

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: P193689

Luminaire Tested: **GAN-AF-01-LED-U-SL3-8030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-8030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3350 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - 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

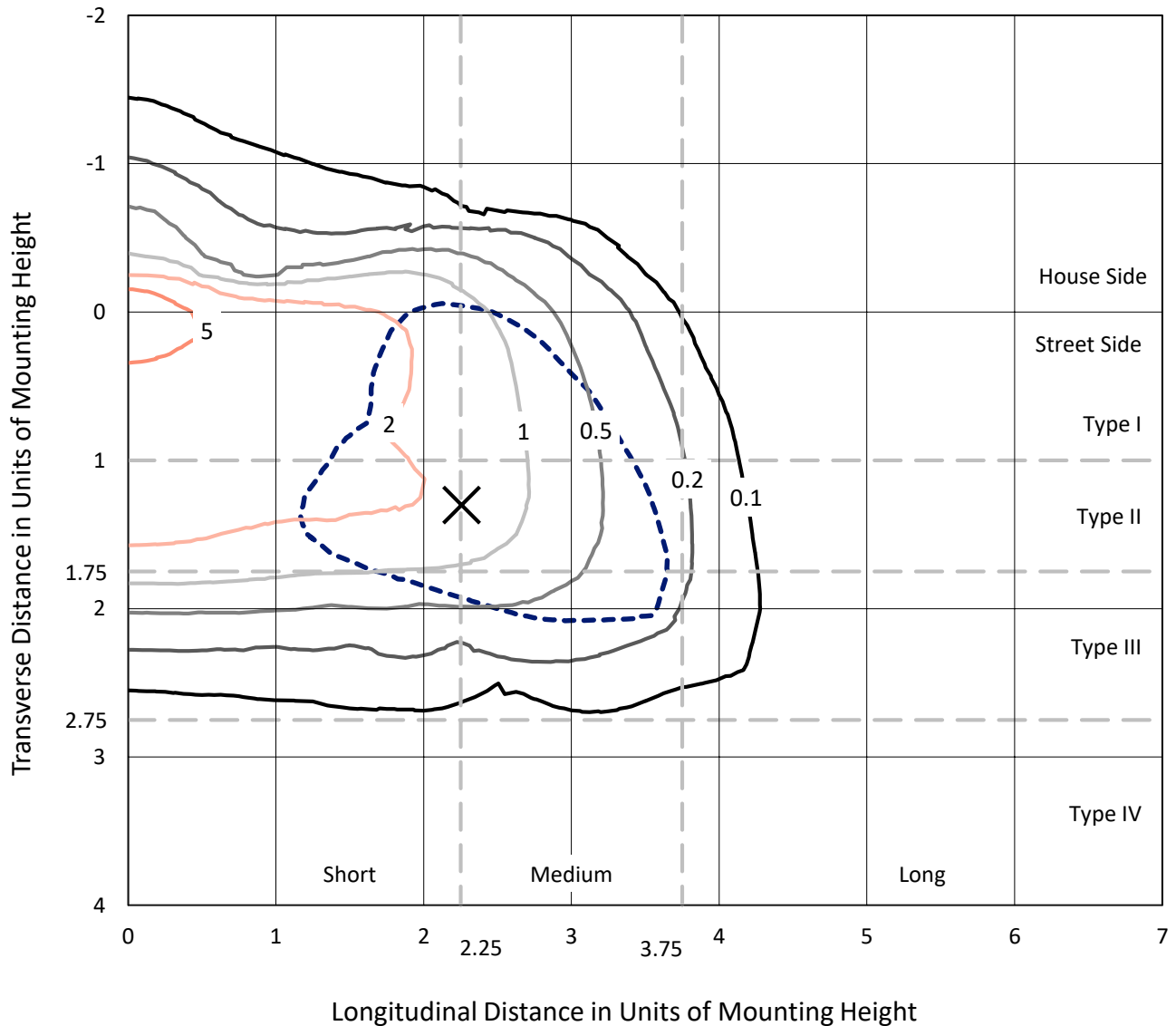


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

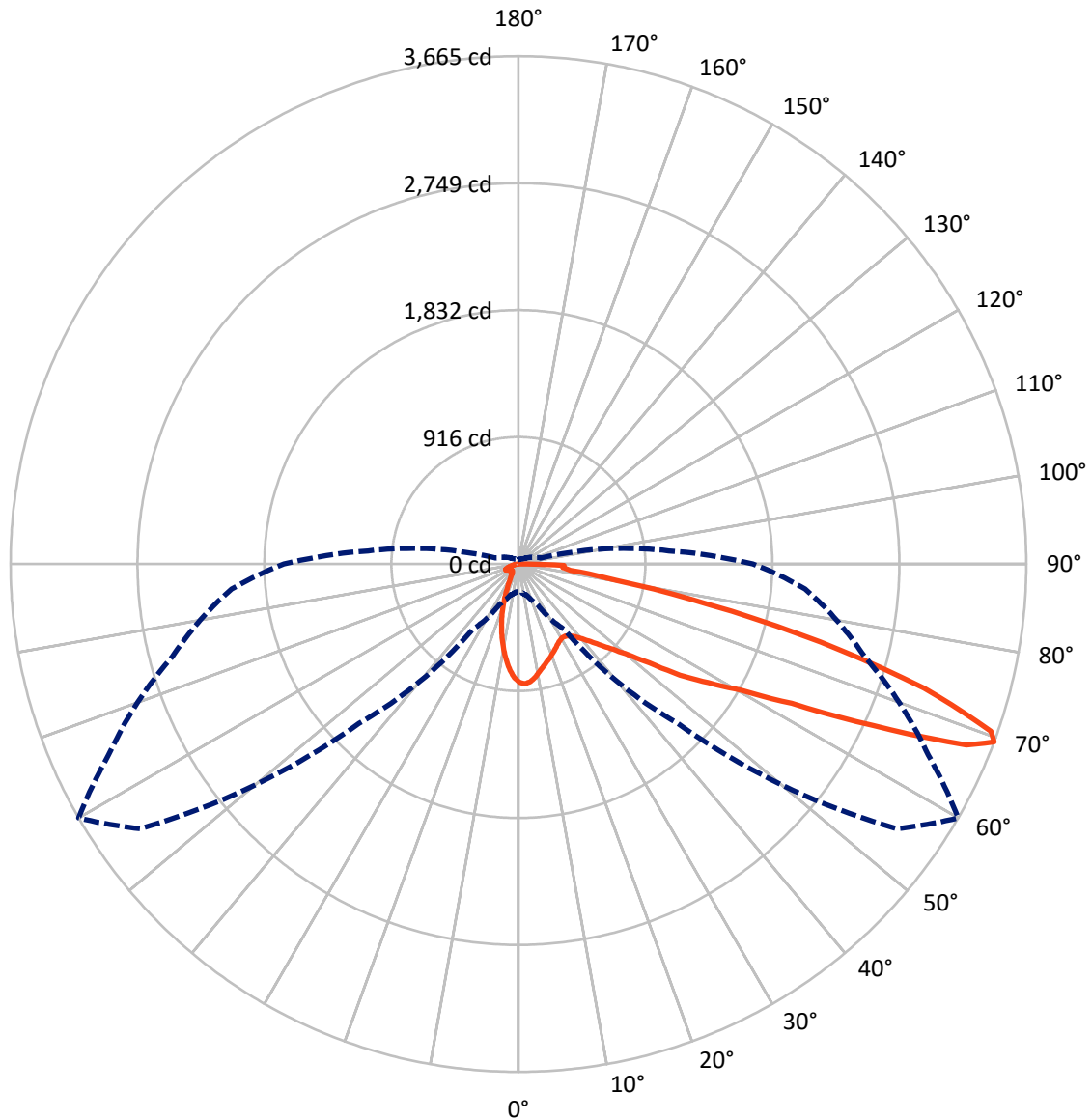


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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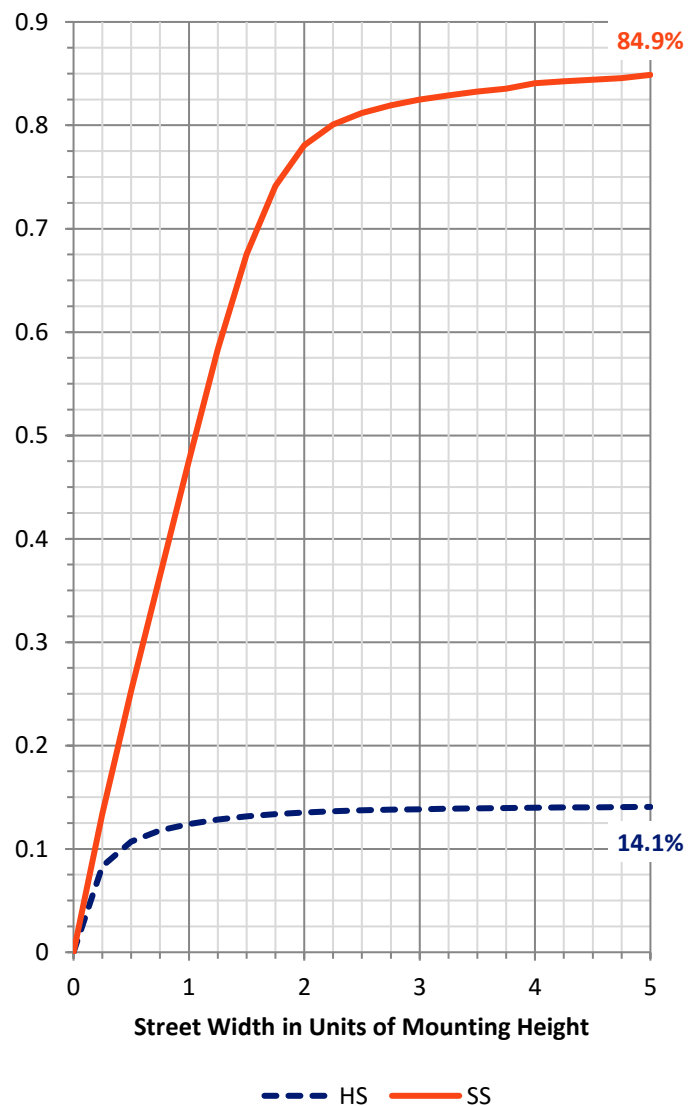
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 476.6 | 0.0 | 476.6 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 2873.4 | 0.0 | 2873.4 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 3350.0 | 0.0 | 3350.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.2 | 2.2 |
| 10°-20° | 153.8 | 4.6 |
| 20°-30° | 195.9 | 5.8 |
| 30°-40° | 269.4 | 8.0 |
| 40°-50° | 437.1 | 13.0 |
| 50°-60° | 701.0 | 20.9 |
| 60°-70° | 932.9 | 27.8 |
| 70°-80° | 503.7 | 15.0 |
| 80°-90° | 84.1 | 2.5 |
| 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° | 3350.0 | 100.0 |
| 0°-180° | 3350.0 | 100.0 |

Coefficient of Utilization



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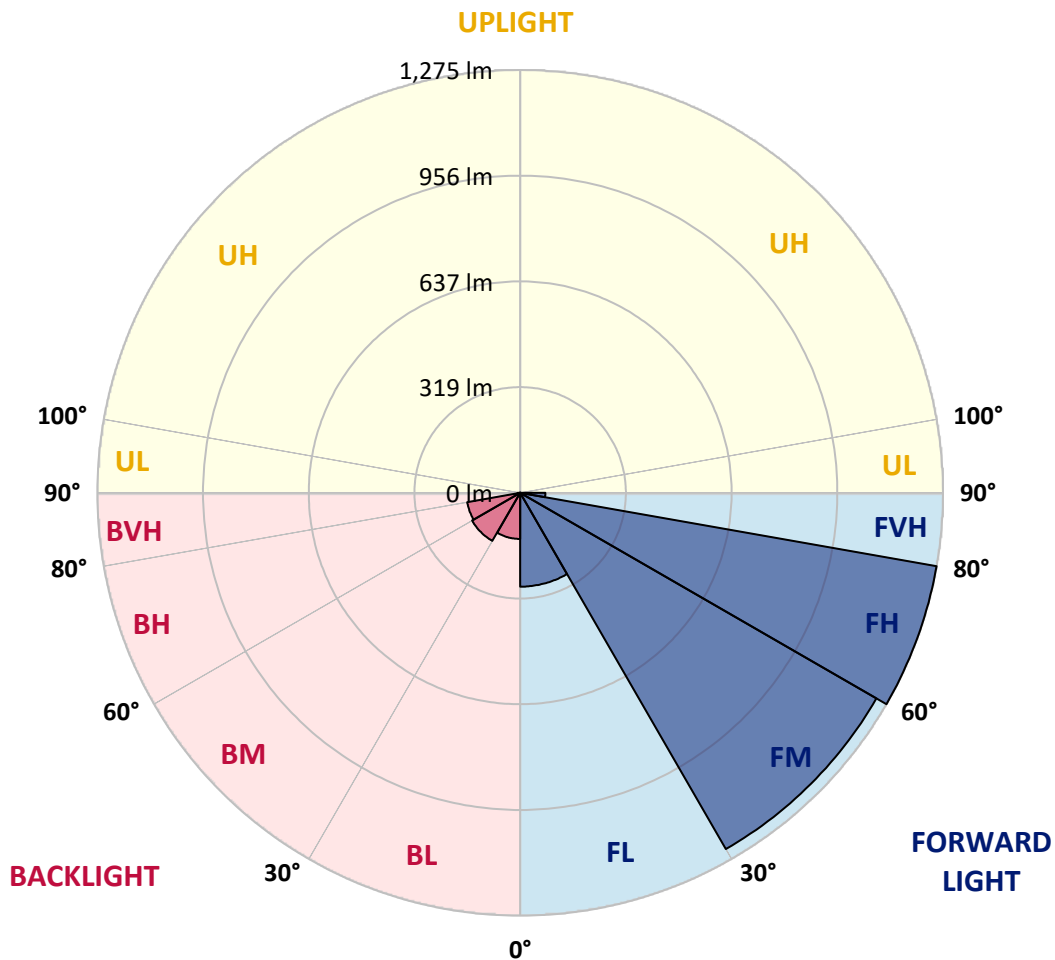
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 282.9 | 8.4 | | | |
| FM (30°-60°) | 1240.0 | 37.0 | | | |
| FH (60°-80°) | 1274.6 | 38.0 | | | G1/1800 |
| FVH (80°-90°) | 76.0 | 2.3 | | | G1/100 |
| BL (0°-30°) | 139.0 | 4.2 | B1/500 | | |
| BM (30°-60°) | 167.4 | 5.0 | B0/220 | | |
| BH (60°-80°) | 162.0 | 4.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 8.1 | 0.2 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 |
| 2.5° | 871.1 | 873.0 | 872.2 | 871.8 | 873.2 | 870.9 | 866.3 | 864.8 | 862.5 | 857.2 | 848.1 |
| 5° | 838.4 | 844.2 | 843.9 | 848.3 | 855.6 | 857.5 | 855.4 | 855.7 | 851.5 | 844.9 | 829.8 |
| 7.5° | 781.9 | 784.4 | 785.7 | 795.2 | 808.5 | 819.2 | 828.2 | 831.1 | 829.2 | 823.5 | 804.1 |
| 10° | 723.7 | 725.6 | 728.7 | 739.9 | 756.7 | 771.4 | 788.6 | 798.4 | 802.7 | 801.7 | 780.0 |
| 12.5° | 673.7 | 675.6 | 679.7 | 692.3 | 712.4 | 730.5 | 755.4 | 767.7 | 777.7 | 783.7 | 760.4 |
| 15° | 628.9 | 633.1 | 636.9 | 651.5 | 674.0 | 697.8 | 726.0 | 741.5 | 757.0 | 770.5 | 743.1 |
| 17.5° | 593.9 | 598.1 | 600.4 | 613.6 | 637.6 | 666.7 | 699.7 | 718.0 | 737.4 | 759.4 | 726.0 |
| 20° | 573.7 | 575.6 | 574.6 | 582.1 | 603.6 | 634.5 | 673.7 | 694.9 | 718.3 | 749.1 | 708.8 |
| 22.5° | 568.0 | 568.2 | 564.6 | 563.8 | 577.7 | 603.8 | 645.8 | 671.6 | 700.4 | 742.3 | 694.1 |
| 25° | 581.8 | 581.3 | 571.6 | 563.6 | 565.1 | 580.3 | 619.0 | 648.9 | 685.3 | 740.8 | 682.7 |
| 27.5° | 612.3 | 613.8 | 599.4 | 584.5 | 569.8 | 569.3 | 598.6 | 630.1 | 673.0 | 747.5 | 677.9 |
| 30° | 655.2 | 657.7 | 642.3 | 623.4 | 595.7 | 572.9 | 590.7 | 619.0 | 665.4 | 761.2 | 677.1 |
| 32.5° | 702.2 | 704.8 | 693.1 | 673.2 | 636.9 | 594.9 | 596.2 | 620.0 | 665.1 | 780.5 | 682.6 |
| 35° | 752.2 | 755.1 | 749.1 | 732.3 | 692.0 | 635.5 | 617.2 | 635.7 | 675.6 | 809.9 | 697.3 |
| 37.5° | 808.0 | 812.5 | 814.1 | 798.1 | 755.1 | 689.1 | 651.7 | 665.4 | 699.4 | 850.9 | 724.3 |
| 40° | 888.4 | 894.7 | 894.2 | 871.3 | 827.4 | 761.4 | 704.9 | 708.5 | 736.5 | 905.6 | 767.5 |
| 42.5° | 1042.5 | 1043.8 | 1003.5 | 953.5 | 907.0 | 837.4 | 767.7 | 764.8 | 787.6 | 974.8 | 831.1 |
| 45° | 1238.5 | 1233.1 | 1143.5 | 1046.9 | 990.2 | 924.8 | 849.4 | 835.2 | 852.5 | 1059.3 | 910.8 |
| 47.5° | 1401.1 | 1388.8 | 1275.5 | 1142.2 | 1078.2 | 1019.8 | 945.4 | 920.5 | 930.0 | 1155.1 | 1013.7 |
| 50° | 1457.6 | 1448.3 | 1354.5 | 1221.5 | 1161.6 | 1135.7 | 1063.5 | 1028.2 | 1030.8 | 1269.4 | 1134.2 |
| 52.5° | 1445.4 | 1444.1 | 1381.5 | 1273.7 | 1239.6 | 1257.4 | 1230.8 | 1183.1 | 1157.9 | 1396.2 | 1264.3 |
| 55° | 1416.8 | 1419.5 | 1396.9 | 1334.6 | 1328.8 | 1374.9 | 1449.5 | 1414.2 | 1335.7 | 1524.2 | 1398.8 |
| 57.5° | 1317.3 | 1324.4 | 1374.2 | 1411.1 | 1472.3 | 1540.9 | 1625.5 | 1615.5 | 1527.1 | 1662.6 | 1558.7 |
| 60° | 1061.3 | 1077.8 | 1211.4 | 1396.2 | 1620.0 | 1834.6 | 1872.5 | 1849.2 | 1724.6 | 1834.3 | 1769.9 |
| 62.5° | 743.6 | 760.7 | 919.7 | 1208.8 | 1595.8 | 2166.4 | 2313.9 | 2213.5 | 2008.1 | 2087.2 | 2043.2 |
| 65° | 398.1 | 406.3 | 527.7 | 838.7 | 1347.2 | 2234.8 | 2959.1 | 2806.2 | 2457.0 | 2399.1 | 2277.1 |
| 67.5° | 219.6 | 224.1 | 270.6 | 423.5 | 862.9 | 1968.0 | 3370.2 | 3485.7 | 3018.1 | 2606.7 | 2234.5 |
| 69° | 198.6 | 202.8 | 233.2 | 320.7 | 577.4 | 1627.2 | 3330.1 | 3664.9 | 3264.0 | 2586.1 | 2077.2 |
| 70° | 194.2 | 198.1 | 225.4 | 295.7 | 467.4 | 1341.2 | 3195.6 | 3619.1 | 3322.6 | 2512.5 | 1940.0 |
| 72.5° | 174.8 | 179.0 | 205.5 | 265.6 | 399.4 | 668.7 | 2531.3 | 3060.0 | 3016.6 | 2178.5 | 1471.5 |
| 75° | 163.0 | 166.8 | 211.8 | 260.1 | 382.4 | 423.2 | 1668.7 | 2255.2 | 2217.5 | 1523.9 | 793.4 |
| 77.5° | 69.7 | 69.4 | 98.2 | 220.1 | 388.1 | 409.7 | 896.7 | 1408.9 | 1285.4 | 651.3 | 227.9 |
| 80° | 46.6 | 45.8 | 46.6 | 64.7 | 355.9 | 412.0 | 469.8 | 715.1 | 540.2 | 166.0 | 112.3 |
| 82.5° | 40.1 | 39.5 | 40.9 | 39.5 | 125.1 | 470.3 | 399.4 | 380.3 | 256.8 | 94.3 | 55.7 |
| 85° | 27.0 | 25.9 | 35.3 | 35.4 | 59.1 | 417.8 | 449.9 | 321.2 | 207.8 | 56.0 | 27.5 |
| 87.5° | 12.9 | 12.6 | 20.6 | 25.1 | 34.6 | 169.8 | 504.7 | 329.2 | 209.6 | 28.6 | 13.1 |
| 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° | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 |
| 2.5° | 845.4 | 838.7 | 832.3 | 824.5 | 816.4 | 807.3 | 802.8 | 798.3 | 797.2 | 795.9 | 791.3 |
| 5° | 822.1 | 812.7 | 796.5 | 778.7 | 759.9 | 741.6 | 727.7 | 719.0 | 712.4 | 709.0 | 703.0 |
| 7.5° | 792.0 | 778.2 | 749.9 | 719.2 | 687.6 | 658.8 | 633.9 | 618.2 | 603.3 | 596.3 | 588.4 |
| 10° | 763.3 | 742.8 | 698.8 | 653.5 | 608.1 | 564.6 | 523.7 | 494.7 | 469.0 | 454.6 | 444.4 |
| 12.5° | 738.7 | 710.6 | 649.6 | 588.2 | 526.1 | 464.1 | 402.8 | 354.6 | 314.3 | 293.1 | 282.2 |
| 15° | 714.8 | 680.8 | 602.8 | 525.0 | 445.2 | 360.9 | 280.3 | 225.6 | 192.2 | 179.0 | 174.4 |
| 17.5° | 693.1 | 649.6 | 555.9 | 461.2 | 361.7 | 259.7 | 188.4 | 158.3 | 145.5 | 141.1 | 139.7 |
| 20° | 669.6 | 618.0 | 507.2 | 394.5 | 274.6 | 181.6 | 147.1 | 133.8 | 128.7 | 127.4 | 126.7 |
| 22.5° | 647.0 | 586.9 | 460.6 | 323.2 | 197.3 | 140.1 | 126.4 | 120.9 | 120.1 | 121.2 | 121.2 |
| 25° | 627.7 | 559.1 | 410.2 | 248.6 | 144.8 | 118.0 | 113.1 | 111.8 | 114.9 | 119.1 | 119.9 |
| 27.5° | 613.3 | 536.3 | 356.7 | 183.5 | 115.4 | 102.6 | 102.4 | 104.5 | 112.1 | 120.2 | 121.9 |
| 30° | 603.4 | 514.6 | 299.4 | 132.4 | 96.8 | 90.3 | 92.9 | 97.4 | 108.6 | 120.1 | 123.1 |
| 32.5° | 598.4 | 498.6 | 239.7 | 102.4 | 82.9 | 79.3 | 83.7 | 89.2 | 100.2 | 110.9 | 114.9 |
| 35° | 602.3 | 486.8 | 183.3 | 85.4 | 73.1 | 70.4 | 74.9 | 80.3 | 86.7 | 91.3 | 94.3 |
| 37.5° | 616.9 | 482.1 | 138.4 | 76.5 | 66.5 | 63.9 | 67.5 | 70.6 | 73.1 | 74.4 | 75.9 |
| 40° | 648.3 | 487.1 | 110.9 | 72.0 | 62.8 | 59.6 | 61.0 | 62.1 | 63.8 | 65.1 | 65.7 |
| 42.5° | 694.6 | 502.1 | 99.4 | 70.2 | 60.8 | 56.2 | 55.8 | 56.3 | 58.4 | 60.8 | 61.3 |
| 45° | 759.3 | 528.7 | 98.6 | 71.4 | 59.9 | 53.4 | 51.9 | 52.6 | 55.8 | 59.6 | 60.2 |
| 47.5° | 842.0 | 569.1 | 105.0 | 74.8 | 60.7 | 51.9 | 49.5 | 50.3 | 54.4 | 59.4 | 60.2 |
| 50° | 942.1 | 625.6 | 115.9 | 79.8 | 64.2 | 52.3 | 48.7 | 49.2 | 53.4 | 58.9 | 59.7 |
| 52.5° | 1060.4 | 705.7 | 127.7 | 84.6 | 68.0 | 54.4 | 49.4 | 48.2 | 52.1 | 57.0 | 57.9 |
| 55° | 1192.0 | 808.5 | 139.8 | 89.0 | 69.9 | 57.0 | 50.7 | 46.9 | 49.7 | 53.7 | 54.5 |
| 57.5° | 1353.5 | 952.2 | 160.9 | 93.2 | 71.2 | 58.7 | 51.9 | 45.6 | 46.6 | 49.5 | 50.2 |
| 60° | 1572.1 | 1155.4 | 197.9 | 100.2 | 74.1 | 59.4 | 51.8 | 44.5 | 43.5 | 45.1 | 45.5 |
| 62.5° | 1834.1 | 1376.2 | 228.8 | 108.9 | 79.0 | 59.9 | 50.8 | 43.7 | 40.9 | 40.9 | 41.3 |
| 65° | 1989.6 | 1435.2 | 211.7 | 116.2 | 83.0 | 59.4 | 49.7 | 42.9 | 39.0 | 37.2 | 37.4 |
| 67.5° | 1857.8 | 1262.2 | 181.4 | 117.6 | 82.9 | 57.1 | 47.9 | 41.4 | 37.1 | 34.3 | 34.1 |
| 69° | 1692.5 | 1089.1 | 167.8 | 113.8 | 79.0 | 54.2 | 45.6 | 39.8 | 35.6 | 32.7 | 32.5 |
| 70° | 1559.4 | 983.4 | 158.9 | 109.6 | 74.8 | 52.1 | 43.9 | 38.4 | 34.5 | 31.7 | 31.4 |
| 72.5° | 1133.8 | 644.4 | 135.8 | 94.2 | 61.7 | 43.7 | 37.9 | 33.7 | 30.7 | 29.1 | 28.8 |
| 75° | 566.6 | 307.3 | 110.2 | 76.4 | 47.3 | 35.0 | 31.1 | 28.2 | 26.7 | 26.4 | 26.2 |
| 77.5° | 186.1 | 140.8 | 78.8 | 57.0 | 35.1 | 27.3 | 25.1 | 23.0 | 22.7 | 23.6 | 23.3 |
| 80° | 102.3 | 81.9 | 50.0 | 37.7 | 24.0 | 20.1 | 19.7 | 18.6 | 19.1 | 20.7 | 20.4 |
| 82.5° | 52.1 | 42.6 | 30.9 | 22.7 | 16.2 | 14.4 | 15.7 | 15.0 | 15.7 | 17.2 | 17.0 |
| 85° | 25.7 | 23.3 | 19.6 | 13.8 | 10.7 | 9.2 | 11.2 | 11.7 | 12.0 | 13.1 | 13.1 |
| 87.5° | 14.9 | 13.8 | 10.4 | 6.5 | 5.3 | 4.9 | 6.5 | 6.3 | 7.4 | 8.1 | 7.9 |
| 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)