

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: INVUE

Report Number: P401236

Luminaire Tested: **ENC-SA1C-722-U-SL3**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENC-SA1C-722-U-SL3  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3253 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

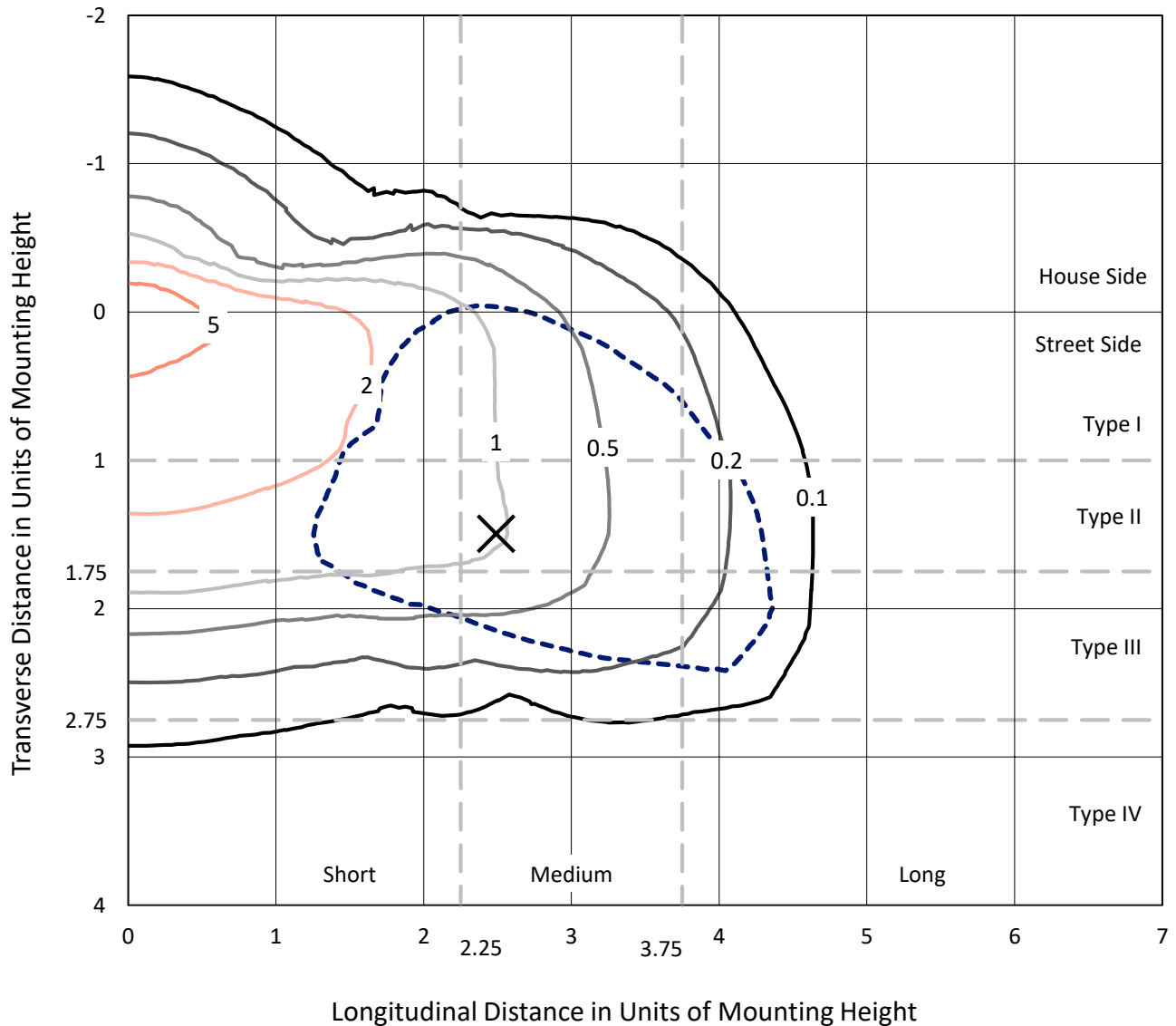
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

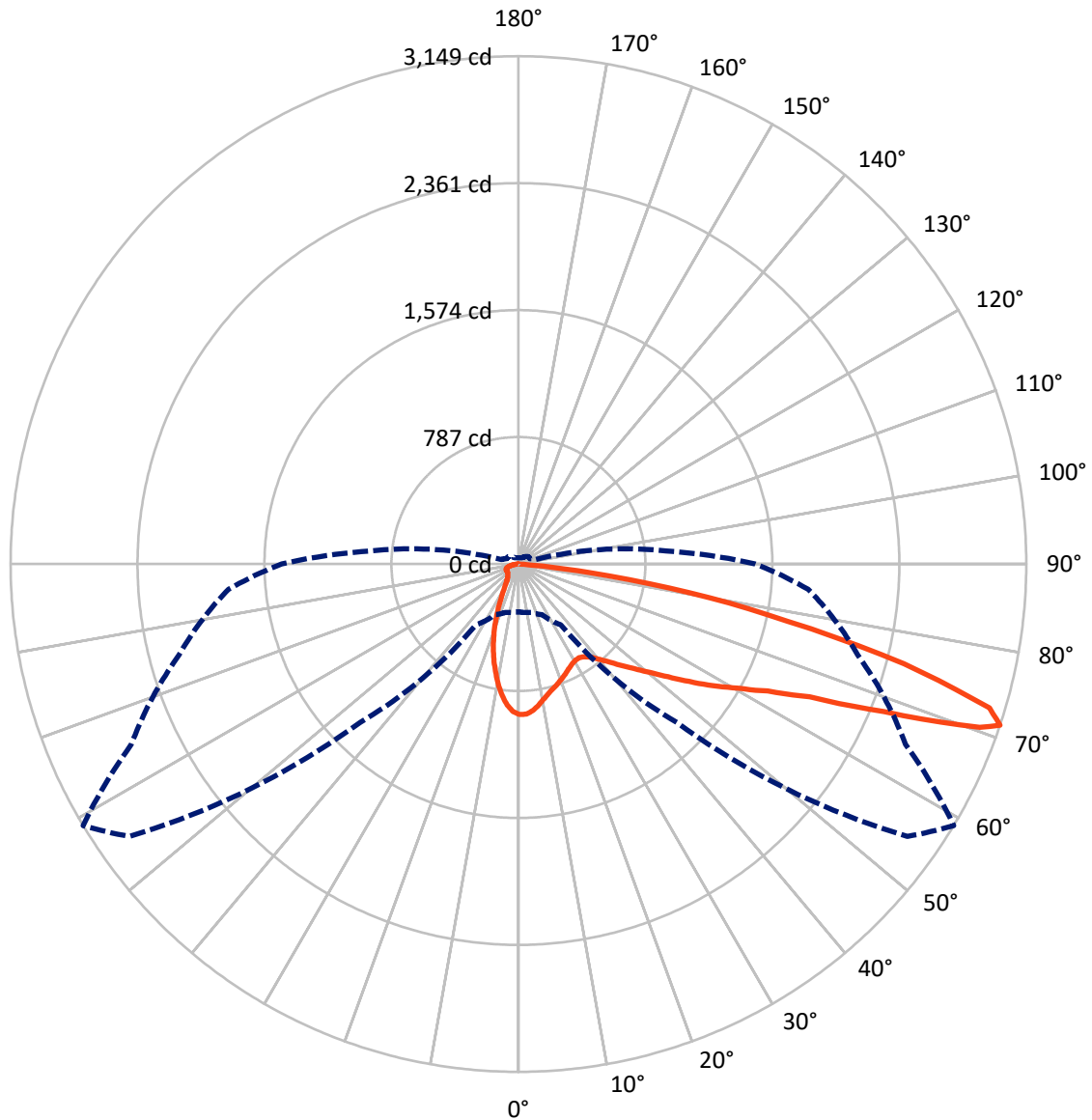
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 552.1    | 0.0    | 552.1  |
|                    | % Fixture | 17.0     | 0.0    | 17.0   |
| <b>Street Side</b> | Lumens    | 2700.9   | 0.0    | 2700.9 |
|                    | % Fixture | 83.0     | 0.0    | 83.0   |
| <b>Total</b>       | Lumens    | 3253.0   | 0.0    | 3253.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.6   | 2.5       |
| 10°-20°   | 181.2  | 5.6       |
| 20°-30°   | 230.2  | 7.1       |
| 30°-40°   | 294.3  | 9.0       |
| 40°-50°   | 408.5  | 12.6      |
| 50°-60°   | 604.8  | 18.6      |
| 60°-70°   | 817.4  | 25.1      |
| 70°-80°   | 579.7  | 17.8      |
| 80°-90°   | 56.3   | 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°    | 3253.0 | 100.0     |
| 0°-180°   | 3253.0 | 100.0     |



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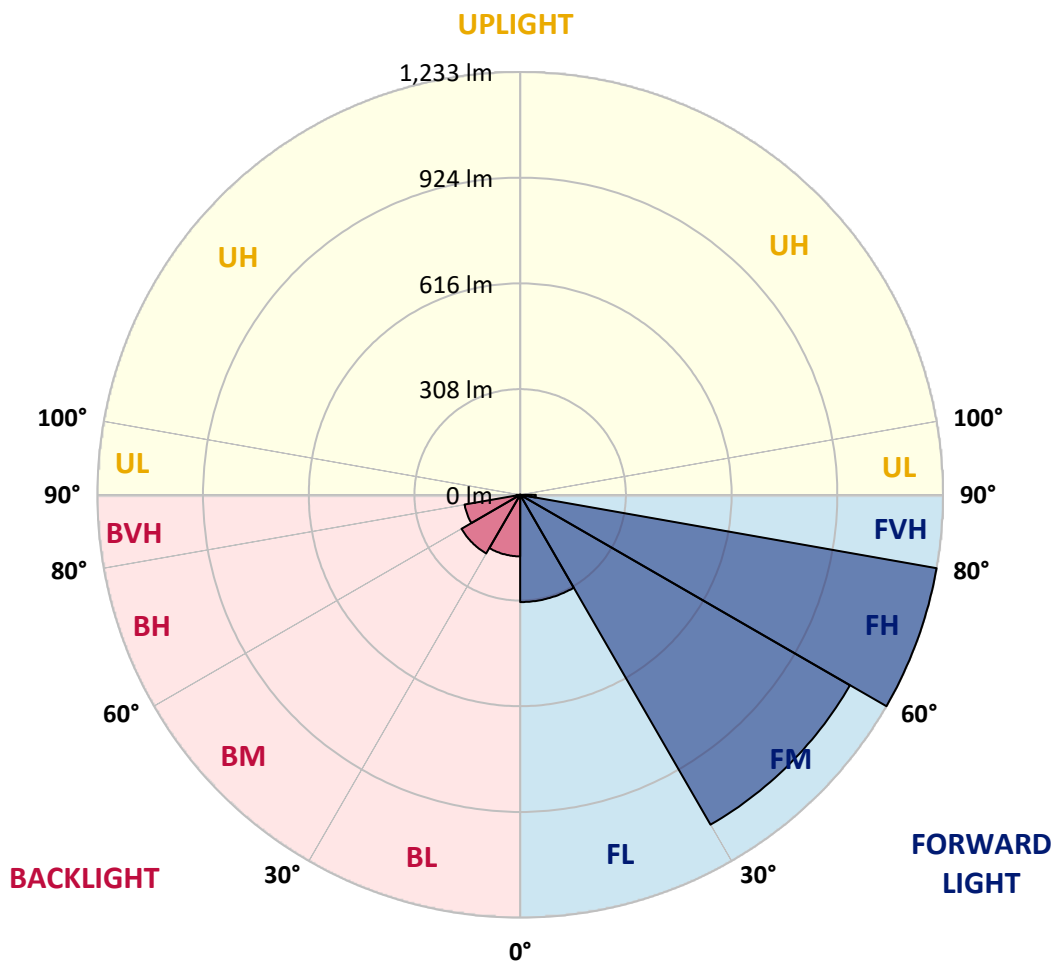
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 312.6  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 1110.1 | 34.1      |                         |      |         |
| FH   | (60°-80°)   | 1232.5 | 37.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 45.6   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 179.4  | 5.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 197.5  | 6.1       | B0/220                  |      |         |
| BH   | (60°-80°)   | 164.5  | 5.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.7   | 0.3       |                         |      | 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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 933.3  | 933.3  | 933.3  | 933.3  | 933.3  | 933.3  | 933.3  | 933.3  | 933.3  | 933.3  | 933.3  |
| 2.5°  | 925.3  | 928.6  | 930.0  | 932.3  | 932.3  | 933.3  | 932.3  | 931.9  | 933.7  | 931.9  | 926.7  |
| 5°    | 884.3  | 885.7  | 889.9  | 894.6  | 899.3  | 909.2  | 912.1  | 914.0  | 918.2  | 919.1  | 914.0  |
| 7.5°  | 828.6  | 833.8  | 839.5  | 845.6  | 855.5  | 869.2  | 881.0  | 885.7  | 893.7  | 898.4  | 890.9  |
| 10°   | 781.5  | 784.3  | 787.2  | 798.0  | 813.6  | 832.4  | 844.7  | 853.6  | 866.3  | 872.5  | 865.4  |
| 12.5° | 734.4  | 736.7  | 742.4  | 757.0  | 773.0  | 795.6  | 817.8  | 824.9  | 840.0  | 852.2  | 846.5  |
| 15°   | 698.1  | 698.1  | 702.3  | 718.3  | 735.3  | 765.5  | 791.4  | 802.2  | 821.1  | 838.5  | 831.5  |
| 17.5° | 666.0  | 667.4  | 670.3  | 680.6  | 704.2  | 735.8  | 768.8  | 782.4  | 806.0  | 828.6  | 819.2  |
| 20°   | 648.1  | 647.2  | 649.1  | 654.2  | 673.1  | 706.6  | 746.2  | 762.2  | 791.4  | 822.5  | 807.4  |
| 22.5° | 642.0  | 641.0  | 639.6  | 639.2  | 651.4  | 679.7  | 722.1  | 741.9  | 778.2  | 819.2  | 796.6  |
| 25°   | 646.7  | 646.7  | 642.5  | 634.4  | 640.1  | 659.4  | 700.4  | 721.6  | 763.6  | 816.9  | 786.7  |
| 27.5° | 659.4  | 659.4  | 653.3  | 642.9  | 640.6  | 649.1  | 681.6  | 704.2  | 751.3  | 818.3  | 778.7  |
| 30°   | 676.9  | 676.4  | 670.3  | 661.3  | 654.2  | 651.4  | 672.6  | 693.4  | 742.9  | 824.4  | 774.9  |
| 32.5° | 696.7  | 695.7  | 692.9  | 686.8  | 678.3  | 666.0  | 673.6  | 691.9  | 741.0  | 835.2  | 775.4  |
| 35°   | 720.2  | 718.8  | 720.2  | 716.9  | 708.9  | 695.7  | 691.0  | 705.6  | 750.4  | 855.5  | 783.4  |
| 37.5° | 741.0  | 740.0  | 747.1  | 749.0  | 747.1  | 729.7  | 723.5  | 733.0  | 772.5  | 887.6  | 799.9  |
| 40°   | 758.4  | 759.3  | 772.1  | 785.7  | 788.6  | 773.5  | 769.2  | 777.3  | 808.4  | 926.7  | 829.6  |
| 42.5° | 777.7  | 780.6  | 799.4  | 823.9  | 833.4  | 823.5  | 825.8  | 831.5  | 853.6  | 979.9  | 872.5  |
| 45°   | 796.6  | 802.7  | 828.6  | 860.2  | 884.3  | 884.3  | 892.3  | 897.9  | 912.1  | 1046.9 | 935.2  |
| 47.5° | 829.6  | 833.8  | 862.1  | 900.3  | 937.0  | 948.8  | 971.0  | 969.1  | 979.9  | 1120.4 | 1008.7 |
| 50°   | 872.5  | 879.5  | 908.3  | 947.9  | 994.6  | 1028.0 | 1053.5 | 1057.2 | 1061.5 | 1195.8 | 1095.9 |
| 52.5° | 931.9  | 940.3  | 963.9  | 1000.7 | 1055.8 | 1110.5 | 1164.2 | 1161.9 | 1156.2 | 1277.8 | 1195.8 |
| 55°   | 991.7  | 1000.7 | 1022.8 | 1052.5 | 1117.6 | 1201.5 | 1289.1 | 1285.8 | 1259.9 | 1361.7 | 1288.2 |
| 57.5° | 1052.5 | 1060.1 | 1083.2 | 1109.1 | 1185.9 | 1308.9 | 1421.1 | 1423.5 | 1370.2 | 1455.1 | 1379.6 |
| 60°   | 1078.0 | 1089.3 | 1146.3 | 1196.3 | 1292.4 | 1428.2 | 1555.9 | 1562.1 | 1484.8 | 1549.3 | 1480.5 |
| 62.5° | 963.0  | 976.6  | 1070.9 | 1205.7 | 1438.6 | 1658.2 | 1731.3 | 1735.0 | 1622.9 | 1653.5 | 1590.8 |
| 65°   | 712.7  | 712.2  | 809.8  | 1011.5 | 1409.3 | 1967.0 | 2043.8 | 1984.4 | 1794.4 | 1791.6 | 1736.5 |
| 67.5° | 408.2  | 420.4  | 451.6  | 603.3  | 1073.7 | 2024.0 | 2600.0 | 2444.9 | 2098.5 | 2006.5 | 1930.7 |
| 70°   | 329.0  | 326.2  | 335.6  | 376.1  | 585.4  | 1664.3 | 2962.5 | 3033.2 | 2530.2 | 2181.9 | 1886.8 |
| 71°   | 296.5  | 300.7  | 310.2  | 346.9  | 461.9  | 1388.6 | 2944.5 | 3148.6 | 2648.1 | 2177.2 | 1803.4 |
| 72.5° | 255.0  | 255.9  | 277.6  | 321.0  | 379.4  | 979.5  | 2722.5 | 3053.4 | 2771.6 | 2115.4 | 1680.8 |
| 75°   | 173.5  | 175.8  | 209.8  | 258.3  | 346.4  | 465.2  | 1948.1 | 2469.9 | 2522.7 | 1976.9 | 1388.1 |
| 77.5° | 99.5   | 101.3  | 125.9  | 189.0  | 295.1  | 328.1  | 1195.8 | 1706.8 | 1813.8 | 1445.6 | 744.3  |
| 80°   | 51.4   | 53.7   | 69.8   | 119.3  | 225.3  | 265.4  | 685.8  | 1073.3 | 1031.8 | 499.6  | 172.5  |
| 82.5° | 13.7   | 15.6   | 20.3   | 42.9   | 108.9  | 173.0  | 304.0  | 444.0  | 317.2  | 103.7  | 62.7   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.5    | 0.9    | 24.0   | 64.1   | 79.7   | 44.3   | 20.3   | 17.0   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.5    | 0.9    | 0.9    | 0.9    | 0.9    | 1.4    | 1.9    |
| 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°    | 933.3  | 933.3  | 933.3 | 933.3 | 933.3 | 933.3 | 933.3 | 933.3 | 933.3 | 933.3 | 933.3 |
| 2.5°  | 925.7  | 925.7  | 922.9 | 918.7 | 914.0 | 903.1 | 905.0 | 896.5 | 897.5 | 896.5 | 896.5 |
| 5°    | 909.7  | 906.9  | 899.8 | 886.6 | 872.0 | 852.7 | 849.8 | 834.3 | 825.3 | 822.5 | 825.8 |
| 7.5°  | 887.6  | 879.5  | 861.6 | 838.5 | 810.7 | 785.7 | 762.6 | 741.9 | 726.4 | 719.8 | 716.9 |
| 10°   | 858.3  | 848.4  | 819.2 | 778.7 | 740.5 | 701.4 | 665.1 | 641.5 | 610.4 | 601.0 | 598.1 |
| 12.5° | 834.3  | 817.3  | 773.5 | 716.9 | 657.5 | 605.7 | 556.7 | 507.2 | 477.5 | 456.3 | 453.0 |
| 15°   | 813.6  | 789.5  | 726.8 | 653.8 | 579.8 | 508.1 | 441.7 | 375.2 | 333.2 | 315.3 | 302.6 |
| 17.5° | 795.2  | 764.1  | 680.2 | 585.4 | 494.0 | 399.2 | 318.2 | 254.5 | 228.1 | 214.5 | 214.9 |
| 20°   | 776.3  | 736.7  | 631.6 | 517.1 | 409.1 | 304.0 | 224.8 | 195.1 | 181.9 | 179.1 | 177.7 |
| 22.5° | 758.4  | 705.6  | 580.2 | 449.7 | 322.4 | 223.4 | 181.0 | 166.4 | 163.1 | 163.1 | 163.1 |
| 25°   | 738.1  | 674.0  | 528.4 | 380.9 | 244.2 | 176.3 | 155.5 | 150.4 | 151.3 | 153.2 | 153.7 |
| 27.5° | 721.6  | 646.7  | 477.0 | 301.2 | 189.5 | 149.9 | 139.0 | 138.1 | 141.9 | 146.1 | 146.1 |
| 30°   | 707.0  | 621.7  | 421.4 | 235.2 | 150.8 | 131.5 | 127.7 | 129.2 | 132.9 | 136.7 | 138.1 |
| 32.5° | 697.1  | 599.1  | 371.4 | 182.9 | 128.7 | 118.8 | 117.8 | 119.7 | 123.5 | 125.4 | 126.8 |
| 35°   | 692.9  | 582.6  | 317.7 | 147.5 | 114.5 | 109.4 | 108.9 | 110.3 | 112.2 | 112.7 | 112.2 |
| 37.5° | 697.6  | 571.3  | 262.5 | 124.9 | 105.6 | 102.8 | 102.3 | 102.3 | 102.3 | 102.8 | 102.3 |
| 40°   | 711.3  | 567.0  | 213.1 | 110.3 | 99.9  | 97.6  | 96.2  | 94.7  | 93.8  | 93.8  | 93.3  |
| 42.5° | 740.0  | 573.6  | 171.1 | 101.8 | 95.7  | 92.9  | 90.0  | 88.1  | 86.7  | 86.3  | 86.3  |
| 45°   | 786.2  | 592.0  | 142.3 | 96.2  | 91.9  | 87.7  | 84.4  | 82.5  | 81.1  | 81.5  | 81.1  |
| 47.5° | 849.8  | 622.7  | 125.9 | 92.4  | 88.1  | 82.5  | 79.2  | 77.3  | 76.8  | 78.2  | 78.7  |
| 50°   | 922.0  | 666.0  | 116.0 | 89.6  | 85.3  | 78.2  | 74.5  | 73.1  | 73.5  | 76.4  | 76.8  |
| 52.5° | 1006.8 | 722.1  | 111.7 | 87.7  | 83.0  | 74.5  | 71.2  | 69.8  | 70.7  | 74.0  | 74.5  |
| 55°   | 1098.3 | 786.2  | 117.8 | 88.6  | 80.6  | 72.1  | 68.3  | 66.5  | 67.9  | 70.7  | 71.2  |
| 57.5° | 1191.1 | 865.4  | 138.6 | 89.1  | 77.8  | 70.2  | 65.5  | 62.7  | 63.6  | 66.0  | 66.5  |
| 60°   | 1284.9 | 944.1  | 174.4 | 89.6  | 76.8  | 68.3  | 63.2  | 58.9  | 59.4  | 60.8  | 61.3  |
| 62.5° | 1395.2 | 1044.0 | 221.5 | 91.4  | 77.8  | 66.9  | 58.9  | 54.2  | 54.2  | 55.1  | 55.1  |
| 65°   | 1562.5 | 1193.0 | 252.6 | 90.5  | 80.1  | 65.5  | 54.7  | 50.0  | 49.5  | 50.0  | 50.0  |
| 67.5° | 1682.7 | 1212.8 | 176.3 | 85.3  | 81.5  | 66.0  | 52.3  | 46.2  | 45.2  | 44.8  | 44.8  |
| 70°   | 1555.5 | 1020.5 | 116.4 | 80.6  | 79.2  | 66.9  | 50.4  | 43.8  | 42.0  | 40.5  | 40.1  |
| 71°   | 1467.3 | 919.6  | 107.9 | 78.7  | 77.3  | 66.0  | 49.5  | 42.4  | 40.5  | 39.6  | 39.1  |
| 72.5° | 1336.8 | 820.6  | 99.5  | 75.9  | 73.1  | 64.1  | 48.1  | 41.0  | 38.7  | 37.2  | 36.8  |
| 75°   | 1056.3 | 629.3  | 87.2  | 69.8  | 63.2  | 52.8  | 44.3  | 38.2  | 35.8  | 33.9  | 33.5  |
| 77.5° | 477.5  | 250.3  | 66.9  | 60.3  | 51.4  | 42.0  | 38.7  | 35.4  | 32.5  | 31.1  | 30.6  |
| 80°   | 133.4  | 95.2   | 49.0  | 47.6  | 38.7  | 32.5  | 31.1  | 30.2  | 29.2  | 27.3  | 27.3  |
| 82.5° | 61.7   | 55.6   | 34.9  | 33.5  | 26.4  | 23.1  | 24.5  | 25.0  | 25.0  | 23.1  | 22.6  |
| 85°   | 17.0   | 18.4   | 16.0  | 17.9  | 17.0  | 15.6  | 17.9  | 19.3  | 20.3  | 18.4  | 17.0  |
| 87.5° | 1.4    | 3.3    | 4.2   | 7.1   | 8.5   | 9.0   | 11.3  | 13.7  | 14.1  | 11.3  | 11.8  |
| 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)