

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: P226974

Luminaire Tested: **IST-AF-1000-LED-E1-SL3-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226974  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35946)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: IST-AF-1000-LED-E1-SL3-7030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 3000K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6812.4 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 II - Short - Non-Cutoff  
BUG Rating: B1 - U5 - G1  
  
Input Watts (W): 71.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

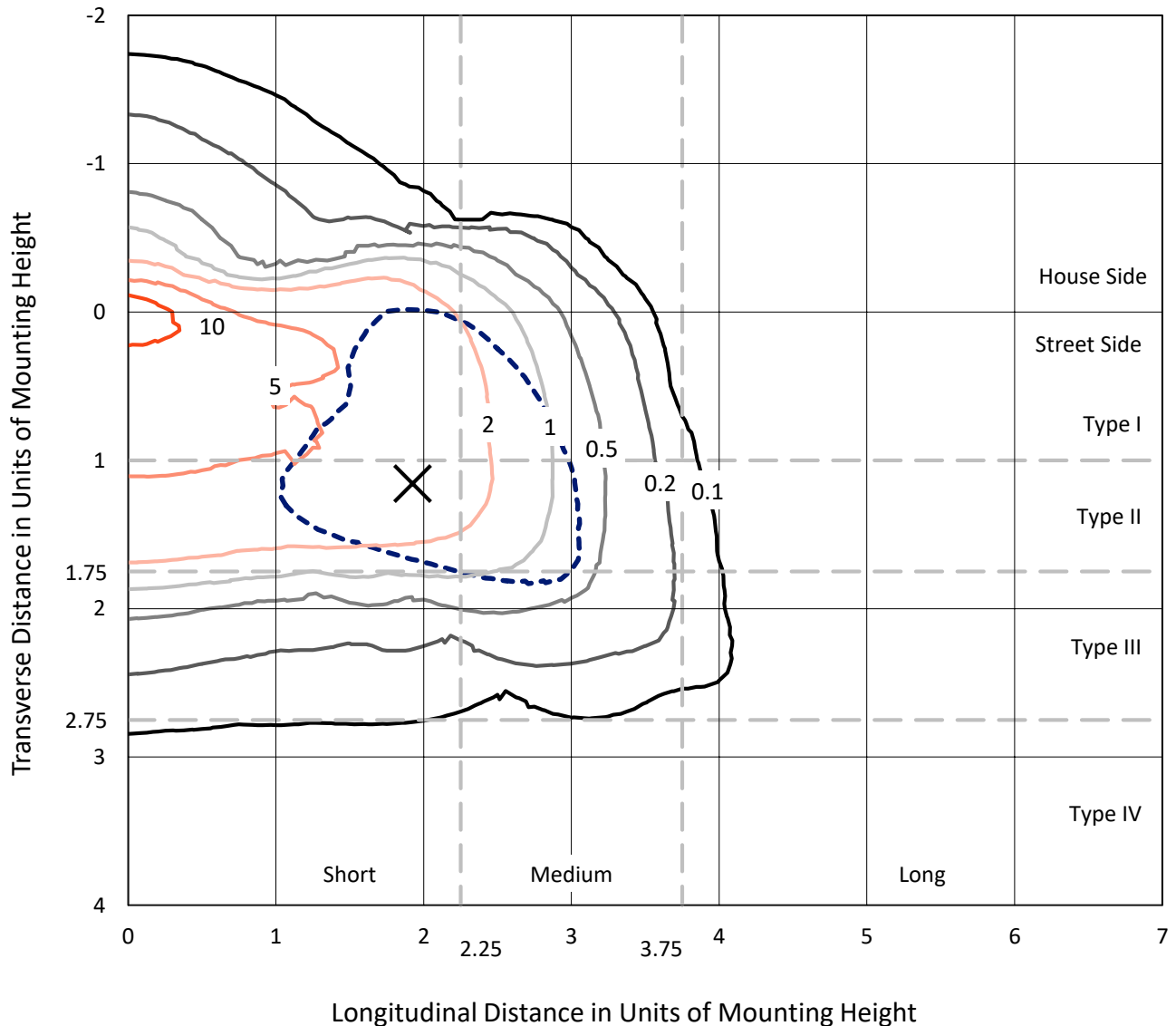


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

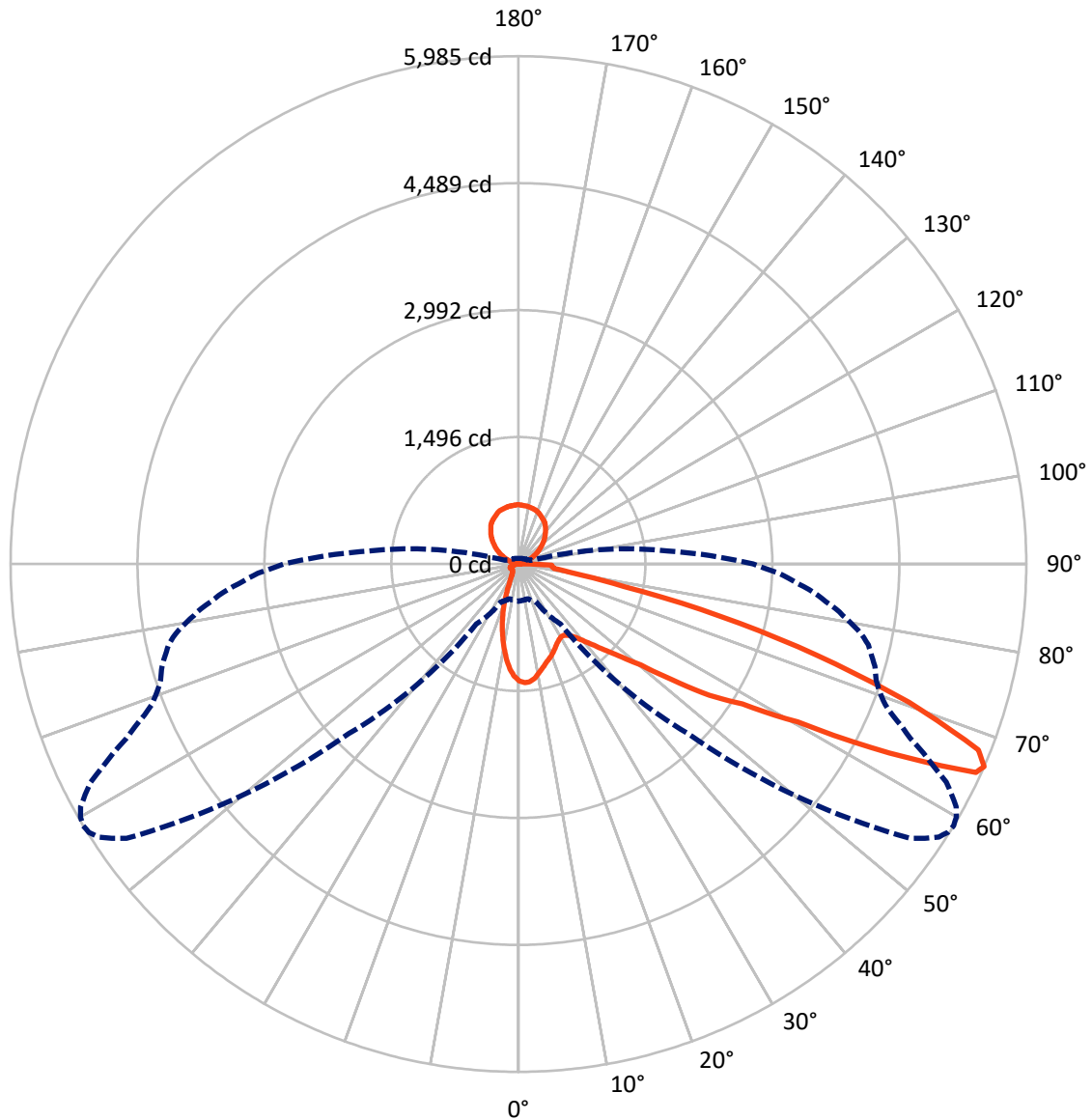


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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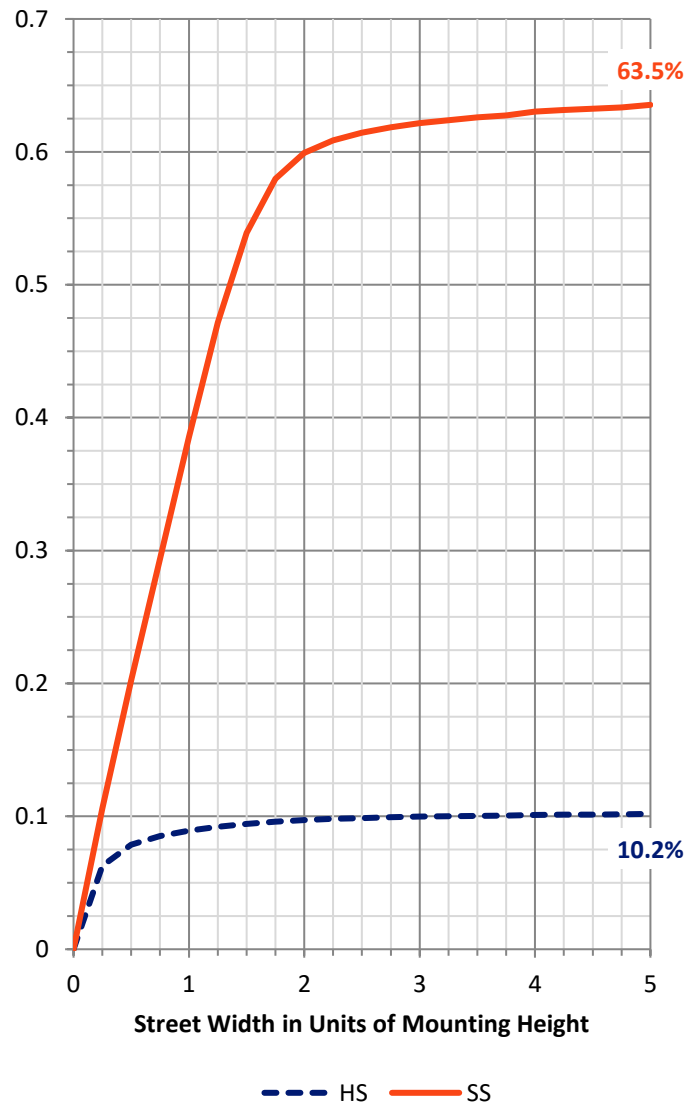
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 704.8    | 867.9  | 1572.7 |
|                    | % Fixture | 10.3     | 12.7   | 23.1   |
| <b>Street Side</b> | Lumens    | 4370.3   | 869.4  | 5239.7 |
|                    | % Fixture | 64.2     | 12.8   | 76.9   |
| <b>Total</b>       | Lumens    | 5075.1   | 1737.3 | 6812.4 |
|                    | % Fixture | 74.5     | 25.5   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 117.5  | 1.7       |
| 10°-20°   | 248.3  | 3.6       |
| 20°-30°   | 311.5  | 4.6       |
| 30°-40°   | 426.2  | 6.3       |
| 40°-50°   | 685.6  | 10.1      |
| 50°-60°   | 1191.3 | 17.5      |
| 60°-70°   | 1447.4 | 21.2      |
| 70°-80°   | 540.0  | 7.9       |
| 80°-90°   | 107.2  | 1.6       |
| 90°-100°  | 11.4   | 0.2       |
| 100°-110° | 57.4   | 0.8       |
| 110°-120° | 166.1  | 2.4       |
| 120°-130° | 273.2  | 4.0       |
| 130°-140° | 336.8  | 4.9       |
| 140°-150° | 344.6  | 5.1       |
| 150°-160° | 290.3  | 4.3       |
| 160°-170° | 191.2  | 2.8       |
| 170°-180° | 66.3   | 1.0       |
| 0°-90°    | 5075.1 | 74.5      |
| 0°-180°   | 6812.4 | 100.0     |



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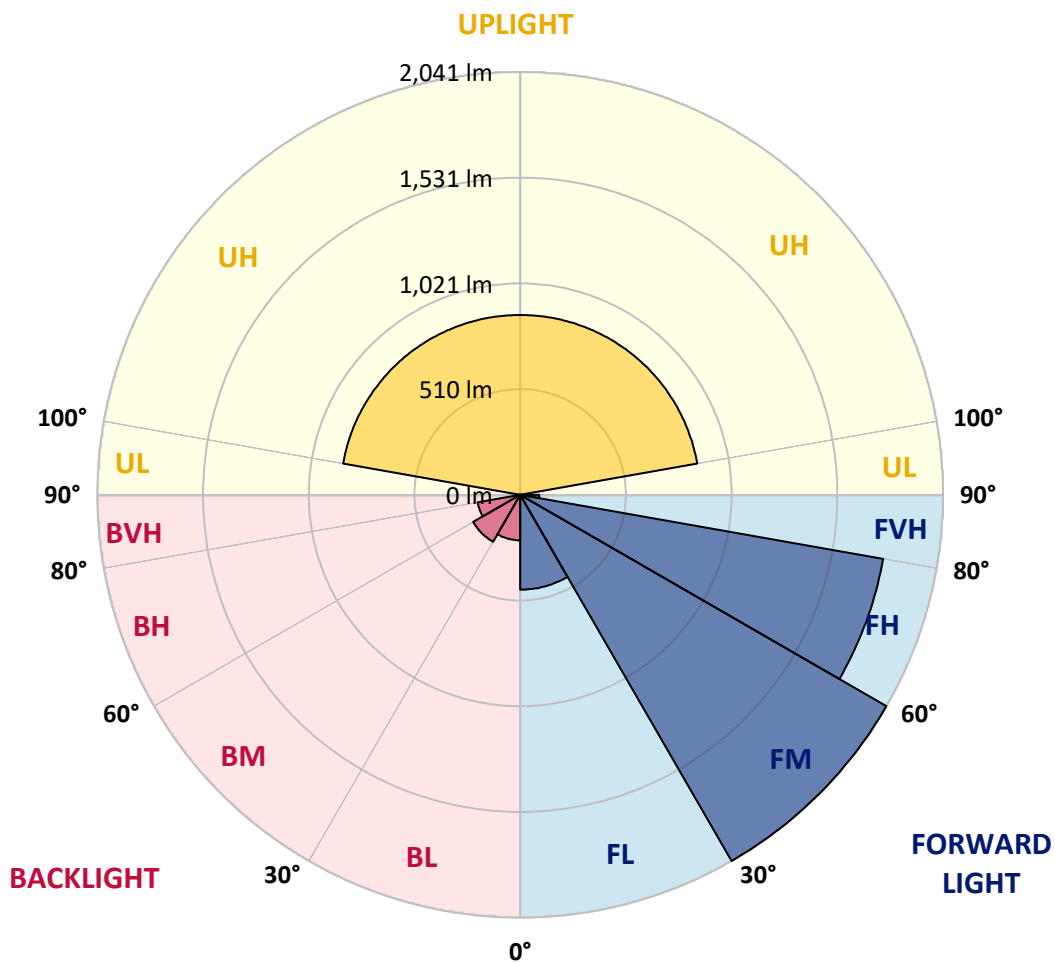
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 457.8  | 6.7       |                         |         |         |
| FM   | (30°-60°)   | 2041.2 | 30.0      |                         |         |         |
| FH   | (60°-80°)   | 1779.1 | 26.1      |                         |         | G1/1800 |
| FVH  | (80°-90°)   | 92.1   | 1.4       |                         |         | G1/100  |
| BL   | (0°-30°)    | 219.6  | 3.2       | B1/500                  |         |         |
| BM   | (30°-60°)   | 261.9  | 3.8       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 208.3  | 3.1       | B1/500                  |         | G1/500  |
| BVH  | (80°-90°)   | 15.1   | 0.2       |                         |         | G1/100  |
| UL   | (90°-100°)  | 11.4   | 0.2       |                         | U2/50   |         |
| UH   | (100°-180°) | 867.9  | 12.7      |                         | U4/1000 |         |

**BUG Rating: B1-U5-G1**

Type II Short





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CATALOG NUMBER: IST-AF-1000-LED-E1-SL3-7030-ULG

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 |
| 2.5°   | 1414.9 | 1410.2 | 1418.8 | 1415.6 | 1418.0 | 1406.3 | 1404.0 | 1401.6 | 1403.2 | 1400.9 | 1400.9 |
| 5°     | 1381.4 | 1379.1 | 1389.2 | 1394.6 | 1399.3 | 1397.7 | 1397.0 | 1397.0 | 1397.7 | 1392.3 | 1393.1 |
| 7.5°   | 1283.3 | 1281.8 | 1295.8 | 1305.9 | 1328.5 | 1341.7 | 1358.8 | 1359.6 | 1361.2 | 1358.8 | 1363.5 |
| 10°    | 1179.1 | 1183.7 | 1196.2 | 1212.5 | 1246.0 | 1266.2 | 1298.9 | 1305.1 | 1307.5 | 1308.2 | 1309.0 |
| 12.5°  | 1079.4 | 1074.8 | 1090.3 | 1121.5 | 1166.6 | 1199.3 | 1240.5 | 1243.6 | 1247.5 | 1253.0 | 1258.4 |
| 15°    | 990.7  | 996.2  | 1008.6 | 1041.3 | 1088.8 | 1134.7 | 1188.4 | 1191.5 | 1199.3 | 1204.0 | 1211.7 |
| 17.5°  | 930.0  | 930.0  | 944.0  | 974.4  | 1018.7 | 1077.1 | 1144.8 | 1150.3 | 1156.5 | 1162.7 | 1171.3 |
| 20°    | 899.7  | 899.7  | 905.1  | 923.0  | 961.9  | 1018.0 | 1099.7 | 1105.9 | 1116.8 | 1123.8 | 1135.5 |
| 22.5°  | 897.3  | 896.5  | 895.8  | 899.7  | 923.0  | 966.6  | 1051.4 | 1060.0 | 1069.3 | 1080.2 | 1090.3 |
| 25°    | 922.2  | 924.6  | 915.2  | 909.0  | 911.3  | 931.6  | 1005.5 | 1010.2 | 1028.1 | 1035.1 | 1047.5 |
| 27.5°  | 958.0  | 961.9  | 954.1  | 944.8  | 930.8  | 917.6  | 966.6  | 974.4  | 986.0  | 997.7  | 1013.3 |
| 30°    | 1009.4 | 1008.6 | 1007.8 | 1001.6 | 974.4  | 933.1  | 954.9  | 960.4  | 970.5  | 979.8  | 993.0  |
| 32.5°  | 1064.6 | 1070.9 | 1075.5 | 1072.4 | 1044.4 | 974.4  | 971.3  | 975.9  | 985.3  | 990.7  | 999.3  |
| 35°    | 1136.2 | 1139.4 | 1157.3 | 1157.3 | 1129.2 | 1048.3 | 1017.2 | 1021.1 | 1025.7 | 1028.1 | 1034.3 |
| 37.5°  | 1214.9 | 1225.7 | 1252.2 | 1267.8 | 1224.2 | 1140.1 | 1089.6 | 1089.6 | 1091.9 | 1093.4 | 1097.3 |
| 40°    | 1305.9 | 1321.5 | 1358.0 | 1387.6 | 1359.6 | 1254.5 | 1184.5 | 1191.5 | 1189.2 | 1186.1 | 1194.6 |
| 42.5°  | 1411.7 | 1428.9 | 1473.2 | 1501.2 | 1484.9 | 1392.3 | 1312.1 | 1307.5 | 1314.5 | 1305.1 | 1308.2 |
| 45°    | 1534.7 | 1547.9 | 1593.1 | 1622.7 | 1635.9 | 1561.2 | 1479.5 | 1470.1 | 1470.1 | 1449.9 | 1458.4 |
| 47.5°  | 1645.2 | 1649.1 | 1692.7 | 1744.8 | 1787.6 | 1789.2 | 1674.0 | 1667.8 | 1653.0 | 1639.8 | 1636.7 |
| 50°    | 1748.0 | 1759.6 | 1787.6 | 1844.5 | 1934.0 | 2011.8 | 1941.7 | 1922.3 | 1905.9 | 1856.9 | 1871.7 |
| 52.5°  | 1926.2 | 1948.7 | 1966.6 | 2000.9 | 2106.7 | 2264.7 | 2351.1 | 2320.7 | 2316.9 | 2272.5 | 2262.4 |
| 55°    | 1959.6 | 1962.0 | 2021.1 | 2218.8 | 2467.8 | 2581.5 | 2747.2 | 2746.5 | 2758.9 | 2744.9 | 2731.7 |
| 57.5°  | 1802.4 | 1783.8 | 1882.6 | 2143.3 | 2643.7 | 3227.4 | 3176.8 | 3182.3 | 3165.9 | 3123.1 | 3109.9 |
| 60°    | 1404.0 | 1419.5 | 1526.2 | 1858.5 | 2516.9 | 3644.6 | 3978.4 | 3879.6 | 3950.4 | 3839.1 | 3779.2 |
| 62.5°  | 789.9  | 772.0  | 844.4  | 1193.8 | 2064.7 | 3666.3 | 5070.3 | 5081.2 | 5115.4 | 5053.2 | 4906.9 |
| 65°    | 509.8  | 502.0  | 495.0  | 603.9  | 1237.4 | 3207.2 | 5674.2 | 5808.1 | 5888.3 | 5920.9 | 5923.3 |
| 66°    | 438.2  | 431.9  | 423.4  | 494.2  | 862.3  | 2825.8 | 5635.3 | 5778.5 | 5906.2 | 5966.9 | 5984.8 |
| 67.5°  | 372.8  | 363.4  | 361.9  | 409.4  | 600.0  | 2192.3 | 5264.1 | 5489.0 | 5601.9 | 5759.1 | 5844.7 |
| 70°    | 284.8  | 280.2  | 294.2  | 353.3  | 460.7  | 1032.0 | 4194.8 | 4488.2 | 4682.7 | 4805.7 | 4885.1 |
| 72.5°  | 238.9  | 237.4  | 256.8  | 323.0  | 436.6  | 585.2  | 2936.3 | 3251.5 | 3454.7 | 3572.2 | 3681.1 |
| 75°    | 186.8  | 188.3  | 214.0  | 308.2  | 434.3  | 509.8  | 1705.9 | 2006.3 | 2124.6 | 2309.9 | 2451.5 |
| 77.5°  | 140.1  | 138.5  | 158.8  | 249.0  | 423.4  | 516.8  | 886.4  | 1010.9 | 1140.9 | 1235.1 | 1269.3 |
| 80°    | 98.1   | 99.6   | 113.6  | 171.2  | 330.0  | 531.5  | 552.6  | 581.4  | 608.6  | 638.9  | 645.2  |
| 82.5°  | 65.4   | 66.2   | 84.1   | 117.5  | 228.8  | 507.4  | 516.0  | 502.8  | 481.7  | 455.3  | 426.5  |
| 85°    | 39.7   | 41.2   | 59.9   | 79.4   | 177.4  | 459.2  | 533.9  | 498.9  | 467.0  | 431.9  | 396.9  |
| 87.5°  | 20.2   | 22.6   | 35.8   | 46.7   | 105.1  | 226.5  | 555.7  | 530.0  | 486.4  | 432.7  | 393.8  |
| 90°    | 10.4   | 10.4   | 14.8   | 19.7   | 29.0   | 52.9   | 147.1  | 133.3  | 70.4   | 127.5  | 66.9   |
| 92.5°  | 4.0    | 4.0    | 5.0    | 6.0    | 6.0    | 6.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    |
| 95°    | 5.0    | 5.0    | 6.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.1    | 7.2    | 7.3    | 7.4    |
| 97.5°  | 7.0    | 7.0    | 8.0    | 8.0    | 9.0    | 9.0    | 12.0   | 11.8   | 11.6   | 11.4   | 11.2   |
| 100°   | 8.0    | 8.0    | 9.0    | 10.0   | 12.0   | 21.0   | 29.0   | 28.7   | 28.4   | 28.1   | 27.8   |
| 102.5° | 11.0   | 11.0   | 13.0   | 18.0   | 27.0   | 40.0   | 50.0   | 49.7   | 49.4   | 49.1   | 48.8   |
| 105°   | 21.0   | 22.0   | 27.0   | 36.0   | 48.0   | 63.0   | 72.0   | 71.8   | 71.6   | 71.4   | 71.2   |
| 107.5° | 41.0   | 42.0   | 49.0   | 58.0   | 73.0   | 88.0   | 95.0   | 94.9   | 94.8   | 94.7   | 94.6   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 56°   | 57°   | 58°   | 59°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 66.0  | 68.0  | 74.0  | 87.0  | 102.0 | 114.0 | 120.0 | 120.1 | 120.2 | 120.3 | 120.4 |
| 112.5° | 99.0  | 99.0  | 106.0 | 121.0 | 134.0 | 143.0 | 148.0 | 148.2 | 148.4 | 148.6 | 148.8 |
| 115°   | 140.0 | 139.0 | 147.0 | 159.0 | 168.0 | 174.0 | 179.0 | 179.3 | 179.6 | 179.9 | 180.2 |
| 117.5° | 184.0 | 184.0 | 189.0 | 197.0 | 202.0 | 205.0 | 211.0 | 211.4 | 211.8 | 212.2 | 212.6 |
| 120°   | 225.0 | 223.0 | 226.0 | 233.0 | 237.0 | 243.0 | 246.0 | 246.4 | 246.8 | 247.2 | 247.6 |
| 122.5° | 263.0 | 260.0 | 261.0 | 267.0 | 271.0 | 277.0 | 279.0 | 279.4 | 279.8 | 280.2 | 280.6 |
| 125°   | 298.0 | 294.0 | 296.0 | 299.0 | 305.0 | 310.0 | 313.0 | 313.2 | 313.4 | 313.6 | 313.8 |
| 127.5° | 330.0 | 329.0 | 329.0 | 333.0 | 339.0 | 340.0 | 345.0 | 345.1 | 345.2 | 345.3 | 345.4 |
| 130°   | 363.0 | 361.0 | 362.0 | 366.0 | 370.0 | 372.0 | 377.0 | 377.4 | 377.8 | 378.2 | 378.6 |
| 132.5° | 396.0 | 394.0 | 393.0 | 401.0 | 404.0 | 405.0 | 411.0 | 411.5 | 412.0 | 412.5 | 413.0 |
| 135°   | 429.0 | 426.0 | 426.0 | 432.0 | 435.0 | 437.0 | 443.0 | 443.5 | 444.0 | 444.5 | 445.0 |
| 137.5° | 460.0 | 457.0 | 459.0 | 460.0 | 464.0 | 468.0 | 473.0 | 473.2 | 473.4 | 473.6 | 473.8 |
| 140°   | 488.0 | 485.0 | 487.0 | 489.0 | 491.0 | 497.0 | 500.0 | 500.2 | 500.4 | 500.6 | 500.8 |
| 142.5° | 518.0 | 515.0 | 517.0 | 518.0 | 521.0 | 525.0 | 527.0 | 527.6 | 528.2 | 528.8 | 529.4 |
| 145°   | 550.0 | 546.0 | 544.0 | 547.0 | 550.0 | 551.0 | 556.0 | 556.6 | 557.2 | 557.8 | 558.4 |
| 147.5° | 575.0 | 572.0 | 571.0 | 574.0 | 574.0 | 575.0 | 580.0 | 580.5 | 581.0 | 581.5 | 582.0 |
| 150°   | 595.0 | 592.0 | 593.0 | 593.0 | 593.0 | 593.0 | 597.0 | 597.3 | 597.6 | 597.9 | 598.2 |
| 152.5° | 611.0 | 608.0 | 608.0 | 609.0 | 610.0 | 610.0 | 611.0 | 611.3 | 611.6 | 611.9 | 612.2 |
| 155°   | 629.0 | 625.0 | 625.0 | 627.0 | 630.0 | 628.0 | 626.0 | 626.5 | 627.0 | 627.5 | 628.0 |
| 157.5° | 646.0 | 643.0 | 643.0 | 644.0 | 646.0 | 645.0 | 644.0 | 644.4 | 644.8 | 645.2 | 645.6 |
| 160°   | 663.0 | 660.0 | 659.0 | 656.0 | 655.0 | 655.0 | 658.0 | 658.6 | 659.2 | 659.8 | 660.4 |
| 162.5° | 673.0 | 669.0 | 669.0 | 665.0 | 661.0 | 663.0 | 667.0 | 667.4 | 667.8 | 668.2 | 668.6 |
| 165°   | 681.0 | 678.0 | 676.0 | 676.0 | 673.0 | 673.0 | 672.0 | 672.5 | 673.0 | 673.5 | 674.0 |
| 167.5° | 690.0 | 687.0 | 684.0 | 686.0 | 688.0 | 685.0 | 678.0 | 678.6 | 679.2 | 679.8 | 680.4 |
| 170°   | 698.0 | 695.0 | 692.0 | 692.0 | 693.0 | 691.0 | 686.0 | 686.3 | 686.6 | 686.9 | 687.2 |
| 172.5° | 699.0 | 697.0 | 695.0 | 693.0 | 690.0 | 690.0 | 689.0 | 689.3 | 689.6 | 689.9 | 690.2 |
| 175°   | 700.0 | 698.0 | 697.0 | 695.0 | 691.0 | 690.0 | 690.0 | 690.5 | 691.0 | 691.5 | 692.0 |
| 177.5° | 707.0 | 705.0 | 700.0 | 699.0 | 697.0 | 695.0 | 694.0 | 694.5 | 695.0 | 695.5 | 696.0 |
| 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):**

|        | 60°    | 61°    | 62°    | 63°    | 64°    | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 |
| 2.5°   | 1400.1 | 1401.6 | 1400.1 | 1397.7 | 1400.1 | 1397.7 | 1397.0 | 1396.2 | 1397.0 | 1395.4 | 1394.6 |
| 5°     | 1393.1 | 1394.6 | 1394.6 | 1390.0 | 1389.2 | 1392.3 | 1387.6 | 1389.2 | 1387.6 | 1386.1 | 1383.0 |
| 7.5°   | 1359.6 | 1360.4 | 1361.2 | 1358.0 | 1360.4 | 1360.4 | 1358.8 | 1358.8 | 1357.3 | 1358.0 | 1354.9 |
| 10°    | 1312.9 | 1316.0 | 1319.1 | 1317.6 | 1316.8 | 1323.8 | 1320.7 | 1323.0 | 1323.0 | 1320.7 | 1321.5 |
| 12.5°  | 1262.3 | 1267.8 | 1271.7 | 1271.7 | 1274.8 | 1282.6 | 1281.8 | 1283.3 | 1289.6 | 1289.6 | 1287.2 |
| 15°    | 1215.6 | 1221.1 | 1227.3 | 1232.0 | 1238.2 | 1243.6 | 1247.5 | 1253.8 | 1256.9 | 1256.9 | 1260.8 |
| 17.5°  | 1179.1 | 1186.8 | 1193.8 | 1196.2 | 1204.7 | 1214.1 | 1216.4 | 1224.2 | 1228.9 | 1231.2 | 1235.9 |
| 20°    | 1143.3 | 1151.8 | 1160.4 | 1168.2 | 1175.9 | 1186.8 | 1192.3 | 1197.0 | 1204.7 | 1209.4 | 1216.4 |
| 22.5°  | 1101.2 | 1114.5 | 1125.4 | 1134.7 | 1147.9 | 1157.3 | 1168.2 | 1175.9 | 1185.3 | 1192.3 | 1197.7 |
| 25°    | 1061.5 | 1079.4 | 1094.2 | 1103.6 | 1121.5 | 1134.7 | 1147.9 | 1159.6 | 1171.3 | 1181.4 | 1189.2 |
| 27.5°  | 1025.0 | 1045.2 | 1063.1 | 1077.9 | 1097.3 | 1118.3 | 1131.6 | 1151.0 | 1166.6 | 1180.6 | 1189.9 |
| 30°    | 1007.1 | 1024.2 | 1042.9 | 1060.0 | 1079.4 | 1105.9 | 1127.7 | 1152.6 | 1172.0 | 1189.9 | 1204.0 |
| 32.5°  | 1010.9 | 1026.5 | 1042.9 | 1057.6 | 1077.9 | 1107.5 | 1130.0 | 1158.8 | 1187.6 | 1211.0 | 1228.9 |
| 35°    | 1042.1 | 1056.1 | 1067.0 | 1080.2 | 1098.1 | 1120.7 | 1144.8 | 1175.2 | 1211.0 | 1242.1 | 1265.4 |
| 37.5°  | 1107.5 | 1111.3 | 1122.2 | 1132.4 | 1141.7 | 1162.7 | 1185.3 | 1211.0 | 1252.2 | 1284.9 | 1317.6 |
| 40°    | 1188.4 | 1198.5 | 1208.6 | 1213.3 | 1224.2 | 1237.4 | 1247.5 | 1274.8 | 1311.4 | 1354.2 | 1390.0 |
| 42.5°  | 1309.0 | 1312.9 | 1314.5 | 1316.0 | 1319.9 | 1329.3 | 1344.0 | 1368.9 | 1404.7 | 1442.9 | 1482.6 |
| 45°    | 1444.4 | 1449.1 | 1453.8 | 1456.1 | 1450.7 | 1456.1 | 1471.7 | 1483.3 | 1518.4 | 1554.2 | 1604.8 |
| 47.5°  | 1632.0 | 1618.0 | 1611.0 | 1620.3 | 1615.7 | 1627.3 | 1634.3 | 1641.3 | 1683.4 | 1726.2 | 1769.0 |
| 50°    | 1872.5 | 1863.9 | 1853.0 | 1853.8 | 1862.4 | 1854.6 | 1859.2 | 1884.9 | 1898.9 | 1934.7 | 1991.5 |
| 52.5°  | 2256.9 | 2230.5 | 2189.2 | 2171.3 | 2181.4 | 2175.2 | 2177.5 | 2183.0 | 2173.7 | 2207.1 | 2255.4 |
| 55°    | 2731.7 | 2697.4 | 2670.2 | 2654.6 | 2597.0 | 2592.4 | 2554.2 | 2540.2 | 2509.9 | 2541.8 | 2530.9 |
| 57.5°  | 3070.2 | 3048.4 | 3034.4 | 2987.7 | 2961.2 | 2908.3 | 2892.8 | 2874.1 | 2832.1 | 2853.1 | 2871.7 |
| 60°    | 3723.9 | 3646.1 | 3619.6 | 3537.9 | 3510.7 | 3460.1 | 3395.5 | 3363.6 | 3341.8 | 3362.0 | 3349.6 |
| 62.5°  | 4815.0 | 4706.9 | 4685.9 | 4492.1 | 4444.6 | 4327.9 | 4206.5 | 4190.1 | 4121.6 | 4078.8 | 4068.7 |
| 65°    | 5880.5 | 5725.6 | 5609.6 | 5398.0 | 5254.8 | 5088.2 | 4903.0 | 4767.6 | 4628.3 | 4558.2 | 4465.6 |
| 66°    | 5959.9 | 5898.4 | 5781.6 | 5657.9 | 5449.3 | 5267.2 | 5057.1 | 4910.8 | 4754.3 | 4631.4 | 4552.0 |
| 67.5°  | 5824.4 | 5791.8 | 5750.5 | 5666.5 | 5535.7 | 5366.0 | 5166.8 | 4980.0 | 4791.7 | 4646.9 | 4520.1 |
| 70°    | 4923.2 | 4959.0 | 5005.7 | 4983.9 | 4909.2 | 4843.1 | 4667.2 | 4562.9 | 4421.2 | 4231.4 | 4153.5 |
| 72.5°  | 3716.2 | 3811.9 | 3779.2 | 3656.2 | 3598.6 | 3552.7 | 3488.9 | 3418.9 | 3215.7 | 3192.4 | 3100.6 |
| 75°    | 2390.8 | 2358.9 | 2379.9 | 2230.5 | 2128.5 | 2086.5 | 1934.7 | 1872.5 | 1719.9 | 1621.1 | 1545.6 |
| 77.5°  | 1260.0 | 1197.7 | 1149.5 | 1018.0 | 923.8  | 868.5  | 794.6  | 707.4  | 573.6  | 565.8  | 443.6  |
| 80°    | 584.5  | 537.0  | 493.4  | 447.5  | 401.6  | 340.9  | 295.7  | 241.3  | 213.2  | 182.9  | 170.4  |
| 82.5°  | 396.9  | 366.6  | 340.1  | 309.7  | 274.7  | 232.7  | 200.8  | 170.4  | 145.5  | 130.7  | 119.1  |
| 85°    | 359.6  | 326.9  | 297.3  | 259.2  | 222.6  | 187.6  | 153.3  | 126.9  | 103.5  | 90.3   | 82.5   |
| 87.5°  | 349.4  | 309.0  | 277.8  | 236.6  | 200.8  | 165.0  | 132.3  | 102.7  | 80.2   | 65.4   | 56.0   |
| 90°    | 52.4   | 55.7   | 42.6   | 41.3   | 22.8   | 26.9   | 22.2   | 16.8   | 17.6   | 15.2   | 16.0   |
| 92.5°  | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 6.9    | 6.8    | 6.7    | 6.6    | 6.5    |
| 95°    | 7.5    | 7.6    | 7.7    | 7.8    | 7.9    | 8.0    | 7.9    | 7.8    | 7.7    | 7.6    | 7.5    |
| 97.5°  | 11.0   | 10.8   | 10.6   | 10.4   | 10.2   | 10.0   | 9.9    | 9.8    | 9.7    | 9.6    | 9.5    |
| 100°   | 27.5   | 27.2   | 26.9   | 26.6   | 26.3   | 26.0   | 25.7   | 25.4   | 25.1   | 24.8   | 24.5   |
| 102.5° | 48.5   | 48.2   | 47.9   | 47.6   | 47.3   | 47.0   | 46.5   | 46.0   | 45.5   | 45.0   | 44.5   |
| 105°   | 71.0   | 70.8   | 70.6   | 70.4   | 70.2   | 70.0   | 69.5   | 69.0   | 68.5   | 68.0   | 67.5   |
| 107.5° | 94.5   | 94.4   | 94.3   | 94.2   | 94.1   | 94.0   | 93.6   | 93.2   | 92.8   | 92.4   | 92.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 60°   | 61°   | 62°   | 63°   | 64°   | 65°   | 66°   | 67°   | 68°   | 69°   | 70°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 120.5 | 120.6 | 120.7 | 120.8 | 120.9 | 121.0 | 120.8 | 120.6 | 120.4 | 120.2 | 120.0 |
| 112.5° | 149.0 | 149.2 | 149.4 | 149.6 | 149.8 | 150.0 | 149.9 | 149.8 | 149.7 | 149.6 | 149.5 |
| 115°   | 180.5 | 180.8 | 181.1 | 181.4 | 181.7 | 182.0 | 181.7 | 181.4 | 181.1 | 180.8 | 180.5 |
| 117.5° | 213.0 | 213.4 | 213.8 | 214.2 | 214.6 | 215.0 | 214.5 | 214.0 | 213.5 | 213.0 | 212.5 |
| 120°   | 248.0 | 248.4 | 248.8 | 249.2 | 249.6 | 250.0 | 249.5 | 249.0 | 248.5 | 248.0 | 247.5 |
| 122.5° | 281.0 | 281.4 | 281.8 | 282.2 | 282.6 | 283.0 | 282.5 | 282.0 | 281.5 | 281.0 | 280.5 |
| 125°   | 314.0 | 314.2 | 314.4 | 314.6 | 314.8 | 315.0 | 314.5 | 314.0 | 313.5 | 313.0 | 312.5 |
| 127.5° | 345.5 | 345.6 | 345.7 | 345.8 | 345.9 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 |
| 130°   | 379.0 | 379.4 | 379.8 | 380.2 | 380.6 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 |
| 132.5° | 413.5 | 414.0 | 414.5 | 415.0 | 415.5 | 416.0 | 415.8 | 415.6 | 415.4 | 415.2 | 415.0 |
| 135°   | 445.5 | 446.0 | 446.5 | 447.0 | 447.5 | 448.0 | 447.9 | 447.8 | 447.7 | 447.6 | 447.5 |
| 137.5° | 474.0 | 474.2 | 474.4 | 474.6 | 474.8 | 475.0 | 475.1 | 475.2 | 475.3 | 475.4 | 475.5 |
| 140°   | 501.0 | 501.2 | 501.4 | 501.6 | 501.8 | 502.0 | 502.2 | 502.4 | 502.6 | 502.8 | 503.0 |
| 142.5° | 530.0 | 530.6 | 531.2 | 531.8 | 532.4 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 |
| 145°   | 559.0 | 559.6 | 560.2 | 560.8 | 561.4 | 562.0 | 561.9 | 561.8 | 561.7 | 561.6 | 561.5 |
| 147.5° | 582.5 | 583.0 | 583.5 | 584.0 | 584.5 | 585.0 | 585.1 | 585.2 | 585.3 | 585.4 | 585.5 |
| 150°   | 598.5 | 598.8 | 599.1 | 599.4 | 599.7 | 600.0 | 600.3 | 600.6 | 600.9 | 601.2 | 601.5 |
| 152.5° | 612.5 | 612.8 | 613.1 | 613.4 | 613.7 | 614.0 | 614.4 | 614.8 | 615.2 | 615.6 | 616.0 |
| 155°   | 628.5 | 629.0 | 629.5 | 630.0 | 630.5 | 631.0 | 631.5 | 632.0 | 632.5 | 633.0 | 633.5 |
| 157.5° | 646.0 | 646.4 | 646.8 | 647.2 | 647.6 | 648.0 | 648.2 | 648.4 | 648.6 | 648.8 | 649.0 |
| 160°   | 661.0 | 661.6 | 662.2 | 662.8 | 663.4 | 664.0 | 663.7 | 663.4 | 663.1 | 662.8 | 662.5 |
| 162.5° | 669.0 | 669.4 | 669.8 | 670.2 | 670.6 | 671.0 | 670.9 | 670.8 | 670.7 | 670.6 | 670.5 |
| 165°   | 674.5 | 675.0 | 675.5 | 676.0 | 676.5 | 677.0 | 677.3 | 677.6 | 677.9 | 678.2 | 678.5 |
| 167.5° | 681.0 | 681.6 | 682.2 | 682.8 | 683.4 | 684.0 | 684.4 | 684.8 | 685.2 | 685.6 | 686.0 |
| 170°   | 687.5 | 687.8 | 688.1 | 688.4 | 688.7 | 689.0 | 689.5 | 690.0 | 690.5 | 691.0 | 691.5 |
| 172.5° | 690.5 | 690.8 | 691.1 | 691.4 | 691.7 | 692.0 | 692.2 | 692.4 | 692.6 | 692.8 | 693.0 |
| 175°   | 692.5 | 693.0 | 693.5 | 694.0 | 694.5 | 695.0 | 695.1 | 695.2 | 695.3 | 695.4 | 695.5 |
| 177.5° | 696.5 | 697.0 | 697.5 | 698.0 | 698.5 | 699.0 | 699.2 | 699.4 | 699.6 | 699.8 | 700.0 |
| 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):**

|        | 71°    | 72°    | 73°    | 74°    | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 |
| 2.5°   | 1393.1 | 1390.7 | 1393.1 | 1392.3 | 1389.2 | 1390.0 | 1390.7 | 1387.6 | 1386.1 | 1386.1 | 1385.3 |
| 5°     | 1380.6 | 1379.1 | 1380.6 | 1379.8 | 1375.2 | 1374.4 | 1374.4 | 1372.1 | 1368.9 | 1366.6 | 1365.1 |
| 7.5°   | 1351.0 | 1352.6 | 1351.8 | 1349.5 | 1347.2 | 1347.2 | 1344.8 | 1339.4 | 1336.3 | 1333.1 | 1330.0 |
| 10°    | 1317.6 | 1317.6 | 1318.4 | 1317.6 | 1313.7 | 1312.1 | 1309.0 | 1305.9 | 1306.7 | 1298.9 | 1292.7 |
| 12.5°  | 1288.0 | 1288.0 | 1287.2 | 1285.7 | 1283.3 | 1282.6 | 1282.6 | 1273.2 | 1270.9 | 1268.6 | 1261.5 |
| 15°    | 1260.0 | 1261.5 | 1261.5 | 1261.5 | 1257.7 | 1257.7 | 1253.8 | 1247.5 | 1247.5 | 1240.5 | 1233.5 |
| 17.5°  | 1238.2 | 1240.5 | 1239.8 | 1240.5 | 1241.3 | 1236.6 | 1229.6 | 1225.7 | 1221.1 | 1217.2 | 1207.8 |
| 20°    | 1219.5 | 1221.1 | 1221.9 | 1221.9 | 1219.5 | 1216.4 | 1210.2 | 1204.0 | 1200.8 | 1193.1 | 1181.4 |
| 22.5°  | 1202.4 | 1205.5 | 1206.3 | 1206.3 | 1203.2 | 1200.8 | 1194.6 | 1185.3 | 1179.1 | 1169.7 | 1158.8 |
| 25°    | 1195.4 | 1199.3 | 1197.0 | 1198.5 | 1195.4 | 1189.9 | 1181.4 | 1173.6 | 1164.3 | 1152.6 | 1140.9 |
| 27.5°  | 1197.7 | 1203.2 | 1201.6 | 1200.8 | 1197.0 | 1193.1 | 1182.2 | 1172.8 | 1161.9 | 1147.9 | 1133.1 |
| 30°    | 1211.7 | 1221.1 | 1217.2 | 1214.1 | 1213.3 | 1204.0 | 1193.8 | 1180.6 | 1168.2 | 1151.8 | 1134.7 |
| 32.5°  | 1238.2 | 1242.9 | 1243.6 | 1241.3 | 1237.4 | 1229.6 | 1215.6 | 1198.5 | 1184.5 | 1165.0 | 1144.8 |
| 35°    | 1281.8 | 1286.5 | 1284.9 | 1284.9 | 1281.0 | 1268.6 | 1251.4 | 1234.3 | 1214.9 | 1193.1 | 1172.0 |
| 37.5°  | 1342.5 | 1351.0 | 1349.5 | 1346.4 | 1341.7 | 1326.9 | 1313.7 | 1292.7 | 1270.9 | 1242.1 | 1218.0 |
| 40°    | 1418.8 | 1432.0 | 1443.7 | 1441.3 | 1430.4 | 1417.2 | 1404.7 | 1380.6 | 1358.8 | 1326.9 | 1300.5 |
| 42.5°  | 1521.5 | 1539.4 | 1554.2 | 1565.1 | 1560.4 | 1543.3 | 1521.5 | 1511.4 | 1480.2 | 1447.5 | 1420.3 |
| 45°    | 1653.0 | 1690.4 | 1703.6 | 1716.8 | 1716.8 | 1705.9 | 1701.3 | 1681.0 | 1648.3 | 1604.8 | 1579.1 |
| 47.5°  | 1826.6 | 1876.4 | 1891.2 | 1913.7 | 1927.0 | 1915.3 | 1906.7 | 1872.5 | 1850.7 | 1790.8 | 1784.5 |
| 50°    | 2037.5 | 2087.3 | 2127.7 | 2154.2 | 2150.3 | 2160.4 | 2140.2 | 2120.7 | 2090.4 | 2041.4 | 2024.2 |
| 52.5°  | 2306.7 | 2346.4 | 2383.0 | 2398.6 | 2414.9 | 2412.6 | 2407.9 | 2394.7 | 2356.5 | 2330.1 | 2286.5 |
| 55°    | 2583.0 | 2615.7 | 2660.1 | 2685.7 | 2706.8 | 2702.9 | 2685.0 | 2653.1 | 2660.1 | 2604.8 | 2580.7 |
| 57.5°  | 2897.4 | 2933.2 | 2981.5 | 3005.6 | 3014.9 | 3062.4 | 3050.7 | 3046.9 | 3033.6 | 3014.2 | 2989.3 |
| 60°    | 3438.3 | 3448.4 | 3488.1 | 3548.8 | 3623.5 | 3608.8 | 3627.4 | 3639.9 | 3649.2 | 3605.6 | 3602.5 |
| 62.5°  | 4082.7 | 4095.2 | 4129.4 | 4141.9 | 4152.8 | 4154.3 | 4129.4 | 4129.4 | 4086.6 | 4030.6 | 3987.0 |
| 65°    | 4434.5 | 4408.8 | 4385.4 | 4372.2 | 4343.4 | 4317.7 | 4280.4 | 4229.8 | 4157.4 | 4071.0 | 3993.2 |
| 66°    | 4485.1 | 4432.9 | 4402.6 | 4369.1 | 4323.2 | 4275.7 | 4231.4 | 4162.1 | 4077.3 | 3974.5 | 3871.8 |
| 67.5°  | 4436.0 | 4364.4 | 4293.6 | 4244.6 | 4180.8 | 4095.2 | 4017.3 | 3936.4 | 3856.2 | 3715.4 | 3619.6 |
| 70°    | 3988.5 | 3902.9 | 3825.1 | 3717.7 | 3616.5 | 3532.5 | 3398.6 | 3257.8 | 3141.8 | 2993.9 | 2899.8 |
| 72.5°  | 2962.0 | 2860.9 | 2759.7 | 2608.7 | 2461.6 | 2439.8 | 2271.7 | 2105.9 | 2017.2 | 1898.2 | 1802.4 |
| 75°    | 1463.1 | 1335.5 | 1154.1 | 1073.2 | 955.7  | 898.1  | 866.2  | 746.3  | 717.5  | 600.0  | 598.5  |
| 77.5°  | 413.3  | 354.9  | 315.2  | 274.7  | 257.6  | 245.1  | 202.3  | 193.8  | 175.9  | 172.8  | 162.7  |
| 80°    | 156.4  | 147.9  | 144.0  | 140.1  | 136.2  | 133.9  | 132.3  | 126.1  | 123.0  | 118.3  | 116.0  |
| 82.5°  | 112.8  | 109.7  | 102.7  | 100.4  | 97.3   | 92.6   | 91.8   | 87.9   | 85.6   | 80.9   | 79.4   |
| 85°    | 76.3   | 72.4   | 68.5   | 64.6   | 63.0   | 62.3   | 59.9   | 58.4   | 56.8   | 54.5   | 53.7   |
| 87.5°  | 51.4   | 47.5   | 42.8   | 41.2   | 40.5   | 41.2   | 42.0   | 40.5   | 39.7   | 38.1   | 37.4   |
| 90°    | 15.2   | 17.6   | 16.8   | 16.8   | 18.3   | 16.6   | 16.4   | 17.0   | 16.0   | 15.8   | 14.8   |
| 92.5°  | 6.4    | 6.3    | 6.2    | 6.1    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |
| 95°    | 7.4    | 7.3    | 7.2    | 7.1    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    |
| 97.5°  | 9.4    | 9.3    | 9.2    | 9.1    | 9.0    | 8.9    | 8.8    | 8.7    | 8.6    | 8.5    | 8.4    |
| 100°   | 24.2   | 23.9   | 23.6   | 23.3   | 23.0   | 22.6   | 22.2   | 21.8   | 21.4   | 21.0   | 20.6   |
| 102.5° | 44.0   | 43.5   | 43.0   | 42.5   | 42.0   | 41.7   | 41.4   | 41.1   | 40.8   | 40.5   | 40.2   |
| 105°   | 67.0   | 66.5   | 66.0   | 65.5   | 65.0   | 64.6   | 64.2   | 63.8   | 63.4   | 63.0   | 62.6   |
| 107.5° | 91.6   | 91.2   | 90.8   | 90.4   | 90.0   | 89.7   | 89.4   | 89.1   | 88.8   | 88.5   | 88.2   |



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 71°   | 72°   | 73°   | 74°   | 75°   | 76°   | 77°   | 78°   | 79°   | 80°   | 81°   |        |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110°   | 119.8 | 119.6 | 119.4 | 119.2 | 119.0 | 118.7 | 118.4 | 118.1 | 117.8 | 117.5 | 117.2 | 0°     |
| 112.5° | 149.4 | 149.3 | 149.2 | 149.1 | 149.0 | 148.8 | 148.6 | 148.4 | 148.2 | 148.0 | 147.8 | 2.5°   |
| 115°   | 180.2 | 179.9 | 179.6 | 179.3 | 179.0 | 178.8 | 178.6 | 178.4 | 178.2 | 178.0 | 177.8 | 5°     |
| 117.5° | 212.0 | 211.5 | 211.0 | 210.5 | 210.0 | 209.8 | 209.6 | 209.4 | 209.2 | 209.0 | 208.8 | 7.5°   |
| 120°   | 247.0 | 246.5 | 246.0 | 245.5 | 245.0 | 244.8 | 244.6 | 244.4 | 244.2 | 244.0 | 243.8 | 10°    |
| 122.5° | 280.0 | 279.5 | 279.0 | 278.5 | 278.0 | 277.8 | 277.6 | 277.4 | 277.2 | 277.0 | 276.8 | 12.5°  |
| 125°   | 312.0 | 311.5 | 311.0 | 310.5 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 15°    |
| 127.5° | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 345.9 | 345.8 | 345.7 | 345.6 | 345.5 | 345.4 | 17.5°  |
| 130°   | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 380.8 | 380.6 | 380.4 | 380.2 | 380.0 | 379.8 | 20°    |
| 132.5° | 414.8 | 414.6 | 414.4 | 414.2 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 22.5°  |
| 135°   | 447.4 | 447.3 | 447.2 | 447.1 | 447.0 | 447.3 | 447.6 | 447.9 | 448.2 | 448.5 | 448.8 | 25°    |
| 137.5° | 475.6 | 475.7 | 475.8 | 475.9 | 476.0 | 476.5 | 477.0 | 477.5 | 478.0 | 478.5 | 479.0 | 27.5°  |
| 140°   | 503.2 | 503.4 | 503.6 | 503.8 | 504.0 | 504.5 | 505.0 | 505.5 | 506.0 | 506.5 | 507.0 | 30°    |
| 142.5° | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.1 | 533.2 | 533.3 | 533.4 | 533.5 | 533.6 | 32.5°  |
| 145°   | 561.4 | 561.3 | 561.2 | 561.1 | 561.0 | 560.7 | 560.4 | 560.1 | 559.8 | 559.5 | 559.2 | 35°    |
| 147.5° | 585.6 | 585.7 | 585.8 | 585.9 | 586.0 | 585.7 | 585.4 | 585.1 | 584.8 | 584.5 | 584.2 | 37.5°  |
| 150°   | 601.8 | 602.1 | 602.4 | 602.7 | 603.0 | 603.3 | 603.6 | 603.9 | 604.2 | 604.5 | 604.8 | 40°    |
| 152.5° | 616.4 | 616.8 | 617.2 | 617.6 | 618.0 | 618.5 | 619.0 | 619.5 | 620.0 | 620.5 | 621.0 | 42.5°  |
| 155°   | 634.0 | 634.5 | 635.0 | 635.5 | 636.0 | 636.2 | 636.4 | 636.6 | 636.8 | 637.0 | 637.2 | 45°    |
| 157.5° | 649.2 | 649.4 | 649.6 | 649.8 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 47.5°  |
| 160°   | 662.2 | 661.9 | 661.6 | 661.3 | 661.0 | 660.9 | 660.8 | 660.7 | 660.6 | 660.5 | 660.4 | 50°    |
| 162.5° | 670.4 | 670.3 | 670.2 | 670.1 | 670.0 | 669.8 | 669.6 | 669.4 | 669.2 | 669.0 | 668.8 | 52.5°  |
| 165°   | 678.8 | 679.1 | 679.4 | 679.7 | 680.0 | 679.8 | 679.6 | 679.4 | 679.2 | 679.0 | 678.8 | 55°    |
| 167.5° | 686.4 | 686.8 | 687.2 | 687.6 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 57.5°  |
| 170°   | 692.0 | 692.5 | 693.0 | 693.5 | 694.0 | 694.2 | 694.4 | 694.6 | 694.8 | 695.0 | 695.2 | 60°    |
| 172.5° | 693.2 | 693.4 | 693.6 | 693.8 | 694.0 | 694.2 | 694.4 | 694.6 | 694.8 | 695.0 | 695.2 | 62.5°  |
| 175°   | 695.6 | 695.7 | 695.8 | 695.9 | 696.0 | 695.8 | 695.6 | 695.4 | 695.2 | 695.0 | 694.8 | 65°    |
| 177.5° | 700.2 | 700.4 | 700.6 | 700.8 | 701.0 | 700.7 | 700.4 | 700.1 | 699.8 | 699.5 | 699.2 | 66°    |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 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: P226974  
 NUMBER: IST-AF-1000-LED-E1-SL3-7030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 82°    | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 110°   | 82°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 110°   | 116.9 |
| 1383.7 | 1381.4 | 1382.2 | 1379.1 | 1378.3 | 1379.8 | 1380.6 | 1380.6 | 1378.3 | 1364.3 | 1347.9 | 112.5° | 147.6 |
| 1363.5 | 1358.8 | 1358.0 | 1355.7 | 1351.8 | 1356.5 | 1354.2 | 1350.3 | 1345.6 | 1329.3 | 1297.3 | 115°   | 177.6 |
| 1326.1 | 1323.0 | 1319.1 | 1316.0 | 1313.7 | 1312.1 | 1311.4 | 1307.5 | 1298.9 | 1268.6 | 1214.9 | 117.5° | 208.6 |
| 1290.3 | 1286.5 | 1281.8 | 1274.8 | 1271.7 | 1267.0 | 1267.0 | 1257.7 | 1251.4 | 1213.3 | 1133.9 | 120°   | 243.6 |
| 1255.3 | 1248.3 | 1246.0 | 1241.3 | 1232.8 | 1228.9 | 1223.4 | 1214.1 | 1204.7 | 1158.8 | 1054.5 | 122.5° | 276.6 |
| 1228.9 | 1221.9 | 1211.7 | 1208.6 | 1199.3 | 1190.7 | 1183.7 | 1171.3 | 1161.2 | 1100.4 | 971.3  | 125°   | 310.0 |
| 1200.1 | 1194.6 | 1183.7 | 1176.7 | 1166.6 | 1156.5 | 1144.8 | 1129.2 | 1122.2 | 1045.2 | 891.9  | 127.5° | 345.3 |
| 1176.7 | 1164.3 | 1151.8 | 1145.6 | 1133.1 | 1121.5 | 1109.8 | 1091.1 | 1077.1 | 990.7  | 807.8  | 130°   | 379.6 |
| 1149.5 | 1138.6 | 1125.4 | 1114.5 | 1097.3 | 1084.1 | 1070.9 | 1051.4 | 1034.3 | 935.5  | 723.0  | 132.5° | 414.0 |
| 1130.8 | 1115.2 | 1101.2 | 1088.8 | 1069.3 | 1053.8 | 1035.1 | 1014.1 | 996.9  | 882.5  | 629.6  | 135°   | 449.1 |
| 1119.9 | 1104.3 | 1086.4 | 1070.9 | 1048.3 | 1030.4 | 1010.2 | 986.8  | 965.0  | 839.7  | 541.7  | 137.5° | 479.5 |
| 1116.8 | 1098.1 | 1079.4 | 1060.0 | 1036.6 | 1014.1 | 989.9  | 966.6  | 938.6  | 798.5  | 445.9  | 140°   | 507.5 |
| 1126.1 | 1103.6 | 1082.5 | 1059.2 | 1032.0 | 1006.3 | 982.2  | 951.8  | 923.8  | 762.7  | 351.8  | 142.5° | 533.7 |
| 1151.8 | 1124.6 | 1100.4 | 1074.8 | 1043.6 | 1015.6 | 986.8  | 952.6  | 921.5  | 737.8  | 269.3  | 145°   | 558.9 |
| 1192.3 | 1166.6 | 1138.6 | 1112.9 | 1077.1 | 1046.0 | 1014.1 | 977.5  | 940.1  | 727.7  | 203.1  | 147.5° | 583.9 |
| 1274.0 | 1239.8 | 1211.0 | 1183.7 | 1142.5 | 1110.6 | 1074.0 | 1029.6 | 987.6  | 737.0  | 169.7  | 150°   | 605.1 |
| 1388.4 | 1345.6 | 1319.1 | 1295.0 | 1243.6 | 1208.6 | 1166.6 | 1116.0 | 1068.5 | 763.5  | 149.4  | 152.5° | 621.5 |
| 1546.4 | 1513.7 | 1466.2 | 1428.9 | 1376.7 | 1337.8 | 1291.1 | 1230.4 | 1177.5 | 800.8  | 139.3  | 155°   | 637.4 |
| 1744.1 | 1701.3 | 1654.6 | 1616.4 | 1559.6 | 1491.9 | 1442.9 | 1369.7 | 1309.8 | 859.2  | 134.6  | 157.5° | 650.0 |
| 1986.1 | 1934.7 | 1871.7 | 1839.8 | 1761.2 | 1708.3 | 1642.9 | 1564.3 | 1488.0 | 949.5  | 137.0  | 160°   | 660.3 |
| 2249.1 | 2193.9 | 2144.9 | 2084.2 | 2012.6 | 1953.4 | 1891.2 | 1807.9 | 1712.2 | 1120.7 | 146.3  | 162.5° | 668.6 |
| 2527.0 | 2491.2 | 2444.5 | 2365.9 | 2327.0 | 2252.3 | 2172.9 | 2081.0 | 2011.8 | 1343.3 | 168.9  | 165°   | 678.6 |
| 2931.7 | 2892.8 | 2887.3 | 2810.3 | 2751.1 | 2683.4 | 2621.2 | 2544.9 | 2463.2 | 1738.6 | 221.8  | 167.5° | 688.0 |
| 3554.3 | 3513.8 | 3467.9 | 3408.0 | 3337.9 | 3253.9 | 3176.8 | 3074.1 | 2983.0 | 2134.7 | 246.7  | 170°   | 695.4 |
| 3923.2 | 3848.5 | 3766.0 | 3674.9 | 3573.0 | 3468.7 | 3365.2 | 3233.6 | 3101.3 | 2158.9 | 222.6  | 172.5° | 695.4 |
| 3892.0 | 3799.4 | 3694.4 | 3570.6 | 3463.2 | 3334.8 | 3223.5 | 3053.9 | 2933.2 | 1922.3 | 181.3  | 175°   | 694.6 |
| 3776.9 | 3650.0 | 3551.2 | 3437.5 | 3302.9 | 3187.7 | 3070.2 | 2902.9 | 2765.1 | 1762.7 | 165.8  | 177.5° | 698.9 |
| 3481.9 | 3373.7 | 3236.7 | 3127.8 | 3028.2 | 2890.4 | 2779.9 | 2623.5 | 2528.5 | 1528.5 | 148.6  | 180°   | 700.0 |
| 2783.0 | 2633.6 | 2517.6 | 2432.8 | 2320.0 | 2195.4 | 2097.4 | 1965.9 | 1881.8 | 1011.7 | 128.4  |        |       |
| 1621.1 | 1583.7 | 1453.8 | 1380.6 | 1312.1 | 1211.0 | 1133.1 | 1070.1 | 959.6  | 490.3  | 113.6  |        |       |
| 499.6  | 464.6  | 459.9  | 390.7  | 413.3  | 353.3  | 344.0  | 312.9  | 312.9  | 188.3  | 89.5   |        |       |
| 159.5  | 156.4  | 150.2  | 141.6  | 138.5  | 138.5  | 134.6  | 133.9  | 127.6  | 101.2  | 66.9   |        |       |
| 112.8  | 110.5  | 108.2  | 105.8  | 104.3  | 105.1  | 102.0  | 100.4  | 98.8   | 73.2   | 52.9   |        |       |
| 77.8   | 75.5   | 70.8   | 70.8   | 69.3   | 68.5   | 69.3   | 66.2   | 65.4   | 51.4   | 44.4   |        |       |
| 52.9   | 52.1   | 51.4   | 50.6   | 49.8   | 49.0   | 48.3   | 45.9   | 44.4   | 35.8   | 31.1   |        |       |
| 35.0   | 29.6   | 28.8   | 24.9   | 24.1   | 23.3   | 21.8   | 23.3   | 25.7   | 25.7   | 20.2   |        |       |
| 15.4   | 14.4   | 15.0   | 14.8   | 13.2   | 14.0   | 14.0   | 12.4   | 12.4   | 14.8   | 16.0   |        |       |
| 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |        |       |
| 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    |        |       |
| 8.3    | 8.2    | 8.1    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 9.0    |        |       |
| 20.2   | 19.8   | 19.4   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 23.0   |        |       |
| 39.9   | 39.6   | 39.3   | 39.0   | 38.8   | 38.6   | 38.4   | 38.2   | 38.0   | 39.0   | 42.0   |        |       |
| 62.2   | 61.8   | 61.4   | 61.0   | 61.0   | 61.0   | 61.0   | 61.0   | 61.0   | 61.0   | 65.0   |        |       |
| 87.9   | 87.6   | 87.3   | 87.0   | 86.8   | 86.6   | 86.4   | 86.2   | 86.0   | 87.0   | 90.0   |        |       |

'226974  
 IST-AF-1000-LED-E1-SL3-7030-ULG

REPORT NUMBER: P226974  
 CATALOG NUMBER: IST-AF-10

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 83°   | 84°   | 85°   | 86°   | 87°   | 88°   | 89°   | 90°   | 95°   | 105°  |        | 115°   | 125°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 116.6 | 116.3 | 116.0 | 116.2 | 116.4 | 116.6 | 116.8 | 117.0 | 116.0 | 119.0 | 0°     | 1379.1 | 1379.1 |
| 147.4 | 147.2 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 149.0 | 2.5°   | 1333.9 | 1321.5 |
| 177.4 | 177.2 | 177.0 | 177.2 | 177.4 | 177.6 | 177.8 | 178.0 | 177.0 | 179.0 | 5°     | 1263.1 | 1235.1 |
| 208.4 | 208.2 | 208.0 | 208.2 | 208.4 | 208.6 | 208.8 | 209.0 | 208.0 | 210.0 | 7.5°   | 1167.4 | 1112.9 |
| 243.4 | 243.2 | 243.0 | 243.0 | 243.0 | 243.0 | 243.0 | 243.0 | 243.0 | 245.0 | 10°    | 1057.6 | 979.0  |
| 276.4 | 276.2 | 276.0 | 276.2 | 276.4 | 276.6 | 276.8 | 277.0 | 276.0 | 278.0 | 12.5°  | 944.0  | 843.6  |
| 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 15°    | 838.2  | 705.1  |
| 345.2 | 345.1 | 345.0 | 345.4 | 345.8 | 346.2 | 346.6 | 347.0 | 345.0 | 346.0 | 17.5°  | 726.9  | 562.7  |
| 379.4 | 379.2 | 379.0 | 379.2 | 379.4 | 379.6 | 379.8 | 380.0 | 379.0 | 381.0 | 20°    | 620.3  | 424.9  |
| 414.0 | 414.0 | 414.0 | 414.2 | 414.4 | 414.6 | 414.8 | 415.0 | 414.0 | 414.0 | 22.5°  | 499.6  | 298.1  |
| 449.4 | 449.7 | 450.0 | 450.2 | 450.4 | 450.6 | 450.8 | 451.0 | 450.0 | 447.0 | 25°    | 366.6  | 216.4  |
| 480.0 | 480.5 | 481.0 | 481.2 | 481.4 | 481.6 | 481.8 | 482.0 | 481.0 | 476.0 | 27.5°  | 261.5  | 172.8  |
| 508.0 | 508.5 | 509.0 | 509.4 | 509.8 | 510.2 | 510.6 | 511.0 | 509.0 | 504.0 | 30°    | 195.3  | 145.5  |
| 533.8 | 533.9 | 534.0 | 534.4 | 534.8 | 535.2 | 535.6 | 536.0 | 534.0 | 533.0 | 32.5°  | 156.4  | 126.1  |
| 558.6 | 558.3 | 558.0 | 558.4 | 558.8 | 559.2 | 559.6 | 560.0 | 558.0 | 561.0 | 35°    | 133.1  | 114.4  |
| 583.6 | 583.3 | 583.0 | 583.4 | 583.8 | 584.2 | 584.6 | 585.0 | 583.0 | 586.0 | 37.5°  | 119.1  | 106.6  |
| 605.4 | 605.7 | 606.0 | 606.8 | 607.6 | 608.4 | 609.2 | 610.0 | 606.0 | 603.0 | 40°    | 111.3  | 102.7  |
| 622.0 | 622.5 | 623.0 | 624.0 | 625.0 | 626.0 | 627.0 | 628.0 | 623.0 | 618.0 | 42.5°  | 106.6  | 98.8   |
| 637.6 | 637.8 | 638.0 | 638.6 | 639.2 | 639.8 | 640.4 | 641.0 | 638.0 | 636.0 | 45°    | 104.3  | 96.5   |
| 650.0 | 650.0 | 650.0 | 651.0 | 652.0 | 653.0 | 654.0 | 655.0 | 650.0 | 650.0 | 47.5°  | 102.7  | 93.4   |
| 660.2 | 660.1 | 660.0 | 661.2 | 662.4 | 663.6 | 664.8 | 666.0 | 660.0 | 661.0 | 50°    | 101.2  | 93.4   |
| 668.4 | 668.2 | 668.0 | 669.2 | 670.4 | 671.6 | 672.8 | 674.0 | 668.0 | 670.0 | 52.5°  | 102.0  | 94.9   |
| 678.4 | 678.2 | 678.0 | 678.8 | 679.6 | 680.4 | 681.2 | 682.0 | 678.0 | 680.0 | 55°    | 105.8  | 94.9   |
| 688.0 | 688.0 | 688.0 | 689.2 | 690.4 | 691.6 | 692.8 | 694.0 | 688.0 | 688.0 | 57.5°  | 112.1  | 94.9   |
| 695.6 | 695.8 | 696.0 | 697.0 | 698.0 | 699.0 | 700.0 | 701.0 | 696.0 | 694.0 | 60°    | 116.7  | 96.5   |
| 695.6 | 695.8 | 696.0 | 697.0 | 698.0 | 699.0 | 700.0 | 701.0 | 696.0 | 694.0 | 62.5°  | 118.3  | 99.6   |
| 694.4 | 694.2 | 694.0 | 695.0 | 696.0 | 697.0 | 698.0 | 699.0 | 694.0 | 696.0 | 65°    | 116.7  | 101.2  |
| 698.6 | 698.3 | 698.0 | 698.8 | 699.6 | 700.4 | 701.2 | 702.0 | 698.0 | 701.0 | 66°    | 115.2  | 101.2  |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5°  | 112.8  | 99.6   |
|       |       |       |       |       |       |       |       |       |       | 70°    | 107.4  | 93.4   |
|       |       |       |       |       |       |       |       |       |       | 72.5°  | 96.5   | 84.1   |
|       |       |       |       |       |       |       |       |       |       | 75°    | 82.5   | 67.7   |
|       |       |       |       |       |       |       |       |       |       | 77.5°  | 66.9   | 54.5   |
|       |       |       |       |       |       |       |       |       |       | 80°    | 49.8   | 41.2   |
|       |       |       |       |       |       |       |       |       |       | 82.5°  | 36.6   | 31.9   |
|       |       |       |       |       |       |       |       |       |       | 85°    | 25.7   | 22.6   |
|       |       |       |       |       |       |       |       |       |       | 87.5°  | 15.6   | 14.0   |
|       |       |       |       |       |       |       |       |       |       | 90°    | 12.9   | 10.9   |
|       |       |       |       |       |       |       |       |       |       | 92.5°  | 7.0    | 7.0    |
|       |       |       |       |       |       |       |       |       |       | 95°    | 8.0    | 7.0    |
|       |       |       |       |       |       |       |       |       |       | 97.5°  | 10.0   | 12.0   |
|       |       |       |       |       |       |       |       |       |       | 100°   | 26.0   | 29.0   |
|       |       |       |       |       |       |       |       |       |       | 102.5° | 47.0   | 50.0   |
|       |       |       |       |       |       |       |       |       |       | 105°   | 70.0   | 72.0   |
|       |       |       |       |       |       |       |       |       |       | 107.5° | 94.0   | 95.0   |



REPORT NUMBER: P226974

CATALOG NUMBER: IST-AF-1000-LED-E1

00-LED-E1-SL3-7030-ULG

**tinued):**

| 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|--------|--------|--------|--------|--------|
| 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 | 1379.1 |
| 1312.9 | 1312.1 | 1292.7 | 1288.8 | 1275.6 | 1282.6 |
| 1201.6 | 1188.4 | 1153.4 | 1146.4 | 1131.6 | 1127.7 |
| 1068.5 | 1032.0 | 1003.9 | 972.8  | 943.2  | 958.0  |
| 912.9  | 851.4  | 789.9  | 749.5  | 733.1  | 727.7  |
| 765.0  | 654.5  | 577.5  | 498.1  | 470.1  | 480.2  |
| 586.0  | 459.9  | 357.2  | 311.3  | 284.8  | 280.2  |
| 413.3  | 295.0  | 247.5  | 235.8  | 230.4  | 230.4  |
| 280.2  | 224.9  | 207.0  | 201.6  | 201.6  | 202.3  |
| 213.2  | 189.1  | 181.3  | 182.1  | 185.2  | 186.0  |
| 176.7  | 167.3  | 163.4  | 168.9  | 175.1  | 175.9  |
| 152.5  | 150.2  | 151.0  | 158.0  | 164.2  | 165.0  |
| 133.9  | 136.2  | 139.3  | 145.5  | 151.0  | 152.5  |
| 120.6  | 124.5  | 126.9  | 130.7  | 133.9  | 134.6  |
| 111.3  | 116.0  | 115.2  | 117.5  | 119.9  | 120.6  |
| 105.8  | 108.2  | 105.8  | 107.4  | 107.4  | 109.0  |
| 101.2  | 102.0  | 98.1   | 98.8   | 100.4  | 100.4  |
| 96.5   | 95.7   | 91.8   | 93.4   | 95.7   | 96.5   |
| 91.8   | 90.3   | 87.2   | 90.3   | 94.2   | 94.9   |
| 87.9   | 86.4   | 84.8   | 88.7   | 93.4   | 94.2   |
| 86.4   | 84.8   | 83.3   | 88.7   | 93.4   | 94.2   |
| 86.4   | 84.8   | 83.3   | 87.2   | 91.8   | 92.6   |
| 87.2   | 85.6   | 82.5   | 86.4   | 89.5   | 90.3   |
| 87.9   | 86.4   | 80.9   | 83.3   | 84.8   | 85.6   |
| 87.9   | 84.8   | 79.4   | 80.2   | 80.2   | 80.9   |
| 86.4   | 82.5   | 76.3   | 76.3   | 75.5   | 75.5   |
| 86.4   | 79.4   | 73.2   | 71.6   | 70.0   | 70.0   |
| 85.6   | 78.6   | 72.4   | 70.0   | 67.7   | 67.7   |
| 84.1   | 77.0   | 70.8   | 67.7   | 65.4   | 65.4   |
| 78.6   | 73.9   | 66.9   | 63.8   | 61.5   | 60.7   |
| 70.0   | 67.7   | 62.3   | 59.9   | 57.6   | 56.8   |
| 59.1   | 59.9   | 56.8   | 55.3   | 52.9   | 52.1   |
| 49.8   | 51.4   | 49.8   | 49.0   | 47.5   | 46.7   |
| 39.7   | 42.8   | 41.2   | 41.2   | 42.0   | 40.5   |
| 30.4   | 34.2   | 32.7   | 34.2   | 35.8   | 33.5   |
| 21.0   | 24.9   | 24.9   | 25.7   | 26.5   | 24.9   |
| 13.2   | 16.3   | 15.6   | 16.3   | 16.3   | 15.6   |
| 10.1   | 13.4   | 11.1   | 11.7   | 8.9    | 8.1    |
| 6.0    | 6.0    | 6.0    | 5.0    | 4.0    | 4.0    |
| 7.0    | 7.0    | 7.0    | 6.0    | 5.0    | 5.0    |
| 9.0    | 9.0    | 8.0    | 8.0    | 7.0    | 7.0    |
| 21.0   | 12.0   | 10.0   | 9.0    | 8.0    | 8.0    |
| 40.0   | 27.0   | 18.0   | 13.0   | 11.0   | 11.0   |
| 63.0   | 48.0   | 36.0   | 27.0   | 22.0   | 21.0   |
| 88.0   | 73.0   | 58.0   | 49.0   | 42.0   | 41.0   |

**CANDELA DISTRIBUTION (continued):**

|        | 115°  | 125°  | 135°  |
|--------|-------|-------|-------|
| 110°   | 121.0 | 120.0 | 114.0 |
| 112.5° | 150.0 | 148.0 | 143.0 |
| 115°   | 182.0 | 179.0 | 174.0 |
| 117.5° | 215.0 | 211.0 | 205.0 |
| 120°   | 250.0 | 246.0 | 243.0 |
| 122.5° | 283.0 | 279.0 | 277.0 |
| 125°   | 315.0 | 313.0 | 310.0 |
| 127.5° | 346.0 | 345.0 | 340.0 |
| 130°   | 381.0 | 377.0 | 372.0 |
| 132.5° | 416.0 | 411.0 | 405.0 |
| 135°   | 448.0 | 443.0 | 437.0 |
| 137.5° | 475.0 | 473.0 | 468.0 |
| 140°   | 502.0 | 500.0 | 497.0 |
| 142.5° | 533.0 | 527.0 | 525.0 |
| 145°   | 562.0 | 556.0 | 551.0 |
| 147.5° | 585.0 | 580.0 | 575.0 |
| 150°   | 600.0 | 597.0 | 593.0 |
| 152.5° | 614.0 | 611.0 | 610.0 |
| 155°   | 631.0 | 626.0 | 628.0 |
| 157.5° | 648.0 | 644.0 | 645.0 |
| 160°   | 664.0 | 658.0 | 655.0 |
| 162.5° | 671.0 | 667.0 | 663.0 |
| 165°   | 677.0 | 672.0 | 673.0 |
| 167.5° | 684.0 | 678.0 | 685.0 |
| 170°   | 689.0 | 686.0 | 691.0 |
| 172.5° | 692.0 | 689.0 | 690.0 |
| 175°   | 695.0 | 690.0 | 690.0 |
| 177.5° | 699.0 | 694.0 | 695.0 |
| 180°   | 700.0 | 700.0 | 700.0 |



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| 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|
| 102.0 | 87.0  | 74.0  | 68.0  | 66.0  |
| 134.0 | 121.0 | 106.0 | 99.0  | 99.0  |
| 168.0 | 159.0 | 147.0 | 139.0 | 140.0 |
| 202.0 | 197.0 | 189.0 | 184.0 | 184.0 |
| 237.0 | 233.0 | 226.0 | 223.0 | 225.0 |
| 271.0 | 267.0 | 261.0 | 260.0 | 263.0 |
| 305.0 | 299.0 | 296.0 | 294.0 | 298.0 |
| 339.0 | 333.0 | 329.0 | 329.0 | 330.0 |
| 370.0 | 366.0 | 362.0 | 361.0 | 363.0 |
| 404.0 | 401.0 | 393.0 | 394.0 | 396.0 |
| 435.0 | 432.0 | 426.0 | 426.0 | 429.0 |
| 464.0 | 460.0 | 459.0 | 457.0 | 460.0 |
| 491.0 | 489.0 | 487.0 | 485.0 | 488.0 |
| 521.0 | 518.0 | 517.0 | 515.0 | 518.0 |
| 550.0 | 547.0 | 544.0 | 546.0 | 550.0 |
| 574.0 | 574.0 | 571.0 | 572.0 | 575.0 |
| 593.0 | 593.0 | 593.0 | 592.0 | 595.0 |
| 610.0 | 609.0 | 608.0 | 608.0 | 611.0 |
| 630.0 | 627.0 | 625.0 | 625.0 | 629.0 |
| 646.0 | 644.0 | 643.0 | 643.0 | 646.0 |
| 655.0 | 656.0 | 659.0 | 660.0 | 663.0 |
| 661.0 | 665.0 | 669.0 | 669.0 | 673.0 |
| 673.0 | 676.0 | 676.0 | 678.0 | 681.0 |
| 688.0 | 686.0 | 684.0 | 687.0 | 690.0 |
| 693.0 | 692.0 | 692.0 | 695.0 | 698.0 |
| 690.0 | 693.0 | 695.0 | 697.0 | 699.0 |
| 691.0 | 695.0 | 697.0 | 698.0 | 700.0 |
| 697.0 | 699.0 | 700.0 | 705.0 | 707.0 |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |

(END OF REPORT)