

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: P226839

Luminaire Tested: **IST-AF-1200-LED-E1-SL2-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226839  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)-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-1200-LED-E1-SL2-7030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II 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: 7630.2 lumens  
Efficiency: N/A  
Efficacy: 92.3 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 - 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

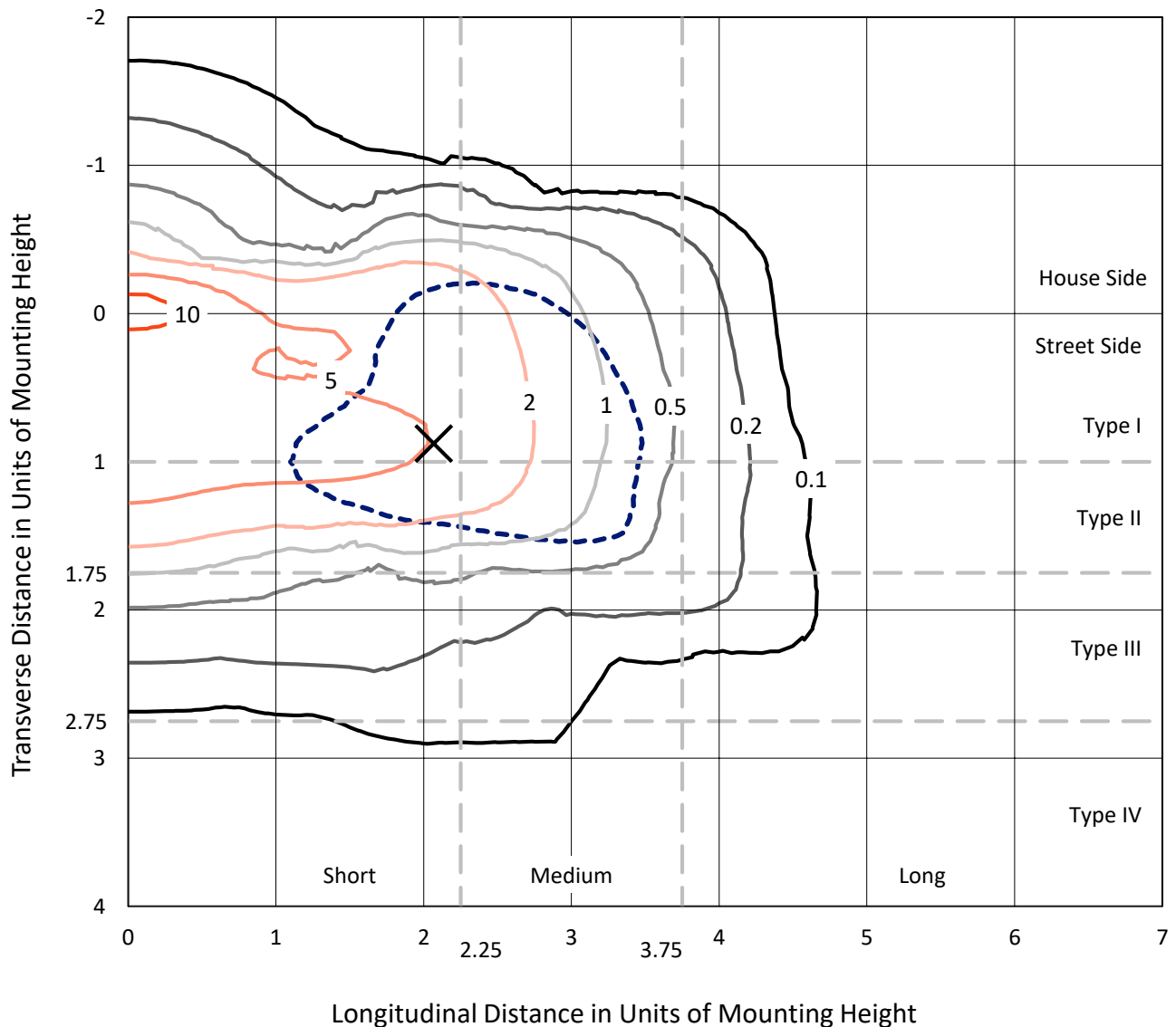


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CATALOG NUMBER: IST-AF-1200-LED-E1-SL2-7030-ULG

### Iso-Footcandle Lines of Horizontal Illumination

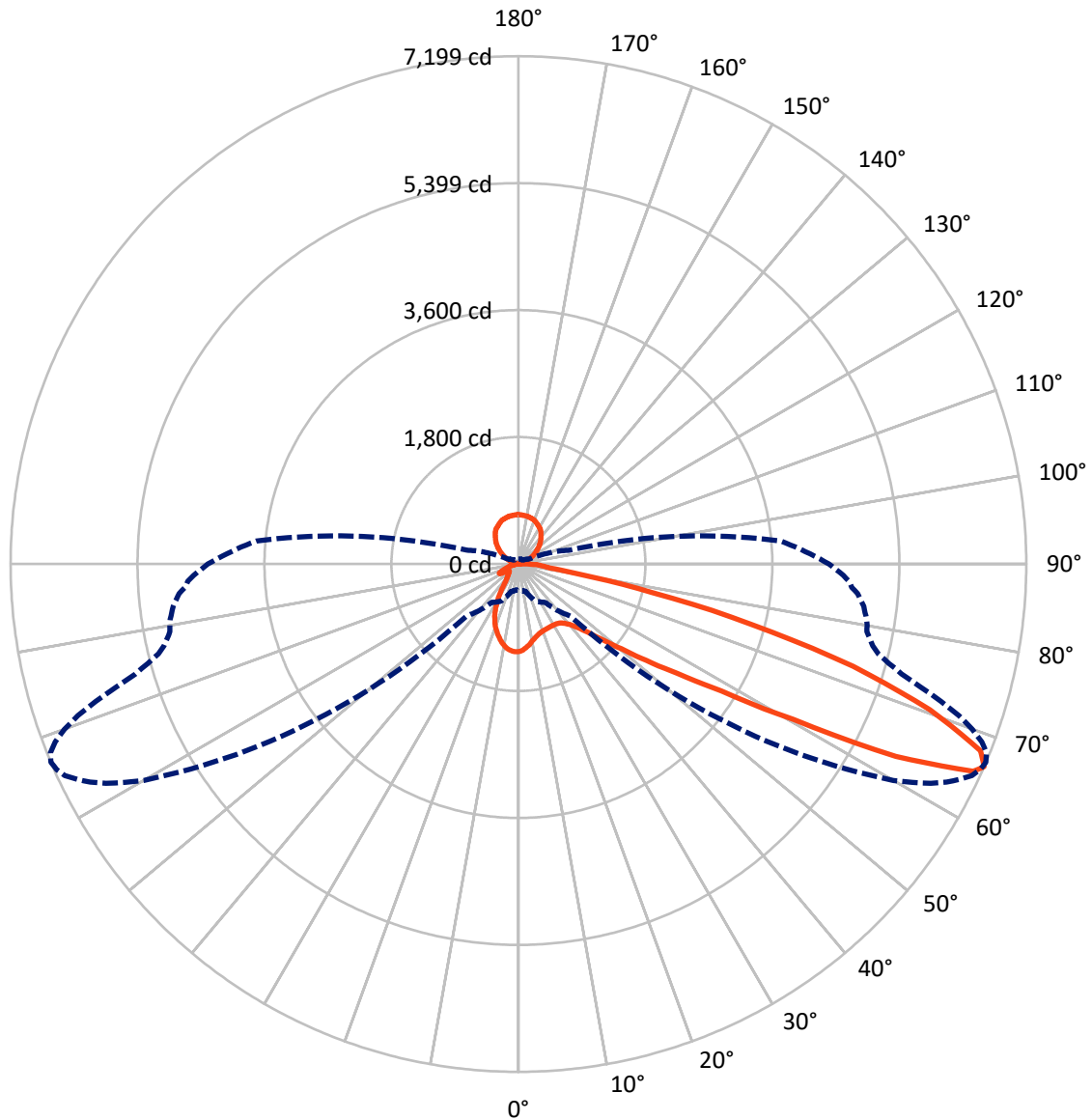
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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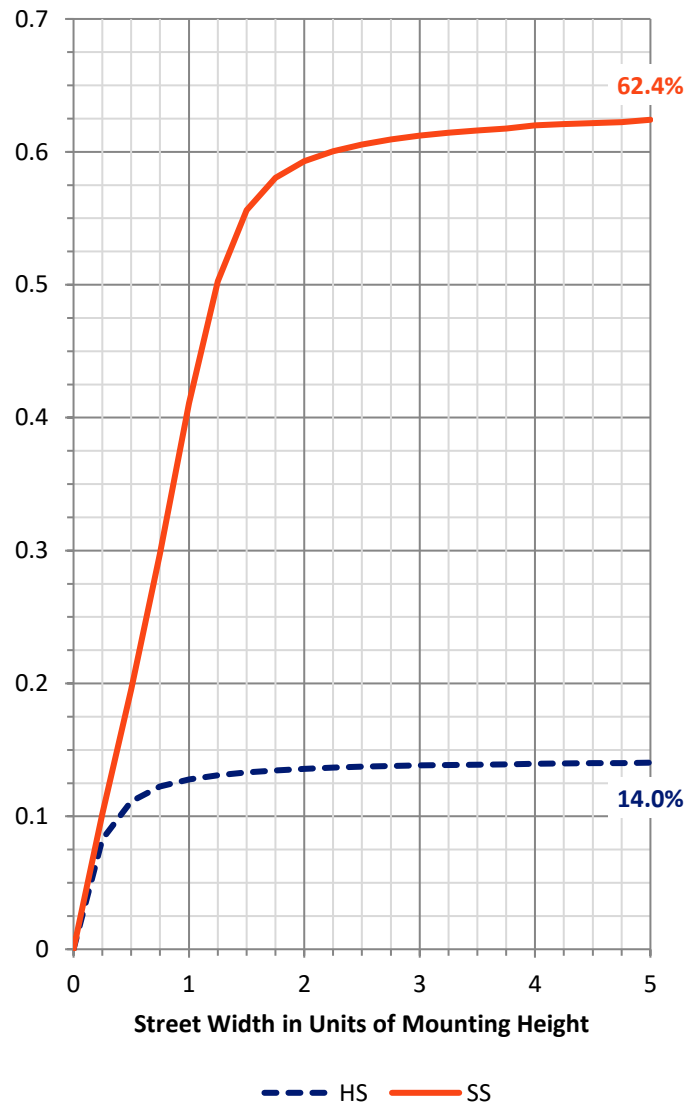
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1088.8   | 868.0  | 1956.8 |
|                    | % Fixture | 14.3     | 11.4   | 25.6   |
| <b>Street Side</b> | Lumens    | 4804.1   | 869.3  | 5673.4 |
|                    | % Fixture | 63.0     | 11.4   | 74.4   |
| <b>Total</b>       | Lumens    | 5892.9   | 1737.3 | 7630.2 |
|                    | % Fixture | 77.2     | 22.8   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 107.6  | 1.4       |
| 10°-20°   | 256.1  | 3.4       |
| 20°-30°   | 351.1  | 4.6       |
| 30°-40°   | 501.6  | 6.6       |
| 40°-50°   | 813.3  | 10.7      |
| 50°-60°   | 1288.7 | 16.9      |
| 60°-70°   | 1633.1 | 21.4      |
| 70°-80°   | 811.8  | 10.6      |
| 80°-90°   | 129.6  | 1.7       |
| 90°-100°  | 11.4   | 0.1       |
| 100°-110° | 57.4   | 0.8       |
| 110°-120° | 166.1  | 2.2       |
| 120°-130° | 273.2  | 3.6       |
| 130°-140° | 336.8  | 4.4       |
| 140°-150° | 344.6  | 4.5       |
| 150°-160° | 290.3  | 3.8       |
| 160°-170° | 191.2  | 2.5       |
| 170°-180° | 66.3   | 0.9       |
| 0°-90°    | 5892.9 | 77.2      |
| 0°-180°   | 7630.2 | 100.0     |



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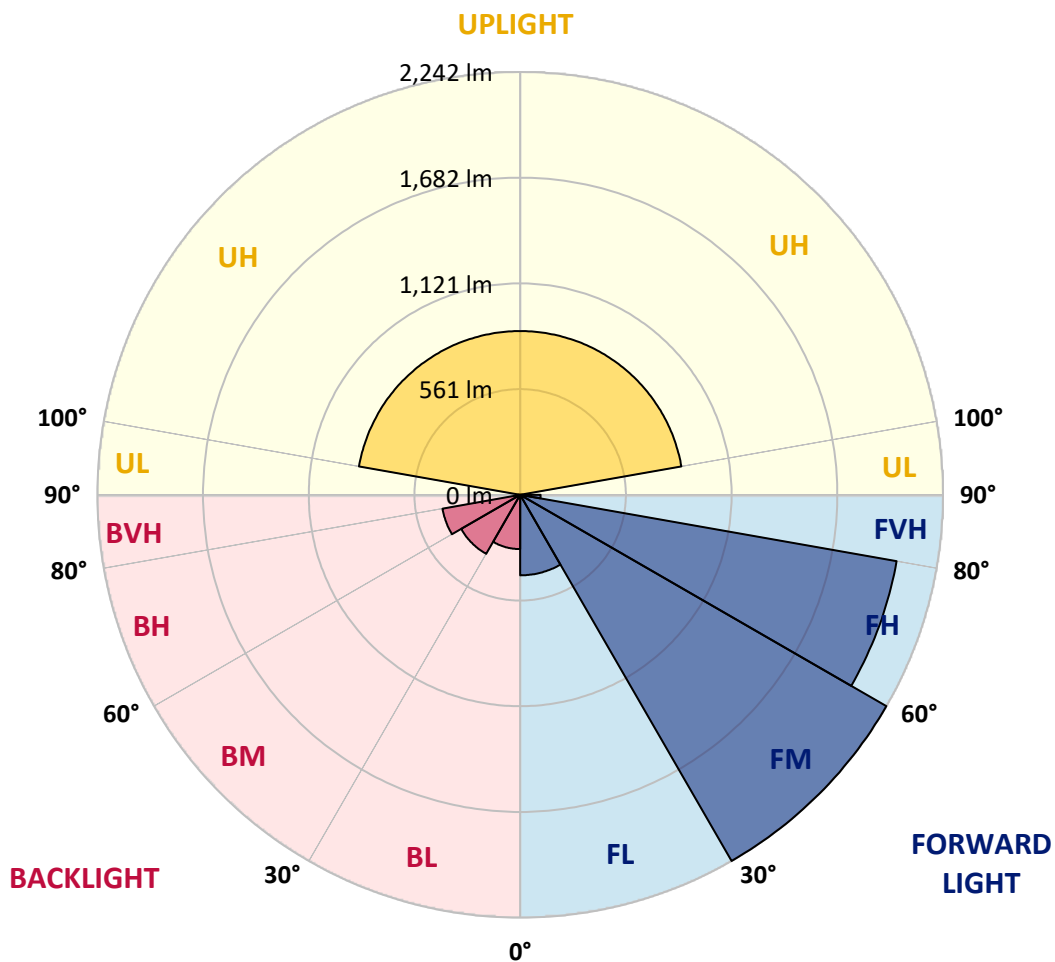
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 427.0  | 5.6       |                         |         |         |
| FM   | (30°-60°)   | 2242.1 | 29.4      |                         |         |         |
| FH   | (60°-80°)   | 2026.6 | 26.6      |                         |         | G2/5000 |
| FVH  | (80°-90°)   | 108.4  | 1.4       |                         |         | G2/225  |
| BL   | (0°-30°)    | 287.8  | 3.8       | B1/500                  |         |         |
| BM   | (30°-60°)   | 361.5  | 4.7       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 418.2  | 5.5       | B1/500                  |         | G1/500  |
| BVH  | (80°-90°)   | 21.3   | 0.3       |                         |         | G1/100  |
| UL   | (90°-100°)  | 11.4   | 0.1       |                         | U2/50   |         |
| UH   | (100°-180°) | 868.0  | 11.4      |                         | U4/1000 |         |

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 63°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 |
| 2.5°   | 1153.0 | 1155.6 | 1170.7 | 1178.6 | 1190.1 | 1193.7 | 1207.0 | 1212.3 | 1216.7 | 1215.8 | 1215.8 |
| 5°     | 1049.3 | 1057.3 | 1064.4 | 1080.3 | 1097.2 | 1117.5 | 1143.2 | 1162.7 | 1166.2 | 1170.7 | 1173.3 |
| 7.5°   | 970.5  | 975.9  | 988.2  | 999.8  | 1021.0 | 1049.3 | 1085.7 | 1110.5 | 1115.8 | 1117.5 | 1123.7 |
| 10°    | 914.7  | 918.3  | 928.9  | 944.0  | 968.8  | 996.2  | 1034.3 | 1060.0 | 1067.9 | 1071.5 | 1076.8 |
| 12.5°  | 871.4  | 876.7  | 886.4  | 902.4  | 928.9  | 957.3  | 997.1  | 1022.8 | 1028.1 | 1032.5 | 1040.5 |
| 15°    | 843.9  | 847.4  | 856.3  | 874.0  | 897.9  | 926.3  | 965.2  | 996.2  | 999.8  | 1004.2 | 1011.3 |
| 17.5°  | 838.6  | 841.3  | 846.6  | 859.8  | 878.4  | 905.9  | 945.7  | 971.4  | 977.6  | 983.8  | 990.9  |
| 20°    | 859.8  | 861.6  | 863.4  | 865.2  | 875.8  | 893.5  | 932.5  | 959.9  | 965.2  | 970.5  | 979.4  |
| 22.5°  | 905.9  | 908.6  | 904.1  | 897.9  | 890.0  | 893.5  | 926.3  | 954.6  | 958.1  | 963.5  | 970.5  |
| 25°    | 985.6  | 982.9  | 969.7  | 959.9  | 931.6  | 908.6  | 928.0  | 951.9  | 956.4  | 961.7  | 969.7  |
| 27.5°  | 1079.5 | 1075.9 | 1067.9 | 1041.4 | 994.4  | 947.5  | 938.7  | 956.4  | 959.0  | 963.5  | 970.5  |
| 30°    | 1180.4 | 1181.3 | 1174.2 | 1145.0 | 1084.8 | 1006.0 | 962.6  | 967.0  | 968.8  | 972.3  | 976.7  |
| 32.5°  | 1271.6 | 1284.9 | 1284.0 | 1282.2 | 1196.3 | 1084.8 | 1008.6 | 990.9  | 988.2  | 990.9  | 992.7  |
| 35°    | 1377.0 | 1379.7 | 1404.4 | 1416.8 | 1346.9 | 1199.9 | 1075.9 | 1037.0 | 1026.3 | 1027.2 | 1025.4 |
| 37.5°  | 1490.3 | 1493.9 | 1536.4 | 1557.6 | 1503.6 | 1330.9 | 1165.4 | 1105.1 | 1095.4 | 1085.7 | 1078.6 |
| 40°    | 1655.0 | 1669.2 | 1691.4 | 1715.3 | 1688.7 | 1507.2 | 1283.1 | 1201.7 | 1176.9 | 1175.1 | 1160.9 |
| 42.5°  | 1901.2 | 1896.8 | 1886.2 | 1905.7 | 1873.8 | 1704.6 | 1425.7 | 1338.0 | 1319.4 | 1294.6 | 1275.2 |
| 45°    | 2143.0 | 2152.7 | 2106.7 | 2115.5 | 2117.3 | 1933.1 | 1632.0 | 1508.9 | 1499.2 | 1470.0 | 1448.7 |
| 47.5°  | 2305.9 | 2295.3 | 2233.3 | 2278.5 | 2389.2 | 2199.6 | 1871.1 | 1741.8 | 1721.5 | 1706.4 | 1693.1 |
| 50°    | 2314.8 | 2305.9 | 2266.1 | 2345.8 | 2582.2 | 2673.4 | 2204.1 | 2053.5 | 2024.3 | 1997.7 | 1989.8 |
| 52.5°  | 2098.7 | 2086.3 | 2099.6 | 2261.6 | 2652.2 | 3070.1 | 2674.3 | 2440.5 | 2416.6 | 2394.5 | 2363.5 |
| 55°    | 1713.5 | 1727.7 | 1790.5 | 2023.4 | 2545.0 | 3351.7 | 3599.7 | 3038.2 | 2935.5 | 2934.6 | 2858.5 |
| 57.5°  | 1279.6 | 1265.4 | 1312.4 | 1531.1 | 2274.0 | 3451.8 | 4449.8 | 4310.7 | 4081.4 | 3926.4 | 3739.6 |
| 60°    | 863.4  | 866.9  | 910.3  | 1022.8 | 1582.4 | 3342.9 | 5019.2 | 5503.5 | 5423.0 | 5390.2 | 5339.7 |
| 62.5°  | 598.6  | 603.9  | 643.8  | 749.2  | 925.4  | 2689.3 | 5185.6 | 6172.1 | 6316.5 | 6436.0 | 6406.8 |
| 65°    | 418.9  | 419.7  | 459.6  | 622.5  | 693.4  | 1381.4 | 4818.2 | 6260.7 | 6475.9 | 6681.3 | 6865.5 |
| 66°    | 369.3  | 370.2  | 402.9  | 579.1  | 665.0  | 1042.3 | 4499.4 | 6137.6 | 6382.9 | 6622.0 | 6812.4 |
| 67.5°  | 316.1  | 321.4  | 347.1  | 492.4  | 637.6  | 804.1  | 3716.6 | 5770.1 | 6026.9 | 6289.9 | 6541.4 |
| 70°    | 217.0  | 218.7  | 241.7  | 399.4  | 596.8  | 705.8  | 2118.2 | 4504.7 | 4859.8 | 5322.0 | 5589.4 |
| 72.5°  | 155.0  | 153.2  | 155.9  | 247.1  | 612.8  | 701.3  | 1113.1 | 2964.7 | 3461.5 | 3867.1 | 4156.7 |
| 75°    | 138.1  | 133.7  | 122.2  | 153.2  | 447.2  | 766.0  | 745.6  | 1745.4 | 2123.5 | 2492.8 | 2789.4 |
| 77.5°  | 123.1  | 116.0  | 109.8  | 117.8  | 221.4  | 721.7  | 669.5  | 999.8  | 1192.8 | 1468.2 | 1696.7 |
| 80°    | 93.9   | 89.4   | 93.0   | 101.8  | 132.8  | 664.1  | 665.0  | 665.0  | 717.3  | 807.6  | 897.9  |
| 82.5°  | 62.0   | 56.7   | 64.6   | 84.1   | 100.1  | 500.3  | 687.2  | 587.1  | 577.4  | 573.8  | 580.0  |
| 85°    | 39.0   | 33.7   | 45.2   | 62.9   | 77.0   | 261.2  | 704.9  | 619.9  | 574.7  | 531.3  | 487.9  |
| 87.5°  | 14.2   | 15.9   | 23.0   | 36.3   | 50.5   | 113.3  | 618.1  | 546.4  | 515.4  | 461.4  | 410.9  |
| 90°    | 8.5    | 7.7    | 11.4   | 18.6   | 19.5   | 28.3   | 101.8  | 159.4  | 98.5   | 53.6   | 44.9   |
| 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    | 7.5    | 7.6    | 7.7    | 7.8    |
| 97.5°  | 7.0    | 7.0    | 8.0    | 8.0    | 9.0    | 9.0    | 12.0   | 11.0   | 10.8   | 10.6   | 10.4   |
| 100°   | 8.0    | 8.0    | 9.0    | 10.0   | 12.0   | 21.0   | 29.0   | 27.5   | 27.2   | 26.9   | 26.6   |
| 102.5° | 11.0   | 11.0   | 13.0   | 18.0   | 27.0   | 40.0   | 50.0   | 48.5   | 48.2   | 47.9   | 47.6   |
| 105°   | 21.0   | 22.0   | 27.0   | 36.0   | 48.0   | 63.0   | 72.0   | 71.0   | 70.8   | 70.6   | 70.4   |
| 107.5° | 41.0   | 42.0   | 49.0   | 58.0   | 73.0   | 88.0   | 95.0   | 94.5   | 94.4   | 94.3   | 94.2   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 60°   | 61°   | 62°   | 63°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 66.0  | 68.0  | 74.0  | 87.0  | 102.0 | 114.0 | 120.0 | 120.5 | 120.6 | 120.7 | 120.8 |
| 112.5° | 99.0  | 99.0  | 106.0 | 121.0 | 134.0 | 143.0 | 148.0 | 149.0 | 149.2 | 149.4 | 149.6 |
| 115°   | 140.0 | 139.0 | 147.0 | 159.0 | 168.0 | 174.0 | 179.0 | 180.5 | 180.8 | 181.1 | 181.4 |
| 117.5° | 184.0 | 184.0 | 189.0 | 197.0 | 202.0 | 205.0 | 211.0 | 213.0 | 213.4 | 213.8 | 214.2 |
| 120°   | 225.0 | 223.0 | 226.0 | 233.0 | 237.0 | 243.0 | 246.0 | 248.0 | 248.4 | 248.8 | 249.2 |
| 122.5° | 263.0 | 260.0 | 261.0 | 267.0 | 271.0 | 277.0 | 279.0 | 281.0 | 281.4 | 281.8 | 282.2 |
| 125°   | 298.0 | 294.0 | 296.0 | 299.0 | 305.0 | 310.0 | 313.0 | 314.0 | 314.2 | 314.4 | 314.6 |
| 127.5° | 330.0 | 329.0 | 329.0 | 333.0 | 339.0 | 340.0 | 345.0 | 345.5 | 345.6 | 345.7 | 345.8 |
| 130°   | 363.0 | 361.0 | 362.0 | 366.0 | 370.0 | 372.0 | 377.0 | 379.0 | 379.4 | 379.8 | 380.2 |
| 132.5° | 396.0 | 394.0 | 393.0 | 401.0 | 404.0 | 405.0 | 411.0 | 413.5 | 414.0 | 414.5 | 415.0 |
| 135°   | 429.0 | 426.0 | 426.0 | 432.0 | 435.0 | 437.0 | 443.0 | 445.5 | 446.0 | 446.5 | 447.0 |
| 137.5° | 460.0 | 457.0 | 459.0 | 460.0 | 464.0 | 468.0 | 473.0 | 474.0 | 474.2 | 474.4 | 474.6 |
| 140°   | 488.0 | 485.0 | 487.0 | 489.0 | 491.0 | 497.0 | 500.0 | 501.0 | 501.2 | 501.4 | 501.6 |
| 142.5° | 518.0 | 515.0 | 517.0 | 518.0 | 521.0 | 525.0 | 527.0 | 530.0 | 530.6 | 531.2 | 531.8 |
| 145°   | 550.0 | 546.0 | 544.0 | 547.0 | 550.0 | 551.0 | 556.0 | 559.0 | 559.6 | 560.2 | 560.8 |
| 147.5° | 575.0 | 572.0 | 571.0 | 574.0 | 574.0 | 575.0 | 580.0 | 582.5 | 583.0 | 583.5 | 584.0 |
| 150°   | 595.0 | 592.0 | 593.0 | 593.0 | 593.0 | 593.0 | 597.0 | 598.5 | 598.8 | 599.1 | 599.4 |
| 152.5° | 611.0 | 608.0 | 608.0 | 609.0 | 610.0 | 610.0 | 611.0 | 612.5 | 612.8 | 613.1 | 613.4 |
| 155°   | 629.0 | 625.0 | 625.0 | 627.0 | 630.0 | 628.0 | 626.0 | 628.5 | 629.0 | 629.5 | 630.0 |
| 157.5° | 646.0 | 643.0 | 643.0 | 644.0 | 646.0 | 645.0 | 644.0 | 646.0 | 646.4 | 646.8 | 647.2 |
| 160°   | 663.0 | 660.0 | 659.0 | 656.0 | 655.0 | 655.0 | 658.0 | 661.0 | 661.6 | 662.2 | 662.8 |
| 162.5° | 673.0 | 669.0 | 669.0 | 665.0 | 661.0 | 663.0 | 667.0 | 669.0 | 669.4 | 669.8 | 670.2 |
| 165°   | 681.0 | 678.0 | 676.0 | 676.0 | 673.0 | 673.0 | 672.0 | 674.5 | 675.0 | 675.5 | 676.0 |
| 167.5° | 690.0 | 687.0 | 684.0 | 686.0 | 688.0 | 685.0 | 678.0 | 681.0 | 681.6 | 682.2 | 682.8 |
| 170°   | 698.0 | 695.0 | 692.0 | 692.0 | 693.0 | 691.0 | 686.0 | 687.5 | 687.8 | 688.1 | 688.4 |
| 172.5° | 699.0 | 697.0 | 695.0 | 693.0 | 690.0 | 690.0 | 689.0 | 690.5 | 690.8 | 691.1 | 691.4 |
| 175°   | 700.0 | 698.0 | 697.0 | 695.0 | 691.0 | 690.0 | 690.0 | 692.5 | 693.0 | 693.5 | 694.0 |
| 177.5° | 707.0 | 705.0 | 700.0 | 699.0 | 697.0 | 695.0 | 694.0 | 696.5 | 697.0 | 697.5 | 698.0 |
| 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):**

|        | 64°    | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 |
| 2.5°   | 1216.7 | 1221.1 | 1222.9 | 1221.1 | 1222.0 | 1227.3 | 1225.6 | 1228.2 | 1228.2 | 1230.0 | 1230.0 |
| 5°     | 1176.9 | 1180.4 | 1187.5 | 1186.6 | 1193.7 | 1196.3 | 1199.0 | 1202.5 | 1207.0 | 1209.6 | 1214.9 |
| 7.5°   | 1129.9 | 1137.0 | 1143.2 | 1146.8 | 1151.2 | 1160.0 | 1162.7 | 1170.7 | 1177.8 | 1184.8 | 1190.1 |
| 10°    | 1084.8 | 1094.5 | 1101.6 | 1104.3 | 1114.0 | 1118.4 | 1128.2 | 1134.4 | 1143.2 | 1152.1 | 1160.0 |
| 12.5°  | 1046.7 | 1055.5 | 1059.1 | 1067.9 | 1076.8 | 1085.7 | 1090.1 | 1101.6 | 1110.5 | 1122.0 | 1132.6 |
| 15°    | 1018.4 | 1027.2 | 1034.3 | 1040.5 | 1049.3 | 1058.2 | 1065.3 | 1076.8 | 1087.4 | 1098.9 | 1108.7 |
| 17.5°  | 1000.6 | 1006.0 | 1014.8 | 1020.1 | 1030.8 | 1041.4 | 1049.3 | 1062.6 | 1074.1 | 1083.9 | 1097.2 |
| 20°    | 987.4  | 993.6  | 1001.5 | 1009.5 | 1019.2 | 1032.5 | 1039.6 | 1053.8 | 1066.2 | 1077.7 | 1090.1 |
| 22.5°  | 980.3  | 986.5  | 994.4  | 1002.4 | 1013.0 | 1023.7 | 1035.2 | 1047.6 | 1060.9 | 1073.3 | 1085.7 |
| 25°    | 977.6  | 982.9  | 990.0  | 998.0  | 1009.5 | 1021.0 | 1030.8 | 1044.9 | 1056.4 | 1069.7 | 1084.8 |
| 27.5°  | 978.5  | 982.0  | 990.0  | 997.1  | 1008.6 | 1019.2 | 1029.0 | 1043.2 | 1056.4 | 1068.8 | 1083.9 |
| 30°    | 982.0  | 984.7  | 992.7  | 998.9  | 1008.6 | 1019.2 | 1028.1 | 1043.2 | 1054.7 | 1067.9 | 1083.9 |
| 32.5°  | 994.4  | 998.0  | 1001.5 | 1006.0 | 1014.8 | 1022.8 | 1033.4 | 1046.7 | 1057.3 | 1070.6 | 1083.9 |
| 35°    | 1023.7 | 1021.0 | 1023.7 | 1025.4 | 1031.6 | 1039.6 | 1047.6 | 1059.1 | 1068.8 | 1080.3 | 1094.5 |
| 37.5°  | 1069.7 | 1064.4 | 1066.2 | 1065.3 | 1065.3 | 1070.6 | 1078.6 | 1086.5 | 1094.5 | 1106.0 | 1120.2 |
| 40°    | 1154.7 | 1141.4 | 1137.9 | 1128.2 | 1125.5 | 1129.9 | 1135.2 | 1136.1 | 1145.9 | 1160.9 | 1167.1 |
| 42.5°  | 1264.5 | 1246.8 | 1249.5 | 1233.5 | 1229.1 | 1223.8 | 1230.9 | 1226.5 | 1232.7 | 1242.4 | 1255.7 |
| 45°    | 1438.1 | 1421.3 | 1403.6 | 1377.9 | 1383.2 | 1363.7 | 1358.4 | 1360.2 | 1359.3 | 1362.8 | 1378.8 |
| 47.5°  | 1645.3 | 1623.2 | 1611.7 | 1601.9 | 1583.3 | 1571.8 | 1556.8 | 1534.6 | 1539.9 | 1547.0 | 1561.2 |
| 50°    | 1948.2 | 1941.1 | 1918.9 | 1887.1 | 1882.6 | 1865.8 | 1861.4 | 1841.9 | 1834.8 | 1833.9 | 1833.0 |
| 52.5°  | 2352.8 | 2306.8 | 2297.9 | 2267.8 | 2244.8 | 2228.9 | 2223.6 | 2196.1 | 2168.7 | 2184.6 | 2182.8 |
| 55°    | 2846.1 | 2808.0 | 2759.3 | 2732.7 | 2714.1 | 2676.1 | 2666.3 | 2631.8 | 2615.8 | 2607.0 | 2584.9 |
| 57.5°  | 3674.9 | 3541.2 | 3441.2 | 3391.6 | 3321.6 | 3250.8 | 3226.0 | 3155.1 | 3100.2 | 3061.3 | 3063.9 |
| 60°    | 5120.1 | 4881.9 | 4601.2 | 4475.5 | 4184.1 | 4141.6 | 3941.5 | 3892.8 | 3772.3 | 3692.6 | 3646.6 |
| 62.5°  | 6386.4 | 6321.8 | 6187.2 | 6003.9 | 5711.6 | 5375.1 | 5223.7 | 4922.6 | 4687.1 | 4584.4 | 4441.8 |
| 65°    | 6991.2 | 7082.4 | 7119.6 | 7085.1 | 6968.2 | 6762.8 | 6582.1 | 6288.1 | 5893.2 | 5670.0 | 5392.9 |
| 66°    | 6960.2 | 7095.7 | 7163.9 | 7199.3 | 7156.8 | 7035.5 | 6846.0 | 6604.3 | 6298.8 | 5958.7 | 5647.9 |
| 67.5°  | 6733.5 | 6865.5 | 6960.2 | 7068.3 | 7068.3 | 7030.2 | 6953.2 | 6792.0 | 6575.9 | 6279.3 | 6000.3 |
| 70°    | 5807.3 | 5986.2 | 6153.5 | 6186.3 | 6278.4 | 6250.0 | 6311.1 | 6208.4 | 6157.1 | 6033.1 | 5883.4 |
| 72.5°  | 4524.2 | 4673.8 | 4817.3 | 4960.7 | 4936.8 | 4905.8 | 4899.6 | 4920.9 | 4816.4 | 4853.6 | 4814.6 |
| 75°    | 3009.0 | 3266.7 | 3413.7 | 3399.5 | 3409.3 | 3417.2 | 3351.7 | 3205.6 | 3319.0 | 3175.5 | 3223.3 |
| 77.5°  | 1828.6 | 1948.2 | 1988.0 | 1943.7 | 1886.2 | 1811.8 | 1692.2 | 1622.3 | 1522.2 | 1530.2 | 1463.8 |
| 80°    | 959.0  | 974.1  | 942.2  | 852.8  | 804.1  | 759.8  | 623.4  | 562.3  | 505.6  | 484.4  | 436.6  |
| 82.5°  | 549.9  | 513.6  | 474.6  | 444.5  | 387.0  | 348.0  | 294.9  | 261.2  | 224.9  | 193.0  | 181.5  |
| 85°    | 445.4  | 396.7  | 360.4  | 326.8  | 287.8  | 253.3  | 209.0  | 174.4  | 147.9  | 128.4  | 124.0  |
| 87.5°  | 367.5  | 333.8  | 296.7  | 264.8  | 226.7  | 191.3  | 147.9  | 115.1  | 91.2   | 73.5   | 68.2   |
| 90°    | 41.6   | 53.3   | 40.9   | 26.7   | 35.6   | 23.2   | 17.0   | 17.9   | 16.1   | 16.1   | 17.0   |
| 92.5°  | 7.0    | 7.0    | 6.9    | 6.8    | 6.7    | 6.6    | 6.5    | 6.4    | 6.3    | 6.2    | 6.1    |
| 95°    | 7.9    | 8.0    | 7.9    | 7.8    | 7.7    | 7.6    | 7.5    | 7.4    | 7.3    | 7.2    | 7.1    |
| 97.5°  | 10.2   | 10.0   | 9.9    | 9.8    | 9.7    | 9.6    | 9.5    | 9.4    | 9.3    | 9.2    | 9.1    |
| 100°   | 26.3   | 26.0   | 25.7   | 25.4   | 25.1   | 24.8   | 24.5   | 24.2   | 23.9   | 23.6   | 23.3   |
| 102.5° | 47.3   | 47.0   | 46.5   | 46.0   | 45.5   | 45.0   | 44.5   | 44.0   | 43.5   | 43.0   | 42.5   |
| 105°   | 70.2   | 70.0   | 69.5   | 69.0   | 68.5   | 68.0   | 67.5   | 67.0   | 66.5   | 66.0   | 65.5   |
| 107.5° | 94.1   | 94.0   | 93.6   | 93.2   | 92.8   | 92.4   | 92.0   | 91.6   | 91.2   | 90.8   | 90.4   |



REPORT NUMBER: P226839

CATALOG NUMBER: IST-AF-1200-LED-E1-SL2-7030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 64°   | 65°   | 66°   | 67°   | 68°   | 69°   | 70°   | 71°   | 72°   | 73°   | 74°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 120.9 | 121.0 | 120.8 | 120.6 | 120.4 | 120.2 | 120.0 | 119.8 | 119.6 | 119.4 | 119.2 |
| 112.5° | 149.8 | 150.0 | 149.9 | 149.8 | 149.7 | 149.6 | 149.5 | 149.4 | 149.3 | 149.2 | 149.1 |
| 115°   | 181.7 | 182.0 | 181.7 | 181.4 | 181.1 | 180.8 | 180.5 | 180.2 | 179.9 | 179.6 | 179.3 |
| 117.5° | 214.6 | 215.0 | 214.5 | 214.0 | 213.5 | 213.0 | 212.5 | 212.0 | 211.5 | 211.0 | 210.5 |
| 120°   | 249.6 | 250.0 | 249.5 | 249.0 | 248.5 | 248.0 | 247.5 | 247.0 | 246.5 | 246.0 | 245.5 |
| 122.5° | 282.6 | 283.0 | 282.5 | 282.0 | 281.5 | 281.0 | 280.5 | 280.0 | 279.5 | 279.0 | 278.5 |
| 125°   | 314.8 | 315.0 | 314.5 | 314.0 | 313.5 | 313.0 | 312.5 | 312.0 | 311.5 | 311.0 | 310.5 |
| 127.5° | 345.9 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 |
| 130°   | 380.6 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 |
| 132.5° | 415.5 | 416.0 | 415.8 | 415.6 | 415.4 | 415.2 | 415.0 | 414.8 | 414.6 | 414.4 | 414.2 |
| 135°   | 447.5 | 448.0 | 447.9 | 447.8 | 447.7 | 447.6 | 447.5 | 447.4 | 447.3 | 447.2 | 447.1 |
| 137.5° | 474.8 | 475.0 | 475.1 | 475.2 | 475.3 | 475.4 | 475.5 | 475.6 | 475.7 | 475.8 | 475.9 |
| 140°   | 501.8 | 502.0 | 502.2 | 502.4 | 502.6 | 502.8 | 503.0 | 503.2 | 503.4 | 503.6 | 503.8 |
| 142.5° | 532.4 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 |
| 145°   | 561.4 | 562.0 | 561.9 | 561.8 | 561.7 | 561.6 | 561.5 | 561.4 | 561.3 | 561.2 | 561.1 |
| 147.5° | 584.5 | 585.0 | 585.1 | 585.2 | 585.3 | 585.4 | 585.5 | 585.6 | 585.7 | 585.8 | 585.9 |
| 150°   | 599.7 | 600.0 | 600.3 | 600.6 | 600.9 | 601.2 | 601.5 | 601.8 | 602.1 | 602.4 | 602.7 |
| 152.5° | 613.7 | 614.0 | 614.4 | 614.8 | 615.2 | 615.6 | 616.0 | 616.4 | 616.8 | 617.2 | 617.6 |
| 155°   | 630.5 | 631.0 | 631.5 | 632.0 | 632.5 | 633.0 | 633.5 | 634.0 | 634.5 | 635.0 | 635.5 |
| 157.5° | 647.6 | 648.0 | 648.2 | 648.4 | 648.6 | 648.8 | 649.0 | 649.2 | 649.4 | 649.6 | 649.8 |
| 160°   | 663.4 | 664.0 | 663.7 | 663.4 | 663.1 | 662.8 | 662.5 | 662.2 | 661.9 | 661.6 | 661.3 |
| 162.5° | 670.6 | 671.0 | 670.9 | 670.8 | 670.7 | 670.6 | 670.5 | 670.4 | 670.3 | 670.2 | 670.1 |
| 165°   | 676.5 | 677.0 | 677.3 | 677.6 | 677.9 | 678.2 | 678.5 | 678.8 | 679.1 | 679.4 | 679.7 |
| 167.5° | 683.4 | 684.0 | 684.4 | 684.8 | 685.2 | 685.6 | 686.0 | 686.4 | 686.8 | 687.2 | 687.6 |
| 170°   | 688.7 | 689.0 | 689.5 | 690.0 | 690.5 | 691.0 | 691.5 | 692.0 | 692.5 | 693.0 | 693.5 |
| 172.5° | 691.7 | 692.0 | 692.2 | 692.4 | 692.6 | 692.8 | 693.0 | 693.2 | 693.4 | 693.6 | 693.8 |
| 175°   | 694.5 | 695.0 | 695.1 | 695.2 | 695.3 | 695.4 | 695.5 | 695.6 | 695.7 | 695.8 | 695.9 |
| 177.5° | 698.5 | 699.0 | 699.2 | 699.4 | 699.6 | 699.8 | 700.0 | 700.2 | 700.4 | 700.6 | 700.8 |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |



REPORT NUMBER: P226839

CATALOG NUMBER: IST-AF-1200-LED-E1-SL2-7030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 75°    | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 |
| 2.5°   | 1232.7 | 1232.7 | 1234.4 | 1236.2 | 1237.1 | 1237.1 | 1237.1 | 1238.9 | 1239.7 | 1237.1 | 1239.7 |
| 5°     | 1217.6 | 1222.0 | 1225.6 | 1228.2 | 1229.1 | 1231.8 | 1234.4 | 1236.2 | 1238.9 | 1238.9 | 1240.6 |
| 7.5°   | 1197.2 | 1205.2 | 1209.6 | 1214.1 | 1218.5 | 1222.9 | 1228.2 | 1231.8 | 1233.5 | 1237.1 | 1239.7 |
| 10°    | 1171.6 | 1181.3 | 1190.1 | 1197.2 | 1203.4 | 1212.3 | 1219.4 | 1224.7 | 1232.7 | 1233.5 | 1239.7 |
| 12.5°  | 1144.1 | 1158.3 | 1165.4 | 1178.6 | 1187.5 | 1200.8 | 1207.9 | 1215.8 | 1224.7 | 1229.1 | 1236.2 |
| 15°    | 1124.6 | 1137.0 | 1150.3 | 1162.7 | 1176.9 | 1192.8 | 1201.7 | 1212.3 | 1224.7 | 1234.4 | 1243.3 |
| 17.5°  | 1109.6 | 1126.4 | 1141.4 | 1157.4 | 1175.1 | 1191.9 | 1205.2 | 1216.7 | 1232.7 | 1238.0 | 1246.8 |
| 20°    | 1105.1 | 1123.7 | 1138.8 | 1155.6 | 1174.2 | 1196.3 | 1212.3 | 1224.7 | 1240.6 | 1249.5 | 1257.4 |
| 22.5°  | 1103.4 | 1121.1 | 1138.8 | 1159.2 | 1179.5 | 1202.5 | 1219.4 | 1235.3 | 1251.2 | 1259.2 | 1265.4 |
| 25°    | 1101.6 | 1120.2 | 1139.7 | 1162.7 | 1184.8 | 1208.7 | 1228.2 | 1243.3 | 1258.3 | 1266.3 | 1271.6 |
| 27.5°  | 1101.6 | 1121.1 | 1142.3 | 1165.4 | 1189.3 | 1215.8 | 1234.4 | 1248.6 | 1261.9 | 1269.0 | 1270.7 |
| 30°    | 1100.7 | 1121.1 | 1141.4 | 1167.1 | 1192.8 | 1220.3 | 1240.6 | 1253.9 | 1265.4 | 1269.8 | 1268.1 |
| 32.5°  | 1102.5 | 1123.7 | 1145.9 | 1171.6 | 1198.1 | 1224.7 | 1245.9 | 1261.0 | 1267.2 | 1266.3 | 1265.4 |
| 35°    | 1111.3 | 1130.8 | 1156.5 | 1182.2 | 1209.6 | 1234.4 | 1254.8 | 1265.4 | 1270.7 | 1269.0 | 1264.5 |
| 37.5°  | 1135.2 | 1154.7 | 1180.4 | 1208.7 | 1230.0 | 1258.3 | 1276.9 | 1284.9 | 1285.8 | 1280.5 | 1269.8 |
| 40°    | 1184.8 | 1204.3 | 1227.3 | 1258.3 | 1284.0 | 1303.5 | 1321.2 | 1330.1 | 1324.7 | 1315.0 | 1303.5 |
| 42.5°  | 1263.6 | 1288.4 | 1315.9 | 1340.7 | 1370.8 | 1397.4 | 1401.8 | 1407.1 | 1398.2 | 1379.7 | 1365.5 |
| 45°    | 1390.3 | 1405.3 | 1440.8 | 1459.3 | 1498.3 | 1511.6 | 1521.3 | 1524.0 | 1504.5 | 1489.5 | 1464.7 |
| 47.5°  | 1572.7 | 1601.9 | 1626.7 | 1644.4 | 1672.8 | 1690.5 | 1710.0 | 1701.1 | 1686.0 | 1660.4 | 1627.6 |
| 50°    | 1859.6 | 1878.2 | 1910.1 | 1942.0 | 1972.1 | 1984.5 | 1984.5 | 1975.6 | 1965.9 | 1916.3 | 1876.4 |
| 52.5°  | 2212.0 | 2213.8 | 2259.9 | 2297.9 | 2323.6 | 2305.0 | 2327.2 | 2305.0 | 2298.8 | 2264.3 | 2231.5 |
| 55°    | 2620.3 | 2603.4 | 2659.2 | 2692.9 | 2715.9 | 2738.0 | 2733.6 | 2731.0 | 2707.9 | 2669.0 | 2629.1 |
| 57.5°  | 3008.1 | 3056.8 | 3083.4 | 3133.0 | 3144.5 | 3159.6 | 3153.4 | 3144.5 | 3131.2 | 3109.1 | 3091.4 |
| 60°    | 3567.8 | 3600.6 | 3624.5 | 3634.2 | 3667.0 | 3671.4 | 3693.5 | 3657.2 | 3666.1 | 3640.4 | 3584.6 |
| 62.5°  | 4329.3 | 4293.9 | 4312.5 | 4312.5 | 4302.8 | 4268.2 | 4286.8 | 4301.0 | 4277.1 | 4255.8 | 4247.0 |
| 65°    | 5182.1 | 5067.9 | 4958.1 | 4939.5 | 4889.0 | 4877.5 | 4863.3 | 4827.9 | 4812.8 | 4775.6 | 4745.5 |
| 66°    | 5437.1 | 5260.0 | 5156.4 | 5092.7 | 5031.6 | 5018.3 | 4998.8 | 4961.6 | 4931.5 | 4879.3 | 4828.8 |
| 67.5°  | 5723.2 | 5494.7 | 5338.8 | 5248.5 | 5173.2 | 5123.7 | 5084.7 | 5031.6 | 4983.7 | 4905.8 | 4825.2 |
| 70°    | 5704.6 | 5515.9 | 5328.2 | 5191.0 | 5077.6 | 4975.8 | 4915.6 | 4801.3 | 4703.9 | 4592.3 | 4500.2 |
| 72.5°  | 4793.4 | 4759.7 | 4650.8 | 4573.7 | 4434.7 | 4380.7 | 4221.3 | 4148.7 | 4014.1 | 3869.8 | 3825.5 |
| 75°    | 3332.2 | 3200.3 | 3144.5 | 3113.5 | 3052.4 | 2884.2 | 2774.4 | 2798.3 | 2640.6 | 2499.8 | 2419.3 |
| 77.5°  | 1456.7 | 1483.3 | 1329.2 | 1260.1 | 1207.0 | 1115.8 | 1030.8 | 972.3  | 938.7  | 916.5  | 816.5  |
| 80°    | 402.9  | 351.6  | 347.1  | 322.3  | 317.0  | 282.5  | 286.9  | 262.1  | 245.3  | 241.7  | 233.8  |
| 82.5°  | 176.2  | 172.7  | 167.4  | 164.7  | 162.1  | 158.5  | 154.1  | 153.2  | 147.9  | 143.5  | 144.3  |
| 85°    | 116.9  | 116.0  | 113.3  | 110.7  | 106.3  | 100.1  | 95.6   | 92.1   | 93.0   | 88.6   | 87.7   |
| 87.5°  | 68.2   | 66.4   | 65.5   | 62.0   | 61.1   | 55.8   | 56.7   | 52.2   | 51.4   | 50.5   | 47.8   |
| 90°    | 18.7   | 19.4   | 21.9   | 20.8   | 17.1   | 24.8   | 22.0   | 20.0   | 20.7   | 17.8   | 17.6   |
| 92.5°  | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    |
| 95°    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    |
| 97.5°  | 9.0    | 8.9    | 8.8    | 8.7    | 8.6    | 8.5    | 8.4    | 8.3    | 8.2    | 8.1    | 8.0    |
| 100°   | 23.0   | 22.6   | 22.2   | 21.8   | 21.4   | 21.0   | 20.6   | 20.2   | 19.8   | 19.4   | 19.0   |
| 102.5° | 42.0   | 41.7   | 41.4   | 41.1   | 40.8   | 40.5   | 40.2   | 39.9   | 39.6   | 39.3   | 39.0   |
| 105°   | 65.0   | 64.6   | 64.2   | 63.8   | 63.4   | 63.0   | 62.6   | 62.2   | 61.8   | 61.4   | 61.0   |
| 107.5° | 90.0   | 89.7   | 89.4   | 89.1   | 88.8   | 88.5   | 88.2   | 87.9   | 87.6   | 87.3   | 87.0   |



REPORT NUMBER: P226839  
 CATALOG NUMBER: IST-AF-1200-LED-E1-SL2-7030-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 75°   | 76°   | 77°   | 78°   | 79°   | 80°   | 81°   | 82°   | 83°   | 84°   | 85°   |        |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110°   | 119.0 | 118.7 | 118.4 | 118.1 | 117.8 | 117.5 | 117.2 | 116.9 | 116.6 | 116.3 | 116.0 | 0°     |
| 112.5° | 149.0 | 148.8 | 148.6 | 148.4 | 148.2 | 148.0 | 147.8 | 147.6 | 147.4 | 147.2 | 147.0 | 2.5°   |
| 115°   | 179.0 | 178.8 | 178.6 | 178.4 | 178.2 | 178.0 | 177.8 | 177.6 | 177.4 | 177.2 | 177.0 | 5°     |
| 117.5° | 210.0 | 209.8 | 209.6 | 209.4 | 209.2 | 209.0 | 208.8 | 208.6 | 208.4 | 208.2 | 208.0 | 7.5°   |
| 120°   | 245.0 | 244.8 | 244.6 | 244.4 | 244.2 | 244.0 | 243.8 | 243.6 | 243.4 | 243.2 | 243.0 | 10°    |
| 122.5° | 278.0 | 277.8 | 277.6 | 277.4 | 277.2 | 277.0 | 276.8 | 276.6 | 276.4 | 276.2 | 276.0 | 12.5°  |
| 125°   | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 15°    |
| 127.5° | 346.0 | 345.9 | 345.8 | 345.7 | 345.6 | 345.5 | 345.4 | 345.3 | 345.2 | 345.1 | 345.0 | 17.5°  |
| 130°   | 381.0 | 380.8 | 380.6 | 380.4 | 380.2 | 380.0 | 379.8 | 379.6 | 379.4 | 379.2 | 379.0 | 20°    |
| 132.5° | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 22.5°  |
| 135°   | 447.0 | 447.3 | 447.6 | 447.9 | 448.2 | 448.5 | 448.8 | 449.1 | 449.4 | 449.7 | 450.0 | 25°    |
| 137.5° | 476.0 | 476.5 | 477.0 | 477.5 | 478.0 | 478.5 | 479.0 | 479.5 | 480.0 | 480.5 | 481.0 | 27.5°  |
| 140°   | 504.0 | 504.5 | 505.0 | 505.5 | 506.0 | 506.5 | 507.0 | 507.5 | 508.0 | 508.5 | 509.0 | 30°    |
| 142.5° | 533.0 | 533.1 | 533.2 | 533.3 | 533.4 | 533.5 | 533.6 | 533.7 | 533.8 | 533.9 | 534.0 | 32.5°  |
| 145°   | 561.0 | 560.7 | 560.4 | 560.1 | 559.8 | 559.5 | 559.2 | 558.9 | 558.6 | 558.3 | 558.0 | 35°    |
| 147.5° | 586.0 | 585.7 | 585.4 | 585.1 | 584.8 | 584.5 | 584.2 | 583.9 | 583.6 | 583.3 | 583.0 | 37.5°  |
| 150°   | 603.0 | 603.3 | 603.6 | 603.9 | 604.2 | 604.5 | 604.8 | 605.1 | 605.4 | 605.7 | 606.0 | 40°    |
| 152.5° | 618.0 | 618.5 | 619.0 | 619.5 | 620.0 | 620.5 | 621.0 | 621.5 | 622.0 | 622.5 | 623.0 | 42.5°  |
| 155°   | 636.0 | 636.2 | 636.4 | 636.6 | 636.8 | 637.0 | 637.2 | 637.4 | 637.6 | 637.8 | 638.0 | 45°    |
| 157.5° | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 47.5°  |
| 160°   | 661.0 | 660.9 | 660.8 | 660.7 | 660.6 | 660.5 | 660.4 | 660.3 | 660.2 | 660.1 | 660.0 | 50°    |
| 162.5° | 670.0 | 669.8 | 669.6 | 669.4 | 669.2 | 669.0 | 668.8 | 668.6 | 668.4 | 668.2 | 668.0 | 52.5°  |
| 165°   | 680.0 | 679.8 | 679.6 | 679.4 | 679.2 | 679.0 | 678.8 | 678.6 | 678.4 | 678.2 | 678.0 | 55°    |
| 167.5° | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 57.5°  |
| 170°   | 694.0 | 694.2 | 694.4 | 694.6 | 694.8 | 695.0 | 695.2 | 695.4 | 695.6 | 695.8 | 696.0 | 60°    |
| 172.5° | 694.0 | 694.2 | 694.4 | 694.6 | 694.8 | 695.0 | 695.2 | 695.4 | 695.6 | 695.8 | 696.0 | 62.5°  |
| 175°   | 696.0 | 695.8 | 695.6 | 695.4 | 695.2 | 695.0 | 694.8 | 694.6 | 694.4 | 694.2 | 694.0 | 65°    |
| 177.5° | 701.0 | 700.7 | 700.4 | 700.1 | 699.8 | 699.5 | 699.2 | 698.9 | 698.6 | 698.3 | 698.0 | 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: P226839  
 NUMBER: IST-AF-1200-LED-E1-SL2-7030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 86°    | 87°    | 88°    | 89°    | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 86°    |       |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 1240.6 | 110°   | 116.2 |
| 1242.4 | 1244.2 | 1245.1 | 1244.2 | 1245.9 | 1245.1 | 1245.9 | 1245.1 | 1240.6 | 1239.7 | 1238.9 | 112.5° | 147.0 |
| 1244.2 | 1247.7 | 1248.6 | 1249.5 | 1247.7 | 1249.5 | 1245.9 | 1231.8 | 1215.8 | 1198.1 | 1183.9 | 115°   | 177.2 |
| 1245.9 | 1250.4 | 1253.0 | 1253.0 | 1253.9 | 1252.1 | 1238.9 | 1207.9 | 1170.7 | 1133.5 | 1105.1 | 117.5° | 208.2 |
| 1245.1 | 1251.2 | 1253.9 | 1254.8 | 1254.8 | 1251.2 | 1219.4 | 1169.8 | 1113.1 | 1056.4 | 998.9  | 120°   | 243.0 |
| 1242.4 | 1247.7 | 1252.1 | 1252.1 | 1253.0 | 1240.6 | 1191.0 | 1120.2 | 1039.6 | 954.6  | 877.6  | 122.5° | 276.2 |
| 1247.7 | 1253.0 | 1253.0 | 1253.0 | 1252.1 | 1230.9 | 1160.9 | 1058.2 | 950.2  | 835.1  | 720.8  | 125°   | 310.0 |
| 1255.7 | 1258.3 | 1256.6 | 1256.6 | 1253.0 | 1221.1 | 1127.3 | 997.1  | 855.4  | 703.1  | 543.7  | 127.5° | 345.4 |
| 1262.8 | 1264.5 | 1263.6 | 1259.2 | 1254.8 | 1210.5 | 1092.7 | 932.5  | 742.1  | 543.7  | 385.2  | 130°   | 379.2 |
| 1269.8 | 1271.6 | 1267.2 | 1260.1 | 1253.9 | 1196.3 | 1051.1 | 850.1  | 613.7  | 371.9  | 255.0  | 132.5° | 414.2 |
| 1270.7 | 1272.5 | 1264.5 | 1254.8 | 1245.9 | 1175.1 | 1000.6 | 762.4  | 472.9  | 240.9  | 199.2  | 135°   | 450.2 |
| 1269.8 | 1268.1 | 1254.8 | 1242.4 | 1232.7 | 1149.4 | 944.9  | 653.5  | 315.2  | 181.5  | 173.6  | 137.5° | 481.2 |
| 1263.6 | 1255.7 | 1245.1 | 1230.9 | 1216.7 | 1121.1 | 889.1  | 532.2  | 199.2  | 157.6  | 157.6  | 140°   | 509.4 |
| 1254.8 | 1246.8 | 1233.5 | 1214.9 | 1199.0 | 1093.6 | 825.3  | 408.2  | 159.4  | 145.2  | 147.0  | 142.5° | 534.4 |
| 1251.2 | 1242.4 | 1222.9 | 1203.4 | 1183.1 | 1068.8 | 758.0  | 274.5  | 143.5  | 137.3  | 138.1  | 145°   | 558.4 |
| 1258.3 | 1243.3 | 1223.8 | 1201.7 | 1177.8 | 1047.6 | 688.1  | 191.3  | 135.5  | 128.4  | 130.2  | 147.5° | 583.4 |
| 1282.2 | 1268.1 | 1245.1 | 1216.7 | 1191.0 | 1035.2 | 613.7  | 158.5  | 127.5  | 121.3  | 121.3  | 150°   | 606.8 |
| 1339.8 | 1321.2 | 1290.2 | 1256.6 | 1225.6 | 1043.2 | 547.3  | 144.3  | 121.3  | 115.1  | 115.1  | 152.5° | 624.0 |
| 1432.8 | 1410.6 | 1374.3 | 1336.3 | 1295.5 | 1082.1 | 472.0  | 139.0  | 116.9  | 108.0  | 106.3  | 155°   | 638.6 |
| 1592.2 | 1563.0 | 1515.1 | 1470.0 | 1421.3 | 1149.4 | 395.8  | 135.5  | 111.6  | 103.6  | 100.1  | 157.5° | 651.0 |
| 1842.8 | 1799.4 | 1742.7 | 1683.4 | 1624.1 | 1272.5 | 335.6  | 131.9  | 108.0  | 100.1  | 96.5   | 160°   | 661.2 |
| 2165.1 | 2135.9 | 2065.0 | 1987.1 | 1916.3 | 1517.8 | 301.1  | 129.3  | 105.4  | 95.6   | 93.0   | 162.5° | 669.2 |
| 2576.0 | 2528.2 | 2472.4 | 2402.4 | 2318.3 | 1835.7 | 297.5  | 128.4  | 102.7  | 92.1   | 90.3   | 165°   | 678.8 |
| 3009.9 | 2991.3 | 2896.6 | 2853.2 | 2762.0 | 2259.0 | 362.2  | 130.2  | 101.0  | 89.4   | 86.8   | 167.5° | 689.2 |
| 3504.9 | 3512.0 | 3423.4 | 3375.6 | 3300.4 | 2795.6 | 576.5  | 135.5  | 101.0  | 86.8   | 84.1   | 170°   | 697.0 |
| 4152.2 | 4163.7 | 4059.3 | 4002.6 | 3938.8 | 3396.9 | 905.9  | 144.3  | 103.6  | 84.1   | 81.5   | 172.5° | 697.0 |
| 4682.7 | 4620.7 | 4553.4 | 4454.2 | 4373.6 | 3732.5 | 872.2  | 160.3  | 107.1  | 81.5   | 78.8   | 175°   | 695.0 |
| 4737.6 | 4693.3 | 4608.3 | 4501.1 | 4402.8 | 3734.3 | 761.6  | 165.6  | 108.0  | 80.6   | 77.9   | 177.5° | 698.8 |
| 4730.5 | 4651.7 | 4555.1 | 4464.8 | 4368.3 | 3638.6 | 588.9  | 172.7  | 110.7  | 78.8   | 76.2   | 180°   | 700.0 |
| 4402.8 | 4292.1 | 4198.3 | 4073.4 | 3972.5 | 3256.1 | 362.2  | 171.8  | 107.1  | 73.5   | 71.7   |        |       |
| 3630.7 | 3574.0 | 3462.4 | 3362.3 | 3257.0 | 2635.3 | 247.9  | 153.2  | 94.8   | 66.4   | 67.3   |        |       |
| 2348.4 | 2283.8 | 2170.4 | 2113.8 | 2054.4 | 1686.0 | 193.0  | 124.9  | 80.6   | 59.3   | 62.0   |        |       |
| 783.7  | 758.0  | 716.4  | 739.4  | 704.9  | 657.1  | 141.7  | 94.8   | 64.6   | 51.4   | 54.9   |        |       |
| 234.7  | 229.4  | 237.3  | 223.2  | 236.4  | 200.1  | 93.0   | 66.4   | 49.6   | 44.3   | 48.7   |        |       |
| 139.0  | 137.3  | 137.3  | 137.3  | 133.7  | 124.9  | 61.1   | 46.0   | 38.1   | 37.2   | 40.7   |        |       |
| 85.0   | 83.2   | 84.1   | 83.2   | 85.0   | 76.2   | 41.6   | 31.9   | 28.3   | 27.5   | 32.8   |        |       |
| 48.7   | 48.7   | 49.6   | 47.8   | 48.7   | 46.9   | 29.2   | 20.4   | 18.6   | 17.7   | 23.9   |        |       |
| 18.5   | 18.5   | 15.9   | 15.0   | 15.9   | 19.4   | 17.0   | 15.2   | 12.3   | 11.4   | 16.0   |        |       |
| 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 7.0    | 7.0    | 6.0    | 6.0    |        |       |
| 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 8.0    | 7.0    | 7.0    | 7.0    |        |       |
| 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 9.0    | 10.0   | 12.0   | 9.0    | 9.0    |        |       |
| 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 23.0   | 26.0   | 29.0   | 21.0   | 12.0   |        |       |
| 38.8   | 38.6   | 38.4   | 38.2   | 38.0   | 39.0   | 42.0   | 47.0   | 50.0   | 40.0   | 27.0   |        |       |
| 61.0   | 61.0   | 61.0   | 61.0   | 61.0   | 61.0   | 65.0   | 70.0   | 72.0   | 63.0   | 48.0   |        |       |
| 86.8   | 86.6   | 86.4   | 86.2   | 86.0   | 87.0   | 90.0   | 94.0   | 95.0   | 88.0   | 73.0   |        |       |

'226839  
 IST-AF-1200-LED-E1-SL2-7030-ULG

REPORT NUMBER: P226839  
 CATALOG NUMBER: IST-AF-12

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 87°   | 88°   | 89°   | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  |        | 155°   | 165°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 116.4 | 116.6 | 116.8 | 117.0 | 116.0 | 119.0 | 121.0 | 120.0 | 114.0 | 102.0 | 0°     | 1240.6 | 1240.6 |
| 147.0 | 147.0 | 147.0 | 147.0 | 147.0 | 149.0 | 150.0 | 148.0 | 143.0 | 134.0 | 2.5°   | 1231.8 | 1225.6 |
| 177.4 | 177.6 | 177.8 | 178.0 | 177.0 | 179.0 | 182.0 | 179.0 | 174.0 | 168.0 | 5°     | 1161.8 | 1145.0 |
| 208.4 | 208.6 | 208.8 | 209.0 | 208.0 | 210.0 | 215.0 | 211.0 | 205.0 | 202.0 | 7.5°   | 1060.9 | 1041.4 |
| 243.0 | 243.0 | 243.0 | 243.0 | 243.0 | 245.0 | 250.0 | 246.0 | 243.0 | 237.0 | 10°    | 945.7  | 916.5  |
| 276.4 | 276.6 | 276.8 | 277.0 | 276.0 | 278.0 | 283.0 | 279.0 | 277.0 | 271.0 | 12.5°  | 798.7  | 741.2  |
| 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 315.0 | 313.0 | 310.0 | 305.0 | 15°    | 628.7  | 551.7  |
| 345.8 | 346.2 | 346.6 | 347.0 | 345.0 | 346.0 | 346.0 | 345.0 | 340.0 | 339.0 | 17.5°  | 433.0  | 371.0  |
| 379.4 | 379.6 | 379.8 | 380.0 | 379.0 | 381.0 | 381.0 | 377.0 | 372.0 | 370.0 | 20°    | 303.7  | 280.7  |
| 414.4 | 414.6 | 414.8 | 415.0 | 414.0 | 414.0 | 416.0 | 411.0 | 405.0 | 404.0 | 22.5°  | 234.7  | 235.6  |
| 450.4 | 450.6 | 450.8 | 451.0 | 450.0 | 447.0 | 448.0 | 443.0 | 437.0 | 435.0 | 25°    | 194.8  | 203.7  |
| 481.4 | 481.6 | 481.8 | 482.0 | 481.0 | 476.0 | 475.0 | 473.0 | 468.0 | 464.0 | 27.5°  | 171.8  | 180.6  |
| 509.8 | 510.2 | 510.6 | 511.0 | 509.0 | 504.0 | 502.0 | 500.0 | 497.0 | 491.0 | 30°    | 157.6  | 165.6  |
| 534.8 | 535.2 | 535.6 | 536.0 | 534.0 | 533.0 | 533.0 | 527.0 | 525.0 | 521.0 | 32.5°  | 147.9  | 151.4  |
| 558.8 | 559.2 | 559.6 | 560.0 | 558.0 | 561.0 | 562.0 | 556.0 | 551.0 | 550.0 | 35°    | 136.4  | 138.1  |
| 583.8 | 584.2 | 584.6 | 585.0 | 583.0 | 586.0 | 585.0 | 580.0 | 575.0 | 574.0 | 37.5°  | 126.6  | 126.6  |
| 607.6 | 608.4 | 609.2 | 610.0 | 606.0 | 603.0 | 600.0 | 597.0 | 593.0 | 593.0 | 40°    | 117.8  | 116.9  |
| 625.0 | 626.0 | 627.0 | 628.0 | 623.0 | 618.0 | 614.0 | 611.0 | 610.0 | 610.0 | 42.5°  | 109.8  | 108.9  |
| 639.2 | 639.8 | 640.4 | 641.0 | 638.0 | 636.0 | 631.0 | 626.0 | 628.0 | 630.0 | 45°    | 101.8  | 102.7  |
| 652.0 | 653.0 | 654.0 | 655.0 | 650.0 | 650.0 | 648.0 | 644.0 | 645.0 | 646.0 | 47.5°  | 97.4   | 98.3   |
| 662.4 | 663.6 | 664.8 | 666.0 | 660.0 | 661.0 | 664.0 | 658.0 | 655.0 | 655.0 | 50°    | 93.0   | 93.9   |
| 670.4 | 671.6 | 672.8 | 674.0 | 668.0 | 670.0 | 671.0 | 667.0 | 663.0 | 661.0 | 52.5°  | 89.4   | 89.4   |
| 679.6 | 680.4 | 681.2 | 682.0 | 678.0 | 680.0 | 677.0 | 672.0 | 673.0 | 673.0 | 55°    | 85.9   | 85.0   |
| 690.4 | 691.6 | 692.8 | 694.0 | 688.0 | 688.0 | 684.0 | 678.0 | 685.0 | 688.0 | 57.5°  | 83.2   | 81.5   |
| 698.0 | 699.0 | 700.0 | 701.0 | 696.0 | 694.0 | 689.0 | 686.0 | 691.0 | 693.0 | 60°    | 80.6   | 78.8   |
| 698.0 | 699.0 | 700.0 | 701.0 | 696.0 | 694.0 | 692.0 | 689.0 | 690.0 | 690.0 | 62.5°  | 78.8   | 76.2   |
| 696.0 | 697.0 | 698.0 | 699.0 | 694.0 | 696.0 | 695.0 | 690.0 | 690.0 | 691.0 | 65°    | 77.0   | 75.3   |
| 699.6 | 700.4 | 701.2 | 702.0 | 698.0 | 701.0 | 699.0 | 694.0 | 695.0 | 697.0 | 66°    | 76.2   | 74.4   |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 67.5°  | 75.3   | 73.5   |
|       |       |       |       |       |       |       |       |       |       | 70°    | 71.7   | 70.0   |
|       |       |       |       |       |       |       |       |       |       | 72.5°  | 66.4   | 65.5   |
|       |       |       |       |       |       |       |       |       |       | 75°    | 61.1   | 59.3   |
|       |       |       |       |       |       |       |       |       |       | 77.5°  | 54.0   | 53.1   |
|       |       |       |       |       |       |       |       |       |       | 80°    | 46.0   | 45.2   |
|       |       |       |       |       |       |       |       |       |       | 82.5°  | 39.0   | 37.2   |
|       |       |       |       |       |       |       |       |       |       | 85°    | 31.0   | 29.2   |
|       |       |       |       |       |       |       |       |       |       | 87.5°  | 21.3   | 19.5   |
|       |       |       |       |       |       |       |       |       |       | 90°    | 13.3   | 13.2   |
|       |       |       |       |       |       |       |       |       |       | 92.5°  | 6.0    | 5.0    |
|       |       |       |       |       |       |       |       |       |       | 95°    | 7.0    | 6.0    |
|       |       |       |       |       |       |       |       |       |       | 97.5°  | 8.0    | 8.0    |
|       |       |       |       |       |       |       |       |       |       | 100°   | 10.0   | 9.0    |
|       |       |       |       |       |       |       |       |       |       | 102.5° | 18.0   | 13.0   |
|       |       |       |       |       |       |       |       |       |       | 105°   | 36.0   | 27.0   |
|       |       |       |       |       |       |       |       |       |       | 107.5° | 58.0   | 49.0   |

00-LED-E1-SL2-7030-ULG

REPORT NUMBER: P226839

CATALOG NUMBER: IST-AF-1200-LED-E1

**tinued):**

| 175°        | 180°        |
|-------------|-------------|
| 1240.6      | 1240.6      |
| 1220.3      | 1228.2      |
| 1139.7      | 1137.0      |
| 1025.4      | 1026.3      |
| 887.3       | 889.1       |
| 708.4       | 697.8       |
| 507.4       | 511.8       |
| 353.3       | 352.4       |
| 283.4       | 285.1       |
| 242.6       | 242.6       |
| 216.1       | 216.1       |
| 190.4       | 191.3       |
| 172.7       | 174.4       |
| 156.7       | 157.6       |
| 140.8       | 141.7       |
| 127.5       | 127.5       |
| 118.7       | 119.5       |
| 112.5       | 112.5       |
| 106.3       | 106.3       |
| 101.0       | 102.7       |
| 95.6        | 96.5        |
| 90.3        | 91.2        |
| 85.0        | 85.0        |
| 80.6        | 80.6        |
| 77.0        | 76.2        |
| 74.4        | 72.6        |
| 71.7        | 70.8        |
| <b>70.8</b> | <b>70.0</b> |
| 70.0        | 69.1        |
| 68.2        | 67.3        |
| 65.5        | 64.6        |
| 60.2        | 58.4        |
| 54.9        | 53.1        |
| 50.5        | 47.8        |
| 42.5        | 40.7        |
| 31.0        | 29.2        |
| 18.6        | 18.6        |
| 9.4         | 9.4         |
| 4.0         | 4.0         |
| 5.0         | 5.0         |
| 7.0         | 7.0         |
| 8.0         | 8.0         |
| 11.0        | 11.0        |
| 22.0        | 21.0        |
| 42.0        | 41.0        |

**CANDELA DISTRIBUTION (continued):**

|        | 155°  | 165°  | 175°  |
|--------|-------|-------|-------|
| 110°   | 87.0  | 74.0  | 68.0  |
| 112.5° | 121.0 | 106.0 | 99.0  |
| 115°   | 159.0 | 147.0 | 139.0 |
| 117.5° | 197.0 | 189.0 | 184.0 |
| 120°   | 233.0 | 226.0 | 223.0 |
| 122.5° | 267.0 | 261.0 | 260.0 |
| 125°   | 299.0 | 296.0 | 294.0 |
| 127.5° | 333.0 | 329.0 | 329.0 |
| 130°   | 366.0 | 362.0 | 361.0 |
| 132.5° | 401.0 | 393.0 | 394.0 |
| 135°   | 432.0 | 426.0 | 426.0 |
| 137.5° | 460.0 | 459.0 | 457.0 |
| 140°   | 489.0 | 487.0 | 485.0 |
| 142.5° | 518.0 | 517.0 | 515.0 |
| 145°   | 547.0 | 544.0 | 546.0 |
| 147.5° | 574.0 | 571.0 | 572.0 |
| 150°   | 593.0 | 593.0 | 592.0 |
| 152.5° | 609.0 | 608.0 | 608.0 |
| 155°   | 627.0 | 625.0 | 625.0 |
| 157.5° | 644.0 | 643.0 | 643.0 |
| 160°   | 656.0 | 659.0 | 660.0 |
| 162.5° | 665.0 | 669.0 | 669.0 |
| 165°   | 676.0 | 676.0 | 678.0 |
| 167.5° | 686.0 | 684.0 | 687.0 |
| 170°   | 692.0 | 692.0 | 695.0 |
| 172.5° | 693.0 | 695.0 | 697.0 |
| 175°   | 695.0 | 697.0 | 698.0 |
| 177.5° | 699.0 | 700.0 | 705.0 |
| 180°   | 700.0 | 700.0 | 700.0 |

-SL2-7030-ULG

| 180°  |
|-------|
| 66.0  |
| 99.0  |
| 140.0 |
| 184.0 |
| 225.0 |
| 263.0 |
| 298.0 |
| 330.0 |
| 363.0 |
| 396.0 |
| 429.0 |
| 460.0 |
| 488.0 |
| 518.0 |
| 550.0 |
| 575.0 |
| 595.0 |
| 611.0 |
| 629.0 |
| 646.0 |
| 663.0 |
| 673.0 |
| 681.0 |
| 690.0 |
| 698.0 |
| 699.0 |
| 700.0 |
| 707.0 |
| 700.0 |

(END OF REPORT)