

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: P227033

Luminaire Tested: **ISW-AF-1200-LED-E1-SL4-7050-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227033  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISW-AF-1200-LED-E1-SL4-7050-ULG  
Description: IMPACT ELITE LED WEDGE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 5000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7899.9 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 82.7  
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

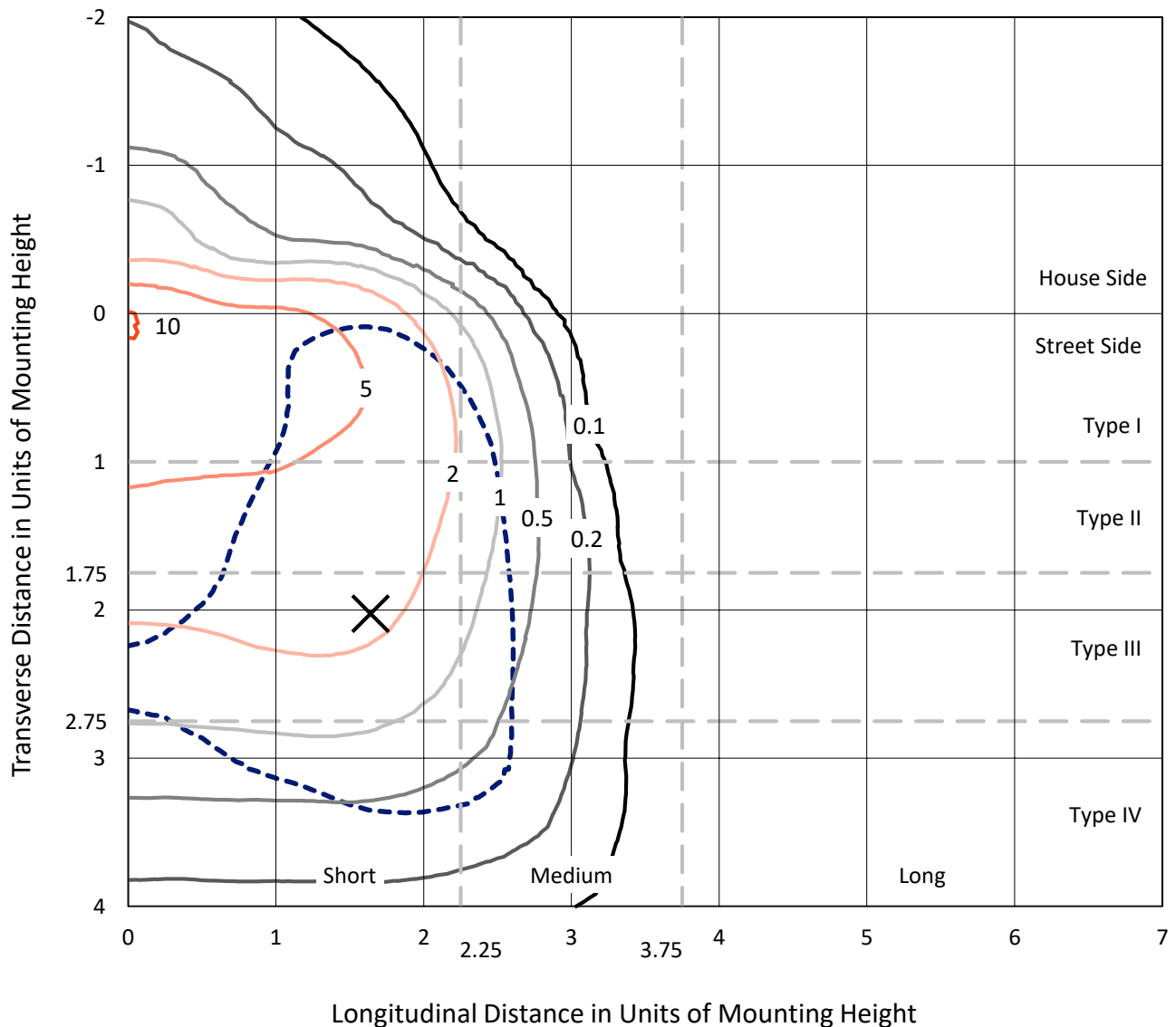


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### Iso-Footcandle Lines of Horizontal Illumination

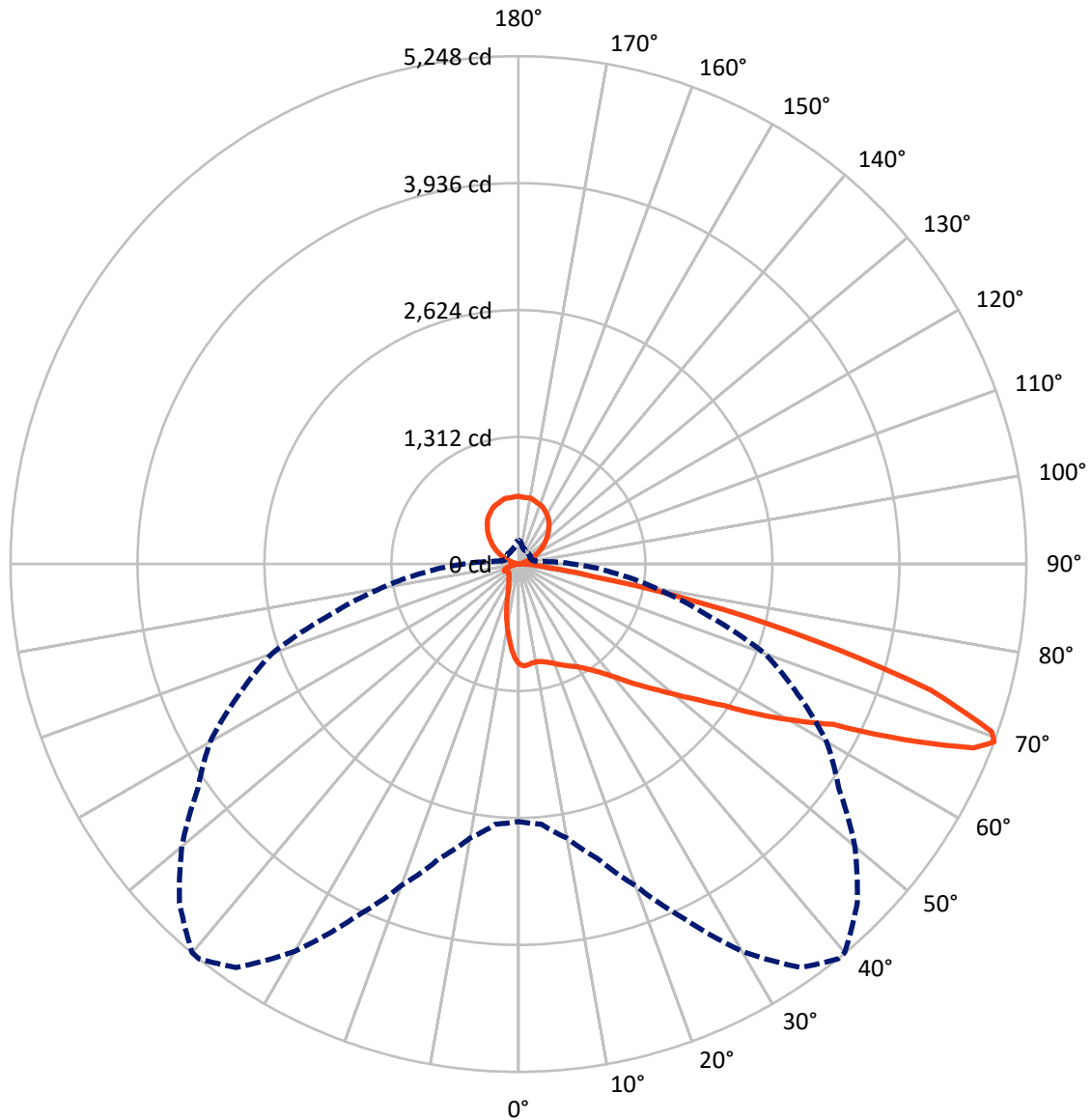
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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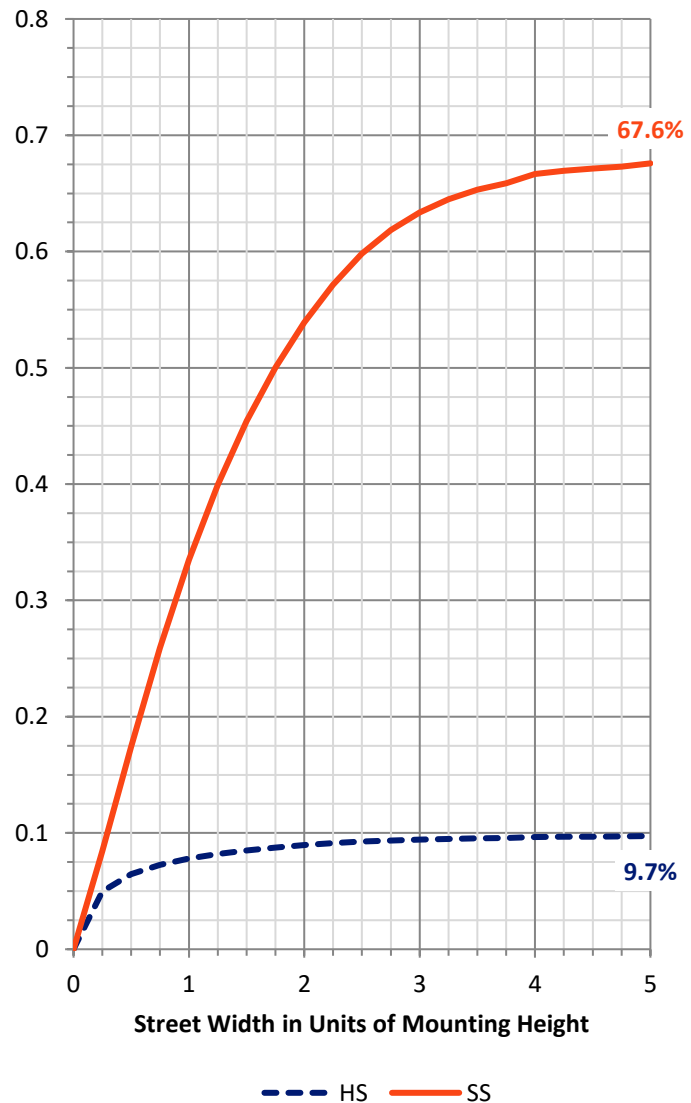
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 780.4    | 867.8  | 1648.2 |
|                    | % Fixture | 9.9      | 11.0   | 20.9   |
| <b>Street Side</b> | Lumens    | 5382.6   | 869.1  | 6251.7 |
|                    | % Fixture | 68.1     | 11.0   | 79.1   |
| <b>Total</b>       | Lumens    | 6163.0   | 1736.8 | 7899.9 |
|                    | % Fixture | 78.0     | 22.0   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 89.1   | 1.1       |
| 10°-20°   | 224.7  | 2.8       |
| 20°-30°   | 349.7  | 4.4       |
| 30°-40°   | 528.6  | 6.7       |
| 40°-50°   | 845.9  | 10.7      |
| 50°-60°   | 1329.4 | 16.8      |
| 60°-70°   | 1790.0 | 22.7      |
| 70°-80°   | 887.9  | 11.2      |
| 80°-90°   | 117.7  | 1.5       |
| 90°-100°  | 11.0   | 0.1       |
| 100°-110° | 57.4   | 0.7       |
| 110°-120° | 166.1  | 2.1       |
| 120°-130° | 273.2  | 3.5       |
| 130°-140° | 336.8  | 4.3       |
| 140°-150° | 344.6  | 4.4       |
| 150°-160° | 290.3  | 3.7       |
| 160°-170° | 191.2  | 2.4       |
| 170°-180° | 66.3   | 0.8       |
| 0°-90°    | 6163.0 | 78.0      |
| 0°-180°   | 7899.9 | 100.0     |



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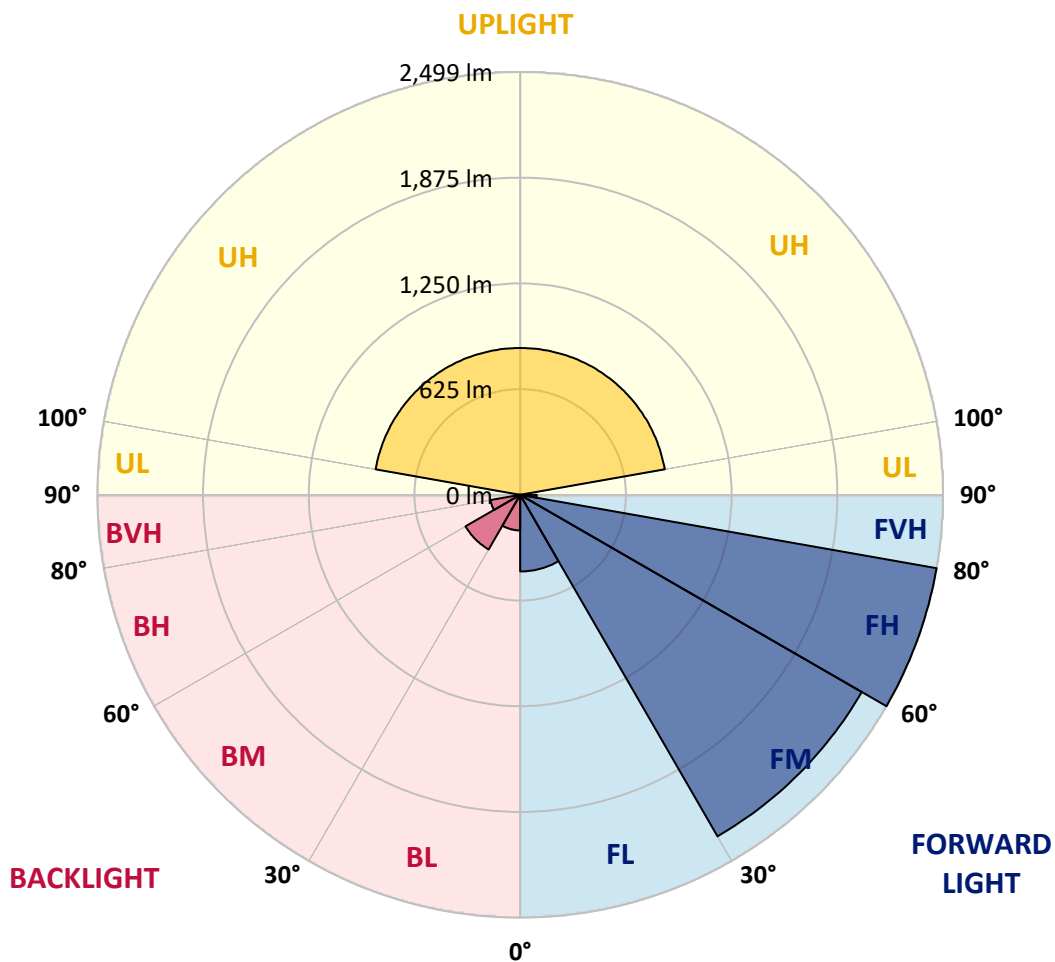
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 453.2  | 5.7       |                         |         |         |
| FM   | (30°-60°)   | 2331.3 | 29.5      |                         |         |         |
| FH   | (60°-80°)   | 2499.4 | 31.6      |                         |         | G2/5000 |
| FVH  | (80°-90°)   | 98.8   | 1.3       |                         |         | G1/100  |
| BL   | (0°-30°)    | 210.4  | 2.7       | B1/500                  |         |         |
| BM   | (30°-60°)   | 372.6  | 4.7       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 178.5  | 2.3       | B1/500                  |         | G1/500  |
| BVH  | (80°-90°)   | 18.9   | 0.2       |                         |         | G1/100  |
| UL   | (90°-100°)  | 11.0   | 0.1       |                         | U2/50   |         |
| UH   | (100°-180°) | 867.8  | 11.0      |                         | U4/1000 |         |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 39°    | 40°    | 45°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 |
| 2.5°   | 1057.4 | 1058.4 | 1058.4 | 1059.4 | 1055.4 | 1055.4 | 1056.4 | 1052.4 | 1054.4 | 1053.4 | 1048.4 |
| 5°     | 1059.4 | 1060.4 | 1059.4 | 1060.4 | 1055.4 | 1053.4 | 1049.4 | 1044.4 | 1046.4 | 1045.4 | 1038.4 |
| 7.5°   | 1054.4 | 1055.4 | 1053.4 | 1054.4 | 1048.4 | 1044.4 | 1038.4 | 1034.4 | 1031.4 | 1030.4 | 1021.4 |
| 10°    | 1043.4 | 1046.4 | 1042.4 | 1045.4 | 1040.4 | 1036.4 | 1033.4 | 1029.4 | 1027.4 | 1026.4 | 1016.4 |
| 12.5°  | 1027.4 | 1029.4 | 1030.4 | 1034.4 | 1034.4 | 1035.4 | 1035.4 | 1032.4 | 1033.4 | 1032.4 | 1024.4 |
| 15°    | 1012.4 | 1019.4 | 1026.4 | 1030.4 | 1038.4 | 1043.4 | 1047.4 | 1046.4 | 1049.4 | 1048.4 | 1043.4 |
| 17.5°  | 1012.4 | 1018.4 | 1030.4 | 1043.4 | 1058.4 | 1065.4 | 1071.4 | 1071.4 | 1072.4 | 1070.4 | 1062.4 |
| 20°    | 1016.4 | 1027.4 | 1047.4 | 1069.4 | 1087.4 | 1101.4 | 1105.4 | 1104.4 | 1100.4 | 1100.4 | 1086.4 |
| 22.5°  | 1049.4 | 1056.4 | 1078.4 | 1102.4 | 1127.4 | 1141.4 | 1142.4 | 1139.4 | 1131.4 | 1129.4 | 1112.4 |
| 25°    | 1096.4 | 1104.4 | 1124.4 | 1155.4 | 1174.4 | 1185.4 | 1182.4 | 1172.4 | 1164.4 | 1157.4 | 1139.4 |
| 27.5°  | 1169.4 | 1175.4 | 1195.4 | 1216.4 | 1227.4 | 1231.4 | 1219.4 | 1205.4 | 1196.4 | 1193.4 | 1169.4 |
| 30°    | 1244.4 | 1252.4 | 1268.4 | 1281.5 | 1290.5 | 1278.5 | 1259.4 | 1243.4 | 1235.4 | 1233.4 | 1211.4 |
| 32.5°  | 1336.5 | 1337.5 | 1348.5 | 1351.5 | 1352.5 | 1332.5 | 1306.5 | 1291.5 | 1288.5 | 1284.5 | 1267.4 |
| 35°    | 1420.5 | 1425.5 | 1423.5 | 1422.5 | 1413.5 | 1388.5 | 1366.5 | 1357.5 | 1354.5 | 1353.5 | 1339.5 |
| 37.5°  | 1495.5 | 1503.5 | 1498.5 | 1489.5 | 1478.5 | 1458.5 | 1435.5 | 1425.5 | 1435.5 | 1429.5 | 1432.5 |
| 40°    | 1568.6 | 1568.6 | 1562.6 | 1557.5 | 1544.5 | 1525.5 | 1517.5 | 1518.5 | 1534.5 | 1538.5 | 1542.5 |
| 42.5°  | 1631.6 | 1630.6 | 1624.6 | 1620.6 | 1618.6 | 1614.6 | 1610.6 | 1629.6 | 1660.6 | 1666.6 | 1675.6 |
| 45°    | 1700.6 | 1699.6 | 1676.6 | 1684.6 | 1698.6 | 1701.6 | 1715.6 | 1759.6 | 1797.6 | 1800.6 | 1819.6 |
| 47.5°  | 1767.6 | 1759.6 | 1737.6 | 1745.6 | 1785.6 | 1806.6 | 1829.6 | 1891.7 | 1944.7 | 1955.7 | 2008.7 |
| 50°    | 1837.6 | 1829.6 | 1805.6 | 1820.6 | 1876.7 | 1915.7 | 1969.7 | 2055.7 | 2128.8 | 2143.8 | 2212.8 |
| 52.5°  | 1910.7 | 1909.7 | 1890.7 | 1913.7 | 1982.7 | 2061.7 | 2146.8 | 2243.8 | 2332.8 | 2351.8 | 2453.9 |
| 55°    | 1998.7 | 1993.7 | 1985.7 | 2013.7 | 2111.7 | 2217.8 | 2350.8 | 2482.9 | 2579.9 | 2613.9 | 2717.0 |
| 57.5°  | 2097.7 | 2095.7 | 2096.7 | 2154.8 | 2272.8 | 2433.9 | 2596.9 | 2775.0 | 2935.0 | 2959.0 | 3055.1 |
| 60°    | 2183.8 | 2187.8 | 2210.8 | 2301.8 | 2449.9 | 2667.9 | 2897.0 | 3138.1 | 3280.2 | 3305.2 | 3399.2 |
| 62.5°  | 2288.8 | 2311.8 | 2362.8 | 2477.9 | 2651.9 | 2916.0 | 3213.1 | 3468.2 | 3651.3 | 3702.3 | 3880.4 |
| 65°    | 2540.9 | 2558.9 | 2653.9 | 2793.0 | 3015.1 | 3353.2 | 3694.3 | 4065.4 | 4367.5 | 4413.6 | 4566.6 |
| 67.5°  | 2725.0 | 2771.0 | 2920.0 | 3147.1 | 3468.2 | 3900.4 | 4368.5 | 4817.7 | 5072.8 | 5093.8 | 4986.8 |
| 69°    | 2660.9 | 2699.0 | 2875.0 | 3149.1 | 3536.2 | 4039.4 | 4621.6 | 5090.8 | 5247.8 | 5243.8 | 4952.7 |
| 70°    | 2562.9 | 2597.9 | 2792.0 | 3058.1 | 3479.2 | 4023.4 | 4625.6 | 5092.8 | 5187.8 | 5151.8 | 4818.7 |
| 72.5°  | 2146.8 | 2177.8 | 2359.8 | 2637.9 | 3046.1 | 3586.3 | 4153.5 | 4472.6 | 4452.6 | 4422.6 | 3872.4 |
| 75°    | 1340.5 | 1338.5 | 1497.5 | 1658.6 | 1975.7 | 2521.9 | 2944.0 | 3200.1 | 3159.1 | 3136.1 | 2485.9 |
| 77.5°  | 501.2  | 536.2  | 594.2  | 767.3  | 913.3  | 1208.4 | 1549.5 | 1834.6 | 1913.7 | 1812.6 | 1338.5 |
| 80°    | 261.1  | 280.1  | 318.1  | 379.1  | 436.2  | 499.2  | 600.2  | 772.3  | 799.3  | 745.3  | 540.2  |
| 82.5°  | 206.1  | 229.1  | 267.1  | 319.1  | 359.1  | 335.1  | 316.1  | 327.1  | 325.1  | 310.1  | 275.1  |
| 85°    | 156.1  | 183.1  | 245.1  | 298.1  | 355.1  | 300.1  | 239.1  | 209.1  | 186.1  | 187.1  | 199.1  |
| 87.5°  | 78.0   | 101.0  | 193.1  | 260.1  | 309.1  | 199.1  | 156.1  | 121.0  | 101.0  | 97.0   | 130.0  |
| 90°    | 29.0   | 29.0   | 45.0   | 58.0   | 77.5   | 43.0   | 42.0   | 34.0   | 26.6   | 26.5   | 37.0   |
| 92.5°  | 4.0    | 4.0    | 4.5    | 5.0    | 5.5    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |
| 95°    | 5.0    | 5.0    | 5.5    | 6.0    | 6.5    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    |
| 97.5°  | 7.0    | 7.0    | 7.5    | 8.0    | 8.0    | 8.0    | 8.5    | 9.0    | 9.0    | 9.0    | 9.0    |
| 100°   | 8.0    | 8.0    | 8.5    | 9.0    | 9.5    | 10.0   | 11.0   | 12.0   | 15.6   | 16.5   | 21.0   |
| 102.5° | 11.0   | 11.0   | 12.0   | 13.0   | 15.5   | 18.0   | 22.5   | 27.0   | 32.2   | 33.5   | 40.0   |
| 105°   | 21.0   | 22.0   | 24.5   | 27.0   | 31.5   | 36.0   | 42.0   | 48.0   | 54.0   | 55.5   | 63.0   |
| 107.5° | 41.0   | 42.0   | 45.5   | 49.0   | 53.5   | 58.0   | 65.5   | 73.0   | 79.0   | 80.5   | 88.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 10°   | 15°   | 20°   | 25°   | 30°   | 35°   | 39°   | 40°   | 45°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 66.0  | 68.0  | 71.0  | 74.0  | 80.5  | 87.0  | 94.5  | 102.0 | 106.8 | 108.0 | 114.0 |
| 112.5° | 99.0  | 99.0  | 102.5 | 106.0 | 113.5 | 121.0 | 127.5 | 134.0 | 137.6 | 138.5 | 143.0 |
| 115°   | 140.0 | 139.0 | 143.0 | 147.0 | 153.0 | 159.0 | 163.5 | 168.0 | 170.4 | 171.0 | 174.0 |
| 117.5° | 184.0 | 184.0 | 186.5 | 189.0 | 193.0 | 197.0 | 199.5 | 202.0 | 203.2 | 203.5 | 205.0 |
| 120°   | 225.0 | 223.0 | 224.5 | 226.0 | 229.5 | 233.0 | 235.0 | 237.0 | 239.4 | 240.0 | 243.0 |
| 122.5° | 263.0 | 260.0 | 260.5 | 261.0 | 264.0 | 267.0 | 269.0 | 271.0 | 273.4 | 274.0 | 277.0 |
| 125°   | 298.0 | 294.0 | 295.0 | 296.0 | 297.5 | 299.0 | 302.0 | 305.0 | 307.0 | 307.5 | 310.0 |
| 127.5° | 330.0 | 329.0 | 329.0 | 329.0 | 331.0 | 333.0 | 336.0 | 339.0 | 339.4 | 339.5 | 340.0 |
| 130°   | 363.0 | 361.0 | 361.5 | 362.0 | 364.0 | 366.0 | 368.0 | 370.0 | 370.8 | 371.0 | 372.0 |
| 132.5° | 396.0 | 394.0 | 393.5 | 393.0 | 397.0 | 401.0 | 402.5 | 404.0 | 404.4 | 404.5 | 405.0 |
| 135°   | 429.0 | 426.0 | 426.0 | 426.0 | 429.0 | 432.0 | 433.5 | 435.0 | 435.8 | 436.0 | 437.0 |
| 137.5° | 460.0 | 457.0 | 458.0 | 459.0 | 459.5 | 460.0 | 462.0 | 464.0 | 465.6 | 466.0 | 468.0 |
| 140°   | 488.0 | 485.0 | 486.0 | 487.0 | 488.0 | 489.0 | 490.0 | 491.0 | 493.4 | 494.0 | 497.0 |
| 142.5° | 518.0 | 515.0 | 516.0 | 517.0 | 517.5 | 518.0 | 519.5 | 521.0 | 522.6 | 523.0 | 525.0 |
| 145°   | 550.0 | 546.0 | 545.0 | 544.0 | 545.5 | 547.0 | 548.5 | 550.0 | 550.4 | 550.5 | 551.0 |
| 147.5° | 575.0 | 572.0 | 571.5 | 571.0 | 572.5 | 574.0 | 574.0 | 574.0 | 574.4 | 574.5 | 575.0 |
| 150°   | 595.0 | 592.0 | 592.5 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 |
| 152.5° | 611.0 | 608.0 | 608.0 | 608.0 | 608.5 | 609.0 | 609.5 | 610.0 | 610.0 | 610.0 | 610.0 |
| 155°   | 629.0 | 625.0 | 625.0 | 625.0 | 626.0 | 627.0 | 628.5 | 630.0 | 629.2 | 629.0 | 628.0 |
| 157.5° | 646.0 | 643.0 | 643.0 | 643.0 | 643.5 | 644.0 | 645.0 | 646.0 | 645.6 | 645.5 | 645.0 |
| 160°   | 663.0 | 660.0 | 659.5 | 659.0 | 657.5 | 656.0 | 655.5 | 655.0 | 655.0 | 655.0 | 655.0 |
| 162.5° | 673.0 | 669.0 | 669.0 | 669.0 | 667.0 | 665.0 | 663.0 | 661.0 | 661.8 | 662.0 | 663.0 |
| 165°   | 681.0 | 678.0 | 677.0 | 676.0 | 676.0 | 676.0 | 674.5 | 673.0 | 673.0 | 673.0 | 673.0 |
| 167.5° | 690.0 | 687.0 | 685.5 | 684.0 | 685.0 | 686.0 | 687.0 | 688.0 | 686.8 | 686.5 | 685.0 |
| 170°   | 698.0 | 695.0 | 693.5 | 692.0 | 692.0 | 692.0 | 692.5 | 693.0 | 692.2 | 692.0 | 691.0 |
| 172.5° | 699.0 | 697.0 | 696.0 | 695.0 | 694.0 | 693.0 | 691.5 | 690.0 | 690.0 | 690.0 | 690.0 |
| 175°   | 700.0 | 698.0 | 697.5 | 697.0 | 696.0 | 695.0 | 693.0 | 691.0 | 690.6 | 690.5 | 690.0 |
| 177.5° | 707.0 | 705.0 | 702.5 | 700.0 | 699.5 | 699.0 | 698.0 | 697.0 | 696.2 | 696.0 | 695.0 |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |





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**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    | 95°    | 100°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 |
| 2.5°   | 1044.4 | 1044.4 | 1042.4 | 1041.4 | 1038.4 | 1034.4 | 1031.4 | 1026.4 | 1023.4 | 1018.4 | 1012.4 |
| 5°     | 1031.4 | 1027.4 | 1025.4 | 1021.4 | 1015.4 | 1010.4 | 1004.4 | 997.4  | 989.3  | 979.3  | 968.3  |
| 7.5°   | 1014.4 | 1008.4 | 1001.4 | 999.4  | 992.3  | 986.3  | 979.3  | 969.3  | 958.3  | 940.3  | 926.3  |
| 10°    | 1007.4 | 1001.4 | 995.4  | 991.3  | 982.3  | 975.3  | 967.3  | 954.3  | 940.3  | 916.3  | 890.3  |
| 12.5°  | 1014.4 | 1008.4 | 1002.4 | 995.4  | 987.3  | 979.3  | 968.3  | 952.3  | 933.3  | 902.3  | 870.3  |
| 15°    | 1031.4 | 1025.4 | 1015.4 | 1008.4 | 997.4  | 990.3  | 975.3  | 957.3  | 929.3  | 891.3  | 849.3  |
| 17.5°  | 1050.4 | 1041.4 | 1032.4 | 1021.4 | 1011.4 | 1002.4 | 986.3  | 963.3  | 928.3  | 883.3  | 829.3  |
| 20°    | 1068.4 | 1058.4 | 1044.4 | 1036.4 | 1026.4 | 1013.4 | 996.4  | 968.3  | 926.3  | 867.3  | 808.3  |
| 22.5°  | 1089.4 | 1076.4 | 1061.4 | 1052.4 | 1044.4 | 1033.4 | 1013.4 | 977.3  | 926.3  | 858.3  | 784.3  |
| 25°    | 1116.4 | 1099.4 | 1084.4 | 1075.4 | 1070.4 | 1062.4 | 1038.4 | 998.4  | 933.3  | 853.3  | 764.3  |
| 27.5°  | 1148.4 | 1126.4 | 1113.4 | 1107.4 | 1106.4 | 1100.4 | 1076.4 | 1026.4 | 949.3  | 853.3  | 745.3  |
| 30°    | 1186.4 | 1167.4 | 1150.4 | 1150.4 | 1162.4 | 1158.4 | 1131.4 | 1069.4 | 974.3  | 856.3  | 731.3  |
| 32.5°  | 1239.4 | 1220.4 | 1210.4 | 1220.4 | 1233.4 | 1237.4 | 1206.4 | 1130.4 | 1015.4 | 870.3  | 717.3  |
| 35°    | 1317.5 | 1305.5 | 1298.5 | 1313.5 | 1339.5 | 1349.5 | 1311.5 | 1221.4 | 1075.4 | 897.3  | 709.2  |
| 37.5°  | 1420.5 | 1411.5 | 1402.5 | 1428.5 | 1477.5 | 1497.5 | 1442.5 | 1326.5 | 1161.4 | 942.3  | 705.2  |
| 40°    | 1538.5 | 1539.5 | 1549.5 | 1601.6 | 1648.6 | 1690.6 | 1628.6 | 1485.5 | 1279.5 | 1006.4 | 709.2  |
| 42.5°  | 1678.6 | 1689.6 | 1723.6 | 1795.6 | 1886.7 | 1919.7 | 1859.7 | 1677.6 | 1426.5 | 1083.4 | 719.3  |
| 45°    | 1852.7 | 1881.7 | 1939.7 | 2046.7 | 2156.8 | 2207.8 | 2122.7 | 1919.7 | 1611.6 | 1206.4 | 747.3  |
| 47.5°  | 2037.7 | 2101.7 | 2199.8 | 2329.8 | 2457.9 | 2490.9 | 2385.8 | 2138.8 | 1792.6 | 1315.5 | 790.3  |
| 50°    | 2274.8 | 2352.8 | 2450.9 | 2606.9 | 2743.0 | 2763.0 | 2623.9 | 2341.8 | 1950.7 | 1410.5 | 831.3  |
| 52.5°  | 2495.9 | 2601.9 | 2727.0 | 2908.0 | 3046.1 | 3021.1 | 2841.0 | 2522.9 | 2075.7 | 1475.5 | 854.3  |
| 55°    | 2798.0 | 2908.0 | 3049.1 | 3207.1 | 3344.2 | 3284.2 | 3038.1 | 2676.9 | 2175.8 | 1523.5 | 861.3  |
| 57.5°  | 3143.1 | 3227.1 | 3365.2 | 3527.2 | 3617.3 | 3514.2 | 3232.1 | 2827.0 | 2270.8 | 1524.5 | 806.3  |
| 60°    | 3482.2 | 3580.3 | 3732.3 | 3891.4 | 3941.4 | 3763.3 | 3367.2 | 2850.0 | 2176.8 | 1360.5 | 645.2  |
| 62.5°  | 3984.4 | 4083.4 | 4160.5 | 4186.5 | 4096.4 | 3738.3 | 3210.1 | 2606.9 | 1876.7 | 1073.4 | 457.2  |
| 65°    | 4545.6 | 4433.6 | 4284.5 | 4144.5 | 3899.4 | 3355.2 | 2768.0 | 2141.8 | 1456.5 | 717.3  | 315.1  |
| 67.5°  | 4692.7 | 4351.5 | 4027.4 | 3715.3 | 3258.1 | 2671.9 | 2087.7 | 1506.5 | 934.3  | 408.1  | 214.1  |
| 69°    | 4539.6 | 4041.4 | 3680.3 | 3185.1 | 2713.0 | 1999.7 | 1438.5 | 965.3  | 558.2  | 284.1  | 179.1  |
| 70°    | 4259.5 | 3741.3 | 3252.1 | 2722.0 | 2101.7 | 1527.5 | 956.3  | 632.2  | 364.1  | 207.1  | 161.1  |
| 72.5°  | 3214.1 | 2569.9 | 1980.7 | 1286.5 | 784.3  | 435.2  | 306.1  | 219.1  | 173.1  | 152.1  | 138.0  |
| 75°    | 1858.7 | 1237.4 | 810.3  | 432.2  | 256.1  | 190.1  | 166.1  | 148.1  | 137.0  | 132.0  | 120.0  |
| 77.5°  | 784.3  | 490.2  | 332.1  | 243.1  | 172.1  | 147.1  | 128.0  | 118.0  | 117.0  | 114.0  | 103.0  |
| 80°    | 357.1  | 306.1  | 261.1  | 183.1  | 131.0  | 112.0  | 98.0   | 96.0   | 98.0   | 95.0   | 84.0   |
| 82.5°  | 265.1  | 261.1  | 218.1  | 141.0  | 100.0  | 75.0   | 61.0   | 64.0   | 72.0   | 78.0   | 68.0   |
| 85°    | 221.1  | 221.1  | 183.1  | 105.0  | 66.0   | 48.0   | 47.0   | 53.0   | 60.0   | 65.0   | 55.0   |
| 87.5°  | 203.1  | 195.1  | 105.0  | 54.0   | 38.0   | 31.0   | 29.0   | 26.0   | 26.0   | 45.0   | 38.0   |
| 90°    | 27.0   | 16.0   | 13.0   | 13.0   | 14.0   | 13.0   | 14.0   | 12.0   | 12.0   | 12.0   | 13.0   |
| 92.5°  | 6.5    | 7.0    | 7.0    | 7.0    | 6.5    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |
| 95°    | 7.0    | 7.0    | 7.5    | 8.0    | 7.5    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    |
| 97.5°  | 10.5   | 12.0   | 11.0   | 10.0   | 9.5    | 9.0    | 8.5    | 8.0    | 8.0    | 8.0    | 8.5    |
| 100°   | 25.0   | 29.0   | 27.5   | 26.0   | 24.5   | 23.0   | 21.0   | 19.0   | 19.0   | 19.0   | 21.0   |
| 102.5° | 45.0   | 50.0   | 48.5   | 47.0   | 44.5   | 42.0   | 40.5   | 39.0   | 38.0   | 39.0   | 40.5   |
| 105°   | 67.5   | 72.0   | 71.0   | 70.0   | 67.5   | 65.0   | 63.0   | 61.0   | 61.0   | 61.0   | 63.0   |
| 107.5° | 91.5   | 95.0   | 94.5   | 94.0   | 92.0   | 90.0   | 88.5   | 87.0   | 86.0   | 87.0   | 88.5   |



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**CANDELA DISTRIBUTION (continued):**

|        | 50°   | 55°   | 60°   | 65°   | 70°   | 75°   | 80°   | 85°   | 90°   | 95°   | 100°  |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 117.0 | 120.0 | 120.5 | 121.0 | 120.0 | 119.0 | 117.5 | 116.0 | 117.0 | 116.0 | 117.5 |
| 112.5° | 145.5 | 148.0 | 149.0 | 150.0 | 149.5 | 149.0 | 148.0 | 147.0 | 147.0 | 147.0 | 148.0 |
| 115°   | 176.5 | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 178.0 | 177.0 | 178.0 | 177.0 | 178.0 |
| 117.5° | 208.0 | 211.0 | 213.0 | 215.0 | 212.5 | 210.0 | 209.0 | 208.0 | 209.0 | 208.0 | 209.0 |
| 120°   | 244.5 | 246.0 | 248.0 | 250.0 | 247.5 | 245.0 | 244.0 | 243.0 | 243.0 | 243.0 | 244.0 |
| 122.5° | 278.0 | 279.0 | 281.0 | 283.0 | 280.5 | 278.0 | 277.0 | 276.0 | 277.0 | 276.0 | 277.0 |
| 125°   | 311.5 | 313.0 | 314.0 | 315.0 | 312.5 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 |
| 127.5° | 342.5 | 345.0 | 345.5 | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 347.0 | 345.0 | 345.5 |
| 130°   | 374.5 | 377.0 | 379.0 | 381.0 | 381.0 | 381.0 | 380.0 | 379.0 | 380.0 | 379.0 | 380.0 |
| 132.5° | 408.0 | 411.0 | 413.5 | 416.0 | 415.0 | 414.0 | 414.0 | 414.0 | 415.0 | 414.0 | 414.0 |
| 135°   | 440.0 | 443.0 | 445.5 | 448.0 | 447.5 | 447.0 | 448.5 | 450.0 | 451.0 | 450.0 | 448.5 |
| 137.5° | 470.5 | 473.0 | 474.0 | 475.0 | 475.5 | 476.0 | 478.5 | 481.0 | 482.0 | 481.0 | 478.5 |
| 140°   | 498.5 | 500.0 | 501.0 | 502.0 | 503.0 | 504.0 | 506.5 | 509.0 | 511.0 | 509.0 | 506.5 |
| 142.5° | 526.0 | 527.0 | 530.0 | 533.0 | 533.0 | 533.0 | 533.5 | 534.0 | 536.0 | 534.0 | 533.5 |
| 145°   | 553.5 | 556.0 | 559.0 | 562.0 | 561.5 | 561.0 | 559.5 | 558.0 | 560.0 | 558.0 | 559.5 |
| 147.5° | 577.5 | 580.0 | 582.5 | 585.0 | 585.5 | 586.0 | 584.5 | 583.0 | 585.0 | 583.0 | 584.5 |
| 150°   | 595.0 | 597.0 | 598.5 | 600.0 | 601.5 | 603.0 | 604.5 | 606.0 | 610.0 | 606.0 | 604.5 |
| 152.5° | 610.5 | 611.0 | 612.5 | 614.0 | 616.0 | 618.0 | 620.5 | 623.0 | 628.0 | 623.0 | 620.5 |
| 155°   | 627.0 | 626.0 | 628.5 | 631.0 | 633.5 | 636.0 | 637.0 | 638.0 | 641.0 | 638.0 | 637.0 |
| 157.5° | 644.5 | 644.0 | 646.0 | 648.0 | 649.0 | 650.0 | 650.0 | 650.0 | 655.0 | 650.0 | 650.0 |
| 160°   | 656.5 | 658.0 | 661.0 | 664.0 | 662.5 | 661.0 | 660.5 | 660.0 | 666.0 | 660.0 | 660.5 |
| 162.5° | 665.0 | 667.0 | 669.0 | 671.0 | 670.5 | 670.0 | 669.0 | 668.0 | 674.0 | 668.0 | 669.0 |
| 165°   | 672.5 | 672.0 | 674.5 | 677.0 | 678.5 | 680.0 | 679.0 | 678.0 | 682.0 | 678.0 | 679.0 |
| 167.5° | 681.5 | 678.0 | 681.0 | 684.0 | 686.0 | 688.0 | 688.0 | 688.0 | 694.0 | 688.0 | 688.0 |
| 170°   | 688.5 | 686.0 | 687.5 | 689.0 | 691.5 | 694.0 | 695.0 | 696.0 | 701.0 | 696.0 | 695.0 |
| 172.5° | 689.5 | 689.0 | 690.5 | 692.0 | 693.0 | 694.0 | 695.0 | 696.0 | 701.0 | 696.0 | 695.0 |
| 175°   | 690.0 | 690.0 | 692.5 | 695.0 | 695.5 | 696.0 | 695.0 | 694.0 | 699.0 | 694.0 | 695.0 |
| 177.5° | 694.5 | 694.0 | 696.5 | 699.0 | 700.0 | 701.0 | 699.5 | 698.0 | 702.0 | 698.0 | 699.5 |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |



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CATALOG NUMBER: ISW-AF-1200-LED-E1-SL4-7050-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 105°   | 110°   | 115°   | 120°   | 125°   | 130°   | 135°   | 140°   | 145°   | 150°   | 155°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 |
| 2.5°   | 1007.4 | 1003.4 | 993.4  | 991.3  | 988.3  | 984.3  | 983.3  | 978.3  | 968.3  | 966.3  | 967.3  |
| 5°     | 961.3  | 945.3  | 934.3  | 925.3  | 918.3  | 900.3  | 893.3  | 885.3  | 871.3  | 867.3  | 861.3  |
| 7.5°   | 907.3  | 888.3  | 866.3  | 850.3  | 831.3  | 812.3  | 797.3  | 778.3  | 763.3  | 754.3  | 738.3  |
| 10°    | 865.3  | 839.3  | 810.3  | 778.3  | 753.3  | 724.3  | 705.2  | 683.2  | 659.2  | 637.2  | 621.2  |
| 12.5°  | 833.3  | 797.3  | 755.3  | 717.3  | 681.2  | 650.2  | 616.2  | 585.2  | 555.2  | 525.2  | 499.2  |
| 15°    | 807.3  | 762.3  | 709.2  | 661.2  | 617.2  | 571.2  | 533.2  | 490.2  | 452.2  | 426.2  | 393.1  |
| 17.5°  | 779.3  | 721.3  | 658.2  | 602.2  | 545.2  | 497.2  | 449.2  | 404.1  | 368.1  | 334.1  | 307.1  |
| 20°    | 745.3  | 675.2  | 607.2  | 542.2  | 477.2  | 422.1  | 373.1  | 330.1  | 295.1  | 268.1  | 248.1  |
| 22.5°  | 707.2  | 625.2  | 546.2  | 475.2  | 410.1  | 356.1  | 310.1  | 278.1  | 252.1  | 237.1  | 231.1  |
| 25°    | 670.2  | 576.2  | 487.2  | 409.1  | 344.1  | 298.1  | 267.1  | 240.1  | 227.1  | 221.1  | 221.1  |
| 27.5°  | 636.2  | 526.2  | 427.2  | 351.1  | 288.1  | 252.1  | 228.1  | 217.1  | 211.1  | 211.1  | 214.1  |
| 30°    | 604.2  | 476.2  | 370.1  | 293.1  | 243.1  | 216.1  | 203.1  | 199.1  | 200.1  | 204.1  | 208.1  |
| 32.5°  | 567.2  | 428.2  | 321.1  | 252.1  | 211.1  | 193.1  | 183.1  | 184.1  | 189.1  | 196.1  | 203.1  |
| 35°    | 528.2  | 377.1  | 278.1  | 221.1  | 189.1  | 175.1  | 169.1  | 170.1  | 177.1  | 186.1  | 193.1  |
| 37.5°  | 493.2  | 336.1  | 245.1  | 197.1  | 173.1  | 164.1  | 159.1  | 160.1  | 165.1  | 176.1  | 185.1  |
| 40°    | 458.2  | 301.1  | 218.1  | 183.1  | 164.1  | 155.1  | 152.1  | 151.1  | 155.1  | 165.1  | 176.1  |
| 42.5°  | 428.2  | 271.1  | 202.1  | 173.1  | 158.1  | 150.1  | 146.1  | 146.1  | 148.1  | 156.1  | 167.1  |
| 45°    | 410.1  | 253.1  | 191.1  | 166.1  | 153.1  | 146.1  | 142.1  | 140.0  | 143.1  | 148.1  | 158.1  |
| 47.5°  | 410.1  | 244.1  | 184.1  | 161.1  | 149.1  | 143.1  | 138.0  | 137.0  | 138.0  | 143.1  | 153.1  |
| 50°    | 424.1  | 246.1  | 183.1  | 159.1  | 147.1  | 139.0  | 134.0  | 134.0  | 136.0  | 143.1  | 151.1  |
| 52.5°  | 436.2  | 250.1  | 186.1  | 161.1  | 147.1  | 137.0  | 131.0  | 130.0  | 133.0  | 140.0  | 147.1  |
| 55°    | 434.2  | 250.1  | 189.1  | 164.1  | 150.1  | 138.0  | 130.0  | 129.0  | 131.0  | 138.0  | 145.1  |
| 57.5°  | 388.1  | 235.1  | 186.1  | 166.1  | 154.1  | 143.1  | 135.0  | 132.0  | 134.0  | 140.0  | 146.1  |
| 60°    | 314.1  | 209.1  | 178.1  | 166.1  | 160.1  | 152.1  | 144.1  | 142.1  | 143.1  | 149.1  | 156.1  |
| 62.5°  | 246.1  | 186.1  | 168.1  | 165.1  | 163.1  | 159.1  | 156.1  | 154.1  | 154.1  | 159.1  | 165.1  |
| 65°    | 200.1  | 168.1  | 160.1  | 161.1  | 163.1  | 162.1  | 161.1  | 160.1  | 160.1  | 163.1  | 169.1  |
| 67.5°  | 167.1  | 151.1  | 149.1  | 152.1  | 154.1  | 155.1  | 156.1  | 155.1  | 156.1  | 159.1  | 166.1  |
| 69°    | 152.1  | 142.1  | 140.0  | 142.1  | 146.1  | 147.1  | 149.1  | 148.1  | 149.1  | 152.1  | 159.1  |
| 70°    | 143.1  | 135.0  | 133.0  | 136.0  | 139.0  | 140.0  | 142.1  | 141.0  | 142.1  | 145.1  | 152.1  |
| 72.5°  | 124.0  | 115.0  | 112.0  | 114.0  | 117.0  | 117.0  | 120.0  | 121.0  | 119.0  | 120.0  | 125.0  |
| 75°    | 106.0  | 96.0   | 91.0   | 92.0   | 92.0   | 92.0   | 94.0   | 94.0   | 92.0   | 91.0   | 92.0   |
| 77.5°  | 89.0   | 78.0   | 72.0   | 72.0   | 72.0   | 71.0   | 68.0   | 69.0   | 70.0   | 69.0   | 70.0   |
| 80°    | 70.0   | 61.0   | 55.0   | 55.0   | 55.0   | 53.0   | 52.0   | 52.0   | 54.0   | 56.0   | 55.0   |
| 82.5°  | 54.0   | 45.0   | 42.0   | 41.0   | 41.0   | 39.0   | 39.0   | 41.0   | 40.0   | 41.0   | 43.0   |
| 85°    | 39.0   | 32.0   | 29.0   | 30.0   | 29.0   | 27.0   | 28.0   | 31.0   | 31.0   | 30.0   | 32.0   |
| 87.5°  | 24.0   | 20.0   | 19.0   | 20.0   | 18.0   | 15.0   | 14.0   | 15.0   | 17.0   | 16.0   | 18.0   |
| 90°    | 12.0   | 11.0   | 11.0   | 10.0   | 10.0   | 9.0    | 9.0    | 9.5    | 11.0   | 11.0   | 10.0   |
| 92.5°  | 6.0    | 6.5    | 7.0    | 7.0    | 7.0    | 6.5    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |
| 95°    | 7.0    | 7.5    | 8.0    | 7.5    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    |
| 97.5°  | 9.0    | 9.5    | 10.0   | 11.0   | 12.0   | 10.5   | 9.0    | 9.0    | 9.0    | 8.5    | 8.0    |
| 100°   | 23.0   | 24.5   | 26.0   | 27.5   | 29.0   | 25.0   | 21.0   | 16.5   | 12.0   | 11.0   | 10.0   |
| 102.5° | 42.0   | 44.5   | 47.0   | 48.5   | 50.0   | 45.0   | 40.0   | 33.5   | 27.0   | 22.5   | 18.0   |
| 105°   | 65.0   | 67.5   | 70.0   | 71.0   | 72.0   | 67.5   | 63.0   | 55.5   | 48.0   | 42.0   | 36.0   |
| 107.5° | 90.0   | 92.0   | 94.0   | 94.5   | 95.0   | 91.5   | 88.0   | 80.5   | 73.0   | 65.5   | 58.0   |



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 105°  | 110°  | 115°  | 120°  | 125°  | 130°  | 135°  | 140°  | 145°  | 150°  | 155°  |        |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110°   | 119.0 | 120.0 | 121.0 | 120.5 | 120.0 | 117.0 | 114.0 | 108.0 | 102.0 | 94.5  | 87.0  | 0°     |
| 112.5° | 149.0 | 149.5 | 150.0 | 149.0 | 148.0 | 145.5 | 143.0 | 138.5 | 134.0 | 127.5 | 121.0 | 2.5°   |
| 115°   | 179.0 | 180.5 | 182.0 | 180.5 | 179.0 | 176.5 | 174.0 | 171.0 | 168.0 | 163.5 | 159.0 | 5°     |
| 117.5° | 210.0 | 212.5 | 215.0 | 213.0 | 211.0 | 208.0 | 205.0 | 203.5 | 202.0 | 199.5 | 197.0 | 7.5°   |
| 120°   | 245.0 | 247.5 | 250.0 | 248.0 | 246.0 | 244.5 | 243.0 | 240.0 | 237.0 | 235.0 | 233.0 | 10°    |
| 122.5° | 278.0 | 280.5 | 283.0 | 281.0 | 279.0 | 278.0 | 277.0 | 274.0 | 271.0 | 269.0 | 267.0 | 12.5°  |
| 125°   | 310.0 | 312.5 | 315.0 | 314.0 | 313.0 | 311.5 | 310.0 | 307.5 | 305.0 | 302.0 | 299.0 | 15°    |
| 127.5° | 346.0 | 346.0 | 346.0 | 345.5 | 345.0 | 342.5 | 340.0 | 339.5 | 339.0 | 336.0 | 333.0 | 17.5°  |
| 130°   | 381.0 | 381.0 | 381.0 | 379.0 | 377.0 | 374.5 | 372.0 | 371.0 | 370.0 | 368.0 | 366.0 | 20°    |
| 132.5° | 414.0 | 415.0 | 416.0 | 413.5 | 411.0 | 408.0 | 405.0 | 404.5 | 404.0 | 402.5 | 401.0 | 22.5°  |
| 135°   | 447.0 | 447.5 | 448.0 | 445.5 | 443.0 | 440.0 | 437.0 | 436.0 | 435.0 | 433.5 | 432.0 | 25°    |
| 137.5° | 476.0 | 475.5 | 475.0 | 474.0 | 473.0 | 470.5 | 468.0 | 466.0 | 464.0 | 462.0 | 460.0 | 27.5°  |
| 140°   | 504.0 | 503.0 | 502.0 | 501.0 | 500.0 | 498.5 | 497.0 | 494.0 | 491.0 | 490.0 | 489.0 | 30°    |
| 142.5° | 533.0 | 533.0 | 533.0 | 530.0 | 527.0 | 526.0 | 525.0 | 523.0 | 521.0 | 519.5 | 518.0 | 32.5°  |
| 145°   | 561.0 | 561.5 | 562.0 | 559.0 | 556.0 | 553.5 | 551.0 | 550.5 | 550.0 | 548.5 | 547.0 | 35°    |
| 147.5° | 586.0 | 585.5 | 585.0 | 582.5 | 580.0 | 577.5 | 575.0 | 574.5 | 574.0 | 574.0 | 574.0 | 37.5°  |
| 150°   | 603.0 | 601.5 | 600.0 | 598.5 | 597.0 | 595.0 | 593.0 | 593.0 | 593.0 | 593.0 | 593.0 | 40°    |
| 152.5° | 618.0 | 616.0 | 614.0 | 612.5 | 611.0 | 610.5 | 610.0 | 610.0 | 610.0 | 609.5 | 609.0 | 42.5°  |
| 155°   | 636.0 | 633.5 | 631.0 | 628.5 | 626.0 | 627.0 | 628.0 | 629.0 | 630.0 | 628.5 | 627.0 | 45°    |
| 157.5° | 650.0 | 649.0 | 648.0 | 646.0 | 644.0 | 644.5 | 645.0 | 645.5 | 646.0 | 645.0 | 644.0 | 47.5°  |
| 160°   | 661.0 | 662.5 | 664.0 | 661.0 | 658.0 | 656.5 | 655.0 | 655.0 | 655.0 | 655.5 | 656.0 | 50°    |
| 162.5° | 670.0 | 670.5 | 671.0 | 669.0 | 667.0 | 665.0 | 663.0 | 662.0 | 661.0 | 663.0 | 665.0 | 52.5°  |
| 165°   | 680.0 | 678.5 | 677.0 | 674.5 | 672.0 | 672.5 | 673.0 | 673.0 | 673.0 | 674.5 | 676.0 | 55°    |
| 167.5° | 688.0 | 686.0 | 684.0 | 681.0 | 678.0 | 681.5 | 685.0 | 686.5 | 688.0 | 687.0 | 686.0 | 57.5°  |
| 170°   | 694.0 | 691.5 | 689.0 | 687.5 | 686.0 | 688.5 | 691.0 | 692.0 | 693.0 | 692.5 | 692.0 | 60°    |
| 172.5° | 694.0 | 693.0 | 692.0 | 690.5 | 689.0 | 689.5 | 690.0 | 690.0 | 690.0 | 691.5 | 693.0 | 62.5°  |
| 175°   | 696.0 | 695.5 | 695.0 | 692.5 | 690.0 | 690.0 | 690.0 | 690.5 | 691.0 | 693.0 | 695.0 | 65°    |
| 177.5° | 701.0 | 700.0 | 699.0 | 696.5 | 694.0 | 694.5 | 695.0 | 696.0 | 697.0 | 698.0 | 699.0 | 67.5°  |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 69°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 70°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 72.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 75°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 77.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 80°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 82.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 85°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 87.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 90°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 92.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 95°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 97.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 100°   |
|        |       |       |       |       |       |       |       |       |       |       |       | 102.5° |
|        |       |       |       |       |       |       |       |       |       |       |       | 105°   |
|        |       |       |       |       |       |       |       |       |       |       |       | 107.5° |

NUMBER: P227033  
 NUMBER: ISW-AF-1200-LED-E1-SL4-7050-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

| 160°   | 165°   | 170°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|
| 1032.4 | 1032.4 | 1032.4 | 1032.4 | 1032.4 |
| 960.3  | 963.3  | 950.3  | 956.3  | 952.3  |
| 855.3  | 850.3  | 849.3  | 846.3  | 840.3  |
| 732.3  | 728.3  | 716.3  | 720.3  | 711.3  |
| 605.2  | 604.2  | 582.2  | 583.2  | 572.2  |
| 488.2  | 470.2  | 461.2  | 448.2  | 455.2  |
| 378.1  | 363.1  | 344.1  | 339.1  | 346.1  |
| 285.1  | 270.1  | 261.1  | 253.1  | 250.1  |
| 236.1  | 227.1  | 222.1  | 219.1  | 217.1  |
| 228.1  | 226.1  | 225.1  | 223.1  | 222.1  |
| 223.1  | 225.1  | 225.1  | 225.1  | 223.1  |
| 218.1  | 222.1  | 223.1  | 222.1  | 220.1  |
| 213.1  | 216.1  | 216.1  | 215.1  | 212.1  |
| 206.1  | 209.1  | 209.1  | 208.1  | 206.1  |
| 198.1  | 200.1  | 201.1  | 201.1  | 202.1  |
| 192.1  | 194.1  | 196.1  | 198.1  | 201.1  |
| 185.1  | 188.1  | 189.1  | 193.1  | 197.1  |
| 176.1  | 180.1  | 182.1  | 185.1  | 189.1  |
| 167.1  | 172.1  | 173.1  | 177.1  | 181.1  |
| 163.1  | 167.1  | 167.1  | 170.1  | 173.1  |
| 158.1  | 160.1  | 159.1  | 161.1  | 162.1  |
| 153.1  | 155.1  | 154.1  | 156.1  | 157.1  |
| 149.1  | 151.1  | 153.1  | 155.1  | 156.1  |
| 151.1  | 154.1  | 155.1  | 158.1  | 159.1  |
| 160.1  | 164.1  | 168.1  | 172.1  | 175.1  |
| 169.1  | 174.1  | 183.1  | 201.1  | 208.1  |
| 174.1  | 181.1  | 202.1  | 233.1  | 242.1  |
| 171.1  | 180.1  | 205.1  | 238.1  | 249.1  |
| 165.1  | 172.1  | 199.1  | 233.1  | 243.1  |
| 157.1  | 164.1  | 191.1  | 228.1  | 237.1  |
| 127.0  | 131.0  | 161.1  | 196.1  | 202.1  |
| 93.0   | 96.0   | 119.0  | 133.0  | 132.0  |
| 72.0   | 76.0   | 84.0   | 85.0   | 84.0   |
| 57.0   | 59.0   | 63.0   | 63.0   | 64.0   |
| 44.0   | 45.0   | 47.0   | 45.0   | 44.0   |
| 33.0   | 32.0   | 31.0   | 30.0   | 29.0   |
| 19.0   | 19.0   | 16.0   | 14.0   | 13.0   |
| 9.5    | 10.0   | 9.0    | 7.0    | 5.0    |
| 5.5    | 5.0    | 4.5    | 4.0    | 4.0    |
| 6.5    | 6.0    | 5.5    | 5.0    | 5.0    |
| 8.0    | 8.0    | 7.5    | 7.0    | 7.0    |
| 9.5    | 9.0    | 8.5    | 8.0    | 8.0    |
| 15.5   | 13.0   | 12.0   | 11.0   | 11.0   |
| 31.5   | 27.0   | 24.5   | 22.0   | 21.0   |
| 53.5   | 49.0   | 45.5   | 42.0   | 41.0   |

**CANDELA DISTRIBUTION:**

|        | 160°  |
|--------|-------|
| 110°   | 80.5  |
| 112.5° | 113.5 |
| 115°   | 153.0 |
| 117.5° | 193.0 |
| 120°   | 229.5 |
| 122.5° | 264.0 |
| 125°   | 297.5 |
| 127.5° | 331.0 |
| 130°   | 364.0 |
| 132.5° | 397.0 |
| 135°   | 429.0 |
| 137.5° | 459.5 |
| 140°   | 488.0 |
| 142.5° | 517.5 |
| 145°   | 545.5 |
| 147.5° | 572.5 |
| 150°   | 593.0 |
| 152.5° | 608.5 |
| 155°   | 626.0 |
| 157.5° | 643.5 |
| 160°   | 657.5 |
| 162.5° | 667.0 |
| 165°   | 676.0 |
| 167.5° | 685.0 |
| 170°   | 692.0 |
| 172.5° | 694.0 |
| 175°   | 696.0 |
| 177.5° | 699.5 |
| 180°   | 700.0 |

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ISW-AF-1200-LED-E1-SL4-7050-ULG

**TION (continued):**

| 165°  | 170°  | 175°  | 180°  |
|-------|-------|-------|-------|
| 74.0  | 71.0  | 68.0  | 66.0  |
| 106.0 | 102.5 | 99.0  | 99.0  |
| 147.0 | 143.0 | 139.0 | 140.0 |
| 189.0 | 186.5 | 184.0 | 184.0 |
| 226.0 | 224.5 | 223.0 | 225.0 |
| 261.0 | 260.5 | 260.0 | 263.0 |
| 296.0 | 295.0 | 294.0 | 298.0 |
| 329.0 | 329.0 | 329.0 | 330.0 |
| 362.0 | 361.5 | 361.0 | 363.0 |
| 393.0 | 393.5 | 394.0 | 396.0 |
| 426.0 | 426.0 | 426.0 | 429.0 |
| 459.0 | 458.0 | 457.0 | 460.0 |
| 487.0 | 486.0 | 485.0 | 488.0 |
| 517.0 | 516.0 | 515.0 | 518.0 |
| 544.0 | 545.0 | 546.0 | 550.0 |
| 571.0 | 571.5 | 572.0 | 575.0 |
| 593.0 | 592.5 | 592.0 | 595.0 |
| 608.0 | 608.0 | 608.0 | 611.0 |
| 625.0 | 625.0 | 625.0 | 629.0 |
| 643.0 | 643.0 | 643.0 | 646.0 |
| 659.0 | 659.5 | 660.0 | 663.0 |
| 669.0 | 669.0 | 669.0 | 673.0 |
| 676.0 | 677.0 | 678.0 | 681.0 |
| 684.0 | 685.5 | 687.0 | 690.0 |
| 692.0 | 693.5 | 695.0 | 698.0 |
| 695.0 | 696.0 | 697.0 | 699.0 |
| 697.0 | 697.5 | 698.0 | 700.0 |
| 700.0 | 702.5 | 705.0 | 707.0 |
| 700.0 | 700.0 | 700.0 | 700.0 |

(END OF REPORT)