

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: P401637

Luminaire Tested: **ENT-SA1E-730-U-SLR-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401637  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-SA1E-730-U-SLR-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4817 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 57.2  
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

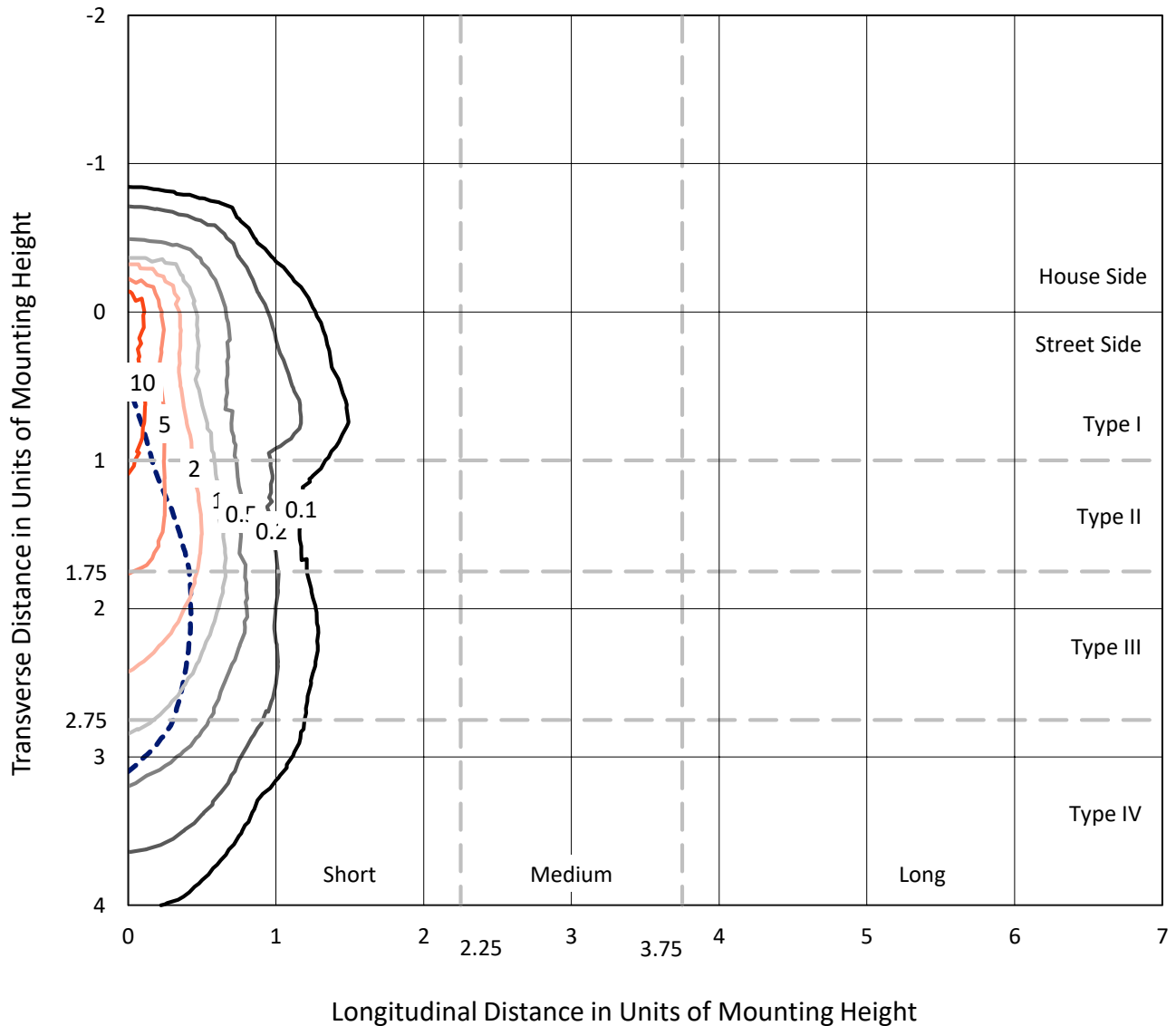


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

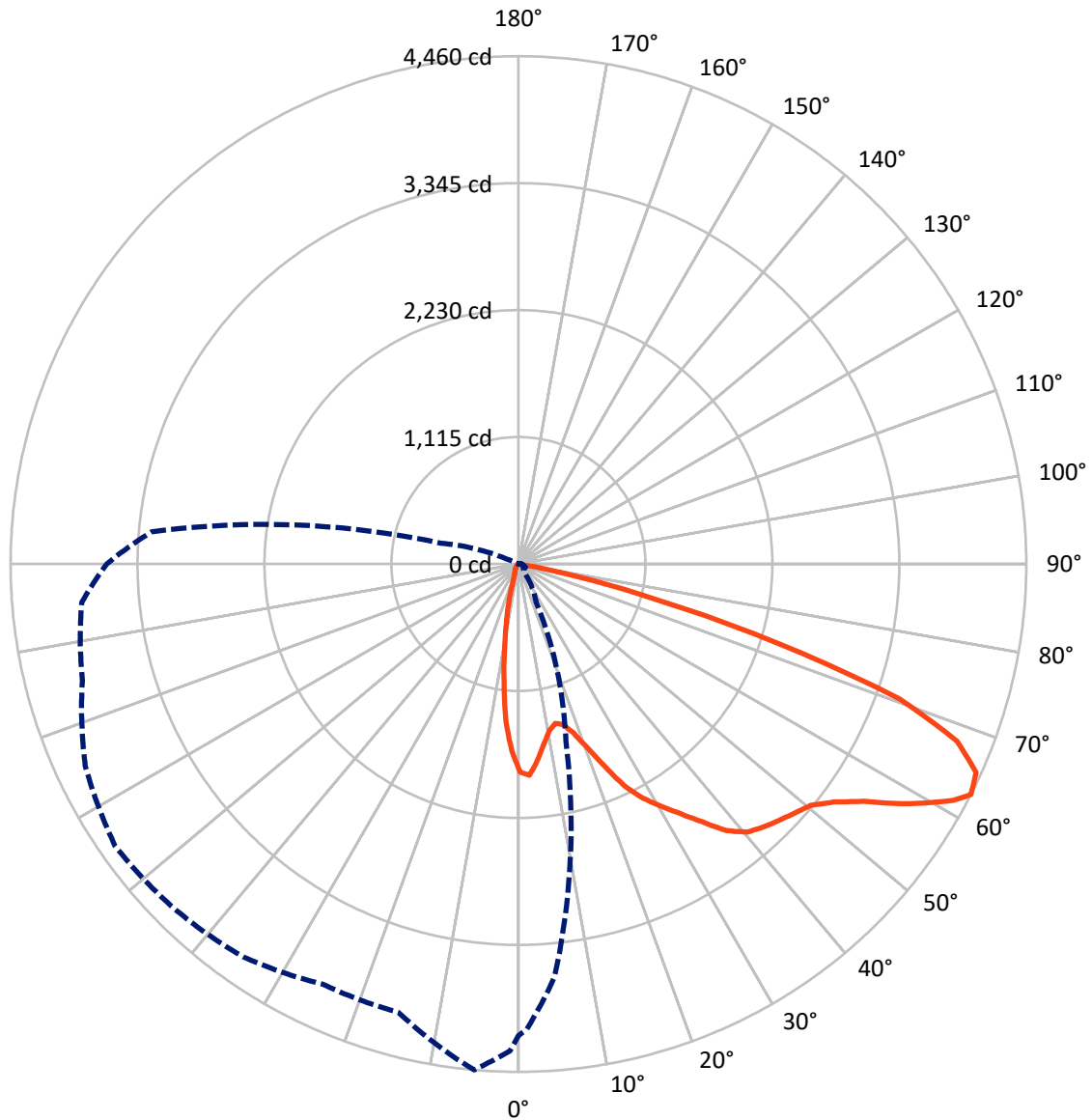


Based on 10 foot mounting height. Maximum calculated value = 18.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 677.6    | 0.0    | 677.6  |
|                    | % Fixture | 14.1     | 0.0    | 14.1   |
| <b>Street Side</b> | Lumens    | 4139.4   | 0.0    | 4139.4 |
|                    | % Fixture | 85.9     | 0.0    | 85.9   |
| <b>Total</b>       | Lumens    | 4817.0   | 0.0    | 4817.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 137.0  | 2.8       |
| 10°-20°   | 260.4  | 5.4       |
| 20°-30°   | 362.4  | 7.5       |
| 30°-40°   | 524.1  | 10.9      |
| 40°-50°   | 751.5  | 15.6      |
| 50°-60°   | 1090.3 | 22.6      |
| 60°-70°   | 1179.6 | 24.5      |
| 70°-80°   | 476.4  | 9.9       |
| 80°-90°   | 35.3   | 0.7       |
| 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°    | 4817.0 | 100.0     |
| 0°-180°   | 4817.0 | 100.0     |



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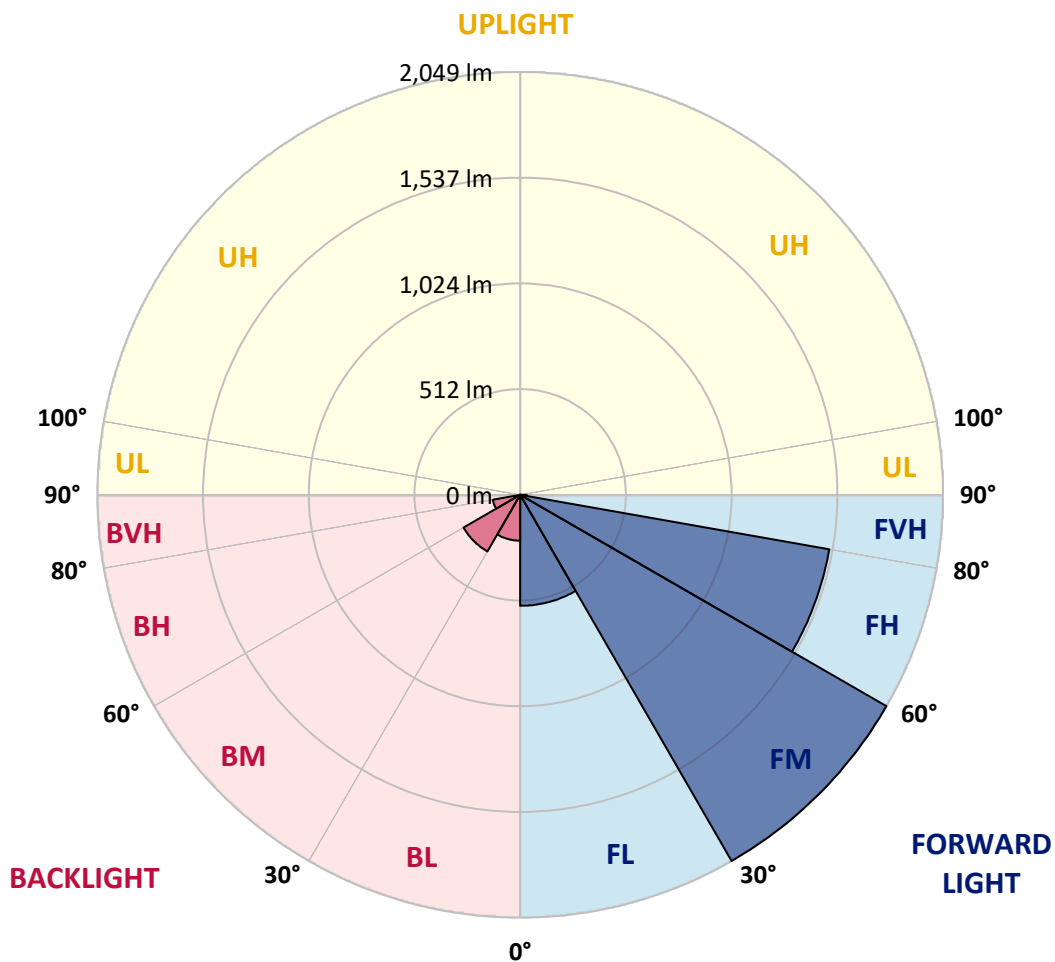
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 537.7  | 11.2      |                         |      |         |
| FM   | (30°-60°)   | 2048.8 | 42.5      |                         |      |         |
| FH   | (60°-80°)   | 1521.2 | 31.6      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 31.7   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 222.2  | 4.6       | B1/500                  |      |         |
| BM   | (30°-60°)   | 317.1  | 6.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 134.8  | 2.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 3.6    | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 |
| 2.5°  | 1834.8 | 1827.2 | 1810.0 | 1772.9 | 1719.5 | 1685.2 | 1663.2 | 1634.7 | 1605.1 | 1595.6 | 1576.5 |
| 5°    | 1674.7 | 1662.3 | 1638.5 | 1545.1 | 1461.2 | 1377.3 | 1317.3 | 1260.1 | 1241.0 | 1202.9 | 1225.8 |
| 7.5°  | 1520.3 | 1514.6 | 1459.3 | 1338.2 | 1204.8 | 1097.1 | 1028.4 | 944.6  | 919.8  | 880.7  | 849.3  |
| 10°   | 1399.2 | 1394.5 | 1327.7 | 1169.5 | 1025.6 | 936.0  | 881.7  | 827.3  | 773.0  | 717.7  | 673.9  |
| 12.5° | 1338.2 | 1327.7 | 1250.5 | 1079.9 | 946.5  | 872.1  | 814.9  | 742.5  | 684.4  | 610.0  | 556.6  |
| 15°   | 1347.8 | 1338.2 | 1249.6 | 1065.6 | 908.4  | 805.4  | 720.6  | 634.8  | 552.8  | 479.4  | 427.0  |
| 17.5° | 1424.0 | 1420.2 | 1312.5 | 1078.0 | 862.6  | 726.3  | 612.9  | 497.5  | 400.3  | 321.2  | 276.4  |
| 20°   | 1572.7 | 1561.3 | 1404.9 | 1104.7 | 814.9  | 634.8  | 479.4  | 337.4  | 256.4  | 202.1  | 183.0  |
| 22.5° | 1756.7 | 1730.9 | 1550.8 | 1143.8 | 769.2  | 536.6  | 346.9  | 226.8  | 183.0  | 162.0  | 148.7  |
| 25°   | 1973.0 | 1974.0 | 1731.9 | 1196.2 | 723.4  | 445.1  | 243.1  | 180.1  | 154.4  | 139.2  | 127.7  |
| 27.5° | 2148.4 | 2135.1 | 1894.9 | 1248.6 | 673.9  | 365.1  | 204.0  | 157.3  | 135.3  | 119.1  | 112.5  |
| 30°   | 2278.0 | 2258.0 | 2002.6 | 1284.8 | 610.0  | 308.8  | 183.0  | 149.6  | 127.7  | 109.6  | 101.0  |
| 32.5° | 2411.5 | 2386.7 | 2099.8 | 1304.9 | 571.9  | 282.1  | 162.0  | 130.6  | 114.4  | 106.8  | 95.3   |
| 35°   | 2567.8 | 2545.9 | 2207.5 | 1303.0 | 551.9  | 266.9  | 146.8  | 118.2  | 97.2   | 84.8   | 77.2   |
| 37.5° | 2742.2 | 2697.4 | 2319.0 | 1294.4 | 537.6  | 259.3  | 133.4  | 109.6  | 90.5   | 77.2   | 67.7   |
| 40°   | 2891.9 | 2847.1 | 2422.0 | 1282.9 | 528.0  | 251.6  | 125.8  | 103.9  | 85.8   | 71.5   | 62.0   |
| 42.5° | 3009.1 | 2966.2 | 2518.2 | 1268.6 | 523.3  | 235.4  | 129.6  | 100.1  | 82.0   | 67.7   | 57.2   |
| 45°   | 3110.1 | 3066.3 | 2632.6 | 1266.7 | 521.4  | 224.0  | 127.7  | 99.1   | 80.1   | 62.9   | 53.4   |
| 47.5° | 3227.4 | 3204.5 | 2783.2 | 1298.2 | 513.7  | 215.4  | 117.2  | 106.8  | 79.1   | 61.0   | 50.5   |
| 50°   | 3400.8 | 3380.8 | 2980.5 | 1391.6 | 502.3  | 206.8  | 106.8  | 117.2  | 79.1   | 59.1   | 47.7   |
| 52.5° | 3643.9 | 3621.0 | 3291.2 | 1513.6 | 491.8  | 197.3  | 96.3   | 113.4  | 80.1   | 56.2   | 45.8   |
| 55°   | 3895.5 | 3891.7 | 3584.8 | 1643.2 | 482.3  | 176.3  | 84.8   | 102.0  | 78.2   | 52.4   | 42.9   |
| 57.5° | 4092.8 | 4090.0 | 3805.0 | 1730.9 | 464.2  | 142.0  | 77.2   | 84.8   | 72.4   | 47.7   | 39.1   |
| 60°   | 4173.8 | 4150.0 | 3828.8 | 1730.9 | 422.2  | 117.2  | 70.5   | 66.7   | 73.4   | 42.9   | 34.3   |
| 61°   | 4173.8 | 4143.3 | 3785.9 | 1705.2 | 401.3  | 111.5  | 66.7   | 62.0   | 75.3   | 41.0   | 32.4   |
| 62.5° | 4141.4 | 4090.9 | 3639.1 | 1612.7 | 367.9  | 111.5  | 61.0   | 55.3   | 68.6   | 39.1   | 29.5   |
| 65°   | 3997.5 | 3914.6 | 3295.0 | 1402.1 | 333.6  | 114.4  | 52.4   | 46.7   | 49.6   | 33.4   | 25.7   |
| 67.5° | 3642.0 | 3548.6 | 2849.0 | 1109.5 | 306.0  | 121.1  | 43.8   | 41.0   | 38.1   | 29.5   | 22.9   |
| 70°   | 3000.5 | 2921.4 | 2324.7 | 831.1  | 284.0  | 123.0  | 38.1   | 34.3   | 32.4   | 25.7   | 20.0   |
| 72.5° | 1917.7 | 1787.2 | 1451.6 | 563.3  | 227.8  | 106.8  | 31.5   | 32.4   | 29.5   | 21.0   | 16.2   |
| 75°   | 926.5  | 962.7  | 844.5  | 284.0  | 153.5  | 69.6   | 24.8   | 26.7   | 23.8   | 19.1   | 14.3   |
| 77.5° | 414.6  | 407.0  | 403.2  | 72.4   | 39.1   | 23.8   | 15.3   | 18.1   | 19.1   | 17.2   | 12.4   |
| 80°   | 42.9   | 58.1   | 34.3   | 21.9   | 14.3   | 10.5   | 8.6    | 9.5    | 11.4   | 12.4   | 6.7    |
| 82.5° | 1.9    | 1.0    | 1.0    | 2.9    | 2.9    | 1.9    | 0.0    | 0.0    | 1.9    | 1.9    | 1.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 |
| 2.5°  | 1559.4 | 1585.1 | 1573.7 | 1570.8 | 1586.0 | 1578.4 | 1601.3 | 1602.2 | 1619.4 | 1642.3 | 1656.6 |
| 5°    | 1225.8 | 1205.7 | 1245.8 | 1272.5 | 1305.8 | 1295.3 | 1335.4 | 1330.6 | 1352.5 | 1388.7 | 1374.4 |
| 7.5°  | 851.2  | 854.0  | 875.0  | 898.8  | 988.4  | 1006.5 | 1019.9 | 1030.4 | 1029.4 | 1038.0 | 1053.2 |
| 10°   | 651.0  | 634.8  | 620.5  | 653.9  | 689.1  | 728.2  | 733.9  | 748.2  | 709.1  | 725.3  | 733.0  |
| 12.5° | 532.8  | 513.7  | 482.3  | 465.1  | 473.7  | 496.6  | 506.1  | 514.7  | 491.8  | 492.8  | 509.9  |
| 15°   | 404.1  | 378.4  | 366.0  | 343.1  | 334.6  | 332.6  | 337.4  | 325.0  | 322.2  | 311.7  | 318.4  |
| 17.5° | 263.1  | 255.4  | 248.8  | 244.0  | 237.3  | 235.4  | 218.3  | 188.7  | 171.6  | 167.8  | 167.8  |
| 20°   | 175.4  | 169.7  | 169.7  | 179.2  | 176.3  | 168.7  | 145.8  | 121.1  | 108.7  | 104.8  | 106.8  |
| 22.5° | 143.9  | 140.1  | 134.4  | 134.4  | 138.2  | 132.5  | 111.5  | 93.4   | 84.8   | 84.8   | 84.8   |
| 25°   | 124.9  | 123.0  | 117.2  | 111.5  | 113.4  | 108.7  | 90.5   | 79.1   | 73.4   | 72.4   | 73.4   |
| 27.5° | 109.6  | 108.7  | 102.0  | 96.3   | 96.3   | 92.5   | 78.2   | 67.7   | 63.9   | 62.0   | 62.9   |
| 30°   | 99.1   | 97.2   | 89.6   | 84.8   | 83.9   | 80.1   | 66.7   | 59.1   | 55.3   | 54.3   | 54.3   |
| 32.5° | 91.5   | 87.7   | 81.0   | 76.3   | 73.4   | 67.7   | 58.1   | 50.5   | 46.7   | 45.8   | 45.8   |
| 35°   | 73.4   | 73.4   | 70.5   | 67.7   | 63.9   | 55.3   | 48.6   | 41.9   | 38.1   | 37.2   | 37.2   |
| 37.5° | 63.9   | 60.0   | 55.3   | 56.2   | 54.3   | 46.7   | 40.0   | 33.4   | 30.5   | 29.5   | 29.5   |
| 40°   | 58.1   | 53.4   | 46.7   | 43.8   | 44.8   | 41.0   | 33.4   | 25.7   | 21.9   | 22.9   | 21.9   |
| 42.5° | 52.4   | 48.6   | 41.0   | 34.3   | 33.4   | 34.3   | 25.7   | 18.1   | 15.3   | 15.3   | 15.3   |
| 45°   | 48.6   | 44.8   | 36.2   | 28.6   | 23.8   | 26.7   | 20.0   | 12.4   | 9.5    | 9.5    | 9.5    |
| 47.5° | 45.8   | 41.9   | 32.4   | 23.8   | 17.2   | 18.1   | 14.3   | 7.6    | 5.7    | 3.8    | 4.8    |
| 50°   | 43.8   | 39.1   | 29.5   | 19.1   | 12.4   | 10.5   | 9.5    | 3.8    | 1.0    | 1.0    | 0.0    |
| 52.5° | 41.0   | 37.2   | 26.7   | 16.2   | 9.5    | 6.7    | 4.8    | 1.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 39.1   | 34.3   | 23.8   | 14.3   | 7.6    | 3.8    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 35.3   | 31.5   | 21.0   | 11.4   | 5.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 31.5   | 28.6   | 18.1   | 8.6    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 61°   | 29.5   | 26.7   | 17.2   | 7.6    | 2.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 27.6   | 24.8   | 15.3   | 5.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 23.8   | 21.0   | 13.3   | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 21.0   | 19.1   | 11.4   | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 18.1   | 16.2   | 8.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 15.3   | 14.3   | 6.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 13.3   | 11.4   | 5.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 10.5   | 9.5    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 5.7    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 |
| 2.5°  | 1669.9 | 1703.3 | 1734.7 | 1774.8 | 1796.7 | 1856.7 | 1899.6 | 1935.8 | 1964.4 | 1970.2 | 1993.0 |
| 5°    | 1412.6 | 1459.3 | 1489.8 | 1573.7 | 1620.4 | 1720.4 | 1797.6 | 1889.1 | 1971.1 | 2015.9 | 2056.9 |
| 7.5°  | 1063.7 | 1086.6 | 1139.0 | 1222.9 | 1333.5 | 1420.2 | 1550.8 | 1666.1 | 1813.8 | 1894.9 | 1971.1 |
| 10°   | 751.1  | 772.1  | 849.3  | 936.9  | 1038.0 | 1183.8 | 1342.0 | 1493.6 | 1643.2 | 1747.1 | 1836.7 |
| 12.5° | 528.0  | 596.7  | 672.9  | 784.4  | 883.6  | 990.3  | 1159.0 | 1336.3 | 1523.1 | 1622.3 | 1719.5 |
| 15°   | 346.9  | 407.9  | 513.7  | 653.9  | 777.8  | 881.7  | 1038.9 | 1246.7 | 1484.1 | 1594.6 | 1687.1 |
| 17.5° | 171.6  | 216.4  | 309.8  | 460.4  | 625.3  | 789.2  | 978.9  | 1230.5 | 1534.6 | 1659.4 | 1746.2 |
| 20°   | 107.7  | 121.1  | 155.4  | 260.2  | 449.9  | 692.0  | 934.1  | 1262.9 | 1671.8 | 1810.0 | 1866.3 |
| 22.5° | 86.7   | 90.5   | 103.9  | 138.2  | 274.5  | 571.9  | 895.0  | 1306.8 | 1822.4 | 1991.1 | 2049.3 |
| 25°   | 74.3   | 77.2   | 84.8   | 102.0  | 159.2  | 428.9  | 847.4  | 1384.0 | 1997.8 | 2201.8 | 2216.1 |
| 27.5° | 63.9   | 66.7   | 73.4   | 86.7   | 113.4  | 288.8  | 778.7  | 1474.5 | 2207.5 | 2386.7 | 2377.2 |
| 30°   | 54.3   | 58.1   | 64.8   | 74.3   | 89.6   | 195.4  | 651.0  | 1566.0 | 2361.9 | 2505.8 | 2490.6 |
| 32.5° | 46.7   | 49.6   | 55.3   | 63.9   | 74.3   | 134.4  | 489.0  | 1626.1 | 2490.6 | 2618.3 | 2584.9 |
| 35°   | 38.1   | 41.0   | 45.8   | 53.4   | 60.0   | 95.3   | 369.8  | 1628.0 | 2623.1 | 2757.5 | 2673.6 |
| 37.5° | 30.5   | 32.4   | 37.2   | 43.8   | 49.6   | 74.3   | 271.6  | 1596.5 | 2787.0 | 2938.6 | 2774.6 |
| 40°   | 22.9   | 25.7   | 30.5   | 36.2   | 41.9   | 62.9   | 203.0  | 1520.3 | 2947.1 | 3119.7 | 2896.6 |
| 42.5° | 15.3   | 19.1   | 23.8   | 29.5   | 40.0   | 50.5   | 143.0  | 1393.5 | 3076.8 | 3280.7 | 3015.8 |
| 45°   | 9.5    | 12.4   | 18.1   | 24.8   | 41.0   | 40.0   | 95.3   | 1242.0 | 3169.2 | 3403.7 | 3096.8 |
| 47.5° | 4.8    | 7.6    | 13.3   | 23.8   | 36.2   | 29.5   | 59.1   | 1097.1 | 3253.1 | 3475.2 | 3134.0 |
| 50°   | 1.0    | 2.9    | 9.5    | 29.5   | 30.5   | 21.9   | 39.1   | 1006.5 | 3296.9 | 3457.1 | 3130.1 |
| 52.5° | 0.0    | 0.0    | 6.7    | 28.6   | 21.9   | 17.2   | 30.5   | 993.2  | 3365.6 | 3480.9 | 3195.9 |
| 55°   | 0.0    | 0.0    | 2.9    | 12.4   | 12.4   | 14.3   | 26.7   | 975.1  | 3487.6 | 3622.9 | 3394.2 |
| 57.5° | 0.0    | 0.0    | 0.0    | 5.7    | 7.6    | 11.4   | 24.8   | 927.4  | 3616.3 | 3773.5 | 3635.3 |
| 60°   | 0.0    | 0.0    | 0.0    | 2.9    | 4.8    | 9.5    | 21.9   | 818.8  | 3498.1 | 3774.5 | 3835.5 |
| 61°   | 0.0    | 0.0    | 0.0    | 2.9    | 3.8    | 8.6    | 20.0   | 780.6  | 3392.3 | 3713.5 | 3860.3 |
| 62.5° | 0.0    | 0.0    | 0.0    | 1.0    | 2.9    | 6.7    | 17.2   | 705.3  | 3234.0 | 3615.3 | 3848.8 |
| 65°   | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 3.8    | 13.3   | 570.0  | 2970.0 | 3368.4 | 3717.3 |
| 67.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 8.6    | 401.3  | 2590.7 | 3089.2 | 3436.1 |
| 70°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 3.8    | 232.6  | 2087.4 | 2615.4 | 2943.3 |
| 72.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.9    | 105.8  | 1354.4 | 2019.7 | 2321.9 |
| 75°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 44.8   | 834.0  | 1459.3 | 1734.7 |
| 77.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 20.0   | 565.2  | 971.3  | 1167.6 |
| 80°   | 0.0    | 1.9    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 7.6    | 347.9  | 606.2  | 658.6  |
| 82.5° | 0.0    | 1.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 180.1  | 428.0  | 436.5  |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 75.3   | 90.5   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 | 1827.2 |
| 2.5°  | 2014.0 | 2019.7 | 2023.5 | 2016.9 | 1975.9 | 1953.0 | 1907.3 | 1856.7 | 1839.6 | 1834.8 |
| 5°    | 2131.2 | 2163.7 | 2157.9 | 2114.1 | 2042.6 | 1954.9 | 1846.3 | 1733.8 | 1690.9 | 1674.7 |
| 7.5°  | 2108.4 | 2193.2 | 2209.4 | 2163.7 | 2042.6 | 1889.1 | 1731.9 | 1598.4 | 1536.5 | 1520.3 |
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| 15°   | 1804.3 | 1868.2 | 1866.3 | 1887.2 | 1882.5 | 1797.6 | 1637.5 | 1462.1 | 1383.0 | 1347.8 |
| 17.5° | 1779.5 | 1760.5 | 1735.7 | 1752.8 | 1786.2 | 1801.5 | 1721.4 | 1557.4 | 1465.0 | 1424.0 |
| 20°   | 1794.8 | 1701.4 | 1647.0 | 1646.1 | 1716.6 | 1832.9 | 1844.3 | 1714.7 | 1628.0 | 1572.7 |
| 22.5° | 1872.9 | 1671.8 | 1587.9 | 1589.9 | 1676.6 | 1879.6 | 1986.4 | 1920.6 | 1825.3 | 1756.7 |
| 25°   | 1988.3 | 1677.5 | 1565.1 | 1576.5 | 1672.8 | 1920.6 | 2139.8 | 2155.1 | 2033.1 | 1973.0 |
| 27.5° | 2105.5 | 1727.1 | 1566.0 | 1578.4 | 1689.0 | 1942.5 | 2227.5 | 2327.6 | 2222.7 | 2148.4 |
| 30°   | 2187.5 | 1788.1 | 1583.2 | 1596.5 | 1714.7 | 1959.7 | 2260.9 | 2469.6 | 2361.0 | 2278.0 |
| 32.5° | 2264.7 | 1851.0 | 1610.8 | 1624.2 | 1766.2 | 1994.9 | 2323.8 | 2612.6 | 2493.4 | 2411.5 |
| 35°   | 2340.0 | 1913.0 | 1662.3 | 1686.1 | 1849.1 | 2058.8 | 2387.6 | 2780.3 | 2681.2 | 2567.8 |
| 37.5° | 2404.8 | 1981.6 | 1750.9 | 1801.5 | 1961.6 | 2157.0 | 2474.4 | 2971.0 | 2869.0 | 2742.2 |
| 40°   | 2459.1 | 2062.6 | 1933.9 | 1990.2 | 2133.1 | 2260.9 | 2570.6 | 3095.8 | 3028.2 | 2891.9 |
| 42.5° | 2503.0 | 2205.6 | 2196.1 | 2275.2 | 2375.2 | 2380.0 | 2598.3 | 3155.9 | 3130.1 | 3009.1 |
| 45°   | 2576.4 | 2462.0 | 2540.1 | 2669.8 | 2663.1 | 2523.0 | 2590.7 | 3211.2 | 3213.1 | 3110.1 |
| 47.5° | 2696.5 | 2783.2 | 3009.1 | 3096.8 | 3052.0 | 2718.4 | 2598.3 | 3265.5 | 3308.4 | 3227.4 |
| 50°   | 2868.0 | 3147.3 | 3442.8 | 3559.1 | 3428.5 | 2914.7 | 2666.0 | 3330.3 | 3459.9 | 3400.8 |
| 52.5° | 3014.8 | 3422.8 | 3843.1 | 3947.0 | 3768.8 | 3124.4 | 2824.2 | 3470.4 | 3663.0 | 3643.9 |
| 55°   | 3224.5 | 3660.1 | 4128.1 | 4208.2 | 4065.2 | 3361.8 | 3036.7 | 3676.3 | 3886.0 | 3895.5 |
| 57.5° | 3439.0 | 3874.6 | 4314.0 | 4395.0 | 4286.3 | 3657.2 | 3338.9 | 3971.8 | 4095.7 | 4092.8 |
| 60°   | 3677.3 | 4074.7 | 4397.8 | 4442.6 | 4380.7 | 3952.7 | 3663.9 | 4242.5 | 4239.6 | 4173.8 |
| 61°   | 3813.6 | 4138.6 | 4392.1 | 4405.5 | 4345.4 | 4039.4 | 3831.7 | 4346.4 | 4260.6 | 4173.8 |
| 62.5° | 3964.2 | 4196.7 | 4321.6 | 4276.8 | 4212.0 | 4070.0 | 4074.7 | 4459.8 | 4274.9 | 4141.4 |
| 65°   | 4116.7 | 4050.9 | 3996.6 | 3782.1 | 3721.1 | 3789.7 | 4279.6 | 4416.9 | 4188.1 | 3997.5 |
| 67.5° | 3855.5 | 3471.4 | 3354.1 | 3138.7 | 2897.6 | 3177.8 | 4085.2 | 4154.8 | 3895.5 | 3642.0 |
| 70°   | 3151.1 | 2550.6 | 2411.5 | 2403.8 | 2230.4 | 2538.2 | 3602.9 | 3552.4 | 3233.1 | 3000.5 |
| 72.5° | 2469.6 | 1740.5 | 1550.8 | 1594.6 | 1560.3 | 1892.0 | 2947.1 | 2383.8 | 2073.1 | 1917.7 |
| 75°   | 1935.8 | 1237.2 | 1067.5 | 1059.9 | 1022.7 | 1288.7 | 2157.9 | 1256.3 | 1037.0 | 926.5  |
| 77.5° | 1277.2 | 891.2  | 888.3  | 820.7  | 792.1  | 698.7  | 968.4  | 503.3  | 410.8  | 414.6  |
| 80°   | 735.8  | 546.2  | 640.5  | 508.0  | 509.0  | 409.9  | 391.7  | 73.4   | 59.1   | 42.9   |
| 82.5° | 422.2  | 262.1  | 198.3  | 78.2   | 163.9  | 163.9  | 31.5   | 1.0    | 1.0    | 1.9    |
| 85°   | 41.0   | 12.4   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |

(END OF REPORT)