

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: P298976

Luminaire Tested: **GAA-AF-01-LED-U-T2-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-01-LED-U-T2-7030-600  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

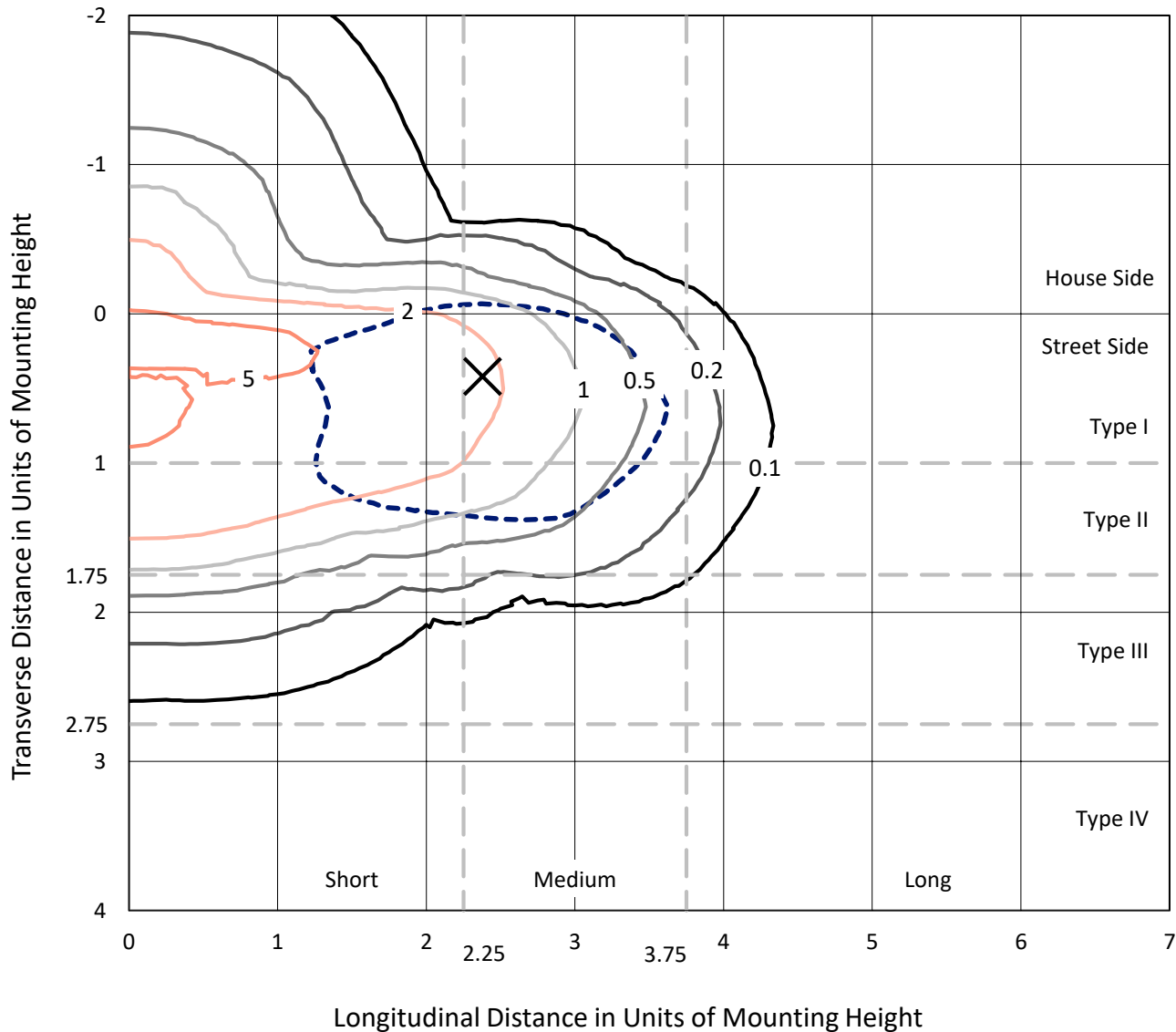
Lumens per Lamp: N/A  
Luminaire Lumens: 3883.8 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (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

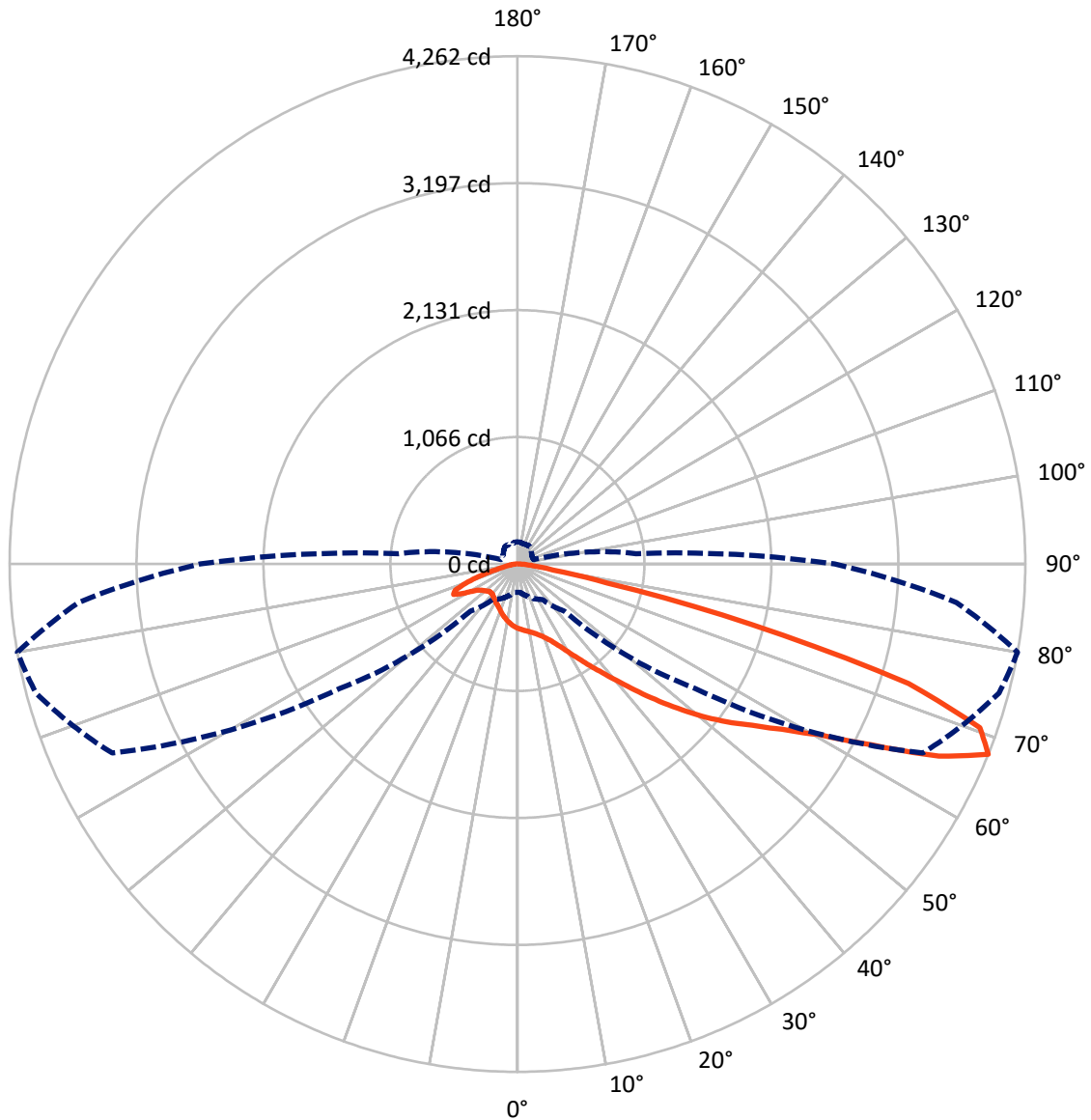
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 715.2    | 0.0    | 715.2  |
|                    | % Fixture | 18.4     | 0.0    | 18.4   |
| <b>Street Side</b> | Lumens    | 3168.5   | 0.0    | 3168.5 |
|                    | % Fixture | 81.6     | 0.0    | 81.6   |
| <b>Total</b>       | Lumens    | 3883.8   | 0.0    | 3883.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.8   | 1.3       |
| 10°-20°   | 143.4  | 3.7       |
| 20°-30°   | 237.3  | 6.1       |
| 30°-40°   | 388.2  | 10.0      |
| 40°-50°   | 626.8  | 16.1      |
| 50°-60°   | 904.9  | 23.3      |
| 60°-70°   | 998.6  | 25.7      |
| 70°-80°   | 460.3  | 11.9      |
| 80°-90°   | 74.5   | 1.9       |
| 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°    | 3883.8 | 100.0     |
| 0°-180°   | 3883.8 | 100.0     |



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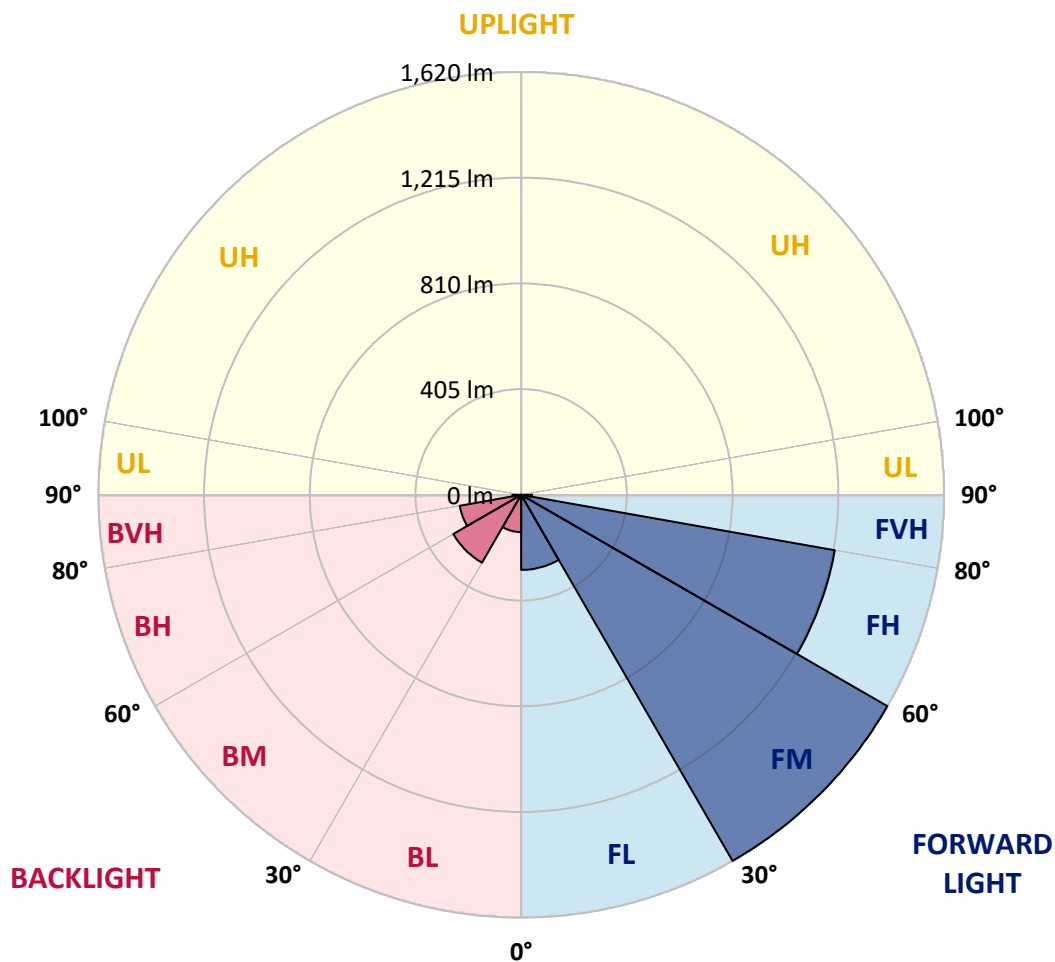
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 287.8  | 7.4       |                         |      |         |
| FM (30°-60°)   | 1619.8 | 41.7      |                         |      |         |
| FH (60°-80°)   | 1220.0 | 31.4      |                         |      | G1/1800 |
| FVH (80°-90°)  | 40.9   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 142.7  | 3.7       | B1/500                  |      |         |
| BM (30°-60°)   | 300.1  | 7.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 238.9  | 6.2       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 33.5   | 0.9       |                         |      | G1/100  |
| 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 80°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 539.6  | 539.6  | 539.6  | 539.6  | 539.6  | 539.6  | 539.6  | 539.6  | 539.6  | 539.6  | 539.6  |
| 2.5°  | 590.2  | 586.8  | 587.4  | 586.4  | 583.5  | 578.6  | 573.2  | 563.5  | 553.3  | 548.0  | 543.8  |
| 5°    | 639.6  | 638.6  | 637.3  | 634.2  | 626.9  | 616.6  | 603.8  | 586.6  | 568.1  | 558.3  | 548.9  |
| 7.5°  | 676.5  | 675.9  | 674.2  | 672.3  | 665.2  | 652.8  | 633.4  | 609.0  | 582.0  | 568.6  | 554.1  |
| 10°   | 679.5  | 680.5  | 681.8  | 687.0  | 687.9  | 681.2  | 661.6  | 631.9  | 596.5  | 579.3  | 560.8  |
| 12.5° | 653.5  | 655.6  | 660.8  | 674.0  | 687.9  | 696.2  | 686.0  | 656.0  | 613.6  | 592.7  | 569.2  |
| 15°   | 619.1  | 620.3  | 626.6  | 644.7  | 669.8  | 695.2  | 704.8  | 682.6  | 635.6  | 609.9  | 581.8  |
| 17.5° | 604.4  | 605.0  | 609.4  | 621.4  | 644.7  | 681.1  | 715.3  | 711.5  | 662.5  | 631.3  | 597.3  |
| 20°   | 596.9  | 598.3  | 604.6  | 616.4  | 631.2  | 662.9  | 716.8  | 742.6  | 694.6  | 658.1  | 616.8  |
| 22.5° | 618.2  | 617.6  | 619.9  | 625.8  | 638.2  | 657.3  | 715.7  | 774.7  | 735.5  | 692.5  | 642.2  |
| 25°   | 667.7  | 669.8  | 665.8  | 659.1  | 663.1  | 676.5  | 721.8  | 809.5  | 786.8  | 736.7  | 675.5  |
| 27.5° | 738.2  | 736.1  | 730.2  | 714.5  | 706.3  | 712.0  | 742.1  | 847.0  | 850.5  | 794.8  | 719.5  |
| 30°   | 808.6  | 806.9  | 801.1  | 782.0  | 765.2  | 760.4  | 781.4  | 890.0  | 926.4  | 864.6  | 773.4  |
| 32.5° | 881.6  | 879.7  | 874.4  | 855.2  | 835.0  | 823.9  | 837.5  | 939.8  | 1015.8 | 948.0  | 836.9  |
| 35°   | 971.7  | 968.0  | 956.8  | 930.2  | 910.3  | 901.7  | 908.0  | 1002.3 | 1119.1 | 1046.6 | 913.9  |
| 37.5° | 1056.4 | 1061.9 | 1050.5 | 1013.7 | 987.9  | 984.9  | 991.9  | 1078.6 | 1230.4 | 1157.0 | 1002.5 |
| 40°   | 1141.5 | 1142.4 | 1132.1 | 1102.1 | 1075.5 | 1070.5 | 1088.3 | 1171.1 | 1361.7 | 1288.9 | 1110.1 |
| 42.5° | 1229.4 | 1231.3 | 1213.9 | 1186.2 | 1166.7 | 1167.7 | 1187.9 | 1279.5 | 1512.4 | 1444.3 | 1234.0 |
| 45°   | 1333.6 | 1336.5 | 1317.4 | 1281.0 | 1263.3 | 1299.0 | 1290.6 | 1401.1 | 1677.6 | 1621.0 | 1376.3 |
| 47.5° | 1442.6 | 1447.0 | 1432.5 | 1398.4 | 1376.3 | 1425.4 | 1393.3 | 1535.9 | 1855.4 | 1810.5 | 1532.5 |
| 50°   | 1502.1 | 1508.4 | 1522.5 | 1520.0 | 1515.3 | 1507.0 | 1507.8 | 1680.5 | 2038.8 | 2007.8 | 1693.1 |
| 52.5° | 1470.1 | 1470.0 | 1521.6 | 1584.3 | 1651.2 | 1656.2 | 1647.4 | 1832.9 | 2210.1 | 2200.7 | 1844.3 |
| 55°   | 1324.1 | 1334.0 | 1412.2 | 1533.6 | 1716.4 | 1830.6 | 1856.6 | 2007.4 | 2378.3 | 2389.2 | 1997.9 |
| 57.5° | 1080.9 | 1089.1 | 1194.6 | 1363.8 | 1628.5 | 1934.2 | 2154.1 | 2261.1 | 2566.5 | 2617.3 | 2202.3 |
| 60°   | 733.1  | 743.0  | 854.9  | 1058.1 | 1391.8 | 1876.4 | 2437.2 | 2713.9 | 2791.7 | 2907.4 | 2489.1 |
| 62.5° | 430.8  | 439.8  | 531.0  | 667.5  | 979.9  | 1608.2 | 2561.5 | 3358.1 | 3149.5 | 3345.1 | 2926.5 |
| 65°   | 296.6  | 302.7  | 347.0  | 415.5  | 563.1  | 1083.2 | 2407.4 | 3802.8 | 3699.9 | 3887.3 | 3433.8 |
| 67.5° | 238.6  | 237.9  | 273.0  | 319.7  | 362.5  | 558.5  | 1820.4 | 3752.5 | 4184.0 | 4262.2 | 3697.1 |
| 70°   | 196.6  | 195.8  | 219.7  | 258.3  | 289.7  | 314.5  | 991.6  | 3166.7 | 4085.4 | 4117.1 | 3454.6 |
| 72.5° | 164.4  | 165.2  | 180.5  | 209.2  | 237.7  | 236.9  | 435.7  | 2227.7 | 3213.9 | 3433.4 | 2753.9 |
| 75°   | 138.8  | 139.2  | 149.3  | 169.6  | 192.9  | 190.8  | 236.3  | 1206.9 | 1868.2 | 2021.0 | 1526.5 |
| 77.5° | 118.2  | 118.5  | 125.0  | 136.3  | 153.0  | 152.2  | 172.5  | 521.4  | 779.3  | 769.8  | 522.2  |
| 80°   | 105.4  | 105.4  | 108.4  | 110.5  | 119.7  | 116.3  | 127.9  | 250.5  | 329.4  | 304.2  | 208.4  |
| 82.5° | 82.6   | 83.0   | 101.7  | 101.0  | 94.3   | 89.9   | 89.9   | 147.6  | 174.6  | 161.4  | 122.0  |
| 85°   | 46.5   | 46.3   | 65.6   | 79.2   | 83.0   | 63.3   | 62.7   | 82.6   | 95.0   | 83.7   | 59.1   |
| 87.5° | 19.9   | 20.3   | 30.4   | 35.2   | 47.0   | 39.4   | 38.8   | 42.6   | 48.4   | 41.9   | 27.3   |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 539.6  | 539.6  | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 | 539.6 |
| 2.5°  | 539.8  | 534.8  | 523.9 | 510.3 | 498.1 | 490.0 | 482.8 | 472.3 | 472.8 | 465.6 | 460.2 |
| 5°    | 539.4  | 529.1  | 503.8 | 473.8 | 444.9 | 424.1 | 408.4 | 394.3 | 390.8 | 384.1 | 380.1 |
| 7.5°  | 539.8  | 522.9  | 480.5 | 432.5 | 396.7 | 370.4 | 357.0 | 349.5 | 347.8 | 345.5 | 345.7 |
| 10°   | 541.1  | 517.4  | 454.9 | 393.9 | 356.4 | 339.0 | 335.7 | 338.0 | 340.7 | 341.5 | 341.7 |
| 12.5° | 544.2  | 512.4  | 426.8 | 359.5 | 331.2 | 325.8 | 331.4 | 339.2 | 344.4 | 346.8 | 346.6 |
| 15°   | 551.0  | 508.6  | 399.8 | 332.5 | 317.2 | 320.1 | 330.4 | 341.5 | 348.9 | 352.4 | 352.6 |
| 17.5° | 558.5  | 503.0  | 372.1 | 311.8 | 306.9 | 314.1 | 327.0 | 340.0 | 349.1 | 353.0 | 353.7 |
| 20°   | 568.2  | 496.2  | 343.0 | 296.4 | 297.1 | 305.3 | 317.4 | 330.4 | 340.5 | 343.8 | 345.3 |
| 22.5° | 581.1  | 488.7  | 317.6 | 283.7 | 286.0 | 292.3 | 301.7 | 313.0 | 321.8 | 323.3 | 324.7 |
| 25°   | 598.3  | 480.7  | 297.3 | 272.3 | 273.2 | 276.9 | 283.2 | 289.9 | 296.0 | 294.3 | 295.6 |
| 27.5° | 621.4  | 473.8  | 282.2 | 261.8 | 260.0 | 260.8 | 264.0 | 266.2 | 269.4 | 264.6 | 265.2 |
| 30°   | 648.6  | 466.3  | 270.5 | 252.6 | 247.8 | 246.5 | 247.2 | 248.4 | 250.9 | 244.4 | 243.4 |
| 32.5° | 680.1  | 457.4  | 259.7 | 244.5 | 237.9 | 235.2 | 235.6 | 238.6 | 248.2 | 244.2 | 242.1 |
| 35°   | 716.8  | 447.2  | 248.2 | 235.8 | 231.2 | 227.3 | 227.0 | 236.5 | 265.0 | 262.5 | 260.6 |
| 37.5° | 759.8  | 437.1  | 236.7 | 225.8 | 226.2 | 222.0 | 220.6 | 231.5 | 268.3 | 258.5 | 257.2 |
| 40°   | 814.5  | 431.7  | 227.0 | 215.3 | 220.1 | 219.5 | 216.8 | 222.4 | 246.8 | 229.1 | 226.8 |
| 42.5° | 882.2  | 432.5  | 219.7 | 204.0 | 212.8 | 218.9 | 214.7 | 214.9 | 223.7 | 210.3 | 208.2 |
| 45°   | 965.8  | 441.5  | 214.5 | 195.0 | 204.6 | 218.4 | 214.0 | 210.9 | 211.7 | 204.6 | 203.4 |
| 47.5° | 1063.3 | 460.0  | 210.9 | 187.6 | 196.7 | 216.2 | 213.8 | 209.7 | 208.0 | 204.2 | 203.2 |
| 50°   | 1171.7 | 487.0  | 208.2 | 180.5 | 189.7 | 212.8 | 214.0 | 208.6 | 206.7 | 205.2 | 204.6 |
| 52.5° | 1278.2 | 517.8  | 204.2 | 174.4 | 184.1 | 208.6 | 214.5 | 207.5 | 205.3 | 204.2 | 203.6 |
| 55°   | 1396.9 | 556.2  | 198.1 | 169.2 | 179.5 | 203.2 | 214.5 | 205.7 | 203.4 | 203.6 | 203.4 |
| 57.5° | 1557.3 | 618.3  | 190.8 | 164.8 | 174.0 | 196.7 | 210.9 | 203.8 | 201.0 | 201.1 | 201.3 |
| 60°   | 1808.0 | 727.9  | 182.0 | 160.4 | 167.1 | 189.1 | 205.9 | 199.6 | 196.7 | 197.5 | 197.7 |
| 62.5° | 2176.6 | 888.7  | 170.6 | 153.9 | 159.8 | 180.9 | 199.0 | 194.3 | 191.4 | 193.3 | 193.3 |
| 65°   | 2559.8 | 1030.6 | 156.4 | 145.7 | 152.2 | 171.9 | 190.4 | 187.6 | 184.7 | 189.1 | 188.9 |
| 67.5° | 2662.9 | 998.8  | 142.3 | 136.7 | 144.5 | 161.9 | 180.1 | 178.6 | 177.1 | 184.7 | 184.3 |
| 70°   | 2365.5 | 801.9  | 129.3 | 127.5 | 136.1 | 151.2 | 169.0 | 169.0 | 168.1 | 173.8 | 172.5 |
| 72.5° | 1802.3 | 568.6  | 116.8 | 117.8 | 126.6 | 139.6 | 157.0 | 158.3 | 156.8 | 159.7 | 158.5 |
| 75°   | 964.8  | 325.4  | 104.4 | 107.1 | 114.7 | 127.7 | 143.6 | 144.9 | 144.0 | 143.8 | 144.4 |
| 77.5° | 320.6  | 159.1  | 91.4  | 95.6  | 102.3 | 115.5 | 129.6 | 131.7 | 129.4 | 129.1 | 128.9 |
| 80°   | 142.8  | 100.0  | 77.1  | 82.6  | 88.5  | 101.5 | 114.9 | 116.6 | 114.1 | 117.6 | 113.2 |
| 82.5° | 91.8   | 65.8   | 61.8  | 67.9  | 73.6  | 87.6  | 100.2 | 100.6 | 98.3  | 114.1 | 97.3  |
| 85°   | 44.5   | 40.7   | 46.5  | 52.0  | 57.0  | 68.8  | 83.0  | 83.2  | 77.4  | 70.6  | 68.1  |
| 87.5° | 22.2   | 23.7   | 31.0  | 35.9  | 38.4  | 47.2  | 60.4  | 59.3  | 56.8  | 51.6  | 47.6  |
| 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)