

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: P226309

Luminaire Tested: **IST-AF-600-LED-E1-T2-7030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)-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-600-LED-E1-T2-7030-ULG  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II, 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: 5359.8 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G1

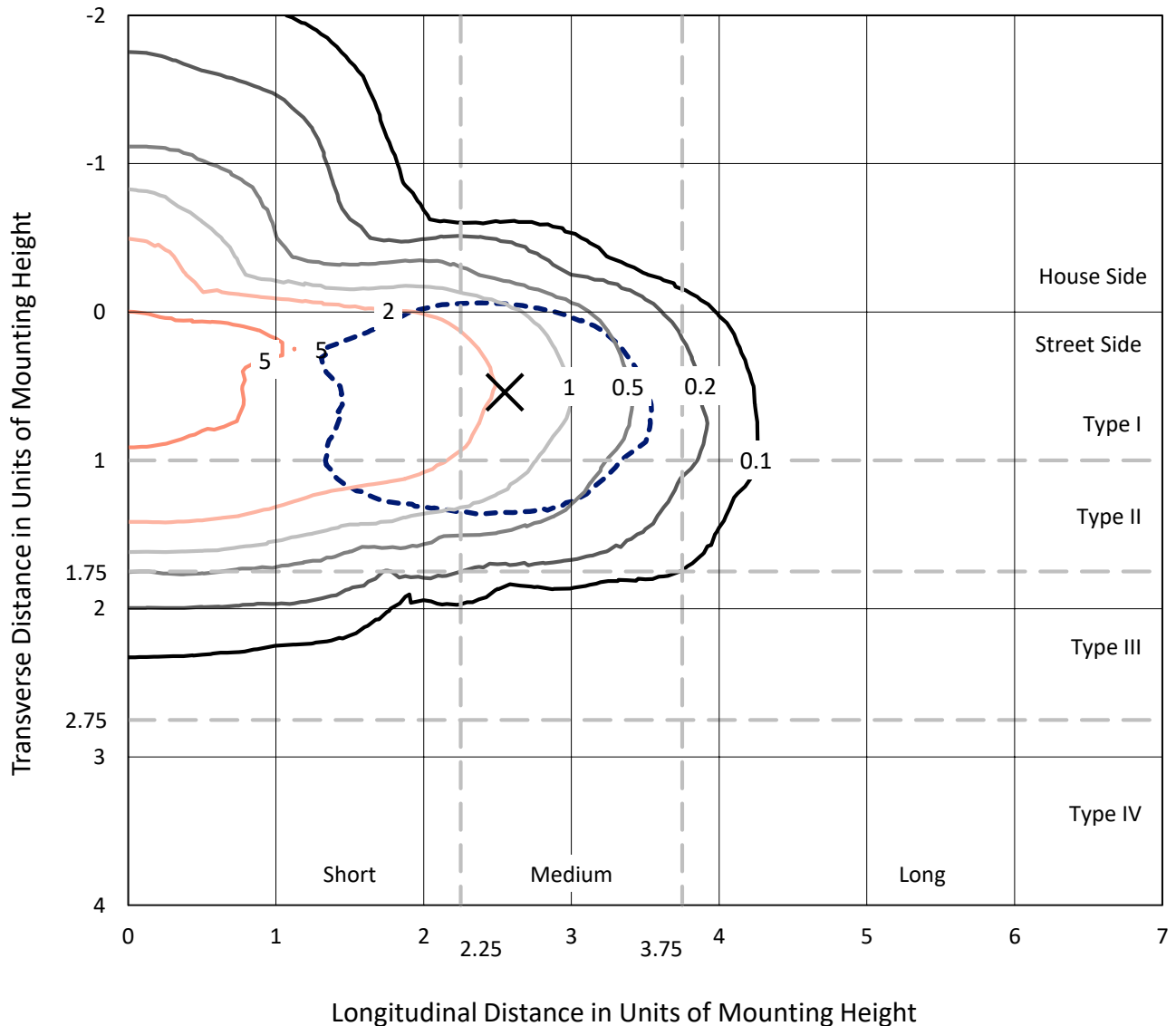
Input Watts (W): 50.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

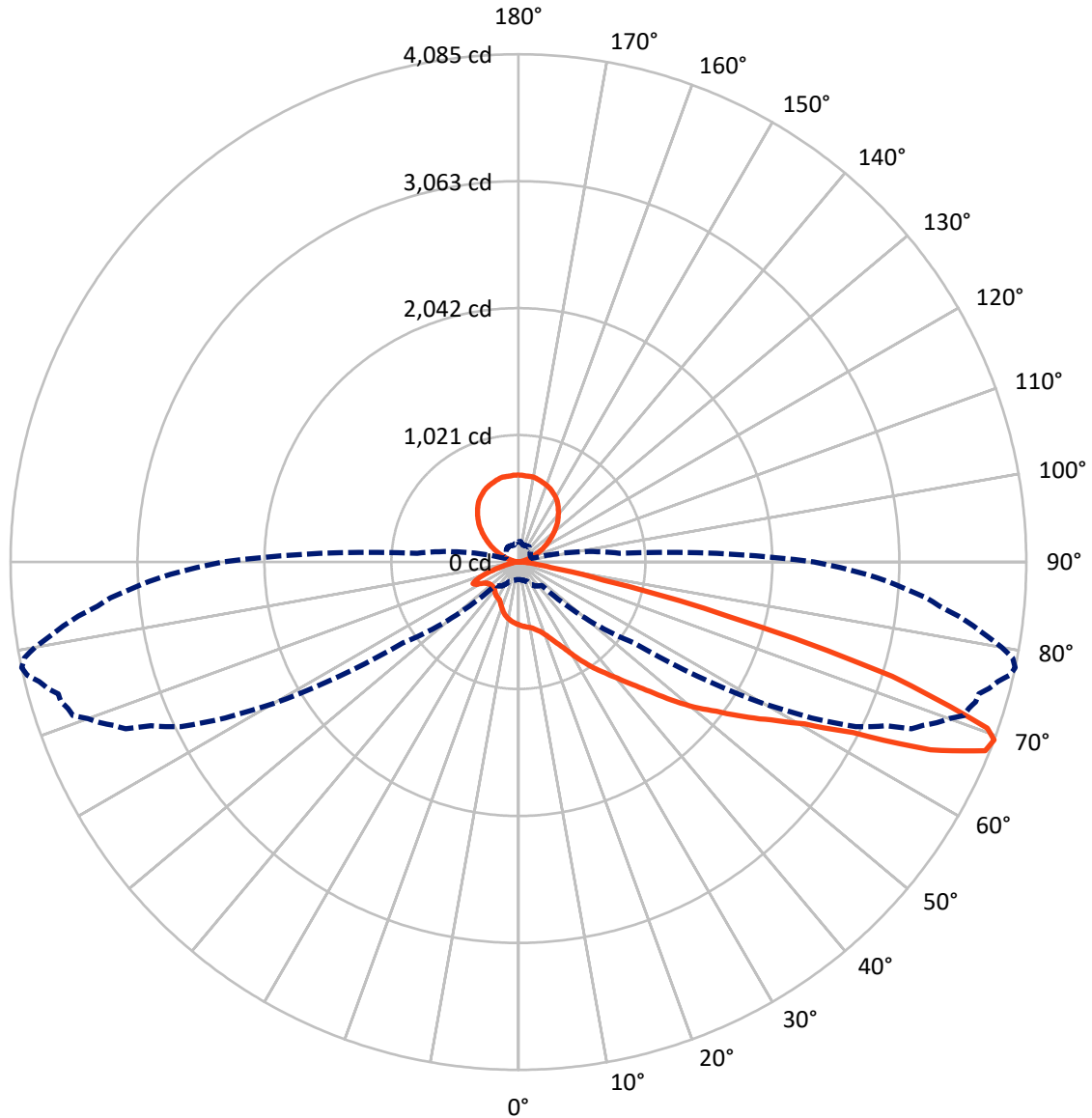
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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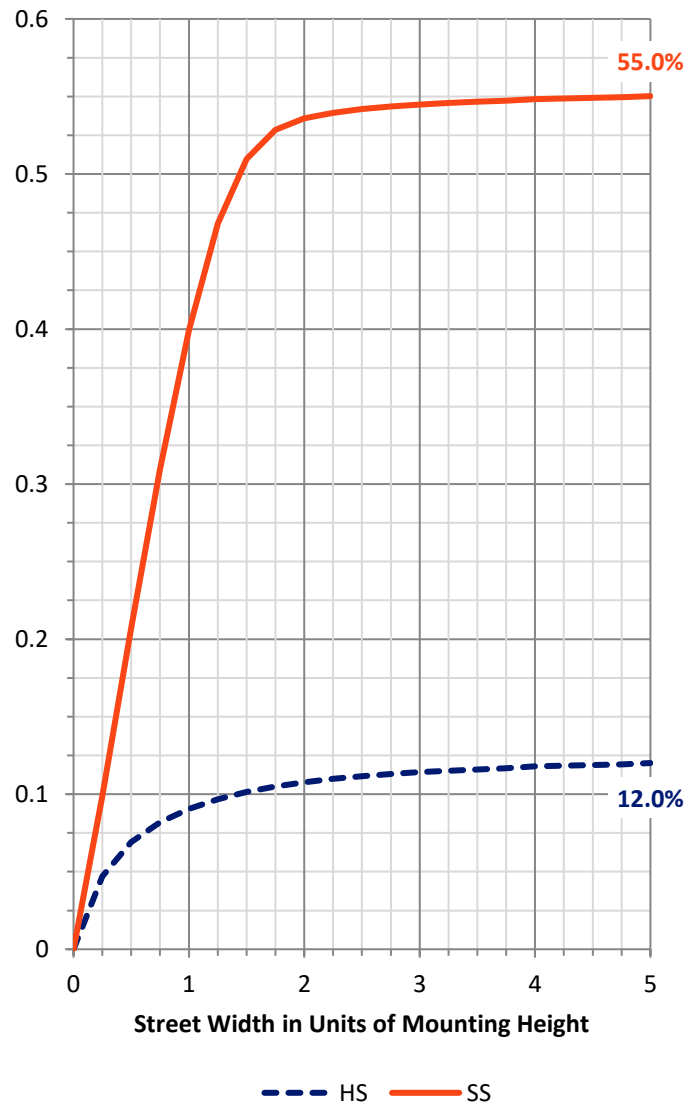
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 663.0    | 868.8  | 1531.9 |
|                    | % Fixture | 12.4     | 16.2   | 28.6   |
| <b>Street Side</b> | Lumens    | 2959.7   | 868.2  | 3827.9 |
|                    | % Fixture | 55.2     | 16.2   | 71.4   |
| <b>Total</b>       | Lumens    | 3622.8   | 1737.0 | 5359.8 |
|                    | % Fixture | 67.6     | 32.4   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.8   | 0.9       |
| 10°-20°   | 141.3  | 2.6       |
| 20°-30°   | 253.3  | 4.7       |
| 30°-40°   | 413.5  | 7.7       |
| 40°-50°   | 611.6  | 11.4      |
| 50°-60°   | 798.6  | 14.9      |
| 60°-70°   | 893.1  | 16.7      |
| 70°-80°   | 401.0  | 7.5       |
| 80°-90°   | 63.6   | 1.2       |
| 90°-100°  | 11.1   | 0.2       |
| 100°-110° | 57.4   | 1.1       |
| 110°-120° | 166.1  | 3.1       |
| 120°-130° | 273.2  | 5.1       |
| 130°-140° | 336.8  | 6.3       |
| 140°-150° | 344.6  | 6.4       |
| 150°-160° | 290.3  | 5.4       |
| 160°-170° | 191.2  | 3.6       |
| 170°-180° | 66.3   | 1.2       |
| 0°-90°    | 3622.8 | 67.6      |
| 0°-180°   | 5359.8 | 100.0     |



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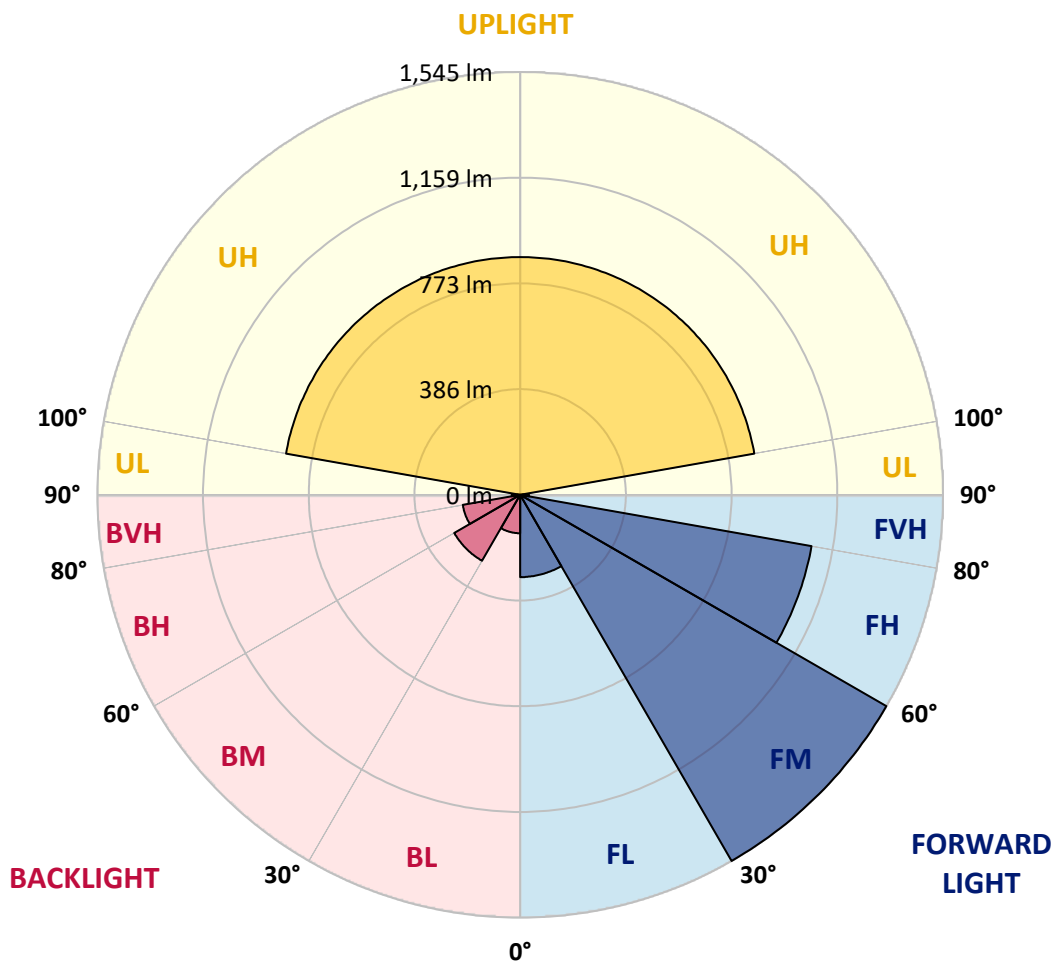
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|----------------|--------|-----------|-------------------------|---------|---------|
|                |        |           | B                       | U       | G       |
| FL (0°-30°)    | 300.8  | 5.6       |                         |         |         |
| FM (30°-60°)   | 1545.3 | 28.8      |                         |         |         |
| FH (60°-80°)   | 1081.2 | 20.2      |                         |         | G1/1800 |
| FVH (80°-90°)  | 32.4   | 0.6       |                         |         | G1/100  |
| BL (0°-30°)    | 140.6  | 2.6       | B1/500                  |         |         |
| BM (30°-60°)   | 278.4  | 5.2       | B1/1000                 |         |         |
| BH (60°-80°)   | 212.9  | 4.0       | B1/500                  |         | G1/500  |
| BVH (80°-90°)  | 31.1   | 0.6       |                         |         | G1/100  |
| UL (90°-100°)  | 11.1   | 0.2       |                         | U2/50   |         |
| UH (100°-180°) | 868.8  | 16.2      |                         | U4/1000 |         |

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  |
| 2.5°   | 539.7  | 539.7  | 538.1  | 537.1  | 535.5  | 531.3  | 525.0  | 523.9  | 523.4  | 522.3  | 521.3  |
| 5°     | 579.2  | 575.0  | 576.0  | 573.4  | 567.6  | 560.2  | 548.7  | 542.9  | 539.7  | 539.2  | 537.1  |
| 7.5°   | 611.2  | 611.8  | 610.2  | 604.9  | 597.0  | 588.1  | 572.3  | 563.4  | 560.8  | 559.2  | 555.5  |
| 10°    | 634.4  | 632.8  | 631.8  | 630.7  | 624.4  | 617.0  | 597.0  | 586.0  | 583.9  | 579.7  | 575.5  |
| 12.5°  | 651.2  | 651.2  | 651.2  | 650.2  | 646.5  | 640.7  | 624.9  | 613.9  | 611.2  | 605.5  | 601.8  |
| 15°    | 669.6  | 667.5  | 665.4  | 663.9  | 664.4  | 664.4  | 652.8  | 644.4  | 640.2  | 637.0  | 629.7  |
| 17.5°  | 709.1  | 704.4  | 699.6  | 693.3  | 683.3  | 680.7  | 680.2  | 679.6  | 673.8  | 673.3  | 666.0  |
| 20°    | 742.8  | 738.5  | 734.3  | 728.0  | 713.8  | 698.6  | 706.5  | 713.8  | 712.8  | 713.3  | 709.6  |
| 22.5°  | 784.3  | 781.2  | 772.7  | 765.4  | 747.0  | 728.6  | 729.6  | 745.4  | 747.5  | 749.6  | 750.6  |
| 25°    | 841.1  | 839.5  | 825.9  | 811.7  | 790.6  | 773.3  | 757.0  | 776.4  | 780.6  | 785.4  | 794.8  |
| 27.5°  | 898.5  | 894.8  | 880.1  | 867.4  | 841.1  | 822.7  | 800.1  | 810.6  | 816.9  | 825.9  | 840.6  |
| 30°    | 972.6  | 962.6  | 957.4  | 929.0  | 904.8  | 877.9  | 858.5  | 861.6  | 860.6  | 871.1  | 893.7  |
| 32.5°  | 1079.9 | 1064.2 | 1037.9 | 1009.5 | 981.0  | 945.3  | 929.0  | 928.4  | 925.8  | 937.9  | 950.5  |
| 35°    | 1137.8 | 1134.1 | 1117.8 | 1089.4 | 1058.4 | 1024.7 | 1014.2 | 1004.2 | 1005.8 | 1012.1 | 1016.8 |
| 37.5°  | 1200.4 | 1197.2 | 1184.6 | 1168.8 | 1145.2 | 1163.6 | 1105.2 | 1090.5 | 1083.6 | 1080.5 | 1082.0 |
| 40°    | 1227.8 | 1230.4 | 1237.2 | 1239.9 | 1226.2 | 1314.6 | 1199.4 | 1151.0 | 1148.9 | 1144.1 | 1139.4 |
| 42.5°  | 1233.5 | 1240.4 | 1254.1 | 1284.0 | 1297.2 | 1489.7 | 1277.2 | 1218.8 | 1210.4 | 1206.7 | 1207.2 |
| 45°    | 1254.6 | 1265.1 | 1267.7 | 1295.1 | 1357.2 | 1498.7 | 1365.1 | 1278.8 | 1272.5 | 1271.9 | 1268.8 |
| 47.5°  | 1305.6 | 1319.8 | 1319.8 | 1331.9 | 1390.8 | 1516.0 | 1395.0 | 1338.8 | 1334.5 | 1332.4 | 1340.9 |
| 50°    | 1313.0 | 1331.9 | 1369.8 | 1408.7 | 1451.3 | 1530.2 | 1429.2 | 1404.0 | 1405.6 | 1410.3 | 1435.0 |
| 52.5°  | 1188.3 | 1207.2 | 1307.2 | 1421.9 | 1560.7 | 1569.2 | 1480.8 | 1490.8 | 1501.3 | 1524.4 | 1569.7 |
| 55°    | 1018.9 | 1032.6 | 1151.0 | 1334.5 | 1564.9 | 1717.0 | 1610.2 | 1638.1 | 1660.2 | 1667.0 | 1738.0 |
| 57.5°  | 802.2  | 821.1  | 941.6  | 1179.9 | 1461.3 | 1759.1 | 1907.9 | 1920.5 | 1895.8 | 1918.4 | 1944.2 |
| 60°    | 434.5  | 432.4  | 600.2  | 853.2  | 1243.5 | 1681.2 | 2195.1 | 2411.9 | 2417.1 | 2451.8 | 2410.3 |
| 62.5°  | 243.0  | 243.0  | 291.4  | 438.2  | 800.1  | 1422.4 | 2333.0 | 2836.9 | 2902.6 | 2957.9 | 3079.4 |
| 65°    | 183.6  | 185.2  | 202.5  | 264.1  | 449.2  | 897.9  | 2232.0 | 2982.1 | 3108.3 | 3235.1 | 3448.1 |
| 67.5°  | 152.5  | 152.5  | 165.2  | 196.7  | 280.9  | 407.7  | 1643.3 | 2690.7 | 2848.5 | 3000.0 | 3294.5 |
| 69°    | 141.5  | 142.0  | 151.5  | 173.1  | 235.1  | 265.1  | 1135.2 | 2281.4 | 2461.8 | 2671.7 | 3018.9 |
| 70°    | 136.2  | 134.7  | 143.6  | 161.5  | 213.0  | 209.4  | 831.7  | 1983.7 | 2123.6 | 2311.9 | 2711.2 |
| 72.5°  | 121.0  | 119.4  | 124.1  | 137.8  | 167.8  | 149.4  | 339.3  | 1067.3 | 1278.3 | 1489.2 | 1807.4 |
| 75°    | 107.8  | 106.3  | 109.9  | 116.3  | 130.5  | 114.1  | 170.4  | 447.1  | 541.3  | 699.6  | 965.3  |
| 77.5°  | 95.2   | 92.1   | 95.2   | 99.4   | 102.6  | 85.2   | 115.7  | 206.7  | 253.5  | 311.4  | 439.8  |
| 80°    | 86.3   | 83.1   | 86.8   | 84.7   | 80.5   | 65.8   | 76.8   | 120.5  | 133.6  | 159.9  | 209.4  |
| 82.5°  | 61.5   | 61.0   | 82.6   | 85.2   | 64.2   | 47.9   | 54.7   | 77.3   | 86.3   | 91.0   | 110.5  |
| 85°    | 37.9   | 36.3   | 47.9   | 61.0   | 65.2   | 30.0   | 35.2   | 45.8   | 47.9   | 52.1   | 61.5   |
| 87.5°  | 19.5   | 20.0   | 25.8   | 31.6   | 42.6   | 17.9   | 21.0   | 26.8   | 26.8   | 26.8   | 30.5   |
| 90°    | 9.7    | 10.8   | 14.9   | 19.0   | 16.9   | 11.7   | 14.9   | 14.3   | 15.6   | 14.7   | 16.2   |
| 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    | 7.9    |
| 97.5°  | 7.0    | 7.0    | 8.0    | 8.0    | 9.0    | 9.0    | 12.0   | 11.0   | 10.8   | 10.6   | 10.2   |
| 100°   | 8.0    | 8.0    | 9.0    | 10.0   | 12.0   | 21.0   | 29.0   | 27.5   | 27.2   | 26.9   | 26.3   |
| 102.5° | 11.0   | 11.0   | 13.0   | 18.0   | 27.0   | 40.0   | 50.0   | 48.5   | 48.2   | 47.9   | 47.3   |
| 105°   | 21.0   | 22.0   | 27.0   | 36.0   | 48.0   | 63.0   | 72.0   | 71.0   | 70.8   | 70.6   | 70.2   |
| 107.5° | 41.0   | 42.0   | 49.0   | 58.0   | 73.0   | 88.0   | 95.0   | 94.5   | 94.4   | 94.3   | 94.1   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 60°   | 61°   | 62°   | 64°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 66.0  | 68.0  | 74.0  | 87.0  | 102.0 | 114.0 | 120.0 | 120.5 | 120.6 | 120.7 | 120.9 |
| 112.5° | 99.0  | 99.0  | 106.0 | 121.0 | 134.0 | 143.0 | 148.0 | 149.0 | 149.2 | 149.4 | 149.8 |
| 115°   | 140.0 | 139.0 | 147.0 | 159.0 | 168.0 | 174.0 | 179.0 | 180.5 | 180.8 | 181.1 | 181.7 |
| 117.5° | 184.0 | 184.0 | 189.0 | 197.0 | 202.0 | 205.0 | 211.0 | 213.0 | 213.4 | 213.8 | 214.6 |
| 120°   | 225.0 | 223.0 | 226.0 | 233.0 | 237.0 | 243.0 | 246.0 | 248.0 | 248.4 | 248.8 | 249.6 |
| 122.5° | 263.0 | 260.0 | 261.0 | 267.0 | 271.0 | 277.0 | 279.0 | 281.0 | 281.4 | 281.8 | 282.6 |
| 125°   | 298.0 | 294.0 | 296.0 | 299.0 | 305.0 | 310.0 | 313.0 | 314.0 | 314.2 | 314.4 | 314.8 |
| 127.5° | 330.0 | 329.0 | 329.0 | 333.0 | 339.0 | 340.0 | 345.0 | 345.5 | 345.6 | 345.7 | 345.9 |
| 130°   | 363.0 | 361.0 | 362.0 | 366.0 | 370.0 | 372.0 | 377.0 | 379.0 | 379.4 | 379.8 | 380.6 |
| 132.5° | 396.0 | 394.0 | 393.0 | 401.0 | 404.0 | 405.0 | 411.0 | 413.5 | 414.0 | 414.5 | 415.5 |
| 135°   | 429.0 | 426.0 | 426.0 | 432.0 | 435.0 | 437.0 | 443.0 | 445.5 | 446.0 | 446.5 | 447.5 |
| 137.5° | 460.0 | 457.0 | 459.0 | 460.0 | 464.0 | 468.0 | 473.0 | 474.0 | 474.2 | 474.4 | 474.8 |
| 140°   | 488.0 | 485.0 | 487.0 | 489.0 | 491.0 | 497.0 | 500.0 | 501.0 | 501.2 | 501.4 | 501.8 |
| 142.5° | 518.0 | 515.0 | 517.0 | 518.0 | 521.0 | 525.0 | 527.0 | 530.0 | 530.6 | 531.2 | 532.4 |
| 145°   | 550.0 | 546.0 | 544.0 | 547.0 | 550.0 | 551.0 | 556.0 | 559.0 | 559.6 | 560.2 | 561.4 |
| 147.5° | 575.0 | 572.0 | 571.0 | 574.0 | 574.0 | 575.0 | 580.0 | 582.5 | 583.0 | 583.5 | 584.5 |
| 150°   | 595.0 | 592.0 | 593.0 | 593.0 | 593.0 | 593.0 | 597.0 | 598.5 | 598.8 | 599.1 | 599.7 |
| 152.5° | 611.0 | 608.0 | 608.0 | 609.0 | 610.0 | 610.0 | 611.0 | 612.5 | 612.8 | 613.1 | 613.7 |
| 155°   | 629.0 | 625.0 | 625.0 | 627.0 | 630.0 | 628.0 | 626.0 | 628.5 | 629.0 | 629.5 | 630.5 |
| 157.5° | 646.0 | 643.0 | 643.0 | 644.0 | 646.0 | 645.0 | 644.0 | 646.0 | 646.4 | 646.8 | 647.6 |
| 160°   | 663.0 | 660.0 | 659.0 | 656.0 | 655.0 | 655.0 | 658.0 | 661.0 | 661.6 | 662.2 | 663.4 |
| 162.5° | 673.0 | 669.0 | 669.0 | 665.0 | 661.0 | 663.0 | 667.0 | 669.0 | 669.4 | 669.8 | 670.6 |
| 165°   | 681.0 | 678.0 | 676.0 | 676.0 | 673.0 | 673.0 | 672.0 | 674.5 | 675.0 | 675.5 | 676.5 |
| 167.5° | 690.0 | 687.0 | 684.0 | 686.0 | 688.0 | 685.0 | 678.0 | 681.0 | 681.6 | 682.2 | 683.4 |
| 170°   | 698.0 | 695.0 | 692.0 | 692.0 | 693.0 | 691.0 | 686.0 | 687.5 | 687.8 | 688.1 | 688.7 |
| 172.5° | 699.0 | 697.0 | 695.0 | 693.0 | 690.0 | 690.0 | 689.0 | 690.5 | 690.8 | 691.1 | 691.7 |
| 175°   | 700.0 | 698.0 | 697.0 | 695.0 | 691.0 | 690.0 | 690.0 | 692.5 | 693.0 | 693.5 | 694.5 |
| 177.5° | 707.0 | 705.0 | 700.0 | 699.0 | 697.0 | 695.0 | 694.0 | 696.5 | 697.0 | 697.5 | 698.5 |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 |





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**CANDELA DISTRIBUTION (continued):**

|        | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  |
| 2.5°   | 521.8  | 520.2  | 518.1  | 518.7  | 517.6  | 516.0  | 516.6  | 516.0  | 516.6  | 515.5  | 514.5  |
| 5°     | 537.1  | 536.0  | 532.9  | 532.3  | 531.3  | 530.2  | 528.7  | 527.1  | 526.6  | 525.5  | 523.4  |
| 7.5°   | 554.4  | 551.3  | 549.7  | 547.6  | 545.0  | 540.8  | 540.2  | 538.1  | 536.6  | 535.5  | 532.9  |
| 10°    | 572.3  | 568.6  | 566.5  | 563.9  | 561.3  | 558.6  | 556.0  | 552.3  | 548.7  | 547.6  | 544.4  |
| 12.5°  | 599.2  | 594.4  | 590.2  | 586.0  | 583.4  | 578.6  | 575.0  | 570.2  | 566.5  | 565.0  | 559.7  |
| 15°    | 628.6  | 622.3  | 618.1  | 614.9  | 610.7  | 606.5  | 601.8  | 597.6  | 591.8  | 587.1  | 582.3  |
| 17.5°  | 663.3  | 657.5  | 654.4  | 648.6  | 643.3  | 638.6  | 634.9  | 629.7  | 624.9  | 616.5  | 612.3  |
| 20°    | 709.1  | 704.4  | 700.7  | 694.4  | 688.6  | 683.8  | 680.7  | 669.6  | 663.3  | 656.0  | 649.1  |
| 22.5°  | 751.7  | 752.2  | 748.5  | 744.3  | 740.7  | 734.3  | 729.1  | 721.2  | 713.3  | 704.4  | 694.9  |
| 25°    | 798.0  | 802.2  | 802.7  | 801.7  | 799.6  | 792.2  | 789.6  | 781.7  | 775.4  | 760.6  | 756.4  |
| 27.5°  | 849.5  | 854.3  | 860.1  | 867.4  | 869.0  | 861.1  | 864.8  | 856.9  | 845.9  | 839.5  | 825.9  |
| 30°    | 899.5  | 912.7  | 924.8  | 933.2  | 938.4  | 942.1  | 939.5  | 936.9  | 929.5  | 919.0  | 906.9  |
| 32.5°  | 963.7  | 977.4  | 989.5  | 1007.9 | 1017.3 | 1028.9 | 1026.8 | 1027.9 | 1025.2 | 1014.7 | 1000.5 |
| 35°    | 1028.4 | 1040.5 | 1056.3 | 1068.4 | 1091.5 | 1104.1 | 1114.7 | 1114.1 | 1114.1 | 1107.8 | 1094.1 |
| 37.5°  | 1085.7 | 1092.6 | 1105.7 | 1125.7 | 1141.0 | 1161.0 | 1177.8 | 1184.6 | 1195.7 | 1196.2 | 1181.5 |
| 40°    | 1145.7 | 1152.5 | 1162.5 | 1177.3 | 1194.1 | 1217.8 | 1240.4 | 1262.5 | 1273.0 | 1284.0 | 1278.3 |
| 42.5°  | 1210.4 | 1217.8 | 1225.1 | 1234.6 | 1258.8 | 1277.2 | 1307.7 | 1337.7 | 1359.3 | 1381.9 | 1379.3 |
| 45°    | 1274.6 | 1283.0 | 1293.5 | 1307.7 | 1329.3 | 1359.3 | 1388.7 | 1422.4 | 1471.8 | 1498.7 | 1517.1 |
| 47.5°  | 1347.2 | 1360.8 | 1380.3 | 1402.9 | 1420.3 | 1451.3 | 1488.7 | 1540.7 | 1590.7 | 1637.0 | 1665.9 |
| 50°    | 1456.6 | 1461.8 | 1493.4 | 1515.5 | 1548.6 | 1580.2 | 1617.5 | 1663.3 | 1728.0 | 1775.4 | 1821.6 |
| 52.5°  | 1585.5 | 1605.4 | 1637.0 | 1662.3 | 1688.6 | 1720.1 | 1758.5 | 1799.6 | 1863.7 | 1916.9 | 1976.8 |
| 55°    | 1751.7 | 1780.1 | 1807.4 | 1821.1 | 1857.9 | 1886.4 | 1917.4 | 1957.9 | 2026.8 | 2084.7 | 2155.2 |
| 57.5°  | 1950.0 | 1978.4 | 1991.6 | 2011.5 | 2027.3 | 2058.9 | 2101.0 | 2128.3 | 2189.3 | 2249.3 | 2324.0 |
| 60°    | 2357.1 | 2339.3 | 2355.0 | 2324.0 | 2319.3 | 2321.9 | 2330.8 | 2351.9 | 2386.1 | 2441.8 | 2520.7 |
| 62.5°  | 3092.0 | 3066.2 | 2997.9 | 2973.1 | 2925.3 | 2860.6 | 2799.5 | 2791.1 | 2773.2 | 2815.3 | 2864.8 |
| 65°    | 3521.3 | 3614.9 | 3624.9 | 3651.2 | 3632.3 | 3581.8 | 3510.2 | 3487.1 | 3429.2 | 3388.7 | 3386.1 |
| 67.5°  | 3418.2 | 3558.6 | 3646.5 | 3757.4 | 3819.0 | 3879.0 | 3894.7 | 3915.3 | 3877.9 | 3859.5 | 3864.8 |
| 69°    | 3131.5 | 3235.6 | 3432.4 | 3508.1 | 3605.4 | 3685.4 | 3790.6 | 3809.0 | 3845.3 | 3850.6 | 3920.5 |
| 70°    | 2847.4 | 3000.5 | 3113.1 | 3226.7 | 3361.3 | 3449.2 | 3496.5 | 3574.4 | 3664.3 | 3708.5 | 3784.3 |
| 72.5°  | 2047.3 | 2097.3 | 2177.2 | 2324.5 | 2361.9 | 2452.9 | 2546.0 | 2612.3 | 2718.0 | 2792.7 | 2971.0 |
| 75°    | 1104.7 | 1134.7 | 1260.4 | 1344.0 | 1366.1 | 1396.1 | 1464.5 | 1480.8 | 1520.2 | 1544.4 | 1715.9 |
| 77.5°  | 504.5  | 550.2  | 566.5  | 612.3  | 586.5  | 599.2  | 615.5  | 611.8  | 622.8  | 675.4  | 735.4  |
| 80°    | 232.5  | 241.4  | 247.8  | 266.7  | 267.8  | 263.5  | 265.1  | 262.5  | 260.4  | 268.8  | 275.1  |
| 82.5°  | 113.1  | 126.8  | 126.8  | 138.3  | 144.1  | 142.6  | 145.7  | 144.7  | 146.8  | 144.7  | 151.5  |
| 85°    | 66.3   | 66.3   | 71.5   | 77.9   | 76.8   | 78.9   | 78.9   | 83.1   | 83.6   | 84.7   | 84.7   |
| 87.5°  | 31.0   | 34.2   | 35.8   | 38.4   | 39.5   | 41.0   | 42.1   | 42.1   | 42.6   | 41.6   | 42.6   |
| 90°    | 16.9   | 16.9   | 22.2   | 22.2   | 23.2   | 24.8   | 22.7   | 23.7   | 27.4   | 22.7   | 26.4   |
| 92.5°  | 7.0    | 6.9    | 6.8    | 6.7    | 6.6    | 6.5    | 6.4    | 6.3    | 6.2    | 6.1    | 6.0    |
| 95°    | 8.0    | 7.9    | 7.8    | 7.7    | 7.6    | 7.5    | 7.4    | 7.3    | 7.2    | 7.1    | 7.0    |
| 97.5°  | 10.0   | 9.9    | 9.8    | 9.7    | 9.6    | 9.5    | 9.4    | 9.3    | 9.2    | 9.1    | 9.0    |
| 100°   | 26.0   | 25.7   | 25.4   | 25.1   | 24.8   | 24.5   | 24.2   | 23.9   | 23.6   | 23.3   | 23.0   |
| 102.5° | 47.0   | 46.5   | 46.0   | 45.5   | 45.0   | 44.5   | 44.0   | 43.5   | 43.0   | 42.5   | 42.0   |
| 105°   | 70.0   | 69.5   | 69.0   | 68.5   | 68.0   | 67.5   | 67.0   | 66.5   | 66.0   | 65.5   | 65.0   |
| 107.5° | 94.0   | 93.6   | 93.2   | 92.8   | 92.4   | 92.0   | 91.6   | 91.2   | 90.8   | 90.4   | 90.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 65°   | 66°   | 67°   | 68°   | 69°   | 70°   | 71°   | 72°   | 73°   | 74°   | 75°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 121.0 | 120.8 | 120.6 | 120.4 | 120.2 | 120.0 | 119.8 | 119.6 | 119.4 | 119.2 | 119.0 |
| 112.5° | 150.0 | 149.9 | 149.8 | 149.7 | 149.6 | 149.5 | 149.4 | 149.3 | 149.2 | 149.1 | 149.0 |
| 115°   | 182.0 | 181.7 | 181.4 | 181.1 | 180.8 | 180.5 | 180.2 | 179.9 | 179.6 | 179.3 | 179.0 |
| 117.5° | 215.0 | 214.5 | 214.0 | 213.5 | 213.0 | 212.5 | 212.0 | 211.5 | 211.0 | 210.5 | 210.0 |
| 120°   | 250.0 | 249.5 | 249.0 | 248.5 | 248.0 | 247.5 | 247.0 | 246.5 | 246.0 | 245.5 | 245.0 |
| 122.5° | 283.0 | 282.5 | 282.0 | 281.5 | 281.0 | 280.5 | 280.0 | 279.5 | 279.0 | 278.5 | 278.0 |
| 125°   | 315.0 | 314.5 | 314.0 | 313.5 | 313.0 | 312.5 | 312.0 | 311.5 | 311.0 | 310.5 | 310.0 |
| 127.5° | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 | 346.0 |
| 130°   | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 | 381.0 |
| 132.5° | 416.0 | 415.8 | 415.6 | 415.4 | 415.2 | 415.0 | 414.8 | 414.6 | 414.4 | 414.2 | 414.0 |
| 135°   | 448.0 | 447.9 | 447.8 | 447.7 | 447.6 | 447.5 | 447.4 | 447.3 | 447.2 | 447.1 | 447.0 |
| 137.5° | 475.0 | 475.1 | 475.2 | 475.3 | 475.4 | 475.5 | 475.6 | 475.7 | 475.8 | 475.9 | 476.0 |
| 140°   | 502.0 | 502.2 | 502.4 | 502.6 | 502.8 | 503.0 | 503.2 | 503.4 | 503.6 | 503.8 | 504.0 |
| 142.5° | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 | 533.0 |
| 145°   | 562.0 | 561.9 | 561.8 | 561.7 | 561.6 | 561.5 | 561.4 | 561.3 | 561.2 | 561.1 | 561.0 |
| 147.5° | 585.0 | 585.1 | 585.2 | 585.3 | 585.4 | 585.5 | 585.6 | 585.7 | 585.8 | 585.9 | 586.0 |
| 150°   | 600.0 | 600.3 | 600.6 | 600.9 | 601.2 | 601.5 | 601.8 | 602.1 | 602.4 | 602.7 | 603.0 |
| 152.5° | 614.0 | 614.4 | 614.8 | 615.2 | 615.6 | 616.0 | 616.4 | 616.8 | 617.2 | 617.6 | 618.0 |
| 155°   | 631.0 | 631.5 | 632.0 | 632.5 | 633.0 | 633.5 | 634.0 | 634.5 | 635.0 | 635.5 | 636.0 |
| 157.5° | 648.0 | 648.2 | 648.4 | 648.6 | 648.8 | 649.0 | 649.2 | 649.4 | 649.6 | 649.8 | 650.0 |
| 160°   | 664.0 | 663.7 | 663.4 | 663.1 | 662.8 | 662.5 | 662.2 | 661.9 | 661.6 | 661.3 | 661.0 |
| 162.5° | 671.0 | 670.9 | 670.8 | 670.7 | 670.6 | 670.5 | 670.4 | 670.3 | 670.2 | 670.1 | 670.0 |
| 165°   | 677.0 | 677.3 | 677.6 | 677.9 | 678.2 | 678.5 | 678.8 | 679.1 | 679.4 | 679.7 | 680.0 |
| 167.5° | 684.0 | 684.4 | 684.8 | 685.2 | 685.6 | 686.0 | 686.4 | 686.8 | 687.2 | 687.6 | 688.0 |
| 170°   | 689.0 | 689.5 | 690.0 | 690.5 | 691.0 | 691.5 | 692.0 | 692.5 | 693.0 | 693.5 | 694.0 |
| 172.5° | 692.0 | 692.2 | 692.4 | 692.6 | 692.8 | 693.0 | 693.2 | 693.4 | 693.6 | 693.8 | 694.0 |
| 175°   | 695.0 | 695.1 | 695.2 | 695.3 | 695.4 | 695.5 | 695.6 | 695.7 | 695.8 | 695.9 | 696.0 |
| 177.5° | 699.0 | 699.2 | 699.4 | 699.6 | 699.8 | 700.0 | 700.2 | 700.4 | 700.6 | 700.8 | 701.0 |
| 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):**

|        | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9  |
| 2.5°   | 513.4  | 514.5  | 513.9  | 511.8  | 511.3  | 511.3  | 510.3  | 509.7  | 508.7  | 508.1  | 509.2  |
| 5°     | 522.9  | 522.9  | 521.3  | 519.2  | 517.1  | 516.6  | 516.0  | 513.4  | 512.4  | 511.3  | 510.3  |
| 7.5°   | 531.8  | 530.8  | 528.7  | 525.0  | 522.9  | 522.3  | 520.2  | 517.6  | 515.0  | 512.9  | 511.8  |
| 10°    | 541.3  | 540.2  | 536.0  | 533.4  | 529.2  | 528.7  | 525.0  | 521.8  | 519.2  | 516.6  | 514.5  |
| 12.5°  | 555.0  | 553.9  | 549.2  | 542.9  | 539.7  | 537.6  | 532.9  | 529.2  | 525.5  | 522.3  | 518.7  |
| 15°    | 576.0  | 571.8  | 568.6  | 562.3  | 557.6  | 553.4  | 547.6  | 542.3  | 537.1  | 531.8  | 528.7  |
| 17.5°  | 605.5  | 599.7  | 591.3  | 587.6  | 581.3  | 574.4  | 566.5  | 562.9  | 556.0  | 549.7  | 543.4  |
| 20°    | 643.9  | 638.1  | 624.9  | 620.2  | 611.2  | 601.3  | 594.9  | 587.1  | 581.3  | 571.3  | 564.4  |
| 22.5°  | 686.5  | 681.2  | 668.6  | 656.0  | 647.5  | 639.7  | 629.7  | 619.7  | 608.6  | 599.2  | 591.8  |
| 25°    | 741.7  | 733.8  | 722.8  | 710.1  | 697.5  | 686.5  | 672.8  | 658.6  | 649.1  | 636.0  | 625.5  |
| 27.5°  | 816.9  | 803.3  | 784.8  | 771.2  | 761.2  | 744.3  | 727.5  | 714.9  | 700.1  | 682.8  | 671.2  |
| 30°    | 898.5  | 883.2  | 869.5  | 853.7  | 836.9  | 820.6  | 797.5  | 779.1  | 763.3  | 744.9  | 725.9  |
| 32.5°  | 988.9  | 975.8  | 956.3  | 935.8  | 917.4  | 896.9  | 880.1  | 860.6  | 833.2  | 813.8  | 793.8  |
| 35°    | 1079.9 | 1064.7 | 1044.7 | 1027.3 | 1006.3 | 985.3  | 966.3  | 940.5  | 915.8  | 887.9  | 860.1  |
| 37.5°  | 1167.8 | 1154.6 | 1132.5 | 1106.2 | 1087.8 | 1065.2 | 1045.8 | 1018.4 | 988.9  | 957.9  | 936.9  |
| 40°    | 1265.6 | 1244.6 | 1229.3 | 1198.8 | 1179.9 | 1154.6 | 1126.8 | 1105.7 | 1077.3 | 1043.6 | 1013.7 |
| 42.5°  | 1377.7 | 1362.9 | 1346.6 | 1321.9 | 1301.9 | 1271.9 | 1236.7 | 1209.9 | 1183.6 | 1143.6 | 1102.0 |
| 45°    | 1519.7 | 1510.2 | 1483.4 | 1463.4 | 1436.6 | 1405.0 | 1374.5 | 1341.9 | 1300.4 | 1254.1 | 1216.2 |
| 47.5°  | 1690.1 | 1682.8 | 1658.6 | 1630.2 | 1594.9 | 1552.3 | 1523.9 | 1479.2 | 1444.0 | 1386.1 | 1340.9 |
| 50°    | 1844.8 | 1848.5 | 1835.3 | 1791.7 | 1760.1 | 1717.5 | 1672.8 | 1633.9 | 1579.7 | 1519.7 | 1461.8 |
| 52.5°  | 2029.4 | 2025.7 | 1992.6 | 1968.4 | 1931.1 | 1879.5 | 1830.6 | 1780.6 | 1721.2 | 1659.1 | 1587.0 |
| 55°    | 2206.2 | 2217.2 | 2194.1 | 2159.9 | 2114.6 | 2042.6 | 1993.1 | 1928.4 | 1865.8 | 1797.5 | 1714.3 |
| 57.5°  | 2377.7 | 2412.9 | 2395.0 | 2354.5 | 2308.2 | 2256.2 | 2190.9 | 2118.3 | 2053.6 | 1964.2 | 1870.6 |
| 60°    | 2591.2 | 2638.1 | 2645.4 | 2619.1 | 2568.6 | 2508.1 | 2422.4 | 2365.6 | 2276.7 | 2194.1 | 2122.0 |
| 62.5°  | 2920.0 | 3026.3 | 3019.9 | 3032.6 | 2996.8 | 2959.5 | 2859.0 | 2798.0 | 2682.2 | 2622.8 | 2522.3 |
| 65°    | 3469.2 | 3547.6 | 3641.7 | 3638.6 | 3613.8 | 3524.4 | 3420.3 | 3318.2 | 3241.9 | 3124.6 | 3019.9 |
| 67.5°  | 3930.0 | 3994.7 | 4050.4 | 4021.5 | 3964.7 | 3864.2 | 3742.2 | 3600.2 | 3483.9 | 3354.5 | 3217.2 |
| 69°    | 3973.1 | 4052.0 | 4084.6 | 4048.9 | 3946.8 | 3815.8 | 3696.4 | 3564.4 | 3404.5 | 3293.5 | 3126.2 |
| 70°    | 3857.4 | 3935.2 | 4001.0 | 3908.9 | 3815.3 | 3687.5 | 3557.0 | 3419.7 | 3276.7 | 3157.2 | 2988.4 |
| 72.5°  | 3064.1 | 3152.0 | 3143.0 | 3133.0 | 3058.4 | 2930.5 | 2810.6 | 2736.9 | 2636.5 | 2492.3 | 2370.3 |
| 75°    | 1781.7 | 1822.2 | 1751.2 | 1825.9 | 1736.4 | 1607.6 | 1624.4 | 1541.3 | 1467.6 | 1384.5 | 1320.3 |
| 77.5°  | 699.6  | 735.4  | 698.0  | 685.9  | 646.0  | 637.0  | 570.2  | 578.1  | 545.0  | 479.7  | 449.8  |
| 80°    | 265.1  | 269.9  | 263.5  | 250.4  | 247.8  | 232.5  | 228.3  | 213.6  | 206.7  | 185.2  | 177.3  |
| 82.5°  | 142.6  | 145.2  | 141.0  | 136.8  | 133.6  | 124.7  | 118.9  | 107.8  | 101.5  | 94.7   | 94.2   |
| 85°    | 82.1   | 80.0   | 77.9   | 75.7   | 71.0   | 65.8   | 61.5   | 57.3   | 52.6   | 48.9   | 45.2   |
| 87.5°  | 43.1   | 43.7   | 44.2   | 42.1   | 38.9   | 34.7   | 32.1   | 30.5   | 26.8   | 25.2   | 23.7   |
| 90°    | 23.0   | 19.1   | 20.5   | 23.5   | 22.2   | 19.4   | 18.6   | 16.9   | 15.1   | 14.9   | 13.3   |
| 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°  | 8.9    | 8.8    | 8.7    | 8.6    | 8.5    | 8.4    | 8.3    | 8.2    | 8.1    | 8.0    | 8.0    |
| 100°   | 22.6   | 22.2   | 21.8   | 21.4   | 21.0   | 20.6   | 20.2   | 19.8   | 19.4   | 19.0   | 19.0   |
| 102.5° | 41.7   | 41.4   | 41.1   | 40.8   | 40.5   | 40.2   | 39.9   | 39.6   | 39.3   | 39.0   | 38.8   |
| 105°   | 64.6   | 64.2   | 63.8   | 63.4   | 63.0   | 62.6   | 62.2   | 61.8   | 61.4   | 61.0   | 61.0   |
| 107.5° | 89.7   | 89.4   | 89.1   | 88.8   | 88.5   | 88.2   | 87.9   | 87.6   | 87.3   | 87.0   | 86.8   |



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 76°   | 77°   | 78°   | 79°   | 80°   | 81°   | 82°   | 83°   | 84°   | 85°   | 86°   |        |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110°   | 118.7 | 118.4 | 118.1 | 117.8 | 117.5 | 117.2 | 116.9 | 116.6 | 116.3 | 116.0 | 116.2 | 0°     |
| 112.5° | 148.8 | 148.6 | 148.4 | 148.2 | 148.0 | 147.8 | 147.6 | 147.4 | 147.2 | 147.0 | 147.0 | 2.5°   |
| 115°   | 178.8 | 178.6 | 178.4 | 178.2 | 178.0 | 177.8 | 177.6 | 177.4 | 177.2 | 177.0 | 177.2 | 5°     |
| 117.5° | 209.8 | 209.6 | 209.4 | 209.2 | 209.0 | 208.8 | 208.6 | 208.4 | 208.2 | 208.0 | 208.2 | 7.5°   |
| 120°   | 244.8 | 244.6 | 244.4 | 244.2 | 244.0 | 243.8 | 243.6 | 243.4 | 243.2 | 243.0 | 243.0 | 10°    |
| 122.5° | 277.8 | 277.6 | 277.4 | 277.2 | 277.0 | 276.8 | 276.6 | 276.4 | 276.2 | 276.0 | 276.2 | 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° | 345.9 | 345.8 | 345.7 | 345.6 | 345.5 | 345.4 | 345.3 | 345.2 | 345.1 | 345.0 | 345.4 | 17.5°  |
| 130°   | 380.8 | 380.6 | 380.4 | 380.2 | 380.0 | 379.8 | 379.6 | 379.4 | 379.2 | 379.0 | 379.2 | 20°    |
| 132.5° | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.0 | 414.2 | 22.5°  |
| 135°   | 447.3 | 447.6 | 447.9 | 448.2 | 448.5 | 448.8 | 449.1 | 449.4 | 449.7 | 450.0 | 450.2 | 25°    |
| 137.5° | 476.5 | 477.0 | 477.5 | 478.0 | 478.5 | 479.0 | 479.5 | 480.0 | 480.5 | 481.0 | 481.2 | 27.5°  |
| 140°   | 504.5 | 505.0 | 505.5 | 506.0 | 506.5 | 507.0 | 507.5 | 508.0 | 508.5 | 509.0 | 509.4 | 30°    |
| 142.5° | 533.1 | 533.2 | 533.3 | 533.4 | 533.5 | 533.6 | 533.7 | 533.8 | 533.9 | 534.0 | 534.4 | 32.5°  |
| 145°   | 560.7 | 560.4 | 560.1 | 559.8 | 559.5 | 559.2 | 558.9 | 558.6 | 558.3 | 558.0 | 558.4 | 35°    |
| 147.5° | 585.7 | 585.4 | 585.1 | 584.8 | 584.5 | 584.2 | 583.9 | 583.6 | 583.3 | 583.0 | 583.4 | 37.5°  |
| 150°   | 603.3 | 603.6 | 603.9 | 604.2 | 604.5 | 604.8 | 605.1 | 605.4 | 605.7 | 606.0 | 606.8 | 40°    |
| 152.5° | 618.5 | 619.0 | 619.5 | 620.0 | 620.5 | 621.0 | 621.5 | 622.0 | 622.5 | 623.0 | 624.0 | 42.5°  |
| 155°   | 636.2 | 636.4 | 636.6 | 636.8 | 637.0 | 637.2 | 637.4 | 637.6 | 637.8 | 638.0 | 638.6 | 45°    |
| 157.5° | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 650.0 | 651.0 | 47.5°  |
| 160°   | 660.9 | 660.8 | 660.7 | 660.6 | 660.5 | 660.4 | 660.3 | 660.2 | 660.1 | 660.0 | 661.2 | 50°    |
| 162.5° | 669.8 | 669.6 | 669.4 | 669.2 | 669.0 | 668.8 | 668.6 | 668.4 | 668.2 | 668.0 | 669.2 | 52.5°  |
| 165°   | 679.8 | 679.6 | 679.4 | 679.2 | 679.0 | 678.8 | 678.6 | 678.4 | 678.2 | 678.0 | 678.8 | 55°    |
| 167.5° | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 688.0 | 689.2 | 57.5°  |
| 170°   | 694.2 | 694.4 | 694.6 | 694.8 | 695.0 | 695.2 | 695.4 | 695.6 | 695.8 | 696.0 | 697.0 | 60°    |
| 172.5° | 694.2 | 694.4 | 694.6 | 694.8 | 695.0 | 695.2 | 695.4 | 695.6 | 695.8 | 696.0 | 697.0 | 62.5°  |
| 175°   | 695.8 | 695.6 | 695.4 | 695.2 | 695.0 | 694.8 | 694.6 | 694.4 | 694.2 | 694.0 | 695.0 | 65°    |
| 177.5° | 700.7 | 700.4 | 700.1 | 699.8 | 699.5 | 699.2 | 698.9 | 698.6 | 698.3 | 698.0 | 698.8 | 67.5°  |
| 180°   | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 69°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 70°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 72.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 75°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 77.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 80°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 82.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 85°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 87.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 90°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 92.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 95°    |
|        |       |       |       |       |       |       |       |       |       |       |       | 97.5°  |
|        |       |       |       |       |       |       |       |       |       |       |       | 100°   |
|        |       |       |       |       |       |       |       |       |       |       |       | 102.5° |
|        |       |       |       |       |       |       |       |       |       |       |       | 105°   |
|        |       |       |       |       |       |       |       |       |       |       |       | 107.5° |

NUMBER: P226309  
 NUMBER: IST-AF-600-LED-E1-T2-7030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 87°    | 88°    | 89°    | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 110°   | 87°   |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|-------|
| 503.9  | 503.9  | 503.9  | 503.9  | 503.9  | 503.9 | 503.9 | 503.9 | 503.9 | 503.9 | 503.9 | 110°   | 116.4 |
| 507.6  | 507.6  | 506.0  | 505.0  | 501.3  | 495.0 | 488.7 | 482.9 | 475.0 | 471.9 | 467.6 | 112.5° | 147.0 |
| 509.2  | 508.1  | 506.6  | 504.5  | 497.1  | 482.4 | 467.1 | 450.8 | 434.0 | 418.7 | 400.8 | 115°   | 177.4 |
| 510.3  | 508.1  | 506.0  | 503.4  | 492.9  | 470.3 | 439.8 | 407.7 | 377.7 | 355.1 | 345.6 | 117.5° | 208.4 |
| 510.8  | 509.2  | 506.6  | 502.9  | 488.2  | 454.5 | 405.6 | 359.3 | 333.0 | 324.0 | 322.5 | 120°   | 243.0 |
| 516.6  | 513.9  | 509.7  | 505.5  | 486.1  | 437.1 | 367.2 | 323.0 | 312.5 | 316.7 | 324.0 | 122.5° | 276.4 |
| 523.9  | 520.8  | 515.5  | 511.3  | 485.0  | 414.5 | 329.8 | 302.5 | 306.2 | 317.7 | 329.8 | 125°   | 310.0 |
| 537.1  | 531.8  | 526.0  | 521.8  | 487.1  | 386.6 | 299.8 | 291.9 | 303.0 | 317.7 | 334.0 | 127.5° | 345.8 |
| 556.5  | 549.2  | 542.3  | 535.0  | 490.3  | 351.9 | 282.0 | 285.1 | 298.3 | 314.0 | 331.9 | 130°   | 379.4 |
| 580.7  | 572.3  | 562.9  | 551.8  | 493.9  | 321.9 | 272.0 | 277.7 | 289.8 | 303.5 | 318.2 | 132.5° | 414.4 |
| 613.4  | 601.8  | 589.7  | 576.0  | 499.2  | 289.3 | 263.0 | 269.3 | 276.7 | 284.6 | 291.9 | 135°   | 450.4 |
| 654.4  | 638.6  | 625.5  | 607.0  | 504.5  | 267.2 | 255.7 | 257.8 | 259.3 | 260.4 | 259.9 | 137.5° | 481.4 |
| 709.1  | 684.9  | 669.6  | 647.0  | 510.3  | 255.7 | 247.2 | 244.6 | 242.0 | 238.3 | 234.1 | 140°   | 509.8 |
| 767.0  | 747.0  | 722.8  | 693.8  | 513.9  | 247.8 | 239.3 | 230.9 | 223.6 | 219.9 | 219.9 | 142.5° | 534.8 |
| 834.3  | 809.6  | 779.1  | 742.8  | 509.2  | 239.3 | 228.8 | 217.8 | 213.6 | 218.3 | 216.7 | 145°   | 558.8 |
| 901.6  | 867.4  | 833.8  | 792.2  | 497.6  | 229.9 | 217.3 | 211.5 | 214.6 | 208.3 | 204.6 | 147.5° | 583.8 |
| 975.8  | 937.9  | 891.1  | 842.7  | 480.8  | 219.9 | 211.5 | 214.6 | 203.6 | 196.2 | 199.4 | 150°   | 607.6 |
| 1058.9 | 1014.2 | 963.7  | 897.9  | 469.7  | 213.6 | 202.5 | 205.2 | 195.7 | 190.4 | 188.8 | 152.5° | 625.0 |
| 1172.0 | 1108.3 | 1046.8 | 969.5  | 478.2  | 203.6 | 185.2 | 195.7 | 190.4 | 185.7 | 181.5 | 155°   | 639.2 |
| 1283.0 | 1215.1 | 1142.5 | 1051.5 | 492.9  | 196.2 | 171.5 | 185.7 | 189.4 | 181.5 | 173.6 | 157.5° | 652.0 |
| 1394.5 | 1322.4 | 1237.8 | 1136.2 | 510.8  | 191.5 | 161.0 | 173.6 | 186.7 | 177.3 | 171.0 | 160°   | 662.4 |
| 1511.8 | 1420.8 | 1334.0 | 1224.6 | 533.9  | 186.7 | 152.5 | 163.1 | 182.0 | 177.3 | 167.8 | 162.5° | 670.4 |
| 1634.9 | 1527.6 | 1440.8 | 1322.4 | 574.4  | 179.9 | 142.0 | 154.7 | 177.3 | 176.7 | 164.6 | 165°   | 679.6 |
| 1778.0 | 1682.3 | 1570.7 | 1450.3 | 630.7  | 172.0 | 132.6 | 148.3 | 173.1 | 174.6 | 161.0 | 167.5° | 690.4 |
| 2021.5 | 1922.6 | 1788.0 | 1673.3 | 742.2  | 161.5 | 126.8 | 142.0 | 166.2 | 170.4 | 157.8 | 170°   | 698.0 |
| 2416.6 | 2281.9 | 2158.3 | 2051.0 | 933.2  | 146.8 | 122.6 | 135.2 | 158.9 | 165.2 | 155.2 | 172.5° | 698.0 |
| 2869.5 | 2738.0 | 2588.6 | 2408.2 | 1039.4 | 133.1 | 116.8 | 126.8 | 151.5 | 159.9 | 152.5 | 175°   | 696.0 |
| 3062.0 | 2890.0 | 2708.5 | 2494.4 | 937.9  | 122.0 | 110.5 | 118.9 | 143.1 | 152.5 | 148.9 | 177.5° | 699.6 |
| 2973.7 | 2799.5 | 2588.6 | 2378.7 | 815.9  | 116.3 | 106.8 | 114.7 | 136.8 | 147.8 | 145.2 | 180°   | 700.0 |
| 2820.1 | 2644.9 | 2456.6 | 2204.6 | 728.6  | 113.1 | 104.2 | 112.0 | 134.1 | 145.2 | 143.1 |        |       |
| 2230.4 | 2074.1 | 1900.6 | 1708.6 | 496.6  | 102.6 | 95.7  | 104.2 | 123.6 | 135.7 | 135.2 |        |       |
| 1182.0 | 1136.2 | 1007.9 | 895.3  | 257.2  | 91.5  | 86.8  | 95.2  | 114.1 | 126.8 | 126.8 |        |       |
| 425.6  | 386.1  | 369.3  | 306.7  | 136.8  | 80.0  | 77.9  | 84.2  | 103.6 | 115.7 | 115.2 |        |       |
| 161.0  | 156.8  | 140.5  | 131.5  | 86.8   | 65.2  | 65.8  | 72.1  | 91.0  | 102.6 | 102.1 |        |       |
| 91.0   | 82.6   | 80.0   | 77.3   | 55.2   | 51.6  | 54.2  | 60.5  | 77.9  | 87.8  | 89.4  |        |       |
| 43.7   | 40.5   | 39.5   | 36.8   | 36.3   | 39.5  | 42.6  | 47.9  | 62.1  | 74.2  | 72.6  |        |       |
| 21.0   | 20.0   | 19.5   | 18.9   | 25.8   | 25.2  | 31.0  | 33.1  | 41.6  | 58.9  | 53.1  |        |       |
| 13.8   | 13.8   | 13.3   | 12.3   | 14.4   | 17.4  | 19.0  | 21.2  | 24.4  | 42.2  | 35.9  |        |       |
| 6.0    | 6.0    | 6.0    | 6.0    | 6.0    | 6.0   | 7.0   | 7.0   | 6.0   | 6.0   | 6.0   |        |       |
| 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0   | 8.0   | 7.0   | 7.0   | 7.0   | 7.0   |        |       |
| 8.0    | 8.0    | 8.0    | 8.0    | 8.0    | 9.0   | 10.0  | 12.0  | 9.0   | 9.0   | 8.0   |        |       |
| 19.0   | 19.0   | 19.0   | 19.0   | 19.0   | 23.0  | 26.0  | 29.0  | 21.0  | 12.0  | 10.0  |        |       |
| 38.6   | 38.4   | 38.2   | 38.0   | 39.0   | 42.0  | 47.0  | 50.0  | 40.0  | 27.0  | 18.0  |        |       |
| 61.0   | 61.0   | 61.0   | 61.0   | 61.0   | 65.0  | 70.0  | 72.0  | 63.0  | 48.0  | 36.0  |        |       |
| 86.6   | 86.4   | 86.2   | 86.0   | 87.0   | 90.0  | 94.0  | 95.0  | 88.0  | 73.0  | 58.0  |        |       |

'226309  
 IST-AF-600-LED-E1-T2-7030-ULG

REPORT NUMBER: P226309  
 CATALOG NUMBER: IST-AF-60

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 88°   | 89°   | 90°   | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  |        | 165°  | 175°  |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| 116.6 | 116.8 | 117.0 | 116.0 | 119.0 | 121.0 | 120.0 | 114.0 | 102.0 | 87.0  | 0°     | 503.9 | 503.9 |
| 147.0 | 147.0 | 147.0 | 147.0 | 149.0 | 150.0 | 148.0 | 143.0 | 134.0 | 121.0 | 2.5°   | 464.0 | 456.6 |
| 177.6 | 177.8 | 178.0 | 177.0 | 179.0 | 182.0 | 179.0 | 174.0 | 168.0 | 159.0 | 5°     | 387.7 | 386.6 |
| 208.6 | 208.8 | 209.0 | 208.0 | 210.0 | 215.0 | 211.0 | 205.0 | 202.0 | 197.0 | 7.5°   | 339.8 | 333.0 |
| 243.0 | 243.0 | 243.0 | 243.0 | 245.0 | 250.0 | 246.0 | 243.0 | 237.0 | 233.0 | 10°    | 324.0 | 323.5 |
| 276.6 | 276.8 | 277.0 | 276.0 | 278.0 | 283.0 | 279.0 | 277.0 | 271.0 | 267.0 | 12.5°  | 330.9 | 332.5 |
| 310.0 | 310.0 | 310.0 | 310.0 | 310.0 | 315.0 | 313.0 | 310.0 | 305.0 | 299.0 | 15°    | 339.8 | 343.0 |
| 346.2 | 346.6 | 347.0 | 345.0 | 346.0 | 346.0 | 345.0 | 340.0 | 339.0 | 333.0 | 17.5°  | 345.6 | 351.4 |
| 379.6 | 379.8 | 380.0 | 379.0 | 381.0 | 381.0 | 377.0 | 372.0 | 370.0 | 366.0 | 20°    | 344.0 | 350.9 |
| 414.6 | 414.8 | 415.0 | 414.0 | 414.0 | 416.0 | 411.0 | 405.0 | 404.0 | 401.0 | 22.5°  | 326.7 | 329.8 |
| 450.6 | 450.8 | 451.0 | 450.0 | 447.0 | 448.0 | 443.0 | 437.0 | 435.0 | 432.0 | 25°    | 295.6 | 296.7 |
| 481.6 | 481.8 | 482.0 | 481.0 | 476.0 | 475.0 | 473.0 | 468.0 | 464.0 | 460.0 | 27.5°  | 258.3 | 257.2 |
| 510.2 | 510.6 | 511.0 | 509.0 | 504.0 | 502.0 | 500.0 | 497.0 | 491.0 | 489.0 | 30°    | 232.0 | 225.1 |
| 535.2 | 535.6 | 536.0 | 534.0 | 533.0 | 533.0 | 527.0 | 525.0 | 521.0 | 518.0 | 32.5°  | 219.9 | 215.7 |
| 559.2 | 559.6 | 560.0 | 558.0 | 561.0 | 562.0 | 556.0 | 551.0 | 550.0 | 547.0 | 35°    | 211.5 | 204.6 |
| 584.2 | 584.6 | 585.0 | 583.0 | 586.0 | 585.0 | 580.0 | 575.0 | 574.0 | 574.0 | 37.5°  | 219.4 | 218.8 |
| 608.4 | 609.2 | 610.0 | 606.0 | 603.0 | 600.0 | 597.0 | 593.0 | 593.0 | 593.0 | 40°    | 226.7 | 225.7 |
| 626.0 | 627.0 | 628.0 | 623.0 | 618.0 | 614.0 | 611.0 | 610.0 | 610.0 | 609.0 | 42.5°  | 214.1 | 204.6 |
| 639.8 | 640.4 | 641.0 | 638.0 | 636.0 | 631.0 | 626.0 | 628.0 | 630.0 | 627.0 | 45°    | 190.9 | 179.9 |
| 653.0 | 654.0 | 655.0 | 650.0 | 650.0 | 648.0 | 644.0 | 645.0 | 646.0 | 644.0 | 47.5°  | 175.2 | 168.9 |
| 663.6 | 664.8 | 666.0 | 660.0 | 661.0 | 664.0 | 658.0 | 655.0 | 655.0 | 656.0 | 50°    | 167.8 | 165.7 |
| 671.6 | 672.8 | 674.0 | 668.0 | 670.0 | 671.0 | 667.0 | 663.0 | 661.0 | 665.0 | 52.5°  | 165.7 | 171.0 |
| 680.4 | 681.2 | 682.0 | 678.0 | 680.0 | 677.0 | 672.0 | 673.0 | 673.0 | 676.0 | 55°    | 164.6 | 170.4 |
| 691.6 | 692.8 | 694.0 | 688.0 | 688.0 | 684.0 | 678.0 | 685.0 | 688.0 | 686.0 | 57.5°  | 157.3 | 167.3 |
| 699.0 | 700.0 | 701.0 | 696.0 | 694.0 | 689.0 | 686.0 | 691.0 | 693.0 | 692.0 | 60°    | 152.0 | 164.1 |
| 699.0 | 700.0 | 701.0 | 696.0 | 694.0 | 692.0 | 689.0 | 690.0 | 690.0 | 693.0 | 62.5°  | 148.9 | 162.5 |
| 697.0 | 698.0 | 699.0 | 694.0 | 696.0 | 695.0 | 690.0 | 690.0 | 691.0 | 695.0 | 65°    | 146.2 | 163.6 |
| 700.4 | 701.2 | 702.0 | 698.0 | 701.0 | 699.0 | 694.0 | 695.0 | 697.0 | 699.0 | 67.5°  | 142.0 | 166.8 |
| 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 700.0 | 69°    | 139.9 | 166.2 |
|       |       |       |       |       |       |       |       |       |       | 70°    | 137.8 | 164.6 |
|       |       |       |       |       |       |       |       |       |       | 72.5°  | 130.5 | 152.0 |
|       |       |       |       |       |       |       |       |       |       | 75°    | 121.5 | 134.1 |
|       |       |       |       |       |       |       |       |       |       | 77.5°  | 109.9 | 115.2 |
|       |       |       |       |       |       |       |       |       |       | 80°    | 97.3  | 100.5 |
|       |       |       |       |       |       |       |       |       |       | 82.5°  | 84.7  | 96.8  |
|       |       |       |       |       |       |       |       |       |       | 85°    | 66.3  | 82.1  |
|       |       |       |       |       |       |       |       |       |       | 87.5°  | 48.9  | 45.2  |
|       |       |       |       |       |       |       |       |       |       | 90°    | 34.9  | 25.5  |
|       |       |       |       |       |       |       |       |       |       | 92.5°  | 5.0   | 4.0   |
|       |       |       |       |       |       |       |       |       |       | 95°    | 6.0   | 5.0   |
|       |       |       |       |       |       |       |       |       |       | 97.5°  | 8.0   | 7.0   |
|       |       |       |       |       |       |       |       |       |       | 100°   | 9.0   | 8.0   |
|       |       |       |       |       |       |       |       |       |       | 102.5° | 13.0  | 11.0  |
|       |       |       |       |       |       |       |       |       |       | 105°   | 27.0  | 22.0  |
|       |       |       |       |       |       |       |       |       |       | 107.5° | 49.0  | 42.0  |



REPORT NUMBER: P226309

CATALOG NUMBER: IST-AF-600-LED-E1-1

0-LED-E1-T2-7030-ULG

**tinued):**

|       |
|-------|
| 180°  |
| 503.9 |
| 458.2 |
| 383.5 |
| 333.5 |
| 325.1 |
| 331.4 |
| 344.0 |
| 353.5 |
| 352.4 |
| 332.5 |
| 297.7 |
| 261.4 |
| 230.4 |
| 220.4 |
| 207.8 |
| 221.5 |
| 227.8 |
| 206.7 |
| 179.9 |
| 167.8 |
| 164.6 |
| 172.5 |
| 169.9 |
| 167.8 |
| 164.6 |
| 162.0 |
| 161.5 |
| 162.5 |
| 160.4 |
| 157.8 |
| 142.0 |
| 127.8 |
| 115.2 |
| 101.5 |
| 85.7  |
| 64.2  |
| 48.9  |
| 22.4  |
| 4.0   |
| 5.0   |
| 7.0   |
| 8.0   |
| 11.0  |
| 21.0  |
| 41.0  |

**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 175°  | 180°  |
|--------|-------|-------|-------|
| 110°   | 74.0  | 68.0  | 66.0  |
| 112.5° | 106.0 | 99.0  | 99.0  |
| 115°   | 147.0 | 139.0 | 140.0 |
| 117.5° | 189.0 | 184.0 | 184.0 |
| 120°   | 226.0 | 223.0 | 225.0 |
| 122.5° | 261.0 | 260.0 | 263.0 |
| 125°   | 296.0 | 294.0 | 298.0 |
| 127.5° | 329.0 | 329.0 | 330.0 |
| 130°   | 362.0 | 361.0 | 363.0 |
| 132.5° | 393.0 | 394.0 | 396.0 |
| 135°   | 426.0 | 426.0 | 429.0 |
| 137.5° | 459.0 | 457.0 | 460.0 |
| 140°   | 487.0 | 485.0 | 488.0 |
| 142.5° | 517.0 | 515.0 | 518.0 |
| 145°   | 544.0 | 546.0 | 550.0 |
| 147.5° | 571.0 | 572.0 | 575.0 |
| 150°   | 593.0 | 592.0 | 595.0 |
| 152.5° | 608.0 | 608.0 | 611.0 |
| 155°   | 625.0 | 625.0 | 629.0 |
| 157.5° | 643.0 | 643.0 | 646.0 |
| 160°   | 659.0 | 660.0 | 663.0 |
| 162.5° | 669.0 | 669.0 | 673.0 |
| 165°   | 676.0 | 678.0 | 681.0 |
| 167.5° | 684.0 | 687.0 | 690.0 |
| 170°   | 692.0 | 695.0 | 698.0 |
| 172.5° | 695.0 | 697.0 | 699.0 |
| 175°   | 697.0 | 698.0 | 700.0 |
| 177.5° | 700.0 | 705.0 | 707.0 |
| 180°   | 700.0 | 700.0 | 700.0 |

(END OF F

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report

