

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: P673108

Luminaire Tested: **CCP-SA-1B-735-U-T2-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673108  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-735-U-T2-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T2 distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

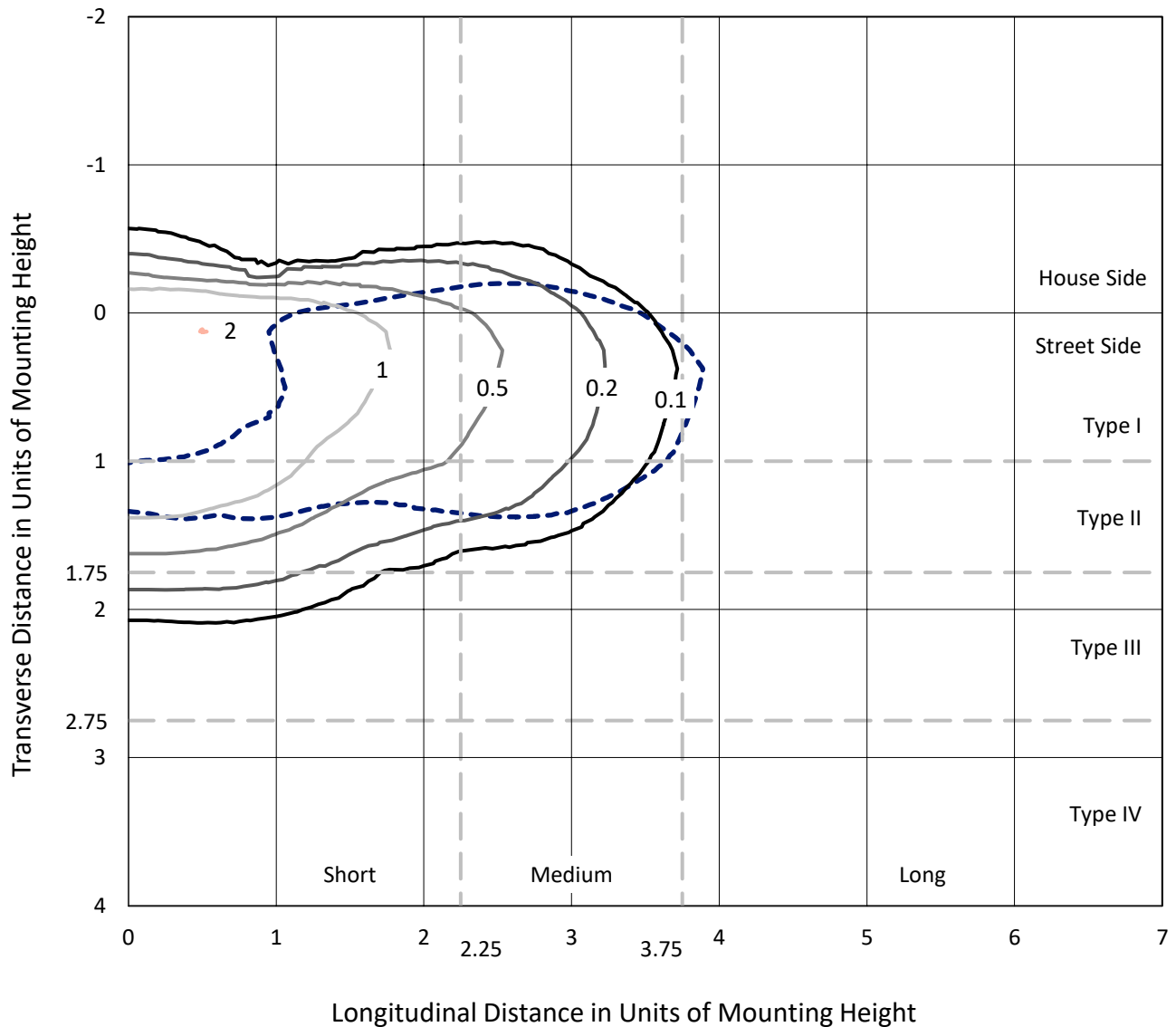
Lumens per Lamp: N/A  
Luminaire Lumens: 2629.8 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
Input Voltage (V): 120  
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

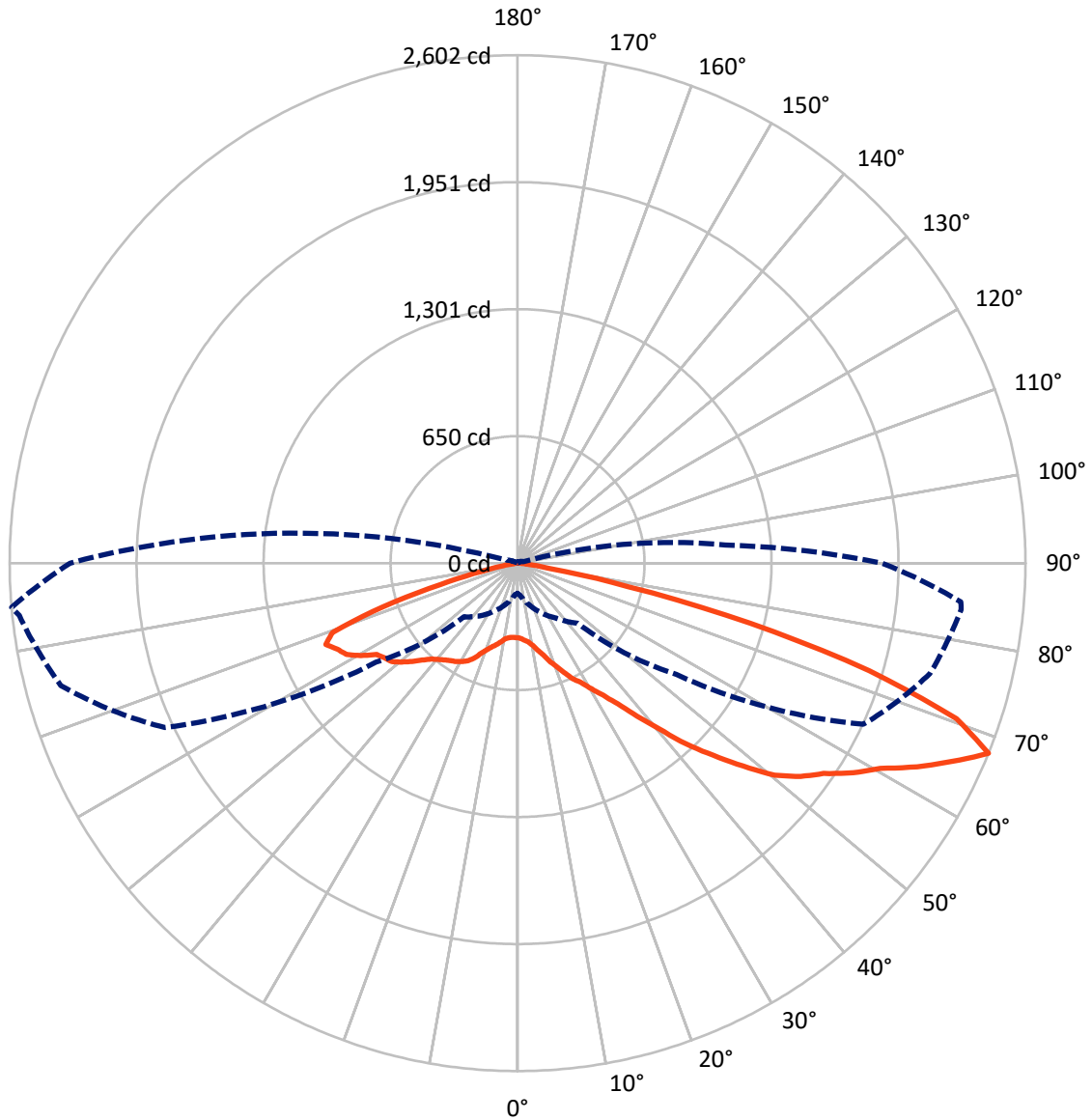
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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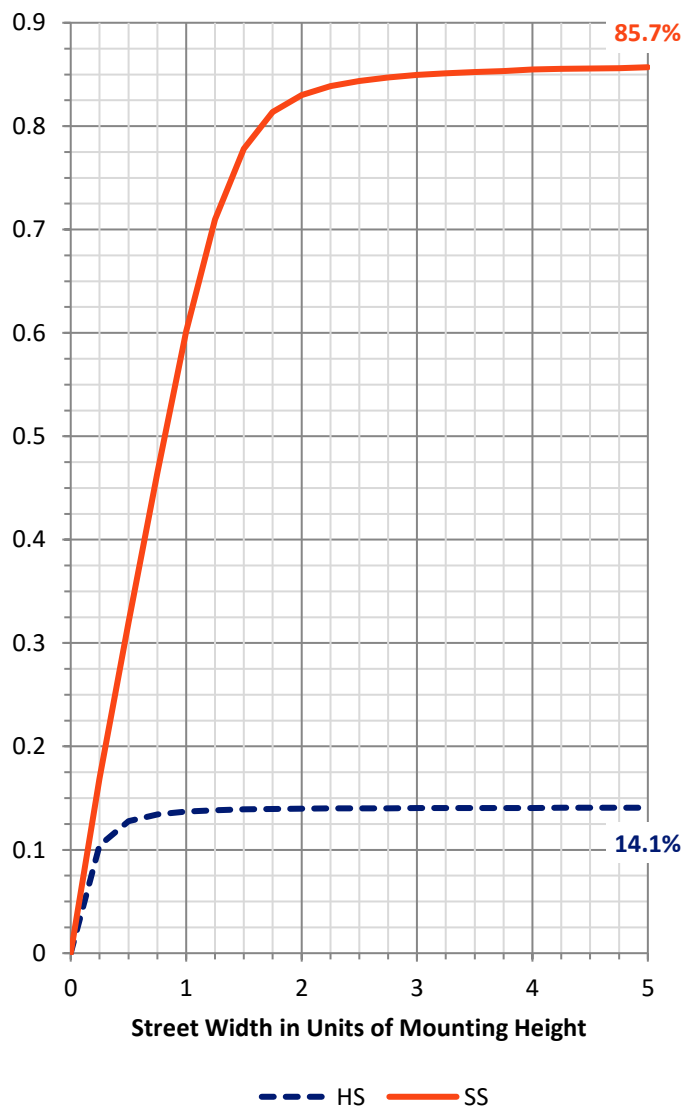
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 373.6    | 0.0    | 373.6  |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 2256.2   | 0.0    | 2256.2 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 2629.8   | 0.0    | 2629.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 34.9   | 1.3       |
| 10°-20°   | 93.8   | 3.6       |
| 20°-30°   | 155.7  | 5.9       |
| 30°-40°   | 267.9  | 10.2      |
| 40°-50°   | 481.4  | 18.3      |
| 50°-60°   | 685.4  | 26.1      |
| 60°-70°   | 624.8  | 23.8      |
| 70°-80°   | 266.1  | 10.1      |
| 80°-90°   | 19.8   | 0.8       |
| 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°    | 2629.8 | 100.0     |
| 0°-180°   | 2629.8 | 100.0     |



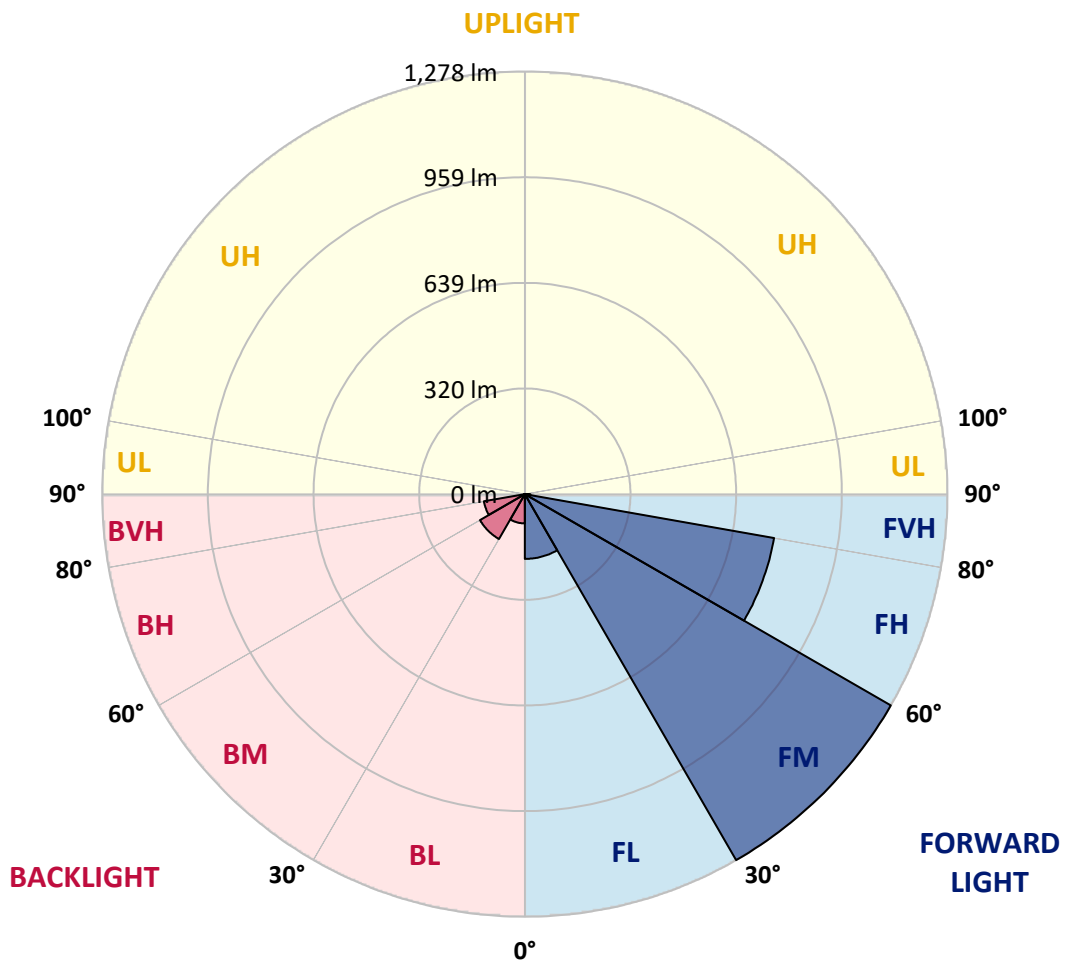
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 195.9  | 7.4       |                         |      |         |
| FM (30°-60°)   | 1278.1 | 48.6      |                         |      |         |
| FH (60°-80°)   | 765.4  | 29.1      |                         |      | G1/1800 |
| FVH (80°-90°)  | 16.8   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 88.4   | 3.4       | B0/110                  |      |         |
| BM (30°-60°)   | 156.6  | 6.0       | B0/220                  |      |         |
| BH (60°-80°)   | 125.5  | 4.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.0    | 0.1       |                         |      | G0/10   |
| 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 84°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  |
| 2.5°  | 396.2  | 400.0  | 400.0  | 398.7  | 394.9  | 392.4  | 391.2  | 388.7  | 386.2  | 386.2  | 387.4  |
| 5°    | 400.0  | 396.2  | 401.2  | 394.9  | 394.9  | 394.9  | 400.0  | 397.5  | 396.2  | 389.9  | 389.9  |
| 7.5°  | 400.0  | 396.2  | 396.2  | 400.0  | 396.2  | 398.7  | 405.0  | 402.5  | 407.5  | 396.2  | 398.7  |
| 10°   | 388.7  | 387.4  | 389.9  | 394.9  | 396.2  | 401.2  | 407.5  | 420.0  | 421.3  | 413.8  | 412.5  |
| 12.5° | 366.1  | 364.9  | 373.6  | 376.1  | 391.2  | 403.7  | 422.5  | 432.6  | 443.8  | 440.1  | 432.6  |
| 15°   | 349.8  | 352.3  | 358.6  | 368.6  | 382.4  | 405.0  | 426.3  | 448.9  | 468.9  | 463.9  | 461.4  |
| 17.5° | 356.1  | 354.8  | 356.1  | 362.3  | 379.9  | 402.5  | 438.8  | 465.2  | 494.0  | 494.0  | 496.5  |
| 20°   | 374.9  | 378.6  | 377.4  | 373.6  | 382.4  | 401.2  | 438.8  | 485.2  | 532.9  | 529.1  | 529.1  |
| 22.5° | 407.5  | 408.7  | 401.2  | 398.7  | 397.5  | 408.7  | 446.4  | 510.3  | 565.5  | 573.0  | 570.5  |
| 25°   | 441.3  | 442.6  | 440.1  | 432.6  | 422.5  | 425.0  | 460.1  | 530.4  | 610.6  | 623.1  | 620.6  |
| 27.5° | 497.8  | 496.5  | 490.2  | 481.5  | 466.4  | 455.1  | 481.5  | 545.4  | 645.7  | 667.0  | 660.8  |
| 30°   | 554.2  | 550.4  | 541.6  | 530.4  | 516.6  | 495.3  | 507.8  | 574.2  | 689.6  | 709.7  | 695.9  |
| 32.5° | 623.1  | 615.6  | 618.1  | 600.6  | 571.7  | 537.9  | 535.4  | 600.6  | 724.7  | 753.5  | 742.3  |
| 35°   | 710.9  | 702.1  | 689.6  | 673.3  | 645.7  | 600.6  | 586.8  | 643.2  | 783.6  | 804.9  | 804.9  |
| 37.5° | 826.3  | 835.0  | 820.0  | 752.3  | 722.2  | 679.6  | 650.7  | 687.1  | 835.0  | 886.4  | 873.9  |
| 40°   | 944.1  | 951.6  | 924.1  | 873.9  | 808.7  | 756.0  | 738.5  | 758.5  | 912.8  | 974.2  | 950.4  |
| 42.5° | 1039.4 | 1049.4 | 1039.4 | 974.2  | 922.8  | 855.1  | 823.7  | 842.6  | 1013.1 | 1087.0 | 1055.7 |
| 45°   | 1139.7 | 1149.7 | 1138.5 | 1095.8 | 1045.7 | 1006.8 | 927.8  | 951.6  | 1118.4 | 1228.7 | 1193.6 |
| 47.5° | 1214.9 | 1227.5 | 1207.4 | 1198.6 | 1158.5 | 1152.2 | 1018.1 | 1044.4 | 1228.7 | 1371.7 | 1327.8 |
| 50°   | 1232.5 | 1246.3 | 1263.8 | 1273.9 | 1260.1 | 1275.1 | 1139.7 | 1162.3 | 1344.1 | 1503.3 | 1460.7 |
| 52.5° | 1191.1 | 1204.9 | 1243.8 | 1290.2 | 1354.1 | 1399.2 | 1262.6 | 1281.4 | 1464.4 | 1612.4 | 1589.8 |
| 55°   | 1069.5 | 1082.0 | 1161.0 | 1223.7 | 1376.7 | 1450.6 | 1380.4 | 1459.4 | 1551.0 | 1726.5 | 1671.3 |
| 57.5° | 865.1  | 880.2  | 984.2  | 1080.8 | 1301.4 | 1421.8 | 1450.6 | 1607.4 | 1693.9 | 1810.5 | 1746.5 |
| 60°   | 614.4  | 623.1  | 713.4  | 883.9  | 1093.3 | 1277.6 | 1436.9 | 1717.7 | 1806.7 | 1923.3 | 1889.5 |
| 62.5° | 353.6  | 361.1  | 455.1  | 615.6  | 825.0  | 1067.0 | 1375.4 | 1821.8 | 1928.3 | 2047.5 | 2028.6 |
| 65°   | 234.5  | 237.0  | 300.9  | 388.7  | 536.6  | 786.1  | 1219.9 | 1914.6 | 2048.7 | 2146.5 | 2125.2 |
| 67.5° | 154.2  | 168.0  | 218.2  | 278.3  | 343.5  | 435.1  | 994.3  | 1953.4 | 2186.6 | 2284.4 | 2279.4 |
| 70°   | 110.3  | 115.3  | 156.7  | 214.4  | 258.3  | 244.5  | 581.8  | 1678.8 | 2180.4 | 2322.0 | 2280.7 |
| 72.5° | 65.2   | 70.2   | 104.1  | 160.5  | 203.1  | 155.5  | 272.1  | 1187.3 | 1806.7 | 1853.1 | 1841.8 |
| 75°   | 47.6   | 47.6   | 63.9   | 115.3  | 147.9  | 111.6  | 127.9  | 751.0  | 1199.9 | 1302.7 | 1301.4 |
| 77.5° | 33.9   | 35.1   | 43.9   | 69.0   | 114.1  | 81.5   | 70.2   | 417.5  | 655.7  | 717.2  | 683.3  |
| 80°   | 20.1   | 21.3   | 30.1   | 41.4   | 82.8   | 58.9   | 46.4   | 190.6  | 252.0  | 254.5  | 242.0  |
| 82.5° | 15.0   | 15.0   | 20.1   | 28.8   | 57.7   | 40.1   | 28.8   | 72.7   | 81.5   | 74.0   | 62.7   |
| 85°   | 8.8    | 7.5    | 15.0   | 21.3   | 33.9   | 22.6   | 20.1   | 33.9   | 37.6   | 27.6   | 25.1   |
| 87.5° | 2.5    | 2.5    | 6.3    | 7.5    | 15.0   | 12.5   | 8.8    | 12.5   | 17.6   | 10.0   | 7.5    |
| 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°    | 382.4  | 382.4  | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 |
| 2.5°  | 384.9  | 381.2  | 374.9 | 372.4 | 363.6 | 359.8 | 357.3 | 351.1 | 352.3 | 348.6 | 348.6 |
| 5°    | 381.2  | 381.2  | 368.6 | 354.8 | 341.0 | 332.3 | 322.2 | 309.7 | 309.7 | 304.7 | 305.9 |
| 7.5°  | 394.9  | 384.9  | 368.6 | 343.5 | 321.0 | 300.9 | 292.1 | 279.6 | 272.1 | 268.3 | 268.3 |
| 10°   | 403.7  | 393.7  | 366.1 | 336.0 | 307.2 | 282.1 | 263.3 | 245.7 | 235.7 | 235.7 | 234.5 |
| 12.5° | 427.5  | 412.5  | 376.1 | 334.8 | 292.1 | 254.5 | 225.7 | 205.6 | 191.8 | 181.8 | 184.3 |
| 15°   | 447.6  | 431.3  | 381.2 | 324.7 | 265.8 | 213.1 | 178.0 | 140.4 | 121.6 | 111.6 | 107.8 |
| 17.5° | 479.0  | 448.9  | 392.4 | 307.2 | 225.7 | 166.8 | 115.3 | 84.0  | 76.5  | 75.2  | 75.2  |
| 20°   | 505.3  | 470.2  | 393.7 | 273.3 | 185.6 | 106.6 | 74.0  | 69.0  | 65.2  | 63.9  | 62.7  |
| 22.5° | 541.6  | 497.8  | 388.7 | 234.5 | 132.9 | 71.5  | 62.7  | 57.7  | 55.2  | 51.4  | 51.4  |
| 25°   | 579.3  | 534.1  | 378.6 | 198.1 | 81.5  | 61.4  | 55.2  | 50.2  | 45.1  | 42.6  | 43.9  |
| 27.5° | 619.4  | 561.7  | 349.8 | 154.2 | 62.7  | 53.9  | 45.1  | 41.4  | 38.9  | 37.6  | 37.6  |
| 30°   | 652.0  | 579.3  | 307.2 | 102.8 | 56.4  | 47.6  | 40.1  | 36.4  | 33.9  | 32.6  | 32.6  |
| 32.5° | 675.8  | 594.3  | 259.5 | 69.0  | 51.4  | 42.6  | 36.4  | 32.6  | 30.1  | 28.8  | 28.8  |
| 35°   | 715.9  | 605.6  | 215.7 | 58.9  | 46.4  | 37.6  | 31.3  | 28.8  | 26.3  | 26.3  | 26.3  |
| 37.5° | 777.4  | 620.6  | 171.8 | 53.9  | 42.6  | 33.9  | 30.1  | 26.3  | 25.1  | 23.8  | 23.8  |
| 40°   | 831.3  | 639.4  | 122.9 | 48.9  | 38.9  | 31.3  | 26.3  | 23.8  | 22.6  | 21.3  | 21.3  |
| 42.5° | 909.0  | 660.8  | 80.2  | 43.9  | 35.1  | 28.8  | 23.8  | 21.3  | 20.1  | 18.8  | 18.8  |
| 45°   | 1008.1 | 695.9  | 62.7  | 38.9  | 31.3  | 26.3  | 22.6  | 20.1  | 17.6  | 17.6  | 16.3  |
| 47.5° | 1113.4 | 738.5  | 56.4  | 36.4  | 28.8  | 23.8  | 20.1  | 17.6  | 16.3  | 15.0  | 15.0  |
| 50°   | 1211.2 | 779.9  | 52.7  | 33.9  | 26.3  | 22.6  | 18.8  | 16.3  | 13.8  | 12.5  | 12.5  |
| 52.5° | 1298.9 | 818.7  | 50.2  | 31.3  | 25.1  | 20.1  | 16.3  | 13.8  | 12.5  | 11.3  | 11.3  |
| 55°   | 1345.3 | 836.3  | 48.9  | 30.1  | 22.6  | 18.8  | 15.0  | 12.5  | 11.3  | 10.0  | 10.0  |
| 57.5° | 1418.0 | 858.9  | 47.6  | 28.8  | 21.3  | 16.3  | 13.8  | 11.3  | 10.0  | 8.8   | 8.8   |
| 60°   | 1535.9 | 932.8  | 46.4  | 27.6  | 20.1  | 16.3  | 12.5  | 10.0  | 7.5   | 6.3   | 6.3   |
| 62.5° | 1633.7 | 994.3  | 41.4  | 23.8  | 17.6  | 13.8  | 10.0  | 7.5   | 5.0   | 3.8   | 3.8   |
| 65°   | 1745.3 | 1023.1 | 36.4  | 21.3  | 15.0  | 11.3  | 7.5   | 5.0   | 3.8   | 1.3   | 1.3   |
| 67.5° | 1866.9 | 1067.0 | 30.1  | 18.8  | 13.8  | 8.8   | 6.3   | 3.8   | 1.3   | 0.0   | 0.0   |
| 70°   | 1803.0 | 1011.8 | 25.1  | 16.3  | 12.5  | 7.5   | 5.0   | 2.5   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1413.0 | 724.7  | 20.1  | 15.0  | 11.3  | 7.5   | 5.0   | 1.3   | 0.0   | 0.0   | 0.0   |
| 75°   | 944.1  | 410.0  | 17.6  | 12.5  | 8.8   | 6.3   | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   |
| 77.5° | 512.8  | 184.3  | 15.0  | 11.3  | 7.5   | 5.0   | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   |
| 80°   | 166.8  | 72.7   | 12.5  | 10.0  | 7.5   | 5.0   | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   |
| 82.5° | 45.1   | 22.6   | 12.5  | 10.0  | 7.5   | 5.0   | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   |
| 85°   | 18.8   | 15.0   | 12.5  | 10.0  | 7.5   | 5.0   | 3.8   | 1.3   | 0.0   | 0.0   | 0.0   |
| 87.5° | 7.5    | 5.0    | 5.0   | 6.3   | 5.0   | 3.8   | 2.5   | 1.3   | 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   |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°  | 195°  | 205°  | 215°  | 225°  | 235°  | 245°  | 255°  | 265°   | 270°   | 275°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 0°    | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 | 382.4 | 382.4  | 382.4  | 382.4  |
| 2.5°  | 349.8 | 352.3 | 353.6 | 353.6 | 359.8 | 366.1 | 373.6 | 379.9 | 379.9  | 383.7  | 387.4  |
| 5°    | 307.2 | 309.7 | 313.5 | 324.7 | 337.3 | 351.1 | 364.9 | 374.9 | 388.7  | 394.9  | 398.7  |
| 7.5°  | 272.1 | 274.6 | 284.6 | 295.9 | 313.5 | 337.3 | 361.1 | 383.7 | 397.5  | 403.7  | 408.7  |
| 10°   | 235.7 | 239.5 | 250.8 | 270.8 | 293.4 | 322.2 | 349.8 | 388.7 | 411.2  | 423.8  | 428.8  |
| 12.5° | 183.1 | 193.1 | 208.1 | 229.4 | 258.3 | 302.2 | 353.6 | 393.7 | 432.6  | 447.6  | 457.6  |
| 15°   | 115.3 | 124.1 | 147.9 | 181.8 | 220.7 | 272.1 | 343.5 | 401.2 | 455.1  | 470.2  | 486.5  |
| 17.5° | 74.0  | 75.2  | 82.8  | 119.1 | 169.3 | 234.5 | 328.5 | 412.5 | 480.2  | 501.5  | 526.6  |
| 20°   | 62.7  | 65.2  | 66.5  | 71.5  | 112.8 | 193.1 | 297.2 | 426.3 | 510.3  | 539.1  | 563.0  |
| 22.5° | 52.7  | 53.9  | 56.4  | 60.2  | 67.7  | 140.4 | 254.5 | 426.3 | 536.6  | 579.3  | 606.8  |
| 25°   | 42.6  | 45.1  | 47.6  | 51.4  | 58.9  | 87.8  | 210.6 | 418.8 | 568.0  | 620.6  | 655.7  |
| 27.5° | 37.6  | 37.6  | 40.1  | 43.9  | 50.2  | 61.4  | 166.8 | 396.2 | 591.8  | 645.7  | 692.1  |
| 30°   | 32.6  | 33.9  | 35.1  | 38.9  | 45.1  | 53.9  | 115.3 | 359.8 | 616.9  | 694.6  | 747.3  |
| 32.5° | 28.8  | 28.8  | 31.3  | 33.9  | 40.1  | 48.9  | 74.0  | 304.7 | 649.5  | 732.2  | 806.2  |
| 35°   | 26.3  | 26.3  | 27.6  | 30.1  | 36.4  | 43.9  | 57.7  | 258.3 | 688.3  | 803.7  | 885.2  |
| 37.5° | 23.8  | 23.8  | 25.1  | 27.6  | 32.6  | 38.9  | 52.7  | 221.9 | 728.5  | 875.2  | 994.3  |
| 40°   | 21.3  | 21.3  | 22.6  | 25.1  | 28.8  | 35.1  | 47.6  | 179.3 | 778.6  | 980.5  | 1113.4 |
| 42.5° | 18.8  | 18.8  | 20.1  | 22.6  | 26.3  | 31.3  | 41.4  | 134.2 | 845.1  | 1094.6 | 1267.6 |
| 45°   | 16.3  | 16.3  | 17.6  | 20.1  | 22.6  | 28.8  | 37.6  | 102.8 | 917.8  | 1221.2 | 1403.0 |
| 47.5° | 13.8  | 15.0  | 16.3  | 18.8  | 21.3  | 26.3  | 33.9  | 90.3  | 989.2  | 1355.4 | 1553.5 |
| 50°   | 12.5  | 12.5  | 13.8  | 16.3  | 20.1  | 23.8  | 31.3  | 89.0  | 1062.0 | 1458.2 | 1707.7 |
| 52.5° | 11.3  | 11.3  | 12.5  | 15.0  | 18.8  | 22.6  | 30.1  | 91.5  | 1122.2 | 1553.5 | 1815.5 |
| 55°   | 10.0  | 10.0  | 11.3  | 12.5  | 16.3  | 21.3  | 27.6  | 94.0  | 1164.8 | 1650.0 | 1902.0 |
| 57.5° | 8.8   | 8.8   | 10.0  | 12.5  | 15.0  | 18.8  | 25.1  | 96.5  | 1233.7 | 1745.3 | 2027.4 |
| 60°   | 6.3   | 6.3   | 8.8   | 11.3  | 13.8  | 16.3  | 23.8  | 99.1  | 1344.1 | 1876.9 | 2134.0 |
| 62.5° | 3.8   | 3.8   | 5.0   | 8.8   | 11.3  | 15.0  | 21.3  | 94.0  | 1446.9 | 2046.2 | 2297.0 |
| 65°   | 1.3   | 2.5   | 3.8   | 5.0   | 8.8   | 12.5  | 17.6  | 85.3  | 1533.4 | 2215.5 | 2447.4 |
| 67.5° | 0.0   | 0.0   | 1.3   | 3.8   | 7.5   | 10.0  | 15.0  | 62.7  | 1547.2 | 2291.9 | 2601.6 |
| 70°   | 0.0   | 0.0   | 1.3   | 3.8   | 6.3   | 10.0  | 13.8  | 35.1  | 1317.7 | 2047.5 | 2384.7 |
| 72.5° | 0.0   | 0.0   | 0.0   | 2.5   | 6.3   | 8.8   | 12.5  | 26.3  | 971.7  | 1543.4 | 1884.5 |
| 75°   | 0.0   | 0.0   | 0.0   | 1.3   | 5.0   | 7.5   | 11.3  | 20.1  | 590.5  | 1029.4 | 1230.0 |
| 77.5° | 0.0   | 0.0   | 0.0   | 1.3   | 3.8   | 7.5   | 11.3  | 17.6  | 208.1  | 490.2  | 578.0  |
| 80°   | 0.0   | 0.0   | 0.0   | 2.5   | 5.0   | 7.5   | 10.0  | 15.0  | 50.2   | 122.9  | 165.5  |
| 82.5° | 0.0   | 0.0   | 0.0   | 1.3   | 3.8   | 6.3   | 8.8   | 12.5  | 20.1   | 36.4   | 57.7   |
| 85°   | 0.0   | 0.0   | 0.0   | 1.3   | 2.5   | 6.3   | 8.8   | 11.3  | 13.8   | 17.6   | 25.1   |
| 87.5° | 0.0   | 0.0   | 0.0   | 0.0   | 1.3   | 2.5   | 3.8   | 5.0   | 5.0    | 5.0    | 8.8    |
| 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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|       | 276°   | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  | 382.4  |
| 2.5°  | 386.2  | 391.2  | 393.7  | 398.7  | 401.2  | 400.0  | 398.7  | 402.5  | 400.0  | 396.2  |
| 5°    | 400.0  | 400.0  | 403.7  | 405.0  | 405.0  | 401.2  | 403.7  | 402.5  | 400.0  | 400.0  |
| 7.5°  | 415.0  | 421.3  | 421.3  | 413.8  | 412.5  | 410.0  | 410.0  | 400.0  | 396.2  | 400.0  |
| 10°   | 430.1  | 435.1  | 436.3  | 427.5  | 416.3  | 411.2  | 405.0  | 392.4  | 386.2  | 388.7  |
| 12.5° | 461.4  | 461.4  | 447.6  | 437.6  | 422.5  | 405.0  | 389.9  | 372.4  | 363.6  | 366.1  |
| 15°   | 484.0  | 489.0  | 470.2  | 447.6  | 421.3  | 388.7  | 372.4  | 358.6  | 353.6  | 349.8  |
| 17.5° | 527.9  | 517.8  | 487.7  | 455.1  | 417.5  | 383.7  | 372.4  | 359.8  | 356.1  | 356.1  |
| 20°   | 565.5  | 560.4  | 515.3  | 456.4  | 416.3  | 393.7  | 386.2  | 379.9  | 378.6  | 374.9  |
| 22.5° | 616.9  | 594.3  | 536.6  | 470.2  | 430.1  | 410.0  | 407.5  | 413.8  | 410.0  | 407.5  |
| 25°   | 655.7  | 636.9  | 552.9  | 490.2  | 451.4  | 445.1  | 448.9  | 455.1  | 445.1  | 441.3  |
| 27.5° | 708.4  | 673.3  | 584.3  | 516.6  | 480.2  | 486.5  | 499.0  | 500.3  | 494.0  | 497.8  |
| 30°   | 757.3  | 719.7  | 608.1  | 546.7  | 529.1  | 535.4  | 554.2  | 568.0  | 559.2  | 554.2  |
| 32.5° | 827.5  | 769.8  | 655.7  | 596.8  | 590.5  | 606.8  | 628.2  | 636.9  | 625.6  | 623.1  |
| 35°   | 901.5  | 827.5  | 704.6  | 653.2  | 664.5  | 687.1  | 705.9  | 720.9  | 703.4  | 710.9  |
| 37.5° | 1016.8 | 920.3  | 787.4  | 742.3  | 747.3  | 756.0  | 791.1  | 832.5  | 841.3  | 826.3  |
| 40°   | 1137.2 | 1020.6 | 863.9  | 828.8  | 840.0  | 863.9  | 905.2  | 944.1  | 964.2  | 944.1  |
| 42.5° | 1276.4 | 1117.1 | 981.7  | 940.4  | 951.6  | 985.5  | 1040.7 | 1072.0 | 1069.5 | 1039.4 |
| 45°   | 1448.1 | 1251.3 | 1092.1 | 1040.7 | 1082.0 | 1112.1 | 1167.3 | 1171.0 | 1147.2 | 1139.7 |
| 47.5° | 1579.8 | 1364.1 | 1211.2 | 1178.6 | 1235.0 | 1236.2 | 1248.8 | 1250.0 | 1223.7 | 1214.9 |
| 50°   | 1725.2 | 1494.5 | 1344.1 | 1296.4 | 1391.7 | 1347.8 | 1314.0 | 1291.4 | 1251.3 | 1232.5 |
| 52.5° | 1868.2 | 1587.3 | 1466.9 | 1418.0 | 1517.1 | 1400.5 | 1339.1 | 1270.1 | 1211.2 | 1191.1 |
| 55°   | 1944.6 | 1740.3 | 1646.2 | 1532.1 | 1544.7 | 1415.5 | 1261.3 | 1174.8 | 1074.5 | 1069.5 |
| 57.5° | 2034.9 | 1843.1 | 1798.0 | 1609.9 | 1498.3 | 1310.2 | 1099.6 | 985.5  | 877.7  | 865.1  |
| 60°   | 2141.5 | 2006.1 | 1958.4 | 1597.3 | 1334.0 | 1100.8 | 871.4  | 724.7  | 623.1  | 614.4  |
| 62.5° | 2260.6 | 2199.2 | 2057.5 | 1474.5 | 1059.5 | 774.8  | 575.5  | 452.6  | 358.6  | 353.6  |
| 65°   | 2448.7 | 2360.9 | 2110.1 | 1241.3 | 700.9  | 496.5  | 382.4  | 293.4  | 237.0  | 234.5  |
| 67.5° | 2566.5 | 2422.3 | 1992.3 | 885.2  | 388.7  | 328.5  | 268.3  | 213.1  | 164.2  | 154.2  |
| 70°   | 2399.8 | 2223.0 | 1576.0 | 506.5  | 225.7  | 249.5  | 206.9  | 142.9  | 112.8  | 110.3  |
| 72.5° | 1917.1 | 1650.0 | 1060.7 | 238.2  | 140.4  | 195.6  | 150.5  | 96.5   | 67.7   | 65.2   |
| 75°   | 1307.7 | 1038.1 | 665.8  | 110.3  | 99.1   | 142.9  | 110.3  | 56.4   | 47.6   | 47.6   |
| 77.5° | 584.3  | 529.1  | 341.0  | 67.7   | 74.0   | 109.1  | 63.9   | 38.9   | 35.1   | 33.9   |
| 80°   | 178.0  | 186.8  | 139.2  | 46.4   | 55.2   | 82.8   | 38.9   | 26.3   | 21.3   | 20.1   |
| 82.5° | 60.2   | 70.2   | 62.7   | 27.6   | 37.6   | 58.9   | 26.3   | 17.6   | 15.0   | 15.0   |
| 85°   | 28.8   | 35.1   | 31.3   | 17.6   | 20.1   | 28.8   | 21.3   | 13.8   | 8.8    | 8.8    |
| 87.5° | 11.3   | 16.3   | 11.3   | 7.5    | 11.3   | 15.0   | 8.8    | 6.3    | 2.5    | 2.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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