

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: P450994

Luminaire Tested: **GALN-SA1D-750-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-750-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5747 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

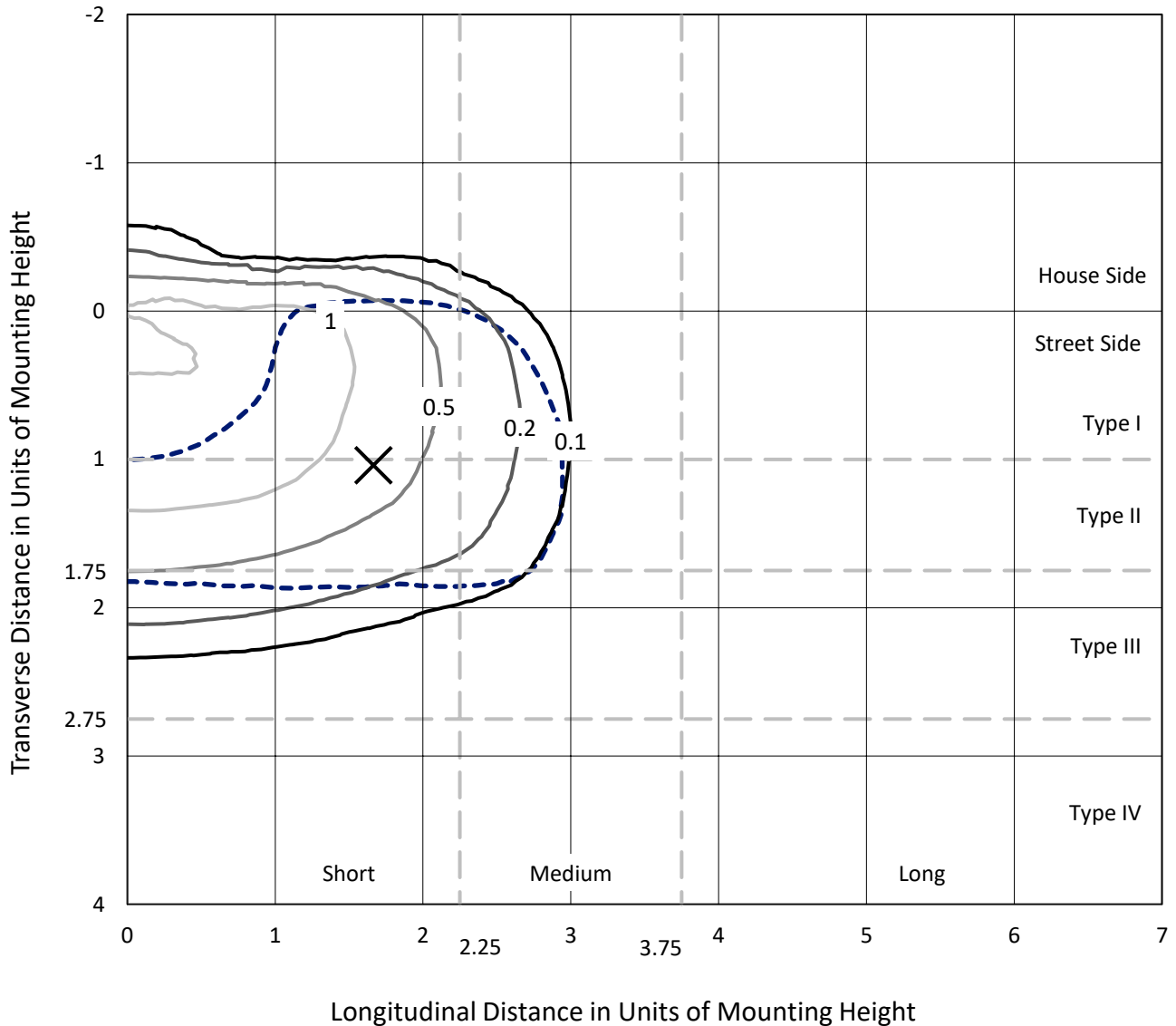
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

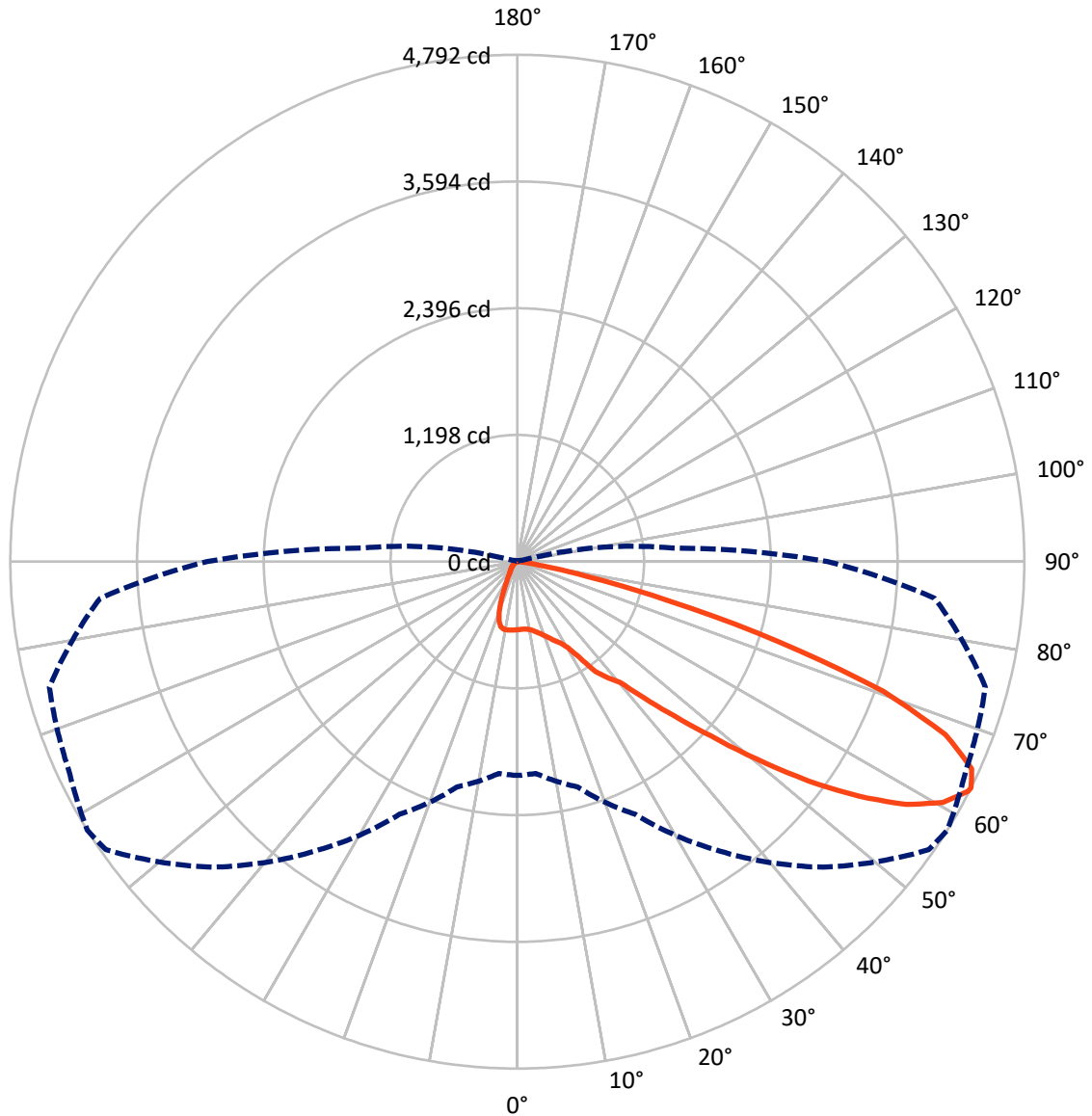
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 595.1    | 0.0    | 595.1  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 5151.9   | 0.0    | 5151.9 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 5747.0   | 0.0    | 5747.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.2   | 1.0       |
| 10°-20°   | 164.0  | 2.9       |
| 20°-30°   | 284.7  | 5.0       |
| 30°-40°   | 523.2  | 9.1       |
| 40°-50°   | 984.9  | 17.1      |
| 50°-60°   | 1684.6 | 29.3      |
| 60°-70°   | 1613.0 | 28.1      |
| 70°-80°   | 411.3  | 7.2       |
| 80°-90°   | 21.0   | 0.4       |
| 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°    | 5747.0 | 100.0     |
| 0°-180°   | 5747.0 | 100.0     |

**Coefficient of Utilization**



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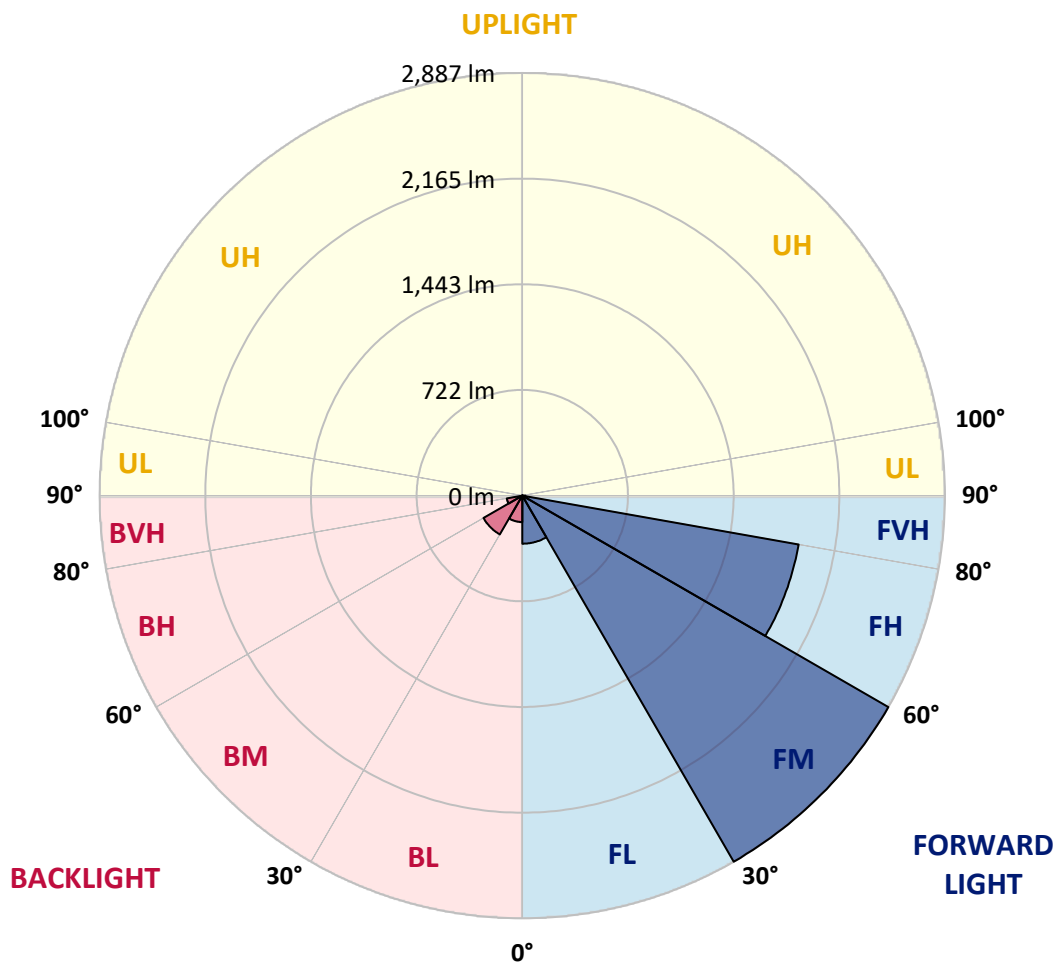
CATALOG NUMBER: GALN-SA1D-750-U-T3-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 328.5  | 5.7       |                         |      |         |
| FM (30°-60°)   | 2886.6 | 50.2      |                         |      |         |
| FH (60°-80°)   | 1916.6 | 33.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 20.2   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 180.5  | 3.1       | B1/500                  |      |         |
| BM (30°-60°)   | 306.1  | 5.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 107.7  | 1.9       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.8    | 0.0       |                         |      | G0/10   |
| 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°    | 58°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 643.4  | 643.4  | 643.4  | 643.4  | 643.4  | 643.4  | 643.4  | 643.4  | 643.4  | 643.4  | 643.4  |
| 2.5°  | 627.4  | 629.6  | 631.7  | 632.6  | 635.6  | 638.6  | 640.8  | 640.4  | 643.8  | 645.6  | 645.6  |
| 5°    | 602.3  | 602.3  | 607.9  | 613.1  | 621.8  | 630.4  | 638.6  | 640.4  | 646.9  | 652.9  | 655.1  |
| 7.5°  | 581.1  | 582.4  | 586.7  | 596.2  | 607.9  | 623.1  | 639.5  | 643.4  | 654.6  | 668.1  | 673.7  |
| 10°   | 571.1  | 572.0  | 577.6  | 587.6  | 602.3  | 623.1  | 646.0  | 653.4  | 670.7  | 691.9  | 699.6  |
| 12.5° | 569.0  | 570.3  | 575.9  | 587.2  | 604.0  | 629.1  | 660.3  | 668.1  | 693.2  | 720.4  | 732.1  |
| 15°   | 572.9  | 573.7  | 579.4  | 591.5  | 610.1  | 639.9  | 679.3  | 690.1  | 720.0  | 751.6  | 766.7  |
| 17.5° | 586.7  | 585.9  | 589.7  | 599.7  | 620.5  | 653.4  | 702.2  | 715.2  | 750.3  | 793.5  | 803.5  |
| 20°   | 645.6  | 639.9  | 636.5  | 627.8  | 636.0  | 672.4  | 729.9  | 749.0  | 792.2  | 836.4  | 843.3  |
| 22.5° | 772.3  | 759.8  | 735.1  | 701.4  | 675.4  | 698.3  | 763.3  | 785.3  | 841.1  | 884.4  | 884.4  |
| 25°   | 933.7  | 917.7  | 893.1  | 819.5  | 755.9  | 741.2  | 800.9  | 828.6  | 894.4  | 938.1  | 923.8  |
| 27.5° | 1135.8 | 1123.2 | 1075.2 | 989.5  | 892.2  | 816.0  | 844.6  | 870.1  | 941.5  | 994.3  | 964.4  |
| 30°   | 1300.2 | 1294.2 | 1254.8 | 1178.2 | 1070.9 | 959.7  | 925.9  | 942.8  | 1004.3 | 1065.3 | 1034.5 |
| 32.5° | 1439.1 | 1439.1 | 1398.9 | 1327.5 | 1227.1 | 1128.4 | 1064.0 | 1076.1 | 1134.9 | 1205.5 | 1148.3 |
| 35°   | 1591.8 | 1586.6 | 1554.2 | 1486.3 | 1373.8 | 1286.8 | 1260.4 | 1276.8 | 1330.1 | 1382.4 | 1241.8 |
| 37.5° | 1752.4 | 1750.6 | 1716.9 | 1651.1 | 1559.4 | 1449.9 | 1388.0 | 1392.4 | 1419.6 | 1451.6 | 1351.3 |
| 40°   | 1926.7 | 1929.3 | 1885.2 | 1844.5 | 1758.0 | 1645.9 | 1527.4 | 1500.1 | 1525.6 | 1616.1 | 1553.3 |
| 42.5° | 2132.7 | 2126.6 | 2107.6 | 2052.2 | 1982.6 | 1915.5 | 1773.1 | 1763.2 | 1785.7 | 1882.6 | 1814.7 |
| 45°   | 2372.0 | 2380.6 | 2347.7 | 2317.0 | 2270.3 | 2214.5 | 2095.5 | 2078.2 | 2102.8 | 2253.4 | 2156.9 |
| 47.5° | 2611.7 | 2603.5 | 2624.7 | 2619.0 | 2644.1 | 2602.6 | 2497.4 | 2462.0 | 2521.2 | 2664.0 | 2522.1 |
| 50°   | 2794.3 | 2803.3 | 2847.5 | 2912.0 | 3019.7 | 3043.1 | 2942.2 | 2930.1 | 2956.5 | 3048.2 | 2848.8 |
| 52.5° | 2912.8 | 2943.1 | 3012.3 | 3178.1 | 3372.3 | 3523.3 | 3446.7 | 3440.3 | 3429.4 | 3454.1 | 3161.2 |
| 55°   | 2990.3 | 3021.0 | 3111.4 | 3355.5 | 3689.9 | 3935.2 | 3939.1 | 3911.4 | 3840.1 | 3822.3 | 3453.2 |
| 57.5° | 2942.7 | 2948.7 | 3077.7 | 3403.9 | 3866.0 | 4229.0 | 4356.2 | 4328.6 | 4196.6 | 4129.5 | 3711.1 |
| 60°   | 2645.0 | 2657.5 | 2837.1 | 3220.5 | 3789.4 | 4325.1 | 4632.7 | 4620.2 | 4475.7 | 4399.9 | 3911.9 |
| 62.5° | 2117.5 | 2153.9 | 2338.6 | 2766.1 | 3433.3 | 4163.3 | 4744.8 | 4780.3 | 4667.8 | 4563.5 | 3975.1 |
| 63°   | 2020.6 | 2008.9 | 2204.1 | 2633.7 | 3339.0 | 4083.2 | 4746.5 | 4791.5 | 4676.4 | 4579.1 | 3957.7 |
| 65°   | 1495.8 | 1530.8 | 1657.6 | 2076.9 | 2778.7 | 3710.7 | 4639.7 | 4719.3 | 4644.4 | 4510.3 | 3766.1 |
| 67.5° | 839.8  | 838.1  | 978.3  | 1359.1 | 1944.9 | 2910.7 | 4195.3 | 4363.6 | 4348.0 | 4047.3 | 3121.8 |
| 70°   | 411.0  | 417.5  | 475.1  | 704.4  | 1128.0 | 2008.1 | 3486.1 | 3667.8 | 3673.5 | 3178.9 | 2158.7 |
| 72.5° | 186.1  | 189.1  | 230.2  | 343.1  | 579.8  | 1069.2 | 2402.3 | 2575.8 | 2543.7 | 2025.8 | 1192.0 |
| 75°   | 98.2   | 104.7  | 126.8  | 172.6  | 279.5  | 440.9  | 1306.7 | 1474.6 | 1407.5 | 925.5  | 438.7  |
| 77.5° | 72.7   | 74.9   | 86.1   | 109.9  | 149.7  | 171.8  | 563.8  | 670.7  | 628.3  | 334.9  | 145.4  |
| 80°   | 53.2   | 55.0   | 64.0   | 77.9   | 94.3   | 87.4   | 212.4  | 243.6  | 218.5  | 113.8  | 44.6   |
| 82.5° | 32.5   | 32.9   | 46.7   | 58.0   | 59.3   | 48.9   | 70.1   | 75.3   | 78.7   | 64.0   | 24.2   |
| 85°   | 11.7   | 14.7   | 31.6   | 42.0   | 35.0   | 24.7   | 29.4   | 32.5   | 35.5   | 40.7   | 14.3   |
| 87.5° | 1.3    | 1.7    | 15.1   | 20.3   | 10.0   | 9.1    | 10.8   | 12.1   | 13.0   | 15.1   | 6.9    |
| 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°    | 643.4  | 643.4  | 643.4 | 643.4 | 643.4 | 643.4 | 643.4 | 643.4 | 643.4 | 643.4 | 643.4 |
| 2.5°  | 647.3  | 649.0  | 647.7 | 645.6 | 645.1 | 643.8 | 641.2 | 641.2 | 641.2 | 642.1 | 641.2 |
| 5°    | 656.8  | 658.1  | 655.1 | 650.8 | 646.0 | 639.9 | 633.4 | 629.6 | 629.1 | 628.3 | 626.1 |
| 7.5°  | 675.0  | 676.7  | 669.8 | 659.4 | 646.4 | 631.7 | 617.9 | 604.9 | 598.8 | 594.1 | 594.1 |
| 10°   | 701.4  | 703.1  | 689.3 | 670.7 | 644.7 | 614.8 | 582.0 | 552.1 | 528.7 | 517.9 | 515.3 |
| 12.5° | 733.0  | 733.8  | 710.9 | 678.4 | 635.6 | 578.1 | 508.0 | 442.6 | 397.2 | 376.4 | 374.3 |
| 15°   | 767.6  | 761.5  | 731.2 | 681.5 | 609.6 | 502.3 | 381.2 | 301.1 | 254.0 | 240.1 | 245.3 |
| 17.5° | 802.6  | 791.4  | 746.8 | 676.7 | 551.2 | 381.2 | 256.1 | 205.5 | 190.8 | 186.9 | 186.9 |
| 20°   | 835.5  | 819.9  | 758.1 | 655.9 | 450.0 | 262.6 | 189.9 | 177.8 | 175.2 | 172.6 | 173.1 |
| 22.5° | 868.4  | 844.6  | 768.0 | 609.6 | 335.3 | 187.8 | 170.0 | 166.2 | 162.7 | 159.2 | 158.8 |
| 25°   | 900.4  | 867.5  | 771.9 | 524.0 | 228.5 | 161.4 | 155.3 | 150.1 | 143.2 | 139.3 | 138.5 |
| 27.5° | 933.7  | 895.2  | 769.3 | 415.8 | 166.6 | 144.5 | 138.5 | 131.1 | 122.9 | 116.0 | 116.0 |
| 30°   | 997.8  | 948.0  | 760.2 | 299.0 | 140.2 | 127.2 | 119.4 | 107.7 | 98.7  | 91.7  | 91.3  |
| 32.5° | 1085.2 | 1016.8 | 729.1 | 210.3 | 124.6 | 112.1 | 100.4 | 87.4  | 77.9  | 72.7  | 72.7  |
| 35°   | 1163.1 | 1086.0 | 670.7 | 154.9 | 112.1 | 97.4  | 83.1  | 70.5  | 63.2  | 59.7  | 58.4  |
| 37.5° | 1281.6 | 1187.3 | 590.2 | 125.9 | 99.9  | 84.4  | 69.7  | 58.0  | 51.9  | 49.3  | 49.3  |
| 40°   | 1459.4 | 1311.0 | 491.5 | 110.3 | 88.3  | 71.8  | 58.0  | 48.9  | 44.1  | 41.1  | 41.1  |
| 42.5° | 1680.1 | 1462.5 | 391.6 | 99.1  | 77.5  | 61.9  | 48.5  | 41.5  | 37.2  | 35.0  | 34.6  |
| 45°   | 1957.9 | 1622.1 | 301.6 | 88.7  | 68.8  | 52.8  | 41.1  | 35.0  | 30.7  | 29.4  | 29.9  |
| 47.5° | 2247.8 | 1762.7 | 233.6 | 79.6  | 59.7  | 44.6  | 35.0  | 30.3  | 27.3  | 25.5  | 25.5  |
| 50°   | 2495.3 | 1859.7 | 177.4 | 69.2  | 52.8  | 37.6  | 30.7  | 27.3  | 24.7  | 23.8  | 23.4  |
| 52.5° | 2702.1 | 1887.8 | 135.9 | 60.1  | 46.3  | 32.5  | 27.3  | 24.7  | 22.5  | 21.2  | 21.2  |
| 55°   | 2878.2 | 1863.1 | 106.4 | 50.6  | 38.9  | 28.1  | 24.2  | 22.1  | 19.5  | 18.2  | 17.7  |
| 57.5° | 2981.2 | 1783.9 | 81.3  | 42.0  | 31.6  | 23.4  | 21.2  | 18.6  | 15.6  | 13.4  | 13.4  |
| 60°   | 3033.1 | 1668.9 | 62.3  | 34.6  | 24.2  | 18.6  | 17.3  | 13.8  | 10.8  | 9.1   | 8.7   |
| 62.5° | 2970.8 | 1516.1 | 47.2  | 27.3  | 18.2  | 13.8  | 11.7  | 10.0  | 6.9   | 5.2   | 5.2   |
| 63°   | 2932.3 | 1472.0 | 45.4  | 26.0  | 16.9  | 13.0  | 10.8  | 9.1   | 6.1   | 4.8   | 4.3   |
| 65°   | 2673.1 | 1279.4 | 37.2  | 20.8  | 13.4  | 9.1   | 7.4   | 6.5   | 4.3   | 2.2   | 1.7   |
| 67.5° | 2122.7 | 978.7  | 29.4  | 15.6  | 9.5   | 6.5   | 4.3   | 3.9   | 1.3   | 0.0   | 0.0   |
| 70°   | 1435.2 | 632.1  | 22.9  | 11.2  | 6.5   | 3.9   | 2.2   | 1.7   | 0.4   | 0.0   | 0.0   |
| 72.5° | 748.5  | 324.1  | 17.7  | 8.2   | 3.9   | 2.6   | 1.3   | 0.4   | 0.0   | 0.0   | 0.0   |
| 75°   | 264.8  | 110.3  | 13.0  | 5.2   | 2.6   | 1.3   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 80.0   | 41.1   | 8.2   | 3.9   | 1.7   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 28.1   | 15.1   | 4.8   | 2.6   | 1.3   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 13.8   | 7.4    | 3.0   | 2.2   | 1.3   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 7.8    | 4.8    | 2.6   | 2.2   | 1.3   | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 5.6    | 3.5    | 2.6   | 2.2   | 1.7   | 0.9   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)