

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: P193189

Luminaire Tested: **GAN-AF-01-LED-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193189
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6028.9 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

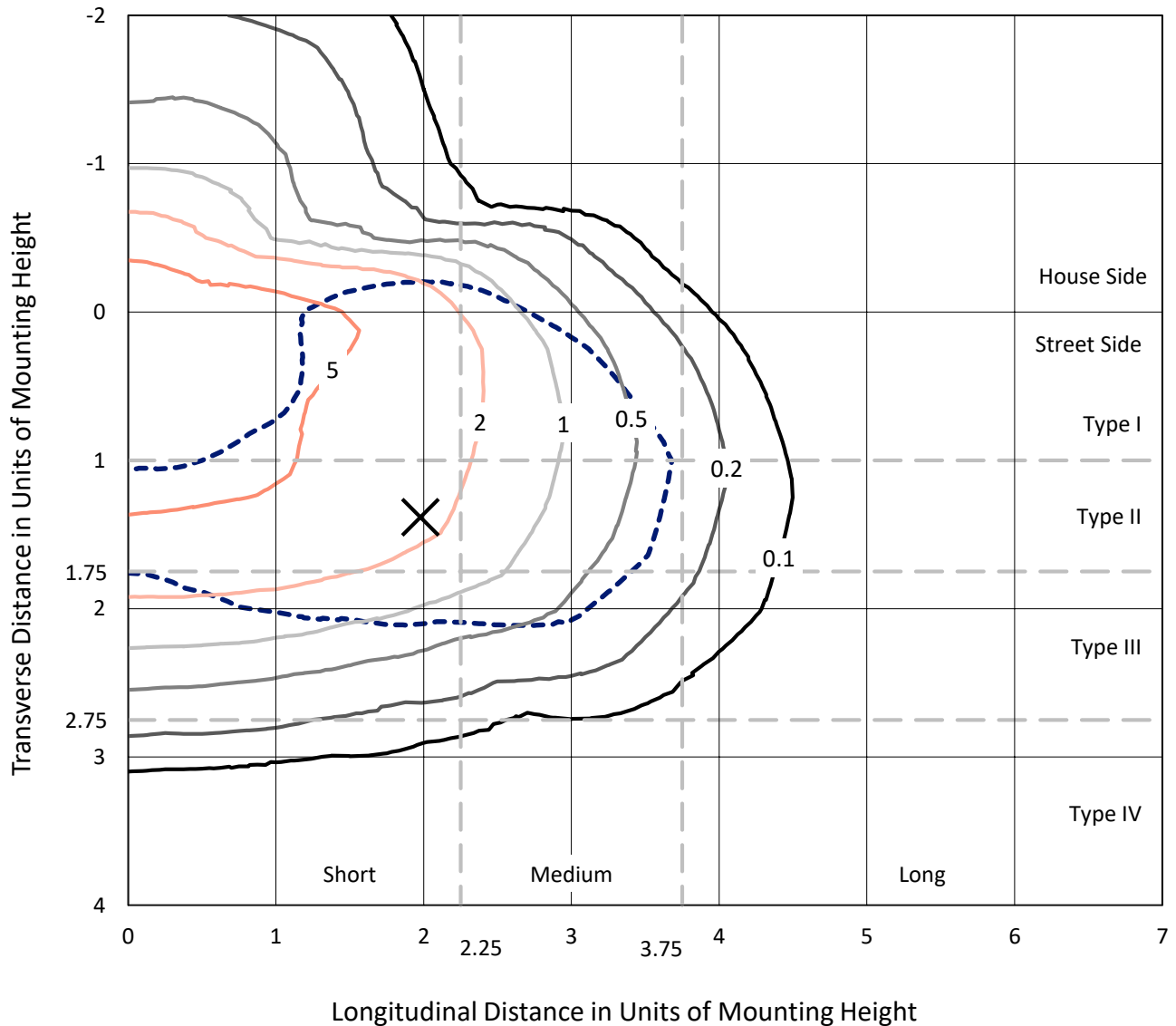
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

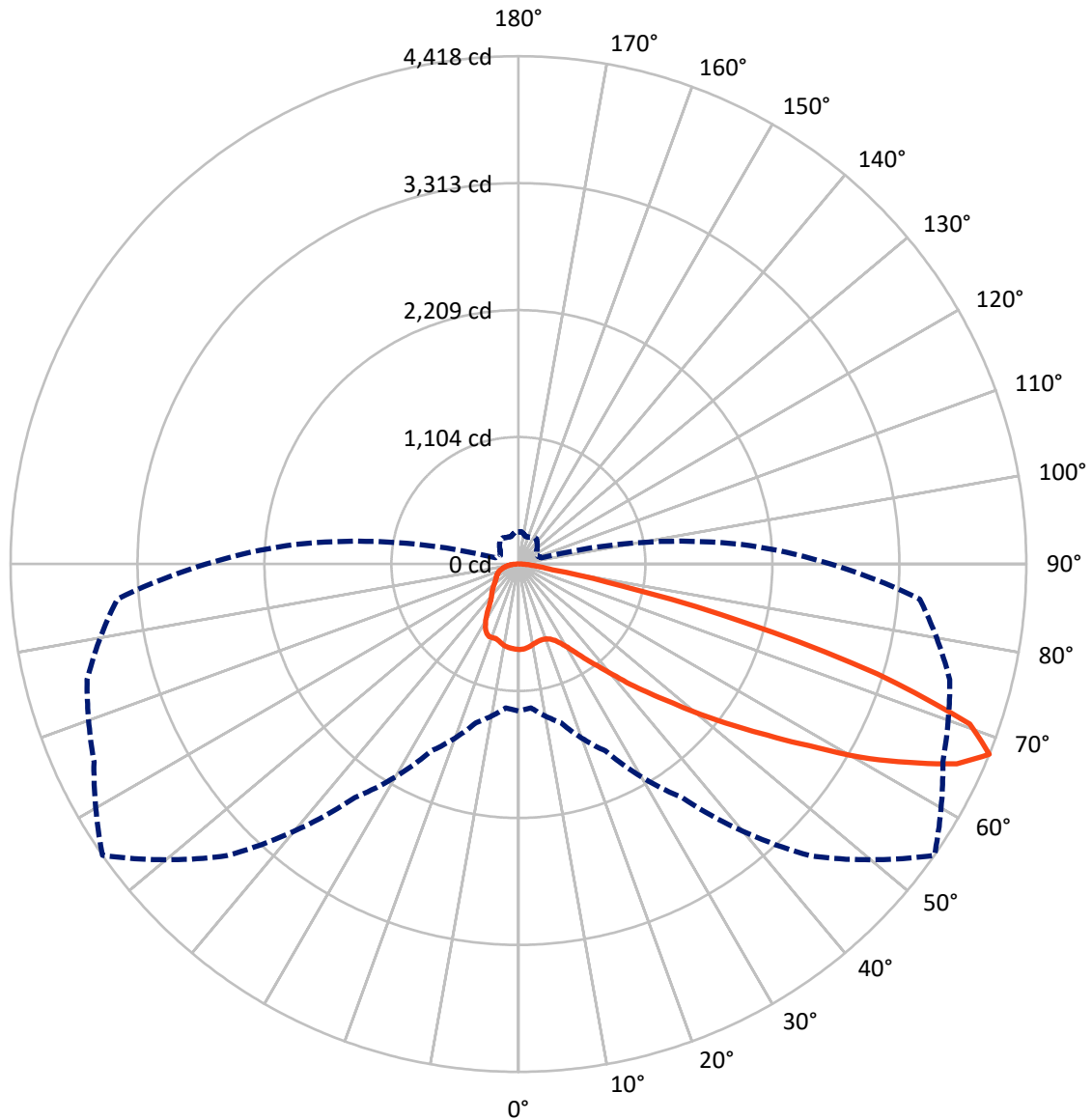
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1302.4 | 0.0 | 1302.4 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 4726.6 | 0.0 | 4726.6 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 6028.9 | 0.0 | 6028.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.4 | 1.2 |
| 10°-20° | 196.5 | 3.3 |
| 20°-30° | 329.2 | 5.5 |
| 30°-40° | 541.4 | 9.0 |
| 40°-50° | 911.3 | 15.1 |
| 50°-60° | 1434.3 | 23.8 |
| 60°-70° | 1711.7 | 28.4 |
| 70°-80° | 735.0 | 12.2 |
| 80°-90° | 100.2 | 1.7 |
| 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° | 6028.9 | 100.0 |
| 0°-180° | 6028.9 | 100.0 |



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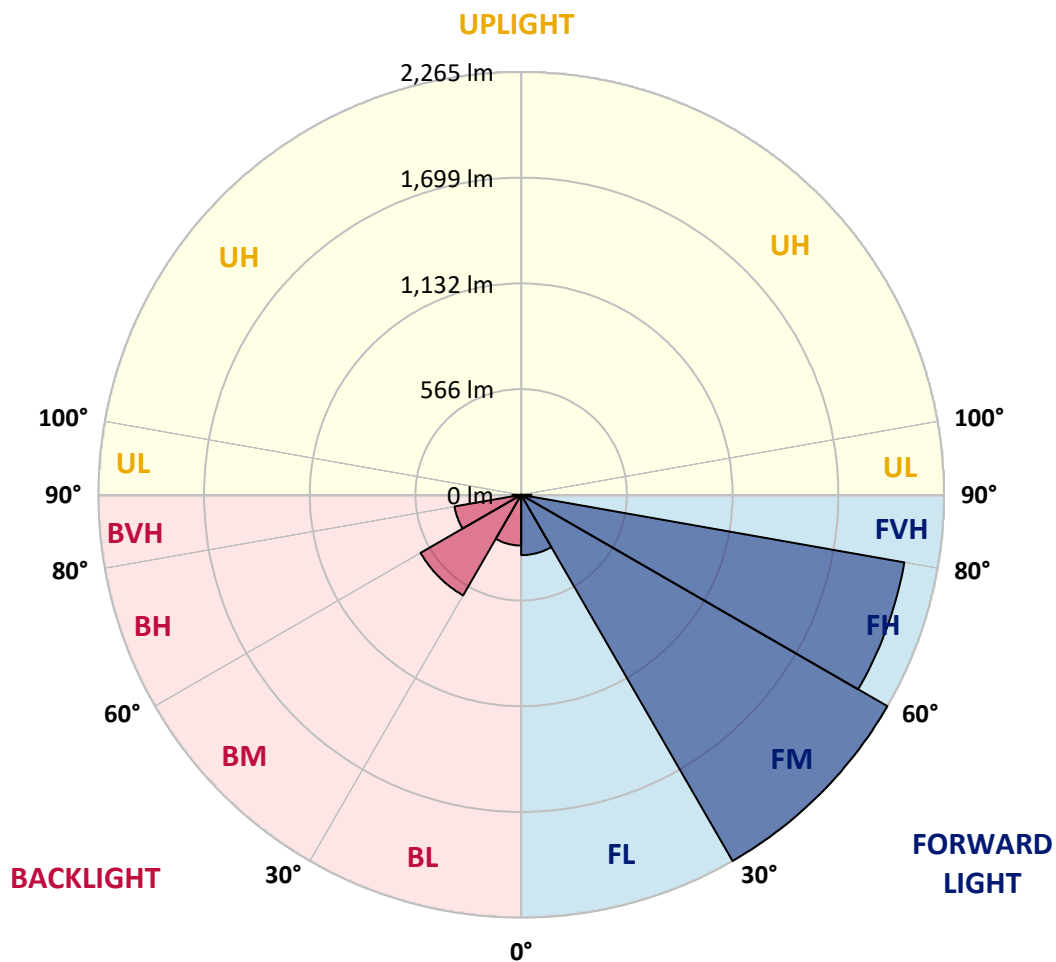
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 323.2 | 5.4 | | | |
| FM (30°-60°) | 2264.9 | 37.6 | | | |
| FH (60°-80°) | 2084.2 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 54.2 | 0.9 | | | G1/100 |
| BL (0°-30°) | 272.0 | 4.5 | B1/500 | | |
| BM (30°-60°) | 622.0 | 10.3 | B1/1000 | | |
| BH (60°-80°) | 362.4 | 6.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 46.0 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 |
| 2.5° | 737.1 | 737.3 | 737.9 | 740.2 | 742.3 | 741.7 | 742.0 | 740.8 | 740.6 | 738.8 | 740.6 |
| 5° | 727.6 | 728.5 | 728.9 | 732.7 | 735.0 | 735.6 | 734.7 | 733.2 | 731.5 | 729.8 | 730.6 |
| 7.5° | 706.5 | 708.8 | 709.1 | 714.3 | 718.1 | 723.1 | 723.3 | 723.7 | 722.8 | 721.5 | 723.3 |
| 10° | 693.0 | 693.7 | 693.4 | 697.2 | 700.1 | 705.6 | 708.8 | 714.3 | 716.6 | 717.2 | 718.4 |
| 12.5° | 692.1 | 691.6 | 690.7 | 690.7 | 689.9 | 692.1 | 698.0 | 705.9 | 711.4 | 713.1 | 714.5 |
| 15° | 701.6 | 701.2 | 698.2 | 693.9 | 688.5 | 686.7 | 691.6 | 700.4 | 707.6 | 711.4 | 712.8 |
| 17.5° | 722.4 | 720.7 | 716.0 | 706.2 | 694.3 | 689.5 | 690.2 | 697.4 | 705.9 | 710.8 | 712.3 |
| 20° | 760.9 | 760.9 | 751.0 | 732.4 | 711.1 | 700.1 | 694.8 | 699.1 | 707.4 | 714.0 | 716.0 |
| 22.5° | 827.3 | 827.8 | 811.2 | 780.6 | 744.9 | 721.3 | 708.2 | 707.4 | 717.0 | 724.5 | 726.8 |
| 25° | 921.4 | 919.0 | 895.7 | 852.0 | 797.6 | 758.6 | 735.9 | 730.6 | 738.8 | 747.3 | 750.2 |
| 27.5° | 1030.9 | 1022.4 | 994.7 | 942.1 | 871.6 | 814.5 | 779.6 | 771.1 | 778.9 | 788.6 | 791.5 |
| 30° | 1139.1 | 1130.4 | 1097.5 | 1039.8 | 961.6 | 889.4 | 839.2 | 825.6 | 836.6 | 850.2 | 852.0 |
| 32.5° | 1247.5 | 1247.5 | 1210.8 | 1143.5 | 1058.1 | 978.8 | 918.8 | 902.5 | 920.7 | 937.3 | 941.2 |
| 35° | 1377.1 | 1377.6 | 1342.1 | 1261.2 | 1169.5 | 1085.3 | 1019.2 | 1007.3 | 1034.9 | 1046.6 | 1055.6 |
| 37.5° | 1536.4 | 1539.6 | 1493.9 | 1396.0 | 1295.6 | 1207.0 | 1128.4 | 1112.0 | 1139.8 | 1171.5 | 1200.6 |
| 40° | 1708.5 | 1712.5 | 1662.2 | 1541.6 | 1441.1 | 1348.6 | 1263.5 | 1234.1 | 1280.1 | 1340.7 | 1378.2 |
| 42.5° | 1872.7 | 1893.7 | 1845.1 | 1721.0 | 1613.0 | 1517.2 | 1431.0 | 1388.1 | 1445.8 | 1537.3 | 1569.8 |
| 45° | 2110.1 | 2125.2 | 2040.4 | 1928.0 | 1826.4 | 1719.2 | 1605.1 | 1560.0 | 1640.6 | 1755.9 | 1762.7 |
| 47.5° | 2268.1 | 2256.8 | 2213.7 | 2143.7 | 2079.4 | 1979.2 | 1807.4 | 1758.0 | 1865.2 | 2000.9 | 1963.3 |
| 50° | 2352.4 | 2355.8 | 2349.9 | 2354.1 | 2356.4 | 2293.5 | 2055.6 | 1987.8 | 2115.6 | 2279.4 | 2193.1 |
| 52.5° | 2430.9 | 2407.6 | 2426.8 | 2522.4 | 2637.7 | 2614.3 | 2325.5 | 2254.8 | 2384.0 | 2588.8 | 2435.9 |
| 55° | 2429.2 | 2393.7 | 2456.2 | 2624.9 | 2875.0 | 2901.8 | 2628.7 | 2547.2 | 2668.0 | 2920.4 | 2693.3 |
| 57.5° | 2343.3 | 2345.0 | 2441.4 | 2662.1 | 3040.4 | 3172.1 | 2980.4 | 2858.1 | 2969.1 | 3256.5 | 2928.2 |
| 60° | 2225.1 | 2241.1 | 2380.0 | 2656.0 | 3172.9 | 3393.6 | 3411.9 | 3193.3 | 3264.0 | 3562.0 | 3122.8 |
| 62.5° | 2034.3 | 2051.3 | 2242.8 | 2592.5 | 3152.7 | 3607.0 | 3802.2 | 3573.7 | 3572.4 | 3747.1 | 3179.9 |
| 65° | 1733.5 | 1728.6 | 1929.7 | 2355.2 | 2984.2 | 3765.0 | 4189.8 | 3902.4 | 3804.9 | 3750.1 | 3065.2 |
| 67.5° | 1278.4 | 1256.3 | 1428.9 | 1793.8 | 2480.4 | 3588.2 | 4417.8 | 4073.6 | 3884.0 | 3503.4 | 2714.5 |
| 70° | 663.3 | 641.3 | 780.9 | 1047.5 | 1631.4 | 2800.5 | 4165.3 | 3985.0 | 3709.1 | 2936.8 | 2126.6 |
| 72.5° | 283.6 | 279.8 | 336.6 | 459.6 | 789.2 | 1615.3 | 3266.1 | 3449.2 | 3182.5 | 2188.0 | 1462.1 |
| 75° | 190.7 | 189.6 | 210.9 | 250.4 | 355.0 | 655.4 | 2043.9 | 2448.4 | 2328.5 | 1356.7 | 822.4 |
| 77.5° | 149.6 | 148.3 | 160.7 | 180.0 | 230.1 | 258.6 | 907.1 | 1314.5 | 1216.6 | 590.5 | 359.9 |
| 80° | 117.0 | 116.0 | 123.8 | 134.3 | 165.4 | 163.2 | 298.5 | 523.1 | 404.8 | 226.2 | 175.1 |
| 82.5° | 92.4 | 92.4 | 98.8 | 99.0 | 117.4 | 111.2 | 155.8 | 230.3 | 202.1 | 131.8 | 107.2 |
| 85° | 84.4 | 84.4 | 91.1 | 74.0 | 76.6 | 70.2 | 96.7 | 136.6 | 128.2 | 54.2 | 46.6 |
| 87.5° | 42.5 | 41.3 | 76.6 | 65.5 | 41.6 | 37.2 | 47.2 | 66.1 | 71.0 | 30.0 | 23.3 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 | 743.4 |
| 2.5° | 739.9 | 739.6 | 740.2 | 740.6 | 742.9 | 746.0 | 747.6 | 749.5 | 750.7 | 750.2 |
| 5° | 731.2 | 731.8 | 734.1 | 735.9 | 739.9 | 745.1 | 748.1 | 750.4 | 752.5 | 751.6 |
| 7.5° | 724.0 | 725.4 | 728.9 | 730.3 | 732.7 | 734.1 | 733.7 | 734.7 | 736.4 | 734.4 |
| 10° | 719.8 | 721.5 | 724.2 | 722.2 | 716.6 | 708.8 | 701.6 | 697.7 | 698.9 | 697.4 |
| 12.5° | 715.7 | 718.1 | 716.0 | 706.5 | 691.1 | 680.8 | 675.3 | 675.9 | 678.5 | 679.0 |
| 15° | 713.5 | 714.3 | 705.6 | 687.6 | 671.8 | 670.3 | 673.2 | 672.7 | 672.9 | 672.9 |
| 17.5° | 713.5 | 711.1 | 694.8 | 676.8 | 670.1 | 667.5 | 658.4 | 647.1 | 642.1 | 640.4 |
| 20° | 717.2 | 711.1 | 691.3 | 679.4 | 664.9 | 642.3 | 618.5 | 597.5 | 588.3 | 585.6 |
| 22.5° | 728.5 | 718.1 | 701.2 | 680.5 | 639.1 | 601.6 | 563.8 | 538.7 | 521.8 | 518.9 |
| 25° | 751.6 | 739.9 | 720.7 | 665.1 | 598.4 | 544.8 | 501.7 | 473.7 | 456.9 | 454.5 |
| 27.5° | 791.8 | 784.2 | 731.2 | 631.1 | 544.2 | 486.9 | 447.0 | 425.4 | 412.9 | 412.0 |
| 30° | 852.3 | 848.5 | 725.9 | 580.6 | 477.6 | 430.7 | 411.5 | 398.9 | 389.6 | 389.3 |
| 32.5° | 949.0 | 918.5 | 708.8 | 519.2 | 416.8 | 390.8 | 383.0 | 375.3 | 368.1 | 368.1 |
| 35° | 1073.4 | 974.9 | 676.2 | 453.4 | 379.6 | 368.6 | 358.8 | 346.8 | 337.2 | 336.6 |
| 37.5° | 1219.6 | 1009.9 | 617.7 | 400.4 | 362.3 | 353.8 | 339.2 | 321.4 | 304.7 | 301.7 |
| 40° | 1367.2 | 1020.4 | 535.3 | 367.7 | 351.2 | 338.9 | 321.2 | 300.3 | 284.0 | 283.1 |
| 42.5° | 1502.7 | 1000.3 | 447.9 | 345.4 | 340.2 | 323.9 | 305.2 | 286.6 | 273.7 | 273.4 |
| 45° | 1616.2 | 948.2 | 374.4 | 324.1 | 328.5 | 310.1 | 293.6 | 278.4 | 268.4 | 266.5 |
| 47.5° | 1723.0 | 874.5 | 323.0 | 301.7 | 316.9 | 302.5 | 288.6 | 274.3 | 264.7 | 263.2 |
| 50° | 1847.0 | 795.0 | 286.8 | 279.8 | 306.6 | 299.9 | 292.7 | 277.8 | 261.7 | 260.0 |
| 52.5° | 1997.4 | 726.2 | 258.6 | 260.6 | 298.9 | 303.4 | 303.0 | 287.7 | 259.7 | 257.5 |
| 55° | 2165.1 | 650.0 | 237.3 | 244.8 | 295.5 | 309.9 | 305.7 | 297.0 | 261.4 | 258.0 |
| 57.5° | 2330.2 | 560.8 | 222.5 | 232.9 | 290.9 | 309.2 | 293.3 | 280.7 | 265.6 | 260.6 |
| 60° | 2454.0 | 441.2 | 211.1 | 222.5 | 280.7 | 299.7 | 279.6 | 263.0 | 264.7 | 260.9 |
| 62.5° | 2462.0 | 341.0 | 197.4 | 213.5 | 265.3 | 290.1 | 270.5 | 255.1 | 268.4 | 265.0 |
| 65° | 2317.4 | 257.8 | 184.3 | 202.6 | 248.7 | 284.0 | 261.7 | 250.7 | 276.3 | 272.6 |
| 67.5° | 1951.1 | 207.4 | 173.2 | 191.6 | 232.0 | 271.1 | 253.9 | 246.6 | 283.3 | 276.7 |
| 70° | 1408.6 | 176.8 | 162.5 | 178.2 | 217.2 | 256.5 | 246.9 | 239.4 | 264.4 | 253.9 |
| 72.5° | 867.2 | 153.2 | 150.2 | 160.5 | 205.9 | 241.4 | 236.4 | 225.7 | 238.1 | 229.8 |
| 75° | 433.0 | 132.8 | 136.6 | 143.0 | 189.9 | 224.2 | 218.9 | 208.2 | 210.0 | 208.2 |
| 77.5° | 207.4 | 113.5 | 120.5 | 125.5 | 169.2 | 204.8 | 199.2 | 188.2 | 186.1 | 186.4 |
| 80° | 131.3 | 94.9 | 101.6 | 105.1 | 151.1 | 182.0 | 176.5 | 165.4 | 188.7 | 175.1 |
| 82.5° | 82.2 | 77.1 | 78.8 | 85.3 | 131.6 | 158.4 | 151.1 | 141.3 | 170.0 | 134.5 |
| 85° | 45.5 | 53.9 | 56.2 | 61.7 | 101.3 | 132.5 | 125.2 | 112.6 | 101.1 | 99.3 |
| 87.5° | 27.1 | 32.0 | 32.9 | 36.9 | 68.2 | 95.8 | 84.7 | 80.5 | 66.6 | 66.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)