

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:

Luminaire Tested: **ENC-SA1F-740-U-SL4-HSS-ULG**

Issue Date: 3/30/2022

**Test Information**

Test Method: LM-79-08  
Report Number: REPORT IS A COMBINATION OF REPORTS P401854 AND P226775  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENC-SA1F-740-U-SL4-HSS-ULG  
Description: ENTRI LED LUMINAIRE WITH UPLIGHT  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

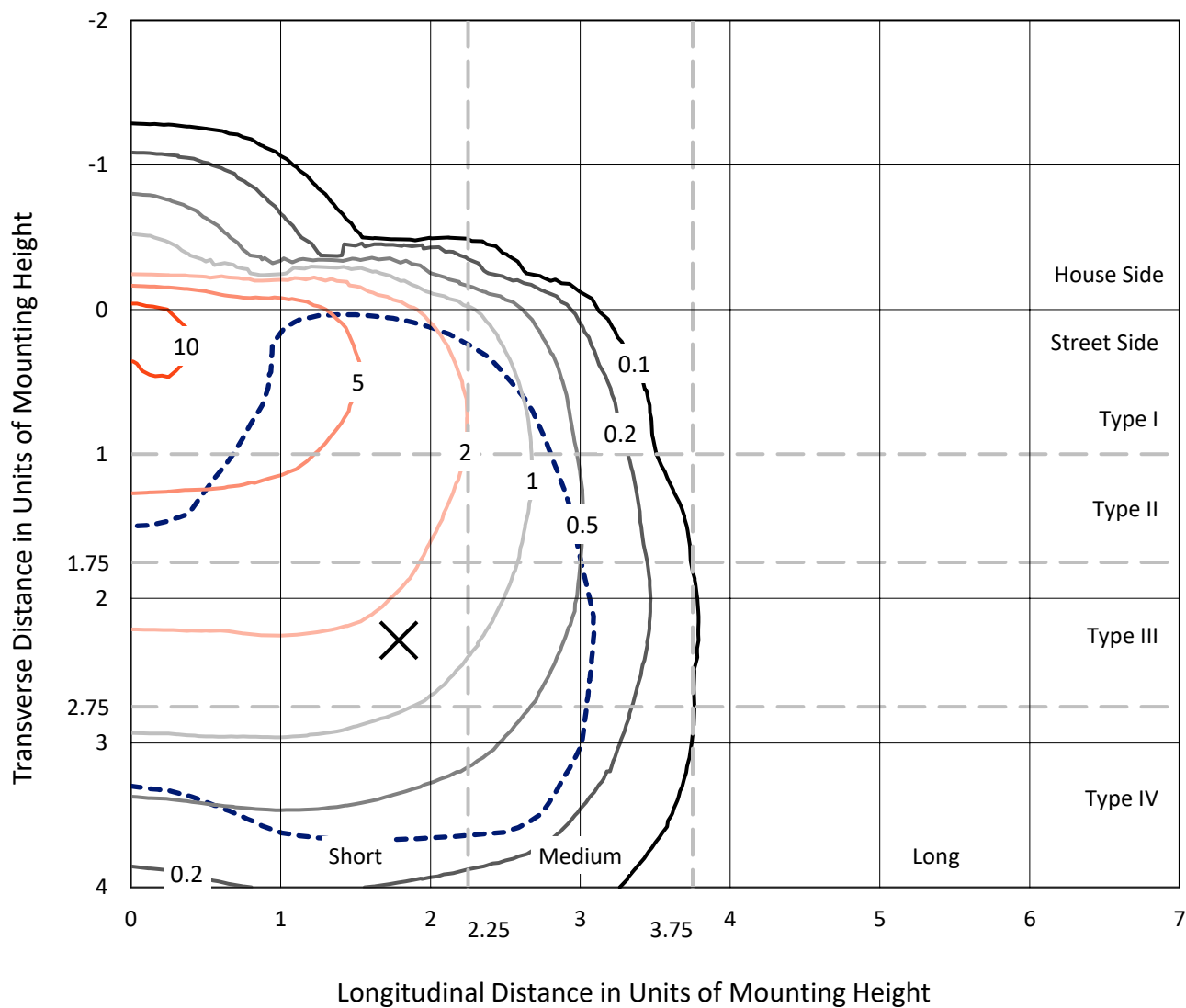
Lumens per Lamp: N/A  
Luminaire Lumens: 8162.9 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.1')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 82.8  
Input Voltage (V): NR  
Input Current (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: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

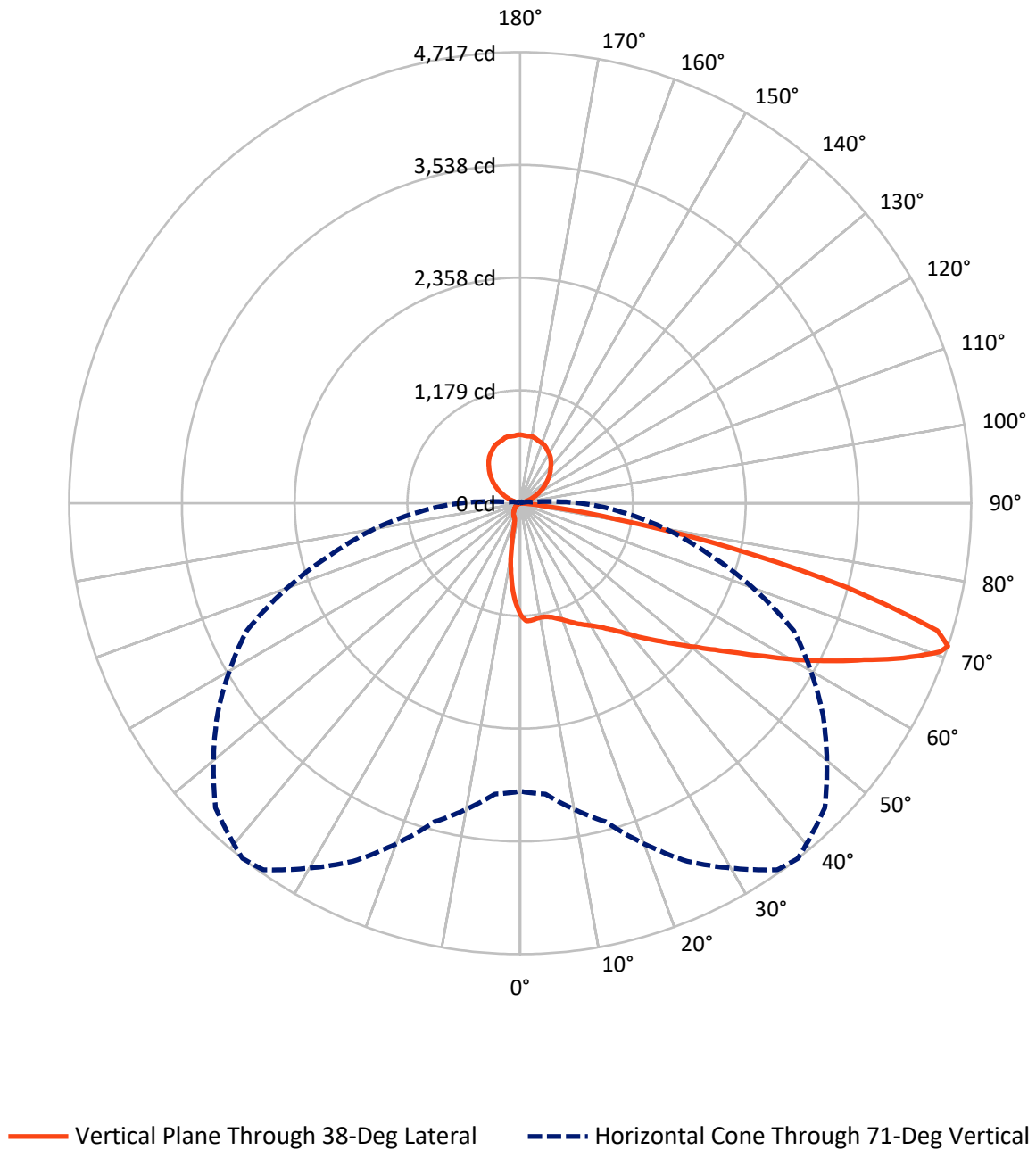


Based on 10 foot mounting height. Maximum calculated value = 12.1 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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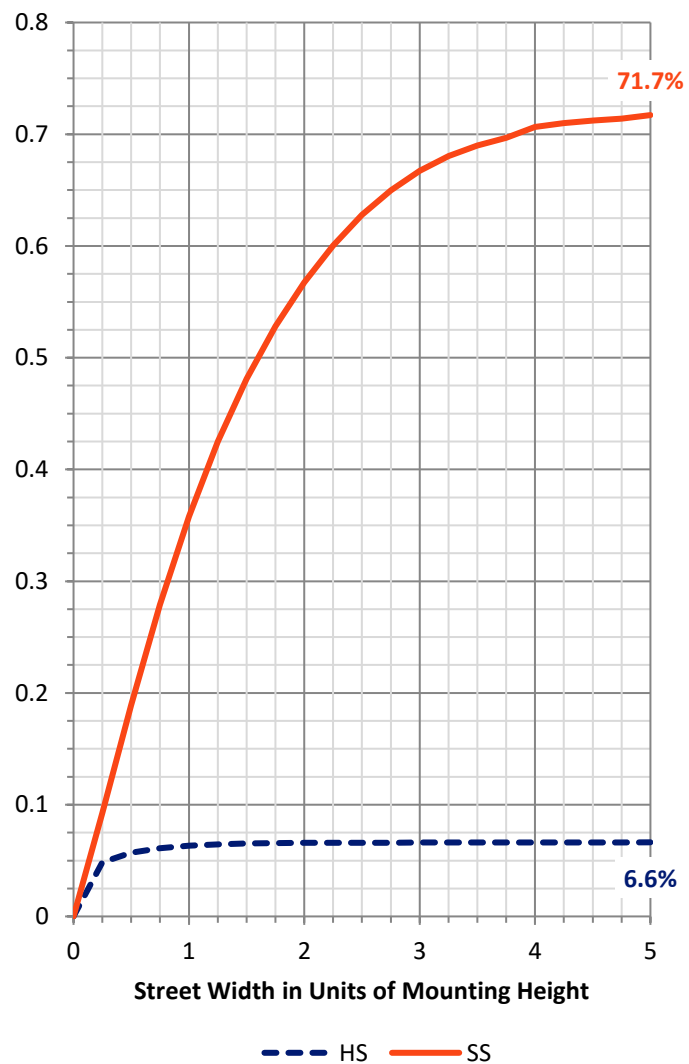
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 545.7    | 887.0  | 1432.7 |
|                    | % Fixture | 6.7      | 10.9   | 17.6   |
| <b>Street Side</b> | Lumens    | 5843.3   | 887.0  | 6730.2 |
|                    | % Fixture | 71.6     | 10.9   | 82.4   |
| <b>Total</b>       | Lumens    | 6389.0   | 1773.9 | 8162.9 |
|                    | % Fixture | 78.3     | 21.7   | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 99.5   | 1.2       |
| 10°-20°   | 240.9  | 3.0       |
| 20°-30°   | 386.2  | 4.7       |
| 30°-40°   | 587.6  | 7.2       |
| 40°-50°   | 915.7  | 11.2      |
| 50°-60°   | 1339.1 | 16.4      |
| 60°-70°   | 1717.5 | 21.0      |
| 70°-80°   | 1049.8 | 12.9      |
| 80°-90°   | 52.7   | 0.6       |
| 90°-100°  | 8.4    | 0.1       |
| 100°-110° | 58.7   | 0.7       |
| 110°-120° | 169.9  | 2.1       |
| 120°-130° | 279.4  | 3.4       |
| 130°-140° | 344.6  | 4.2       |
| 140°-150° | 352.5  | 4.3       |
| 150°-160° | 297.0  | 3.6       |
| 160°-170° | 195.5  | 2.4       |
| 170°-180° | 67.8   | 0.8       |
| 0°-90°    | 6389.0 | 78.3      |
| 0°-180°   | 8162.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER:

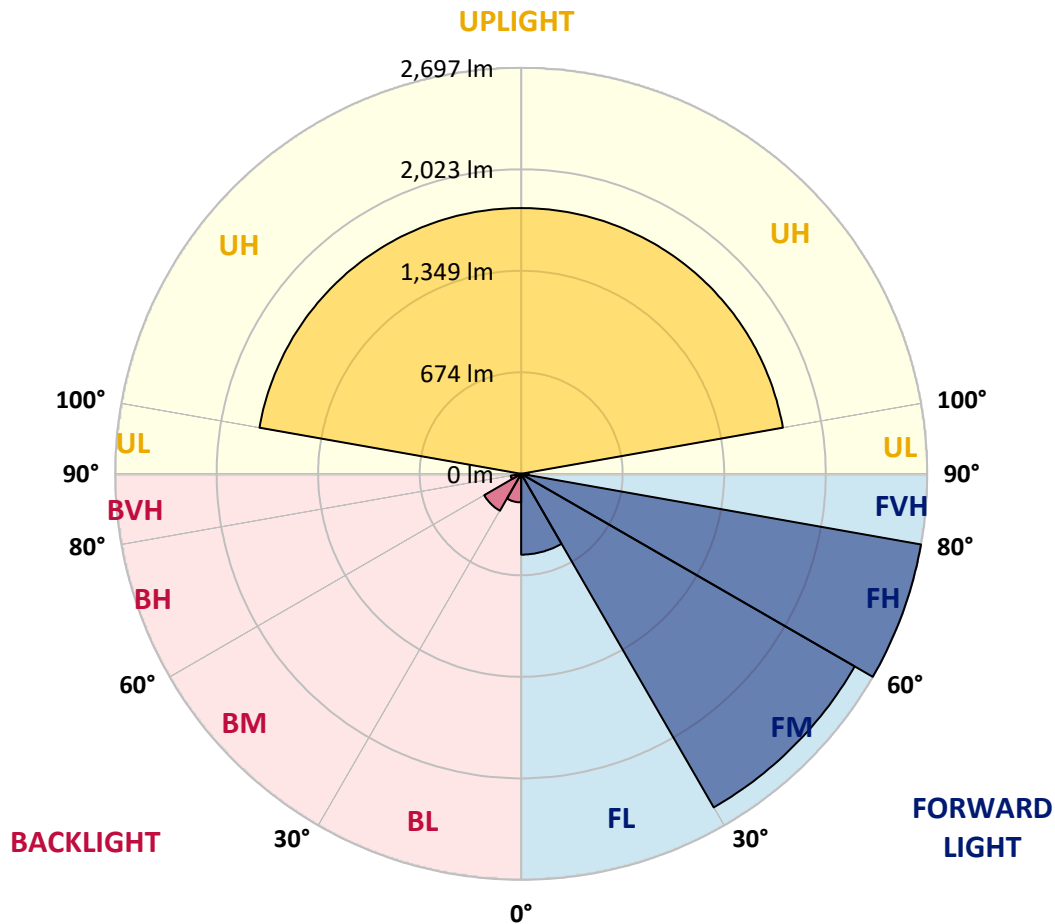
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 536.8  | 6.6       |                         |       |         |
| FM   | (30°-60°)   | 2558.9 | 31.3      |                         |       |         |
| FH   | (60°-80°)   | 2697.2 | 33.0      |                         |       | G2/5000 |
| FVH  | (80°-90°)   | 50.4   | 0.6       |                         |       | G1/100  |
| BL   | (0°-30°)    | 189.8  | 2.3       | B1/500                  |       |         |
| BM   | (30°-60°)   | 283.5  | 3.5       | B1/1000                 |       |         |
| BH   | (60°-80°)   | 70.2   | 0.9       | B0/110                  |       | G0/110  |
| BVH  | (80°-90°)   | 2.3    | 0.0       |                         |       | G0/10   |
| UL   | (90°-100°)  | 8.4    | 0.1       |                         | U1/10 |         |
| UH   | (100°-180°) | 1765.5 | 21.6      |                         | U5    |         |

**BUG Rating: B1-U5-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 38°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 |
| 2.5°   | 1247.6 | 1244.2 | 1247.6 | 1244.2 | 1237.6 | 1234.3 | 1229.9 | 1217.7 | 1206.6 | 1193.3 | 1173.4 |
| 5°     | 1249.8 | 1247.6 | 1247.6 | 1243.1 | 1235.4 | 1232.1 | 1227.6 | 1215.5 | 1201.1 | 1181.1 | 1151.3 |
| 7.5°   | 1237.6 | 1236.5 | 1234.3 | 1229.9 | 1221.0 | 1218.8 | 1215.5 | 1201.1 | 1186.7 | 1165.6 | 1129.1 |
| 10°    | 1217.7 | 1219.9 | 1218.8 | 1218.8 | 1215.5 | 1213.2 | 1211.0 | 1194.4 | 1178.9 | 1154.6 | 1115.8 |
| 12.5°  | 1198.9 | 1201.1 | 1206.6 | 1215.5 | 1218.8 | 1219.9 | 1219.9 | 1203.3 | 1184.5 | 1157.9 | 1118.0 |
| 15°    | 1186.7 | 1191.1 | 1206.6 | 1224.3 | 1234.3 | 1237.6 | 1240.9 | 1223.2 | 1201.1 | 1172.3 | 1130.2 |
| 17.5°  | 1183.4 | 1190.0 | 1219.9 | 1247.6 | 1266.4 | 1268.6 | 1268.6 | 1246.5 | 1223.2 | 1190.0 | 1144.6 |
| 20°    | 1194.4 | 1203.3 | 1242.0 | 1280.8 | 1304.0 | 1306.2 | 1301.8 | 1273.0 | 1245.4 | 1208.8 | 1156.8 |
| 22.5°  | 1227.6 | 1235.4 | 1279.7 | 1325.1 | 1347.2 | 1349.4 | 1339.4 | 1299.6 | 1269.7 | 1239.8 | 1173.4 |
| 25°    | 1285.2 | 1289.6 | 1337.2 | 1380.4 | 1392.6 | 1395.9 | 1379.3 | 1331.7 | 1297.4 | 1269.7 | 1196.6 |
| 27.5°  | 1361.6 | 1363.8 | 1407.0 | 1439.1 | 1441.3 | 1440.2 | 1422.5 | 1372.7 | 1338.3 | 1315.1 | 1232.1 |
| 30°    | 1441.3 | 1444.6 | 1480.0 | 1501.1 | 1492.2 | 1487.8 | 1472.3 | 1419.1 | 1388.2 | 1370.4 | 1283.0 |
| 32.5°  | 1515.5 | 1518.8 | 1557.5 | 1568.6 | 1548.7 | 1545.3 | 1534.3 | 1477.8 | 1451.2 | 1460.1 | 1356.0 |
| 35°    | 1588.5 | 1588.5 | 1632.8 | 1638.3 | 1620.6 | 1620.6 | 1620.6 | 1553.1 | 1548.7 | 1578.6 | 1457.9 |
| 37.5°  | 1653.8 | 1664.9 | 1711.4 | 1709.2 | 1705.9 | 1708.1 | 1714.7 | 1663.8 | 1679.3 | 1730.2 | 1591.8 |
| 40°    | 1709.2 | 1723.6 | 1785.6 | 1791.1 | 1805.5 | 1817.7 | 1827.6 | 1801.1 | 1837.6 | 1920.6 | 1763.4 |
| 42.5°  | 1759.0 | 1775.6 | 1855.3 | 1880.8 | 1920.6 | 1937.2 | 1956.0 | 1949.4 | 2030.2 | 2181.9 | 1982.6 |
| 45°    | 1823.2 | 1840.9 | 1922.8 | 1983.7 | 2039.1 | 2061.2 | 2103.3 | 2132.0 | 2266.0 | 2438.7 | 2219.5 |
| 47.5°  | 1908.4 | 1920.6 | 1995.9 | 2092.2 | 2167.5 | 2207.3 | 2272.6 | 2346.8 | 2509.5 | 2711.0 | 2430.9 |
| 50°    | 2024.7 | 2025.8 | 2082.2 | 2207.3 | 2319.1 | 2362.3 | 2475.2 | 2571.5 | 2775.2 | 2951.2 | 2583.7 |
| 52.5°  | 2153.1 | 2146.4 | 2190.7 | 2349.0 | 2490.7 | 2549.4 | 2682.2 | 2816.2 | 3020.9 | 3125.0 | 2652.3 |
| 55°    | 2274.8 | 2278.2 | 2305.8 | 2499.6 | 2706.6 | 2763.0 | 2931.3 | 3067.4 | 3245.7 | 3231.3 | 2690.0 |
| 57.5°  | 2415.4 | 2414.3 | 2449.7 | 2664.5 | 2959.0 | 3024.3 | 3200.3 | 3312.1 | 3381.8 | 3307.7 | 2696.6 |
| 60°    | 2548.3 | 2544.9 | 2599.2 | 2861.5 | 3227.9 | 3324.3 | 3482.6 | 3478.1 | 3518.0 | 3356.4 | 2691.1 |
| 62.5°  | 2666.7 | 2674.5 | 2769.7 | 3090.7 | 3529.0 | 3633.1 | 3712.8 | 3657.5 | 3668.5 | 3412.8 | 2622.4 |
| 65°    | 2810.6 | 2825.0 | 2978.9 | 3368.5 | 3901.0 | 3950.8 | 3981.8 | 3892.1 | 3781.4 | 3367.4 | 2414.3 |
| 67.5°  | 2992.2 | 3035.3 | 3252.3 | 3778.1 | 4288.4 | 4322.7 | 4323.9 | 4033.8 | 3777.0 | 3138.3 | 2030.2 |
| 70°    | 3064.1 | 3109.5 | 3454.9 | 4102.5 | 4615.0 | 4658.2 | 4523.1 | 4011.7 | 3479.2 | 2457.5 | 1370.4 |
| 71°    | 3014.3 | 3055.3 | 3449.3 | 4133.5 | 4682.5 | 4716.8 | 4505.4 | 3866.7 | 3154.9 | 2024.7 | 1061.6 |
| 72.5°  | 2654.5 | 2760.8 | 3236.8 | 3938.6 | 4561.9 | 4563.0 | 4218.7 | 3524.6 | 2509.5 | 1264.2 | 533.6  |
| 75°    | 1433.5 | 1561.9 | 2372.3 | 2997.7 | 3519.1 | 3546.8 | 3245.7 | 2447.5 | 1214.4 | 327.7  | 129.5  |
| 77.5°  | 472.7  | 532.5  | 1063.8 | 1556.4 | 2207.3 | 2250.5 | 1984.8 | 1087.1 | 383.0  | 110.7  | 67.5   |
| 80°    | 296.7  | 303.3  | 359.8  | 654.2  | 981.9  | 1018.4 | 816.9  | 440.6  | 172.7  | 60.9   | 46.5   |
| 82.5°  | 49.8   | 59.8   | 169.4  | 192.6  | 346.5  | 274.5  | 186.0  | 224.7  | 80.8   | 27.7   | 39.9   |
| 85°    | 0.0    | 0.0    | 1.1    | 1.1    | 5.5    | 1.1    | 1.1    | 45.4   | 4.4    | 4.4    | 21.0   |
| 87.5°  | 0.0    | 0.0    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 1.1    | 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    |
| 92.5°  | 4.1    | 4.1    | 5.1    | 6.1    | 6.1    | 6.1    | 6.1    | 7.2    | 7.2    | 6.1    | 6.1    |
| 95°    | 5.1    | 5.1    | 6.1    | 7.2    | 7.2    | 7.2    | 7.2    | 7.2    | 8.2    | 7.2    | 7.2    |
| 97.5°  | 7.2    | 7.2    | 8.2    | 8.2    | 9.2    | 9.2    | 9.2    | 12.3   | 10.2   | 9.2    | 8.2    |
| 100°   | 8.2    | 8.2    | 9.2    | 10.2   | 12.3   | 15.1   | 21.5   | 29.7   | 26.6   | 23.5   | 19.4   |
| 102.5° | 11.3   | 11.3   | 13.3   | 18.4   | 27.6   | 31.6   | 40.9   | 51.1   | 48.1   | 43.0   | 39.9   |
| 105°   | 21.5   | 22.5   | 27.6   | 36.8   | 49.1   | 53.7   | 64.4   | 73.7   | 71.6   | 66.5   | 62.4   |
| 107.5° | 41.9   | 43.0   | 50.1   | 59.3   | 74.7   | 79.3   | 90.0   | 97.2   | 96.2   | 92.1   | 89.0   |

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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 38°   | 45°   | 55°   | 65°   | 75°   | 85°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 67.5  | 69.6  | 75.7  | 89.0  | 104.3 | 108.0 | 116.6 | 122.8 | 123.8 | 121.7 | 118.7 |
| 112.5° | 101.3 | 101.3 | 108.4 | 123.8 | 137.1 | 139.9 | 146.3 | 151.4 | 153.4 | 152.4 | 150.4 |
| 115°   | 143.2 | 142.2 | 150.4 | 162.6 | 171.9 | 173.7 | 178.0 | 183.1 | 186.2 | 183.1 | 181.1 |
| 117.5° | 188.2 | 188.2 | 193.3 | 201.5 | 206.6 | 207.5 | 209.7 | 215.8 | 219.9 | 214.8 | 212.8 |
| 120°   | 230.2 | 228.1 | 231.2 | 238.3 | 242.4 | 244.3 | 248.6 | 251.6 | 255.7 | 250.6 | 248.6 |
| 122.5° | 269.0 | 266.0 | 267.0 | 273.1 | 277.2 | 279.1 | 283.4 | 285.4 | 289.5 | 284.4 | 282.3 |
| 125°   | 304.8 | 300.7 | 302.8 | 305.9 | 312.0 | 313.5 | 317.1 | 320.2 | 322.2 | 317.1 | 317.1 |
| 127.5° | 337.6 | 336.6 | 336.6 | 340.6 | 346.8 | 347.1 | 347.8 | 352.9 | 353.9 | 353.9 | 352.9 |
| 130°   | 371.3 | 369.3 | 370.3 | 374.4 | 378.5 | 379.1 | 380.5 | 385.7 | 389.7 | 389.7 | 387.7 |
| 132.5° | 405.1 | 403.0 | 402.0 | 410.2 | 413.3 | 413.6 | 414.3 | 420.4 | 425.5 | 423.5 | 423.5 |
| 135°   | 438.8 | 435.8 | 435.8 | 441.9 | 445.0 | 445.6 | 447.0 | 453.2 | 458.3 | 457.3 | 460.3 |
| 137.5° | 470.6 | 467.5 | 469.5 | 470.6 | 474.6 | 475.8 | 478.7 | 483.9 | 485.9 | 486.9 | 492.0 |
| 140°   | 499.2 | 496.1 | 498.2 | 500.2 | 502.3 | 504.1 | 508.4 | 511.5 | 513.5 | 515.6 | 520.7 |
| 142.5° | 529.9 | 526.8 | 528.9 | 529.9 | 533.0 | 534.2 | 537.0 | 539.1 | 545.2 | 545.2 | 546.3 |
| 145°   | 562.6 | 558.5 | 556.5 | 559.6 | 562.6 | 562.9 | 563.6 | 568.8 | 574.9 | 573.9 | 570.8 |
| 147.5° | 588.2 | 585.1 | 584.1 | 587.2 | 587.2 | 587.5 | 588.2 | 593.3 | 598.4 | 599.4 | 596.4 |
| 150°   | 608.7 | 605.6 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 610.7 | 613.8 | 616.8 | 619.9 |
| 152.5° | 625.0 | 622.0 | 622.0 | 623.0 | 624.0 | 624.0 | 624.0 | 625.0 | 628.1 | 632.2 | 637.3 |
| 155°   | 643.4 | 639.3 | 639.3 | 641.4 | 644.5 | 643.9 | 642.4 | 640.4 | 645.5 | 650.6 | 652.6 |
| 157.5° | 660.8 | 657.8 | 657.8 | 658.8 | 660.8 | 660.5 | 659.8 | 658.8 | 662.9 | 664.9 | 664.9 |
| 160°   | 678.2 | 675.1 | 674.1 | 671.1 | 670.0 | 670.0 | 670.0 | 673.1 | 679.2 | 676.2 | 675.1 |
| 162.5° | 688.4 | 684.4 | 684.4 | 680.3 | 676.2 | 676.8 | 678.2 | 682.3 | 686.4 | 685.4 | 683.3 |
| 165°   | 696.6 | 693.6 | 691.5 | 691.5 | 688.4 | 688.4 | 688.4 | 687.4 | 692.5 | 695.6 | 693.6 |
| 167.5° | 705.8 | 702.8 | 699.7 | 701.7 | 703.8 | 702.9 | 700.7 | 693.6 | 699.7 | 703.8 | 703.8 |
| 170°   | 714.0 | 711.0 | 707.9 | 707.9 | 708.9 | 708.3 | 706.9 | 701.7 | 704.8 | 709.9 | 712.0 |
| 172.5° | 715.0 | 713.0 | 711.0 | 708.9 | 705.8 | 705.8 | 705.8 | 704.8 | 707.9 | 709.9 | 712.0 |
| 175°   | 716.1 | 714.0 | 713.0 | 711.0 | 706.9 | 706.6 | 705.8 | 705.8 | 711.0 | 712.0 | 709.9 |
| 177.5° | 723.2 | 721.2 | 716.1 | 715.0 | 713.0 | 712.4 | 711.0 | 709.9 | 715.0 | 717.1 | 714.0 |
| 180°   | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |



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**CANDELA DISTRIBUTION (continued):**

|        | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 | 1177.8 |
| 2.5°   | 1164.5 | 1155.7 | 1138.0 | 1119.2 | 1095.9 | 1076.0 | 1069.3 | 1055.0 | 1048.3 | 1042.8 | 1042.8 |
| 5°     | 1132.4 | 1116.9 | 1079.3 | 1040.6 | 1002.9 | 963.1  | 926.5  | 892.2  | 875.6  | 852.4  | 863.4  |
| 7.5°   | 1105.9 | 1079.3 | 1026.2 | 965.3  | 887.8  | 809.2  | 748.3  | 695.2  | 650.9  | 636.5  | 626.5  |
| 10°    | 1087.1 | 1053.8 | 976.4  | 883.4  | 770.5  | 658.7  | 564.6  | 477.1  | 426.2  | 395.2  | 395.2  |
| 12.5°  | 1084.8 | 1042.8 | 942.0  | 799.2  | 636.5  | 484.9  | 368.6  | 285.6  | 244.6  | 225.8  | 224.7  |
| 15°    | 1092.6 | 1041.7 | 911.0  | 722.9  | 513.6  | 336.5  | 230.3  | 193.7  | 183.8  | 181.5  | 181.5  |
| 17.5°  | 1099.2 | 1040.6 | 874.5  | 636.5  | 378.6  | 221.4  | 182.7  | 176.0  | 173.8  | 172.7  | 172.7  |
| 20°    | 1105.9 | 1035.0 | 832.4  | 539.1  | 267.9  | 180.4  | 170.5  | 167.2  | 166.0  | 164.9  | 164.9  |
| 22.5°  | 1114.7 | 1029.5 | 789.3  | 428.4  | 198.1  | 168.3  | 162.7  | 159.4  | 158.3  | 158.3  | 158.3  |
| 25°    | 1126.9 | 1026.2 | 736.1  | 324.3  | 170.5  | 159.4  | 153.9  | 151.7  | 151.7  | 150.5  | 150.5  |
| 27.5°  | 1150.2 | 1029.5 | 678.6  | 232.5  | 159.4  | 150.5  | 147.2  | 145.0  | 145.0  | 143.9  | 143.9  |
| 30°    | 1182.3 | 1039.5 | 606.6  | 181.5  | 150.5  | 141.7  | 138.4  | 137.3  | 136.2  | 136.2  | 136.2  |
| 32.5°  | 1227.6 | 1055.0 | 528.0  | 155.0  | 139.5  | 132.8  | 129.5  | 128.4  | 128.4  | 128.4  | 127.3  |
| 35°    | 1297.4 | 1087.1 | 431.7  | 141.7  | 129.5  | 122.9  | 119.6  | 119.6  | 119.6  | 118.4  | 119.6  |
| 37.5°  | 1403.6 | 1139.1 | 334.3  | 130.6  | 118.4  | 112.9  | 110.7  | 109.6  | 109.6  | 109.6  | 109.6  |
| 40°    | 1537.6 | 1223.2 | 243.5  | 120.7  | 108.5  | 102.9  | 100.7  | 99.6   | 98.5   | 98.5   | 98.5   |
| 42.5°  | 1710.3 | 1316.2 | 177.1  | 109.6  | 99.6   | 94.1   | 91.9   | 89.7   | 87.5   | 86.3   | 86.3   |
| 45°    | 1889.6 | 1426.9 | 138.4  | 100.7  | 90.8   | 86.3   | 84.1   | 80.8   | 77.5   | 74.2   | 74.2   |
| 47.5°  | 2063.4 | 1512.1 | 118.4  | 90.8   | 83.0   | 78.6   | 76.4   | 72.0   | 66.4   | 63.1   | 63.1   |
| 50°    | 2173.0 | 1538.7 | 106.3  | 81.9   | 75.3   | 72.0   | 68.6   | 63.1   | 55.3   | 52.0   | 52.0   |
| 52.5°  | 2207.3 | 1490.0 | 95.2   | 74.2   | 68.6   | 65.3   | 60.9   | 53.1   | 45.4   | 41.0   | 41.0   |
| 55°    | 2220.6 | 1395.9 | 84.1   | 68.6   | 62.0   | 57.6   | 52.0   | 44.3   | 36.5   | 32.1   | 32.1   |
| 57.5°  | 2204.0 | 1263.1 | 75.3   | 62.0   | 55.3   | 50.9   | 44.3   | 35.4   | 27.7   | 24.4   | 24.4   |
| 60°    | 2147.5 | 1070.4 | 67.5   | 55.3   | 48.7   | 43.2   | 36.5   | 27.7   | 21.0   | 16.6   | 17.7   |
| 62.5°  | 1994.8 | 828.0  | 58.7   | 46.5   | 42.1   | 36.5   | 28.8   | 21.0   | 13.3   | 11.1   | 11.1   |
| 65°    | 1751.2 | 573.4  | 49.8   | 38.7   | 35.4   | 29.9   | 22.1   | 14.4   | 7.7    | 6.6    | 6.6    |
| 67.5°  | 1422.5 | 370.8  | 38.7   | 32.1   | 29.9   | 24.4   | 16.6   | 8.9    | 4.4    | 4.4    | 3.3    |
| 70°    | 893.3  | 183.8  | 31.0   | 24.4   | 24.4   | 18.8   | 12.2   | 5.5    | 3.3    | 3.3    | 3.3    |
| 71°    | 632.1  | 125.1  | 27.7   | 22.1   | 22.1   | 17.7   | 11.1   | 4.4    | 3.3    | 3.3    | 3.3    |
| 72.5°  | 285.6  | 78.6   | 23.2   | 19.9   | 18.8   | 14.4   | 10.0   | 4.4    | 4.4    | 4.4    | 4.4    |
| 75°    | 89.7   | 43.2   | 16.6   | 15.5   | 15.5   | 12.2   | 8.9    | 5.5    | 5.5    | 5.5    | 5.5    |
| 77.5°  | 59.8   | 33.2   | 11.1   | 10.0   | 12.2   | 12.2   | 8.9    | 6.6    | 6.6    | 6.6    | 6.6    |
| 80°    | 48.7   | 17.7   | 6.6    | 6.6    | 8.9    | 11.1   | 8.9    | 6.6    | 7.7    | 6.6    | 6.6    |
| 82.5°  | 47.6   | 8.9    | 2.2    | 3.3    | 5.5    | 6.6    | 6.6    | 5.5    | 6.6    | 6.6    | 6.6    |
| 85°    | 19.9   | 2.2    | 1.1    | 2.2    | 2.2    | 3.3    | 3.3    | 4.4    | 5.5    | 5.5    | 5.5    |
| 87.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 1.1    | 1.1    | 2.2    | 2.2    | 3.3    | 4.4    | 4.4    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 6.1    | 6.1    | 6.1    | 7.2    | 7.2    | 6.1    | 6.1    | 6.1    | 5.1    | 4.1    | 4.1    |
| 95°    | 7.2    | 7.2    | 7.2    | 8.2    | 7.2    | 7.2    | 7.2    | 7.2    | 6.1    | 5.1    | 5.1    |
| 97.5°  | 8.2    | 8.2    | 9.2    | 10.2   | 12.3   | 9.2    | 9.2    | 8.2    | 8.2    | 7.2    | 7.2    |
| 100°   | 19.4   | 19.4   | 23.5   | 26.6   | 29.7   | 21.5   | 12.3   | 10.2   | 9.2    | 8.2    | 8.2    |
| 102.5° | 38.9   | 39.9   | 43.0   | 48.1   | 51.1   | 40.9   | 27.6   | 18.4   | 13.3   | 11.3   | 11.3   |
| 105°   | 62.4   | 62.4   | 66.5   | 71.6   | 73.7   | 64.4   | 49.1   | 36.8   | 27.6   | 22.5   | 21.5   |
| 107.5° | 88.0   | 89.0   | 92.1   | 96.2   | 97.2   | 90.0   | 74.7   | 59.3   | 50.1   | 43.0   | 41.9   |

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**CANDELA DISTRIBUTION (continued):**

|        | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 119.7 | 118.7 | 121.7 | 123.8 | 122.8 | 116.6 | 104.3 | 89.0  | 75.7  | 69.6  | 67.5  |
| 112.5° | 150.4 | 150.4 | 152.4 | 153.4 | 151.4 | 146.3 | 137.1 | 123.8 | 108.4 | 101.3 | 101.3 |
| 115°   | 182.1 | 181.1 | 183.1 | 186.2 | 183.1 | 178.0 | 171.9 | 162.6 | 150.4 | 142.2 | 143.2 |
| 117.5° | 213.8 | 212.8 | 214.8 | 219.9 | 215.8 | 209.7 | 206.6 | 201.5 | 193.3 | 188.2 | 188.2 |
| 120°   | 248.6 | 248.6 | 250.6 | 255.7 | 251.6 | 248.6 | 242.4 | 238.3 | 231.2 | 228.1 | 230.2 |
| 122.5° | 283.4 | 282.3 | 284.4 | 289.5 | 285.4 | 283.4 | 277.2 | 273.1 | 267.0 | 266.0 | 269.0 |
| 125°   | 317.1 | 317.1 | 317.1 | 322.2 | 320.2 | 317.1 | 312.0 | 305.9 | 302.8 | 300.7 | 304.8 |
| 127.5° | 355.0 | 352.9 | 353.9 | 353.9 | 352.9 | 347.8 | 346.8 | 340.6 | 336.6 | 336.6 | 337.6 |
| 130°   | 388.7 | 387.7 | 389.7 | 389.7 | 385.7 | 380.5 | 378.5 | 374.4 | 370.3 | 369.3 | 371.3 |
| 132.5° | 424.5 | 423.5 | 423.5 | 425.5 | 420.4 | 414.3 | 413.3 | 410.2 | 402.0 | 403.0 | 405.1 |
| 135°   | 461.4 | 460.3 | 457.3 | 458.3 | 453.2 | 447.0 | 445.0 | 441.9 | 435.8 | 435.8 | 438.8 |
| 137.5° | 493.1 | 492.0 | 486.9 | 485.9 | 483.9 | 478.7 | 474.6 | 470.6 | 469.5 | 467.5 | 470.6 |
| 140°   | 522.7 | 520.7 | 515.6 | 513.5 | 511.5 | 508.4 | 502.3 | 500.2 | 498.2 | 496.1 | 499.2 |
| 142.5° | 548.3 | 546.3 | 545.2 | 545.2 | 539.1 | 537.0 | 533.0 | 529.9 | 528.9 | 526.8 | 529.9 |
| 145°   | 572.9 | 570.8 | 573.9 | 574.9 | 568.8 | 563.6 | 562.6 | 559.6 | 556.5 | 558.5 | 562.6 |
| 147.5° | 598.4 | 596.4 | 599.4 | 598.4 | 593.3 | 588.2 | 587.2 | 587.2 | 584.1 | 585.1 | 588.2 |
| 150°   | 624.0 | 619.9 | 616.8 | 613.8 | 610.7 | 606.6 | 606.6 | 606.6 | 606.6 | 605.6 | 608.7 |
| 152.5° | 642.4 | 637.3 | 632.2 | 628.1 | 625.0 | 624.0 | 624.0 | 623.0 | 622.0 | 622.0 | 625.0 |
| 155°   | 655.7 | 652.6 | 650.6 | 645.5 | 640.4 | 642.4 | 644.5 | 641.4 | 639.3 | 639.3 | 643.4 |
| 157.5° | 670.0 | 664.9 | 664.9 | 662.9 | 658.8 | 659.8 | 660.8 | 658.8 | 657.8 | 657.8 | 660.8 |
| 160°   | 681.3 | 675.1 | 676.2 | 679.2 | 673.1 | 670.0 | 670.0 | 671.1 | 674.1 | 675.1 | 678.2 |
| 162.5° | 689.5 | 683.3 | 685.4 | 686.4 | 682.3 | 678.2 | 676.2 | 680.3 | 684.4 | 684.4 | 688.4 |
| 165°   | 697.7 | 693.6 | 695.6 | 692.5 | 687.4 | 688.4 | 688.4 | 691.5 | 691.5 | 693.6 | 696.6 |
| 167.5° | 709.9 | 703.8 | 703.8 | 699.7 | 693.6 | 700.7 | 703.8 | 701.7 | 699.7 | 702.8 | 705.8 |
| 170°   | 717.1 | 712.0 | 709.9 | 704.8 | 701.7 | 706.9 | 708.9 | 707.9 | 707.9 | 711.0 | 714.0 |
| 172.5° | 717.1 | 712.0 | 709.9 | 707.9 | 704.8 | 705.8 | 705.8 | 708.9 | 711.0 | 713.0 | 715.0 |
| 175°   | 715.0 | 709.9 | 712.0 | 711.0 | 705.8 | 705.8 | 706.9 | 711.0 | 713.0 | 714.0 | 716.1 |
| 177.5° | 718.1 | 714.0 | 717.1 | 715.0 | 709.9 | 711.0 | 713.0 | 715.0 | 716.1 | 721.2 | 723.2 |
| 180°   | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |

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