207.0 | 6509.8 | 6926.0 | 5940.9 |
| 25° | 6444.0 | 6418.5 | 6289.5 | 6120.9 | 5971.7 | 5914.6 | 5938.3 | 6199.1 | 6439.6 | 7113.9 | 6012.9 |
| 27.5° | 6963.7 | 6917.2 | 6764.4 | 6521.3 | 6301.8 | 6186.8 | 6152.5 | 6342.2 | 6503.7 | 7346.5 | 6113.0 |
| 30° | 7594.1 | 7540.5 | 7344.8 | 7027.8 | 6717.9 | 6529.2 | 6456.3 | 6595.9 | 6716.2 | 7630.1 | 6273.7 |
| 32.5° | 8311.4 | 8234.1 | 8007.6 | 7658.2 | 7250.8 | 6962.9 | 6844.3 | 6931.3 | 7026.9 | 7971.6 | 6474.7 |
| 35° | 9302.5 | 9210.4 | 8882.9 | 8400.9 | 7940.9 | 7544.9 | 7355.3 | 7418.5 | 7511.6 | 8480.8 | 6765.3 |
| 37.5° | 9978.5 | 9937.3 | 9719.6 | 9266.5 | 8766.1 | 8310.5 | 8017.2 | 8054.1 | 8106.8 | 9117.3 | 7137.6 |
| 40° | 9972.4 | 9989.1 | 9993.5 | 9997.9 | 9657.2 | 9220.9 | 8905.7 | 8867.1 | 8856.6 | 9816.1 | 7560.7 |
| 42.5° | 9472.9 | 9541.3 | 9762.6 | 10211.2 | 10418.4 | 10218.2 | 9929.4 | 9817.9 | 9762.6 | 10639.6 | 8009.3 |
| 45° | 8708.2 | 8745.1 | 9159.4 | 10035.6 | 10808.2 | 11205.9 | 10987.3 | 10636.1 | 10536.0 | 11396.4 | 8381.6 |
| 47.5° | 8314.0 | 8354.4 | 8615.1 | 9570.3 | 10803.8 | 12003.9 | 12130.3 | 11461.4 | 11282.3 | 12054.8 | 8702.9 |
| 50° | 7375.5 | 7459.8 | 7788.1 | 8760.9 | 10409.6 | 12370.9 | 13325.2 | 12444.6 | 12074.2 | 12695.7 | 9025.1 |
| 52.5° | 5652.1 | 5782.0 | 6149.9 | 7429.9 | 9409.6 | 12189.2 | 14281.3 | 13636.9 | 13113.6 | 13359.4 | 9301.7 |
| 55° | 3565.3 | 3661.8 | 3970.9 | 5247.4 | 7527.4 | 11243.6 | 14643.9 | 14926.6 | 14461.3 | 13988.0 | 9541.3 |
| 57.5° | 1938.5 | 1981.5 | 2097.4 | 2897.2 | 4896.2 | 9153.3 | 14115.3 | 15660.5 | 15467.4 | 14521.8 | 9722.2 |
| 58° | 1734.8 | 1763.8 | 1835.8 | 2510.9 | 4342.2 | 8581.8 | 13880.9 | 15663.1 | 15566.6 | 14600.0 | 9736.2 |
| 60° | 1287.0 | 1272.1 | 1208.0 | 1432.8 | 2416.9 | 5928.7 | 12464.0 | 15036.3 | 15319.9 | 14695.7 | 9667.8 |
| 62.5° | 1130.8 | 1094.8 | 964.0 | 949.0 | 1175.5 | 2731.2 | 9536.9 | 12880.1 | 13550.0 | 14149.6 | 9251.6 |
| 65° | 1062.3 | 1023.7 | 855.1 | 800.7 | 848.1 | 1155.4 | 5617.9 | 9659.9 | 10500.0 | 12493.8 | 8187.6 |
| 67.5° | 1011.4 | 961.3 | 785.7 | 711.1 | 714.6 | 763.8 | 2251.9 | 6084.0 | 7029.6 | 9486.0 | 6368.5 |
| 70° | 962.2 | 907.8 | 726.9 | 640.9 | 620.7 | 604.0 | 895.5 | 3045.5 | 3903.3 | 5991.9 | 4060.4 |
| 72.5° | 909.5 | 856.0 | 675.1 | 585.6 | 546.1 | 490.8 | 584.7 | 1245.8 | 1740.1 | 2834.8 | 1841.9 |
| 75° | 833.2 | 784.9 | 623.3 | 536.4 | 480.2 | 406.5 | 441.6 | 650.5 | 780.5 | 1129.0 | 887.6 |
| 77.5° | 739.2 | 699.7 | 565.4 | 496.0 | 425.8 | 330.1 | 339.8 | 451.3 | 500.4 | 646.2 | 527.6 |
| 80° | 531.1 | 545.2 | 503.1 | 446.0 | 379.3 | 267.8 | 260.7 | 329.2 | 355.6 | 415.3 | 343.3 |
| 82.5° | 373.1 | 381.0 | 416.1 | 364.3 | 313.4 | 210.7 | 192.3 | 231.8 | 247.6 | 273.0 | 185.2 |
| 85° | 257.2 | 248.5 | 285.3 | 253.7 | 226.5 | 140.5 | 131.7 | 157.1 | 166.8 | 169.4 | 95.7 |
| 87.5° | 154.5 | 154.5 | 165.1 | 136.1 | 122.0 | 72.9 | 71.1 | 89.5 | 95.7 | 91.3 | 52.7 |
| 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° | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 | 4952.4 |
| 2.5° | 4965.6 | 4903.2 | 4770.7 | 4664.4 | 4530.1 | 4390.5 | 4312.4 | 4229.0 | 4171.9 | 4130.7 | 4196.5 |
| 5° | 5003.3 | 4876.0 | 4602.1 | 4342.2 | 4055.2 | 3756.7 | 3530.2 | 3319.5 | 3172.8 | 3081.5 | 3167.6 |
| 7.5° | 5063.0 | 4867.2 | 4430.9 | 3986.7 | 3471.3 | 2974.4 | 2530.2 | 2251.9 | 2089.5 | 2009.6 | 2059.6 |
| 10° | 5131.5 | 4853.2 | 4229.9 | 3504.7 | 2767.2 | 2141.3 | 1809.4 | 1697.0 | 1660.2 | 1645.2 | 1652.3 |
| 12.5° | 5188.6 | 4823.3 | 3983.2 | 2921.7 | 2078.1 | 1690.9 | 1595.2 | 1592.6 | 1600.5 | 1602.2 | 1604.9 |
| 15° | 5228.9 | 4779.4 | 3617.1 | 2314.2 | 1661.9 | 1540.8 | 1535.5 | 1551.3 | 1566.2 | 1572.4 | 1575.9 |
| 17.5° | 5256.2 | 4689.0 | 3203.6 | 1829.6 | 1489.0 | 1467.9 | 1480.2 | 1500.4 | 1516.2 | 1520.6 | 1524.1 |
| 20° | 5253.5 | 4556.5 | 2711.0 | 1525.8 | 1395.0 | 1395.0 | 1416.1 | 1431.9 | 1432.8 | 1427.5 | 1430.1 |
| 22.5° | 5226.3 | 4374.7 | 2233.5 | 1364.3 | 1311.6 | 1326.6 | 1347.6 | 1332.7 | 1271.2 | 1230.9 | 1233.5 |
| 25° | 5180.7 | 4157.9 | 1824.3 | 1261.6 | 1234.4 | 1260.7 | 1254.6 | 1142.2 | 1054.4 | 1014.9 | 1014.9 |
| 27.5° | 5140.3 | 3901.5 | 1510.0 | 1172.0 | 1157.1 | 1189.6 | 1080.7 | 978.9 | 942.0 | 923.6 | 917.4 |
| 30° | 5111.3 | 3625.0 | 1300.2 | 1086.0 | 1084.2 | 1060.5 | 937.6 | 909.5 | 903.4 | 888.5 | 883.2 |
| 32.5° | 5118.3 | 3344.9 | 1165.9 | 1010.5 | 1016.6 | 907.8 | 869.1 | 875.3 | 870.0 | 854.2 | 847.2 |
| 35° | 5176.3 | 3078.9 | 1078.1 | 942.0 | 923.6 | 820.0 | 828.8 | 840.2 | 838.4 | 816.5 | 809.5 |
| 37.5° | 5279.9 | 2826.9 | 1020.2 | 885.0 | 805.9 | 776.1 | 790.1 | 807.7 | 803.3 | 788.4 | 783.1 |
| 40° | 5388.7 | 2589.9 | 972.7 | 840.2 | 736.6 | 746.2 | 758.5 | 768.2 | 772.6 | 777.0 | 773.5 |
| 42.5° | 5495.0 | 2342.3 | 914.8 | 794.5 | 707.6 | 718.1 | 723.4 | 733.1 | 756.8 | 773.5 | 772.6 |
| 45° | 5558.2 | 2109.7 | 855.1 | 729.6 | 684.8 | 690.9 | 687.4 | 706.7 | 735.7 | 762.9 | 763.8 |
| 47.5° | 5628.4 | 1928.8 | 807.7 | 669.9 | 662.8 | 667.2 | 656.7 | 676.0 | 702.3 | 735.7 | 739.2 |
| 50° | 5713.6 | 1820.8 | 769.9 | 622.5 | 633.0 | 633.0 | 630.4 | 647.9 | 684.8 | 723.4 | 730.4 |
| 52.5° | 5810.1 | 1799.8 | 738.3 | 588.2 | 603.1 | 602.3 | 604.9 | 631.2 | 671.6 | 709.4 | 715.5 |
| 55° | 5927.8 | 1856.8 | 704.1 | 562.8 | 574.2 | 577.7 | 586.5 | 616.3 | 650.5 | 693.6 | 696.2 |
| 57.5° | 6064.7 | 1972.7 | 676.9 | 542.6 | 547.8 | 559.2 | 573.3 | 600.5 | 637.4 | 684.8 | 687.4 |
| 58° | 6087.6 | 1997.3 | 672.5 | 540.8 | 542.6 | 555.7 | 571.5 | 597.9 | 634.7 | 686.5 | 689.2 |
| 60° | 6088.4 | 2078.9 | 662.8 | 532.9 | 522.4 | 544.3 | 561.9 | 588.2 | 630.4 | 692.7 | 698.8 |
| 62.5° | 5872.5 | 2078.1 | 655.8 | 521.5 | 501.3 | 528.5 | 548.7 | 579.4 | 626.0 | 707.6 | 719.9 |
| 65° | 5171.0 | 1888.4 | 622.5 | 503.9 | 484.6 | 514.5 | 537.3 | 573.3 | 638.3 | 772.6 | 780.5 |
| 67.5° | 4044.6 | 1547.8 | 560.1 | 479.3 | 462.7 | 500.4 | 530.3 | 572.4 | 651.4 | 787.5 | 792.8 |
| 70° | 2674.2 | 1158.0 | 491.6 | 451.3 | 439.8 | 483.7 | 533.8 | 602.3 | 636.5 | 755.9 | 741.9 |
| 72.5° | 1388.0 | 813.0 | 436.3 | 416.1 | 413.5 | 468.8 | 584.7 | 598.7 | 621.6 | 711.1 | 693.6 |
| 75° | 728.7 | 564.5 | 388.0 | 377.5 | 381.9 | 465.3 | 690.1 | 582.9 | 602.3 | 680.4 | 713.8 |
| 77.5° | 446.0 | 455.6 | 346.8 | 342.4 | 351.2 | 454.8 | 689.2 | 562.8 | 574.2 | 626.0 | 662.8 |
| 80° | 298.5 | 369.6 | 315.2 | 316.1 | 322.2 | 416.1 | 618.9 | 531.1 | 539.9 | 591.7 | 629.5 |
| 82.5° | 188.8 | 218.6 | 286.2 | 301.1 | 293.2 | 343.3 | 525.9 | 483.7 | 496.0 | 676.9 | 715.5 |
| 85° | 95.7 | 137.0 | 248.5 | 289.7 | 264.3 | 240.6 | 426.7 | 424.0 | 430.2 | 488.1 | 510.1 |
| 87.5° | 43.9 | 75.5 | 194.0 | 252.8 | 199.3 | 150.1 | 309.9 | 314.3 | 338.9 | 346.8 | 346.8 |
| 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)