

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: McGRAW-EDISON

Report Number: P451022

Luminaire Tested: **GALN-SA1D-760-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-760-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7977 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

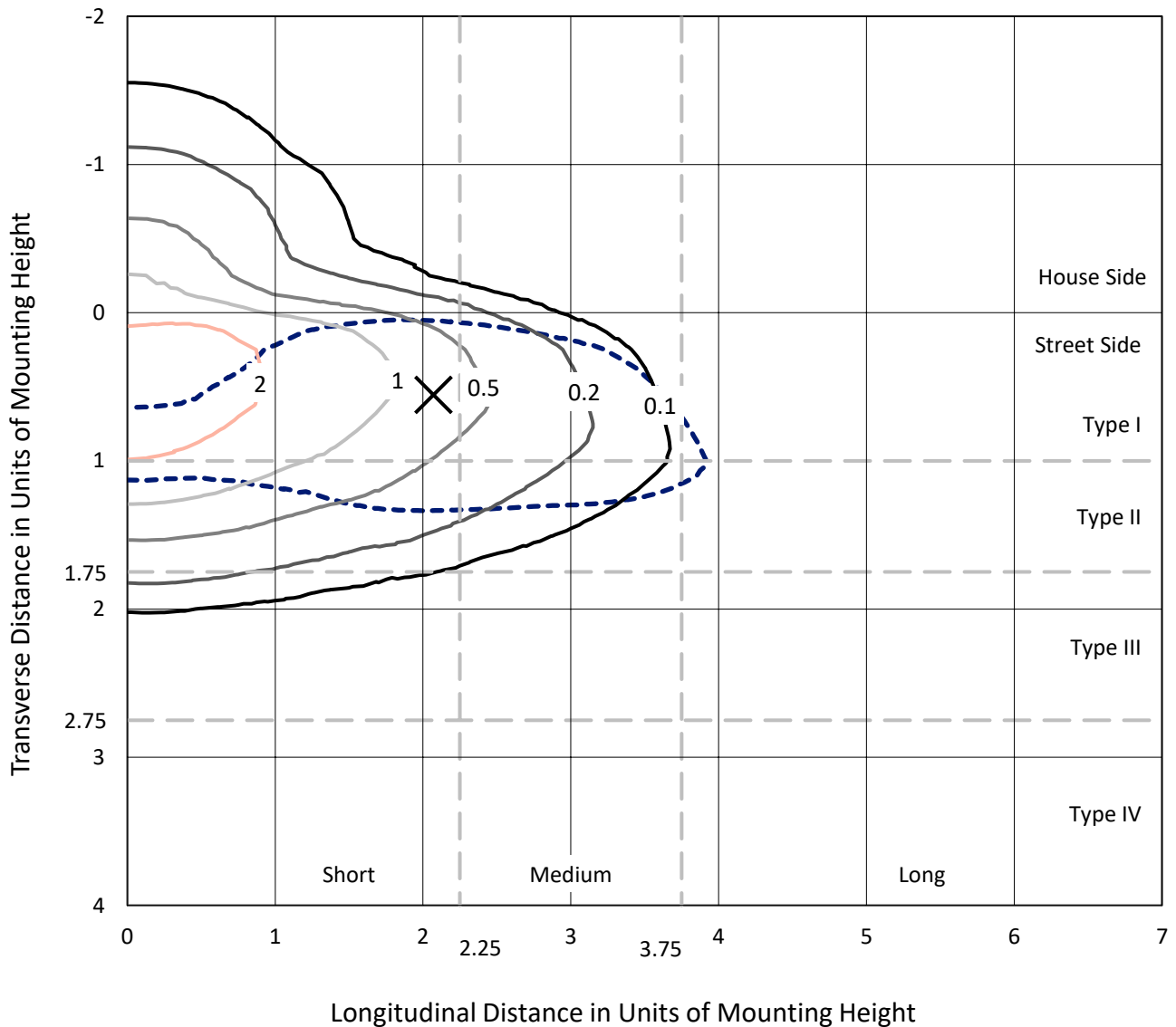
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

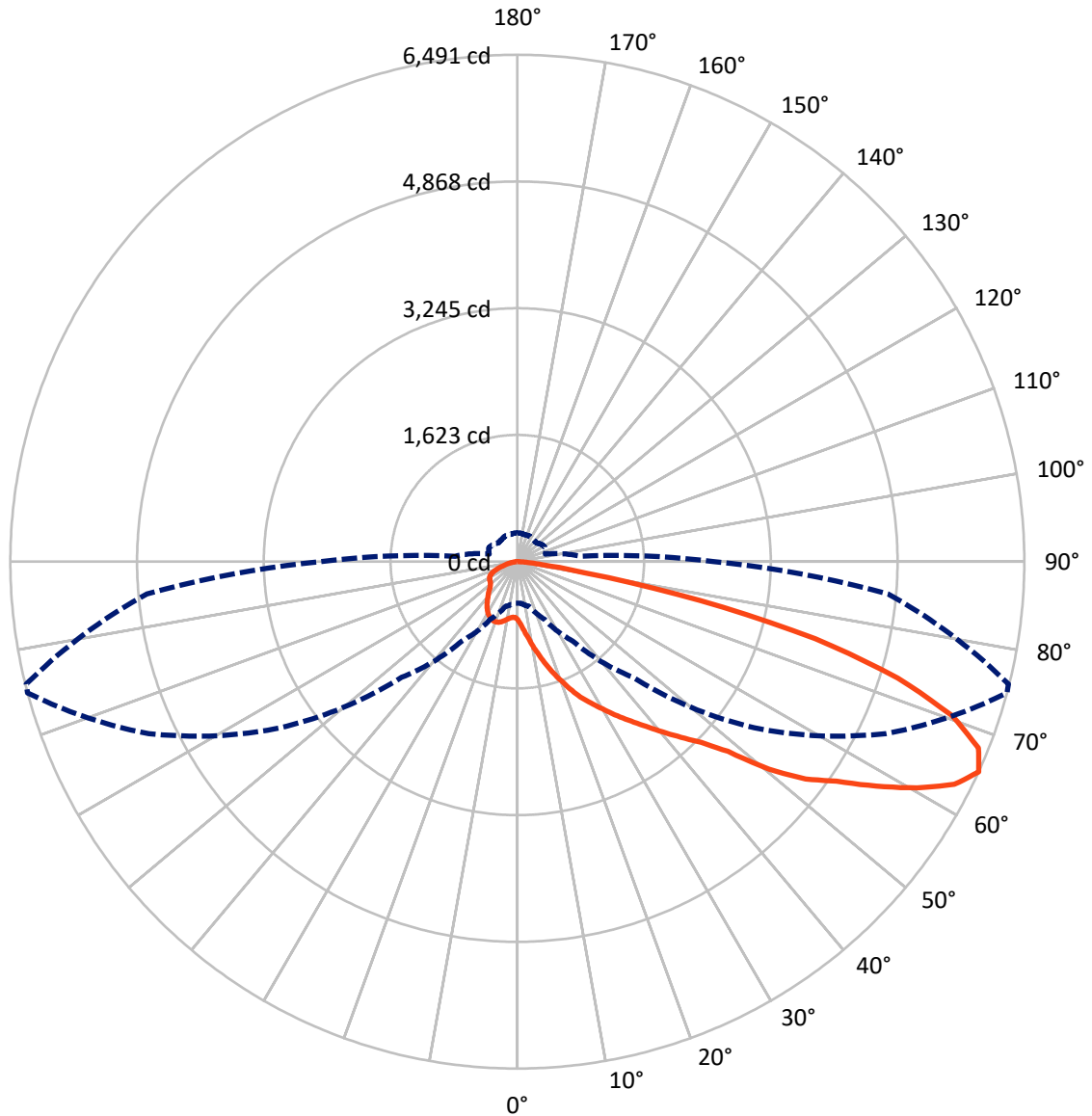
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1341.0   | 0.0    | 1341.0 |
|                    | % Fixture | 16.8     | 0.0    | 16.8   |
| <b>Street Side</b> | Lumens    | 6636.0   | 0.0    | 6636.0 |
|                    | % Fixture | 83.2     | 0.0    | 83.2   |
| <b>Total</b>       | Lumens    | 7977.0   | 0.0    | 7977.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.1   | 1.1       |
| 10°-20°   | 352.7  | 4.4       |
| 20°-30°   | 681.3  | 8.5       |
| 30°-40°   | 1106.7 | 13.9      |
| 40°-50°   | 1522.3 | 19.1      |
| 50°-60°   | 1797.3 | 22.5      |
| 60°-70°   | 1574.8 | 19.7      |
| 70°-80°   | 751.8  | 9.4       |
| 80°-90°   | 100.0  | 1.3       |
| 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°    | 7977.0 | 100.0     |
| 0°-180°   | 7977.0 | 100.0     |

**Coefficient of Utilization**



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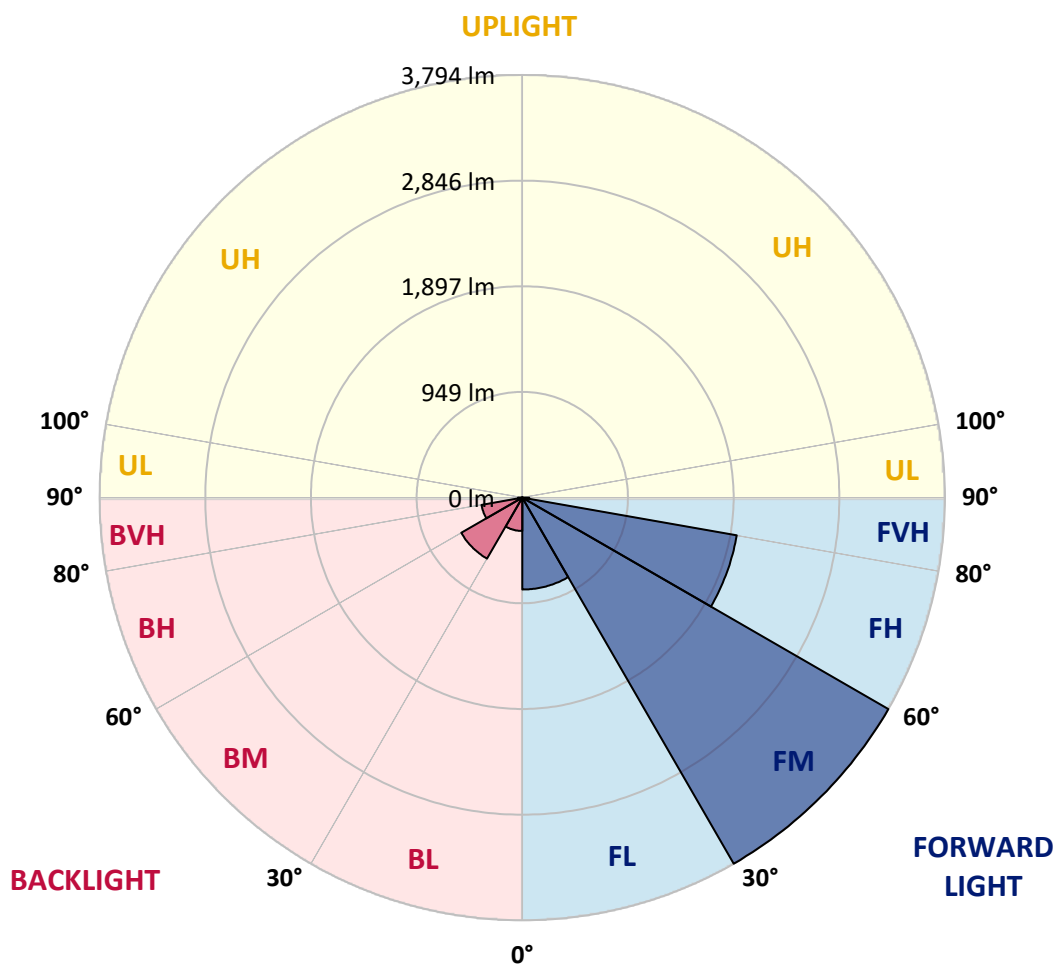
CATALOG NUMBER: GALN-SA1D-760-U-T2R

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 824.7  | 10.3      |                         |      |         |
| FM   | (30°-60°)   | 3794.0 | 47.6      |                         |      |         |
| FH   | (60°-80°)   | 1954.7 | 24.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 62.5   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 299.4  | 3.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 632.3  | 7.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 371.8  | 4.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 37.5   | 0.5       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 741.2  | 741.2  | 741.2  | 741.2  | 741.2  | 741.2  | 741.2  | 741.2  | 741.2  | 741.2  | 741.2  |
| 2.5°  | 984.8  | 978.3  | 971.3  | 952.3  | 932.0  | 909.0  | 876.2  | 844.6  | 802.6  | 801.3  | 770.2  |
| 5°    | 1257.8 | 1253.4 | 1222.7 | 1205.0 | 1157.8 | 1095.1 | 1041.9 | 959.2  | 882.6  | 873.6  | 813.0  |
| 7.5°  | 1508.7 | 1491.8 | 1480.2 | 1448.1 | 1401.4 | 1320.9 | 1218.0 | 1106.3 | 978.3  | 966.2  | 865.8  |
| 10°   | 1697.8 | 1696.1 | 1690.0 | 1662.3 | 1627.3 | 1547.2 | 1433.0 | 1272.9 | 1099.4 | 1075.6 | 929.8  |
| 12.5° | 1839.3 | 1840.6 | 1839.7 | 1839.3 | 1814.2 | 1746.3 | 1622.5 | 1453.8 | 1221.9 | 1205.0 | 1003.8 |
| 15°   | 1932.3 | 1945.3 | 1950.5 | 1972.1 | 1974.3 | 1928.8 | 1822.4 | 1628.6 | 1359.9 | 1334.8 | 1083.4 |
| 17.5° | 1993.7 | 2000.2 | 2024.5 | 2061.2 | 2091.1 | 2082.9 | 1988.1 | 1790.4 | 1500.9 | 1459.0 | 1166.0 |
| 20°   | 2052.6 | 2063.8 | 2082.4 | 2132.6 | 2185.4 | 2209.6 | 2143.0 | 1956.1 | 1640.7 | 1613.9 | 1257.3 |
| 22.5° | 2175.0 | 2191.0 | 2197.5 | 2223.1 | 2268.1 | 2310.9 | 2280.6 | 2114.9 | 1793.9 | 1757.5 | 1354.3 |
| 25°   | 2382.3 | 2399.2 | 2381.0 | 2374.9 | 2389.6 | 2410.8 | 2404.3 | 2264.6 | 1938.4 | 1886.4 | 1446.0 |
| 27.5° | 2652.3 | 2654.4 | 2619.0 | 2585.2 | 2548.9 | 2538.0 | 2518.1 | 2397.4 | 2063.8 | 2020.6 | 1538.1 |
| 30°   | 2942.2 | 2931.8 | 2872.9 | 2811.9 | 2750.5 | 2689.9 | 2632.8 | 2525.5 | 2203.6 | 2153.8 | 1628.6 |
| 32.5° | 3211.3 | 3205.7 | 3140.3 | 3045.6 | 2941.7 | 2884.6 | 2769.1 | 2654.9 | 2353.3 | 2305.3 | 1721.6 |
| 35°   | 3412.9 | 3421.1 | 3349.3 | 3245.9 | 3132.5 | 3081.9 | 2936.1 | 2790.7 | 2508.2 | 2455.8 | 1822.8 |
| 37.5° | 3556.1 | 3551.8 | 3488.2 | 3398.6 | 3299.1 | 3255.0 | 3131.2 | 2939.1 | 2674.8 | 2624.6 | 1933.6 |
| 40°   | 3607.2 | 3604.6 | 3557.4 | 3492.1 | 3428.9 | 3413.3 | 3335.5 | 3099.2 | 2865.6 | 2806.7 | 2066.9 |
| 42.5° | 3574.7 | 3580.3 | 3549.2 | 3531.5 | 3519.8 | 3531.0 | 3538.4 | 3309.1 | 3073.7 | 3019.6 | 2211.4 |
| 45°   | 3475.2 | 3472.2 | 3467.9 | 3496.8 | 3562.6 | 3636.6 | 3739.1 | 3507.2 | 3300.0 | 3256.7 | 2405.2 |
| 47.5° | 3297.4 | 3319.0 | 3329.8 | 3409.9 | 3553.5 | 3728.8 | 3970.2 | 3772.9 | 3628.4 | 3590.7 | 2700.7 |
| 50°   | 3048.6 | 3065.9 | 3129.9 | 3272.3 | 3486.5 | 3763.4 | 4196.0 | 4207.3 | 4176.1 | 4105.6 | 3021.8 |
| 52.5° | 2660.1 | 2686.9 | 2818.8 | 3079.7 | 3348.9 | 3749.1 | 4332.8 | 4579.8 | 4620.9 | 4568.1 | 3338.1 |
| 55°   | 2225.2 | 2262.9 | 2402.2 | 2744.4 | 3159.4 | 3671.2 | 4427.1 | 4795.7 | 4959.7 | 4910.8 | 3642.7 |
| 57.5° | 1799.5 | 1839.3 | 1982.5 | 2313.9 | 2828.8 | 3499.0 | 4489.0 | 5036.3 | 5420.9 | 5357.3 | 4021.7 |
| 60°   | 1348.6 | 1390.2 | 1513.0 | 1854.4 | 2358.1 | 3162.4 | 4447.0 | 5244.8 | 5881.7 | 5854.5 | 4401.1 |
| 62.5° | 870.1  | 916.0  | 1022.8 | 1305.4 | 1812.5 | 2702.5 | 4222.4 | 5359.9 | 6280.6 | 6247.8 | 4678.0 |
| 65°   | 530.0  | 535.2  | 594.1  | 810.4  | 1240.5 | 2092.4 | 3708.8 | 5207.2 | 6490.9 | 6481.0 | 4762.4 |
| 67.5° | 342.7  | 350.9  | 377.7  | 485.5  | 743.8  | 1453.3 | 2965.5 | 4703.1 | 6368.0 | 6364.6 | 4588.0 |
| 70°   | 289.5  | 292.1  | 304.2  | 327.5  | 432.2  | 881.3  | 2082.4 | 3899.7 | 5901.2 | 5901.2 | 4168.8 |
| 72.5° | 258.7  | 262.2  | 266.5  | 273.9  | 308.5  | 499.3  | 1242.6 | 3035.6 | 5095.1 | 5128.9 | 3548.3 |
| 75°   | 234.9  | 234.1  | 236.7  | 238.0  | 263.1  | 326.2  | 642.5  | 2245.1 | 3941.6 | 3874.1 | 2569.6 |
| 77.5° | 201.2  | 202.5  | 201.2  | 206.8  | 232.3  | 248.4  | 326.2  | 1506.6 | 2388.8 | 2301.4 | 1289.8 |
| 80°   | 165.3  | 167.4  | 169.6  | 173.1  | 198.6  | 188.6  | 196.0  | 686.6  | 883.5  | 864.9  | 398.5  |
| 82.5° | 124.2  | 127.2  | 130.7  | 138.9  | 156.2  | 124.6  | 123.7  | 293.4  | 318.9  | 292.1  | 146.7  |
| 85°   | 50.2   | 59.3   | 89.6   | 97.8   | 98.2   | 68.4   | 76.1   | 122.4  | 130.2  | 127.2  | 57.5   |
| 87.5° | 11.7   | 13.8   | 29.0   | 43.7   | 40.2   | 25.5   | 28.1   | 39.8   | 45.4   | 42.0   | 19.5   |
| 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°    | 741.2  | 741.2  | 741.2 | 741.2 | 741.2 | 741.2 | 741.2 | 741.2 | 741.2 | 741.2 | 741.2 |
| 2.5°  | 755.9  | 740.7  | 714.8 | 694.9 | 680.6 | 668.0 | 660.3 | 655.5 | 653.8 | 653.3 | 653.8 |
| 5°    | 781.4  | 754.6  | 713.5 | 687.5 | 673.2 | 665.0 | 660.3 | 659.8 | 660.3 | 660.7 | 659.4 |
| 7.5°  | 816.4  | 777.9  | 724.3 | 700.1 | 689.2 | 683.2 | 681.0 | 680.2 | 680.6 | 680.2 | 680.2 |
| 10°   | 863.2  | 810.4  | 745.5 | 720.4 | 711.3 | 704.4 | 700.9 | 698.8 | 697.0 | 695.3 | 694.4 |
| 12.5° | 914.7  | 846.3  | 768.4 | 744.2 | 731.2 | 720.4 | 712.6 | 707.0 | 703.1 | 699.2 | 698.3 |
| 15°   | 972.2  | 884.4  | 793.9 | 760.2 | 741.6 | 725.6 | 712.2 | 703.1 | 696.2 | 690.5 | 690.1 |
| 17.5° | 1027.2 | 920.3  | 811.3 | 767.6 | 740.3 | 717.8 | 700.1 | 687.5 | 678.9 | 671.5 | 670.6 |
| 20°   | 1086.0 | 954.5  | 819.0 | 762.8 | 727.3 | 700.1 | 676.7 | 661.6 | 651.6 | 643.4 | 642.1 |
| 22.5° | 1145.3 | 983.5  | 818.2 | 747.7 | 704.8 | 672.8 | 648.1 | 632.1 | 620.4 | 612.2 | 609.2 |
| 25°   | 1202.0 | 1006.8 | 807.4 | 723.4 | 673.7 | 640.4 | 615.3 | 600.5 | 590.2 | 580.2 | 580.2 |
| 27.5° | 1253.0 | 1020.7 | 787.0 | 694.0 | 641.6 | 606.6 | 586.7 | 573.3 | 563.8 | 557.3 | 553.4 |
| 30°   | 1303.2 | 1027.2 | 759.3 | 656.8 | 607.9 | 578.0 | 562.0 | 554.3 | 545.6 | 538.2 | 537.4 |
| 32.5° | 1348.2 | 1025.9 | 724.7 | 620.4 | 575.9 | 554.7 | 548.2 | 542.1 | 533.0 | 522.7 | 520.1 |
| 35°   | 1391.9 | 1017.2 | 683.6 | 580.6 | 549.1 | 540.8 | 542.6 | 533.9 | 517.5 | 504.5 | 502.3 |
| 37.5° | 1439.5 | 1001.6 | 638.6 | 548.2 | 526.6 | 534.3 | 538.7 | 519.6 | 492.8 | 472.5 | 467.7 |
| 40°   | 1494.4 | 983.9  | 591.9 | 515.7 | 508.8 | 528.3 | 528.3 | 493.2 | 456.5 | 443.9 | 440.5 |
| 42.5° | 1558.9 | 969.2  | 553.0 | 488.5 | 494.1 | 513.6 | 511.4 | 458.2 | 443.1 | 436.6 | 434.8 |
| 45°   | 1661.0 | 964.0  | 512.7 | 464.7 | 482.0 | 496.3 | 478.5 | 446.1 | 437.4 | 432.2 | 430.5 |
| 47.5° | 1822.4 | 970.0  | 477.2 | 446.9 | 468.1 | 479.0 | 441.8 | 437.9 | 431.8 | 424.4 | 423.6 |
| 50°   | 1972.1 | 964.4  | 452.1 | 437.0 | 456.0 | 458.2 | 426.6 | 427.9 | 424.4 | 416.2 | 414.5 |
| 52.5° | 2094.6 | 946.7  | 436.1 | 431.8 | 445.7 | 421.9 | 412.3 | 417.1 | 415.8 | 405.4 | 403.7 |
| 55°   | 2229.1 | 935.9  | 428.3 | 431.8 | 438.7 | 390.3 | 398.9 | 405.8 | 404.1 | 396.8 | 396.3 |
| 57.5° | 2392.2 | 938.0  | 422.7 | 433.1 | 431.8 | 374.3 | 385.5 | 393.7 | 393.3 | 391.1 | 391.1 |
| 60°   | 2559.2 | 938.9  | 414.1 | 432.7 | 423.6 | 361.7 | 371.7 | 383.3 | 384.2 | 385.5 | 385.5 |
| 62.5° | 2614.6 | 901.3  | 397.2 | 424.9 | 405.4 | 349.6 | 358.7 | 374.7 | 373.8 | 377.3 | 377.7 |
| 65°   | 2511.2 | 797.0  | 372.1 | 407.1 | 382.0 | 340.9 | 348.7 | 363.4 | 358.7 | 367.8 | 369.5 |
| 67.5° | 2285.8 | 659.4  | 333.2 | 375.1 | 356.1 | 331.9 | 342.2 | 347.9 | 339.2 | 357.0 | 357.4 |
| 70°   | 1975.6 | 514.9  | 283.8 | 329.7 | 326.7 | 322.3 | 337.1 | 328.4 | 316.3 | 337.9 | 333.6 |
| 72.5° | 1651.9 | 393.3  | 226.7 | 269.6 | 287.3 | 308.1 | 328.0 | 303.3 | 286.4 | 292.9 | 285.1 |
| 75°   | 1240.9 | 290.8  | 182.2 | 211.1 | 239.3 | 287.7 | 319.7 | 273.0 | 247.1 | 241.0 | 239.3 |
| 77.5° | 632.6  | 189.9  | 136.3 | 157.9 | 179.6 | 260.0 | 308.5 | 237.5 | 204.7 | 195.1 | 190.8 |
| 80°   | 225.9  | 118.1  | 96.1  | 109.0 | 121.1 | 223.7 | 269.6 | 196.4 | 158.8 | 157.1 | 158.8 |
| 82.5° | 104.7  | 76.1   | 64.5  | 71.4  | 71.8  | 149.3 | 205.5 | 146.7 | 120.7 | 183.5 | 154.9 |
| 85°   | 45.0   | 38.1   | 36.3  | 35.5  | 32.9  | 66.6  | 115.5 | 78.7  | 122.9 | 54.9  | 50.6  |
| 87.5° | 13.4   | 15.1   | 13.4  | 10.0  | 7.4   | 7.4   | 11.7  | 4.3   | 3.0   | 2.2   | 2.2   |
| 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)