

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: P227682

Luminaire Tested: **ISS-AF-1200-LED-E1-T3-7060-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227682  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)-DOWNLIGHT AND  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISS-AF-1200-LED-E1-T3-7060-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III, WITH UPLIGHT GLOW  
Light Source: (16) 5700K CCT, 70 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8003.2 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 82.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

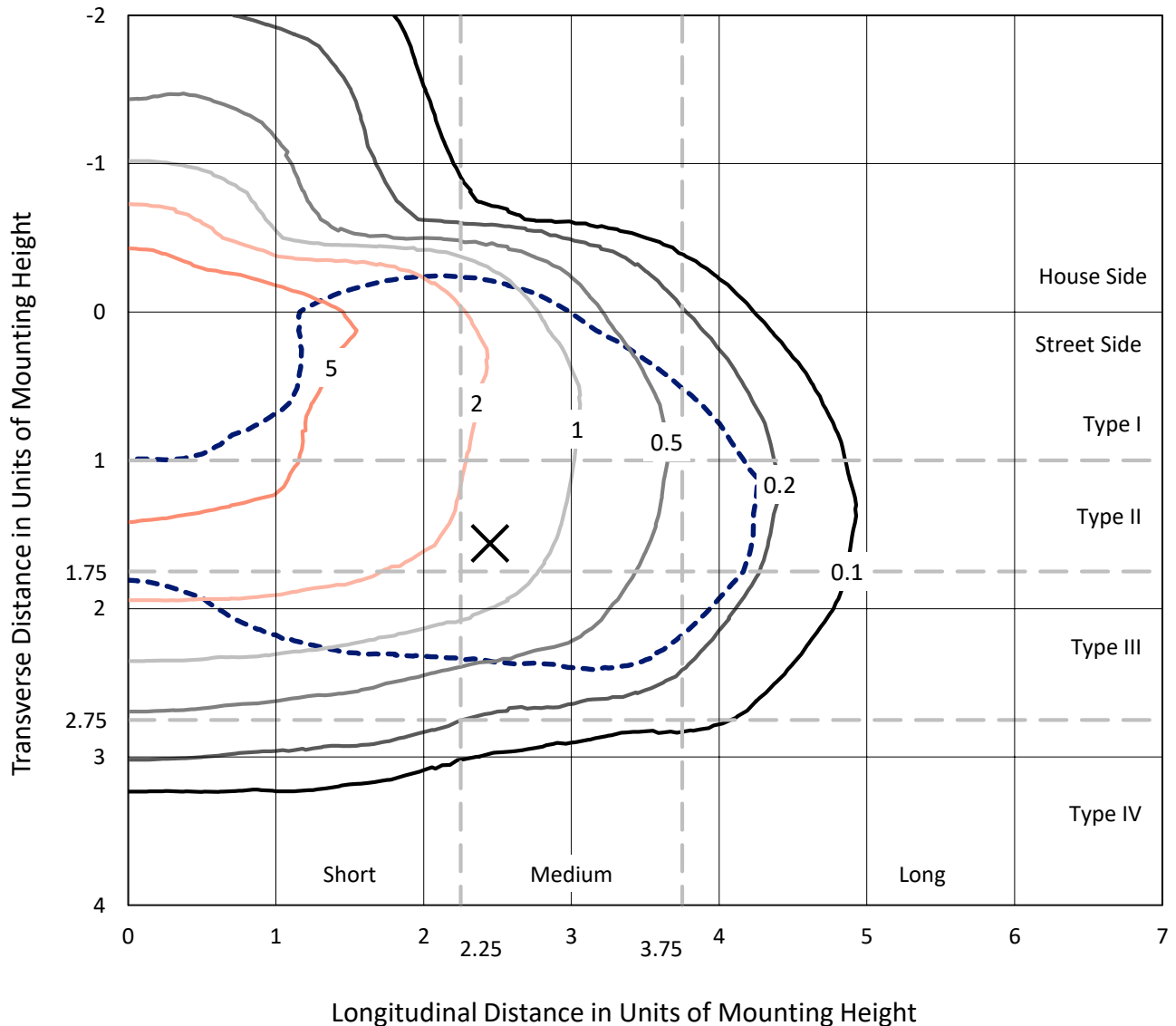


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

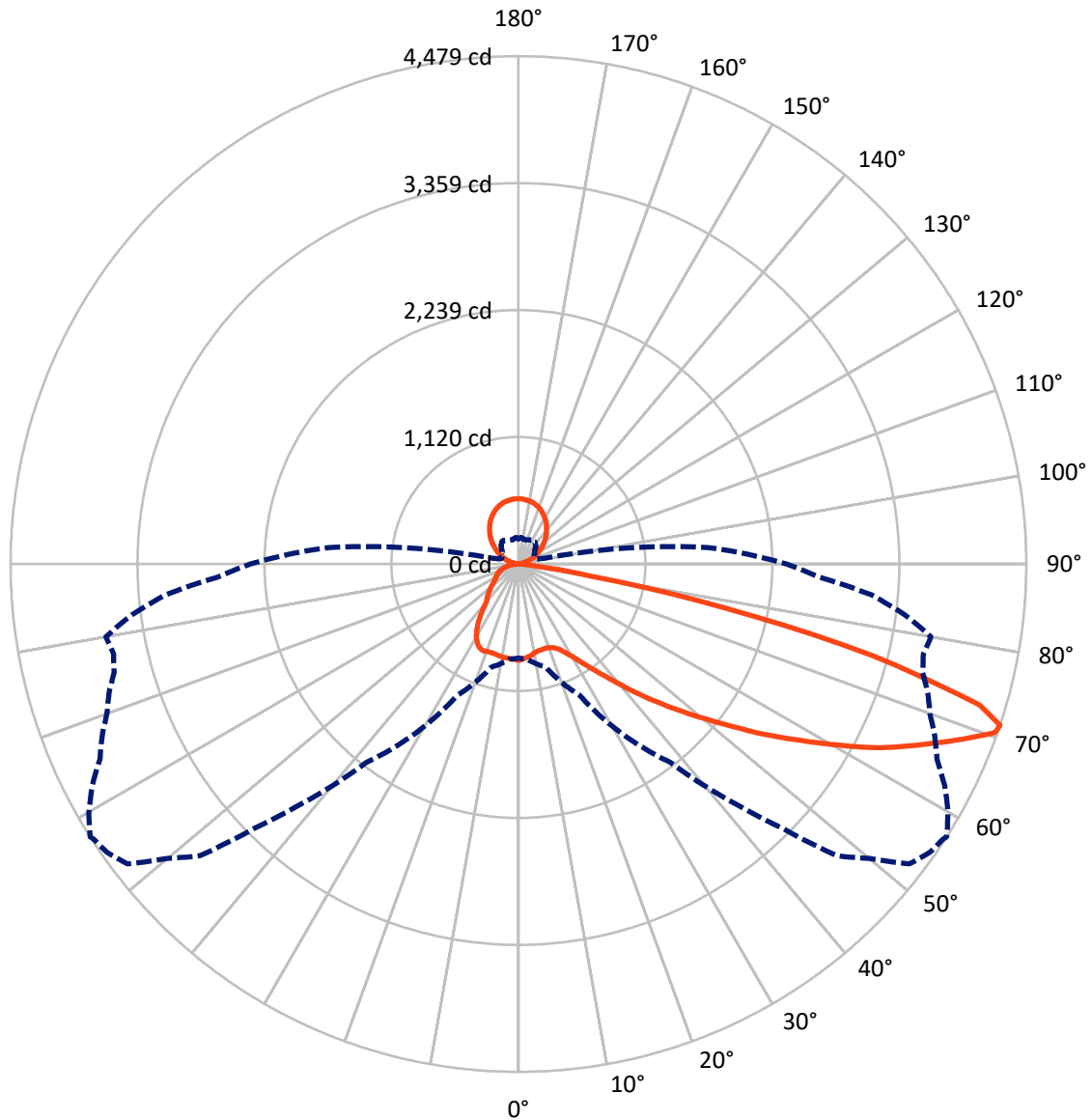


Based on 10 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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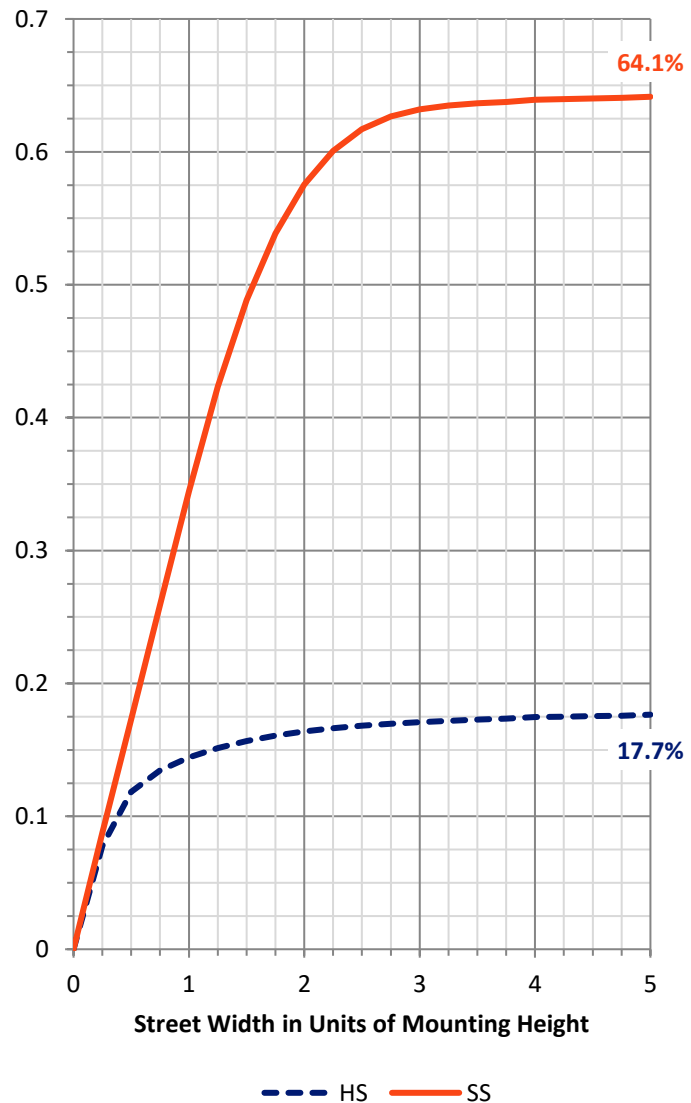
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1431.8   | 713.1  | 2144.9 |
|                    | % Fixture | 17.9     | 8.9    | 26.8   |
| <b>Street Side</b> | Lumens    | 5145.2   | 713.1  | 5858.2 |
|                    | % Fixture | 64.3     | 8.9    | 73.2   |
| <b>Total</b>       | Lumens    | 6577.0   | 1426.2 | 8003.2 |
|                    | % Fixture | 82.2     | 17.8   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 80.0   | 1.0       |
| 10°-20°   | 230.4  | 2.9       |
| 20°-30°   | 382.5  | 4.8       |
| 30°-40°   | 608.9  | 7.6       |
| 40°-50°   | 989.2  | 12.4      |
| 50°-60°   | 1483.2 | 18.5      |
| 60°-70°   | 1769.4 | 22.1      |
| 70°-80°   | 955.6  | 11.9      |
| 80°-90°   | 77.8   | 1.0       |
| 90°-100°  | 4.7    | 0.1       |
| 100°-110° | 69.0   | 0.9       |
| 110°-120° | 153.0  | 1.9       |
| 120°-130° | 223.9  | 2.8       |
| 130°-140° | 265.6  | 3.3       |
| 140°-150° | 269.3  | 3.4       |
| 150°-160° | 231.1  | 2.9       |
| 160°-170° | 155.1  | 1.9       |
| 170°-180° | 54.3   | 0.7       |
| 0°-90°    | 6577.0 | 82.2      |
| 0°-180°   | 8003.2 | 100.0     |



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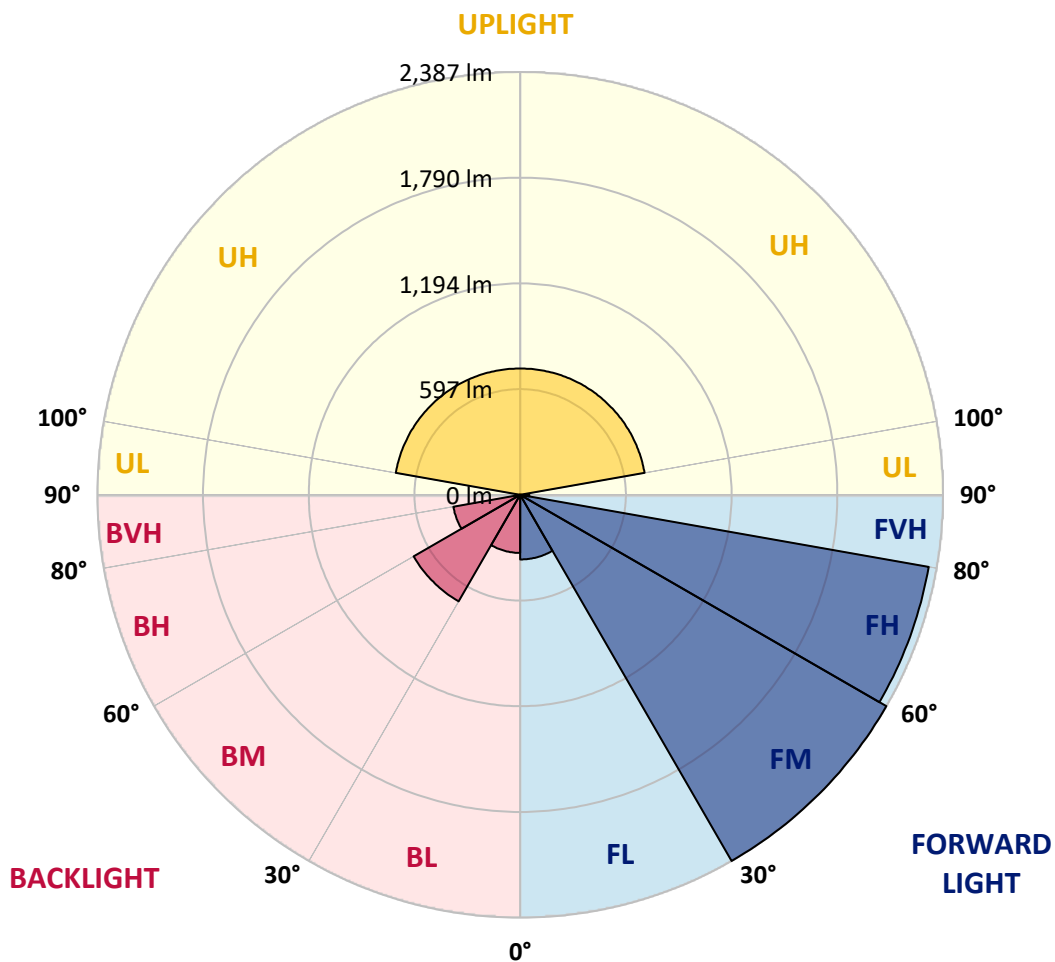
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|----------------|--------|-----------|-------------------------|---------|---------|
|                |        |           | B                       | U       | G       |
| FL (0°-30°)    | 364.9  | 4.6       |                         |         |         |
| FM (30°-60°)   | 2387.0 | 29.8      |                         |         |         |
| FH (60°-80°)   | 2342.0 | 29.3      |                         |         | G2/5000 |
| FVH (80°-90°)  | 51.2   | 0.6       |                         |         | G1/100  |
| BL (0°-30°)    | 328.0  | 4.1       | B1/500                  |         |         |
| BM (30°-60°)   | 694.3  | 8.7       | B1/1000                 |         |         |
| BH (60°-80°)   | 383.0  | 4.8       | B1/500                  |         | G1/500  |
| BVH (80°-90°)  | 26.5   | 0.3       |                         |         | G1/100  |
| UL (90°-100°)  | 4.7    | 0.1       |                         | U1/10   |         |
| UH (100°-180°) | 713.1  | 8.9       |                         | U4/1000 |         |

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47.5°  | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  |
| 2.5°   | 849.6  | 847.5  | 845.3  | 845.3  | 845.3  | 843.1  | 836.6  | 838.8  | 845.3  | 841.0  | 847.5  |
| 5°     | 847.5  | 843.1  | 841.0  | 841.0  | 841.0  | 834.4  | 832.3  | 830.1  | 843.1  | 832.3  | 841.0  |
| 7.5°   | 823.6  | 823.6  | 819.2  | 823.6  | 827.9  | 821.4  | 817.1  | 819.2  | 830.1  | 819.2  | 830.1  |
| 10°    | 806.2  | 801.8  | 799.7  | 799.7  | 804.0  | 795.3  | 791.0  | 795.3  | 808.4  | 795.3  | 810.5  |
| 12.5°  | 799.7  | 801.8  | 795.3  | 795.3  | 793.2  | 782.3  | 782.3  | 782.3  | 793.2  | 782.3  | 795.3  |
| 15°    | 810.5  | 808.4  | 801.8  | 797.5  | 791.0  | 782.3  | 780.1  | 782.3  | 791.0  | 777.9  | 793.2  |
| 17.5°  | 825.7  | 825.7  | 814.9  | 804.0  | 797.5  | 788.8  | 788.8  | 784.5  | 791.0  | 782.3  | 793.2  |
| 20°    | 864.9  | 858.3  | 843.1  | 825.7  | 808.4  | 804.0  | 795.3  | 795.3  | 799.7  | 791.0  | 797.5  |
| 22.5°  | 932.2  | 925.7  | 899.6  | 867.0  | 838.8  | 827.9  | 823.6  | 821.4  | 817.1  | 812.7  | 812.7  |
| 25°    | 1021.3 | 1010.5 | 980.0  | 940.9  | 893.1  | 884.4  | 875.7  | 869.2  | 854.0  | 854.0  | 843.1  |
| 27.5°  | 1116.9 | 1106.1 | 1073.5 | 1030.0 | 971.3  | 958.3  | 947.4  | 938.7  | 912.7  | 912.7  | 893.1  |
| 30°    | 1225.6 | 1212.5 | 1173.4 | 1125.6 | 1058.3 | 1053.9 | 1038.7 | 1025.7 | 990.9  | 988.7  | 962.6  |
| 32.5°  | 1351.6 | 1334.2 | 1295.1 | 1232.1 | 1160.4 | 1162.6 | 1138.7 | 1130.0 | 1084.3 | 1086.5 | 1051.7 |
| 35°    | 1495.0 | 1475.5 | 1436.4 | 1353.8 | 1279.9 | 1286.4 | 1264.7 | 1249.5 | 1193.0 | 1193.0 | 1156.0 |
| 37.5°  | 1647.1 | 1647.1 | 1597.2 | 1501.6 | 1412.5 | 1427.7 | 1401.6 | 1386.4 | 1329.9 | 1338.6 | 1279.9 |
| 40°    | 1816.6 | 1827.5 | 1773.2 | 1664.5 | 1573.3 | 1579.8 | 1560.2 | 1542.8 | 1475.5 | 1490.7 | 1427.7 |
| 42.5°  | 1994.8 | 2014.4 | 1966.6 | 1853.6 | 1751.5 | 1773.2 | 1740.6 | 1723.2 | 1651.5 | 1684.1 | 1610.2 |
| 45°    | 2253.4 | 2257.8 | 2168.7 | 2060.0 | 1975.3 | 1994.8 | 1949.2 | 1942.7 | 1853.6 | 1888.4 | 1814.5 |
| 47.5°  | 2416.4 | 2405.5 | 2340.3 | 2275.1 | 2225.2 | 2264.3 | 2223.0 | 2212.1 | 2110.0 | 2133.9 | 2029.6 |
| 50°    | 2527.2 | 2533.7 | 2483.8 | 2477.2 | 2485.9 | 2559.8 | 2553.3 | 2531.6 | 2409.9 | 2392.5 | 2262.1 |
| 52.5°  | 2627.2 | 2598.9 | 2590.2 | 2651.1 | 2744.5 | 2831.4 | 2866.2 | 2838.0 | 2705.4 | 2657.6 | 2531.6 |
| 55°    | 2609.8 | 2568.5 | 2614.1 | 2761.9 | 2946.6 | 3081.3 | 3085.7 | 3066.1 | 2946.6 | 2927.1 | 2790.2 |
| 57.5°  | 2492.4 | 2501.1 | 2594.6 | 2805.4 | 3118.3 | 3257.3 | 3281.3 | 3257.3 | 3159.6 | 3176.9 | 3064.0 |
| 60°    | 2329.5 | 2346.9 | 2494.6 | 2766.2 | 3255.2 | 3374.7 | 3385.6 | 3413.8 | 3348.6 | 3394.2 | 3316.0 |
| 62.5°  | 2086.1 | 2110.0 | 2299.0 | 2668.5 | 3159.6 | 3337.8 | 3437.7 | 3502.9 | 3489.9 | 3594.2 | 3552.9 |
| 65°    | 1916.6 | 1916.6 | 2101.3 | 2555.5 | 3066.1 | 3300.8 | 3450.7 | 3572.4 | 3589.8 | 3755.0 | 3739.8 |
| 67.5°  | 1601.5 | 1612.4 | 1771.0 | 2240.4 | 2953.1 | 3218.2 | 3444.2 | 3650.7 | 3755.0 | 4015.7 | 4028.8 |
| 70°    | 1108.2 | 1116.9 | 1221.2 | 1599.3 | 2386.0 | 2612.0 | 2944.4 | 3281.3 | 3594.2 | 3987.5 | 4191.7 |
| 71°    | 830.1  | 841.0  | 943.1  | 1275.6 | 2020.9 | 2207.8 | 2553.3 | 2903.1 | 3296.5 | 3807.1 | 4037.5 |
| 72.5°  | 406.4  | 412.9  | 512.8  | 819.2  | 1405.9 | 1645.0 | 1844.9 | 2179.5 | 2596.8 | 3181.3 | 3507.2 |
| 75°    | 189.1  | 191.2  | 213.0  | 295.5  | 536.7  | 638.9  | 728.0  | 943.1  | 1201.7 | 1714.5 | 2110.0 |
| 77.5°  | 139.1  | 139.1  | 152.1  | 193.4  | 278.1  | 282.5  | 278.1  | 284.7  | 343.3  | 491.1  | 738.8  |
| 80°    | 102.1  | 102.1  | 110.8  | 130.4  | 184.7  | 184.7  | 178.2  | 180.4  | 173.8  | 180.4  | 204.3  |
| 82.5°  | 67.4   | 67.4   | 71.7   | 78.2   | 113.0  | 113.0  | 108.7  | 108.7  | 104.3  | 102.1  | 110.8  |
| 85°    | 39.1   | 41.3   | 43.5   | 36.9   | 47.8   | 45.6   | 41.3   | 45.6   | 43.5   | 39.1   | 47.8   |
| 87.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 2.2    | 0.0    | 0.0    | 0.0    | 2.2    | 0.0    | 2.2    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 97.5°  | 2.0    | 2.0    | 2.0    | 3.0    | 4.0    | 5.2    | 6.5    | 7.8    | 9.0    | 10.0   | 11.0   |
| 100°   | 8.0    | 8.0    | 10.0   | 14.0   | 22.0   | 24.0   | 26.0   | 28.0   | 30.0   | 30.5   | 31.0   |
| 102.5° | 28.0   | 28.0   | 32.0   | 38.0   | 45.0   | 46.2   | 47.5   | 48.8   | 50.0   | 50.2   | 50.5   |
| 105°   | 54.0   | 54.0   | 56.0   | 61.0   | 66.0   | 67.0   | 68.0   | 69.0   | 70.0   | 70.2   | 70.5   |
| 107.5° | 78.0   | 77.0   | 80.0   | 84.0   | 88.0   | 88.8   | 89.5   | 90.2   | 91.0   | 91.5   | 92.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 5°    | 15°   | 25°   | 35°   | 37.5° | 40°   | 42.5° | 45°   | 47.5° | 50°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 101.0 | 102.0 | 103.0 | 106.0 | 110.0 | 110.5 | 111.0 | 111.5 | 112.0 | 112.5 | 113.0 |
| 112.5° | 124.0 | 124.0 | 126.0 | 129.0 | 132.0 | 132.5 | 133.0 | 133.5 | 134.0 | 134.5 | 135.0 |
| 115°   | 146.0 | 147.0 | 149.0 | 151.0 | 154.0 | 154.5 | 155.0 | 155.5 | 156.0 | 156.5 | 157.0 |
| 117.5° | 169.0 | 170.0 | 172.0 | 174.0 | 177.0 | 177.5 | 178.0 | 178.5 | 179.0 | 179.2 | 179.5 |
| 120°   | 193.0 | 195.0 | 196.0 | 198.0 | 201.0 | 201.2 | 201.5 | 201.8 | 202.0 | 202.5 | 203.0 |
| 122.5° | 219.0 | 220.0 | 221.0 | 223.0 | 226.0 | 226.2 | 226.5 | 226.8 | 227.0 | 227.2 | 227.5 |
| 125°   | 244.0 | 246.0 | 247.0 | 248.0 | 251.0 | 251.2 | 251.5 | 251.8 | 252.0 | 252.2 | 252.5 |
| 127.5° | 267.0 | 269.0 | 270.0 | 272.0 | 274.0 | 274.5 | 275.0 | 275.5 | 276.0 | 276.5 | 277.0 |
| 130°   | 290.0 | 292.0 | 293.0 | 294.0 | 298.0 | 298.2 | 298.5 | 298.8 | 299.0 | 299.5 | 300.0 |
| 132.5° | 313.0 | 314.0 | 317.0 | 318.0 | 321.0 | 321.2 | 321.5 | 321.8 | 322.0 | 322.8 | 323.5 |
| 135°   | 336.0 | 337.0 | 339.0 | 341.0 | 345.0 | 345.0 | 345.0 | 345.0 | 345.0 | 345.8 | 346.5 |
| 137.5° | 359.0 | 360.0 | 363.0 | 364.0 | 367.0 | 367.0 | 367.0 | 367.0 | 367.0 | 367.5 | 368.0 |
| 140°   | 382.0 | 383.0 | 385.0 | 386.0 | 388.0 | 388.2 | 388.5 | 388.8 | 389.0 | 389.2 | 389.5 |
| 142.5° | 404.0 | 406.0 | 408.0 | 407.0 | 410.0 | 410.0 | 410.0 | 410.0 | 410.0 | 410.5 | 411.0 |
| 145°   | 425.0 | 426.0 | 428.0 | 428.0 | 431.0 | 431.2 | 431.5 | 431.8 | 432.0 | 432.5 | 433.0 |
| 147.5° | 444.0 | 444.0 | 447.0 | 448.0 | 452.0 | 452.2 | 452.5 | 452.8 | 453.0 | 453.2 | 453.5 |
| 150°   | 461.0 | 462.0 | 464.0 | 465.0 | 469.0 | 469.2 | 469.5 | 469.8 | 470.0 | 470.2 | 470.5 |
| 152.5° | 479.0 | 480.0 | 483.0 | 482.0 | 485.0 | 485.2 | 485.5 | 485.8 | 486.0 | 486.2 | 486.5 |
| 155°   | 499.0 | 500.0 | 502.0 | 501.0 | 503.0 | 503.0 | 503.0 | 503.0 | 503.0 | 503.2 | 503.5 |
| 157.5° | 513.0 | 515.0 | 517.0 | 516.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 | 519.0 |
| 160°   | 525.0 | 527.0 | 529.0 | 529.0 | 532.0 | 532.0 | 532.0 | 532.0 | 532.0 | 532.0 | 532.0 |
| 162.5° | 535.0 | 536.0 | 539.0 | 538.0 | 541.0 | 541.0 | 541.0 | 541.0 | 541.0 | 541.2 | 541.5 |
| 165°   | 546.0 | 547.0 | 549.0 | 548.0 | 552.0 | 552.0 | 552.0 | 552.0 | 552.0 | 552.2 | 552.5 |
| 167.5° | 555.0 | 556.0 | 559.0 | 558.0 | 561.0 | 560.8 | 560.5 | 560.2 | 560.0 | 560.0 | 560.0 |
| 170°   | 562.0 | 563.0 | 566.0 | 565.0 | 567.0 | 566.8 | 566.5 | 566.2 | 566.0 | 565.8 | 565.5 |
| 172.5° | 565.0 | 566.0 | 569.0 | 567.0 | 569.0 | 568.8 | 568.5 | 568.2 | 568.0 | 568.2 | 568.5 |
| 175°   | 567.0 | 569.0 | 570.0 | 569.0 | 572.0 | 572.0 | 572.0 | 572.0 | 572.0 | 572.2 | 572.5 |
| 177.5° | 572.0 | 573.0 | 575.0 | 574.0 | 578.0 | 577.8 | 577.5 | 577.2 | 577.0 | 577.0 | 577.0 |
| 180°   | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |





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**CANDELA DISTRIBUTION (continued):**

|        | 52.5°  | 55°    | 57°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 70°    | 72.5°  | 75°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  |
| 2.5°   | 838.8  | 845.3  | 845.3  | 836.6  | 843.1  | 836.6  | 841.0  | 834.4  | 841.0  | 830.1  | 843.1  |
| 5°     | 832.3  | 838.8  | 838.8  | 825.7  | 838.8  | 825.7  | 836.6  | 821.4  | 836.6  | 819.2  | 836.6  |
| 7.5°   | 814.9  | 830.1  | 830.1  | 812.7  | 827.9  | 814.9  | 827.9  | 812.7  | 825.7  | 806.2  | 827.9  |
| 10°    | 795.3  | 810.5  | 812.7  | 795.3  | 812.7  | 797.5  | 817.1  | 797.5  | 817.1  | 795.3  | 819.2  |
| 12.5°  | 782.3  | 799.7  | 804.0  | 784.5  | 806.2  | 786.6  | 810.5  | 788.8  | 810.5  | 786.6  | 814.9  |
| 15°    | 780.1  | 795.3  | 799.7  | 782.3  | 801.8  | 780.1  | 808.4  | 782.3  | 810.5  | 784.5  | 817.1  |
| 17.5°  | 782.3  | 795.3  | 799.7  | 780.1  | 799.7  | 782.3  | 806.2  | 784.5  | 810.5  | 786.6  | 817.1  |
| 20°    | 788.8  | 797.5  | 797.5  | 786.6  | 801.8  | 786.6  | 806.2  | 784.5  | 812.7  | 791.0  | 819.2  |
| 22.5°  | 808.4  | 810.5  | 810.5  | 801.8  | 810.5  | 799.7  | 814.9  | 799.7  | 819.2  | 801.8  | 827.9  |
| 25°    | 841.0  | 838.8  | 834.4  | 832.3  | 834.4  | 827.9  | 836.6  | 825.7  | 845.3  | 830.1  | 856.2  |
| 27.5°  | 897.5  | 888.8  | 884.4  | 884.4  | 882.2  | 884.4  | 884.4  | 880.1  | 888.8  | 884.4  | 901.8  |
| 30°    | 967.0  | 951.8  | 945.3  | 951.8  | 943.1  | 951.8  | 949.6  | 947.4  | 956.1  | 951.8  | 967.0  |
| 32.5°  | 1058.3 | 1032.2 | 1027.8 | 1040.9 | 1023.5 | 1038.7 | 1025.7 | 1032.2 | 1038.7 | 1043.0 | 1051.7 |
| 35°    | 1164.7 | 1134.3 | 1130.0 | 1143.0 | 1123.4 | 1145.2 | 1130.0 | 1138.7 | 1143.0 | 1153.9 | 1160.4 |
| 37.5°  | 1290.8 | 1253.8 | 1247.3 | 1264.7 | 1238.6 | 1262.5 | 1240.8 | 1266.9 | 1260.3 | 1275.6 | 1282.1 |
| 40°    | 1442.9 | 1399.4 | 1384.2 | 1408.1 | 1377.7 | 1397.2 | 1375.5 | 1403.8 | 1397.2 | 1427.7 | 1434.2 |
| 42.5°  | 1629.8 | 1566.7 | 1551.5 | 1575.4 | 1529.8 | 1536.3 | 1518.9 | 1551.5 | 1547.2 | 1588.5 | 1595.0 |
| 45°    | 1823.2 | 1747.1 | 1725.4 | 1749.3 | 1697.1 | 1710.2 | 1684.1 | 1718.9 | 1716.7 | 1749.3 | 1775.4 |
| 47.5°  | 2038.3 | 1944.8 | 1916.6 | 1942.7 | 1879.7 | 1894.9 | 1868.8 | 1905.7 | 1907.9 | 1944.8 | 1970.9 |
| 50°    | 2262.1 | 2164.3 | 2127.4 | 2151.3 | 2092.6 | 2103.5 | 2077.4 | 2123.0 | 2120.9 | 2170.8 | 2190.4 |
| 52.5°  | 2505.5 | 2405.5 | 2377.3 | 2388.1 | 2318.6 | 2331.6 | 2309.9 | 2366.4 | 2353.4 | 2383.8 | 2422.9 |
| 55°    | 2774.9 | 2659.8 | 2627.2 | 2659.8 | 2577.2 | 2594.6 | 2566.3 | 2618.5 | 2596.8 | 2635.9 | 2646.7 |
| 57.5°  | 3050.9 | 2937.9 | 2911.8 | 2935.7 | 2857.5 | 2870.6 | 2833.6 | 2877.1 | 2859.7 | 2885.8 | 2903.1 |
| 60°    | 3344.3 | 3242.1 | 3216.1 | 3242.1 | 3166.1 | 3168.3 | 3105.2 | 3150.9 | 3124.8 | 3157.4 | 3150.9 |
| 62.5°  | 3624.6 | 3537.7 | 3531.1 | 3568.1 | 3472.5 | 3461.6 | 3385.6 | 3418.2 | 3381.2 | 3402.9 | 3376.9 |
| 65°    | 3863.6 | 3813.6 | 3822.3 | 3852.8 | 3768.0 | 3741.9 | 3655.0 | 3672.4 | 3618.1 | 3618.1 | 3585.5 |
| 67.5°  | 4176.5 | 4122.2 | 4122.2 | 4148.3 | 4041.8 | 3974.4 | 3854.9 | 3839.7 | 3750.6 | 3733.2 | 3657.2 |
| 70°    | 4437.3 | 4452.5 | 4435.1 | 4456.9 | 4330.8 | 4193.9 | 4035.3 | 3959.2 | 3841.9 | 3785.4 | 3696.3 |
| 71°    | 4343.9 | 4430.8 | 4461.2 | 4478.6 | 4374.3 | 4237.4 | 4072.2 | 3974.4 | 3861.4 | 3785.4 | 3689.8 |
| 72.5°  | 3920.1 | 4130.9 | 4250.4 | 4250.4 | 4263.5 | 4176.5 | 4017.9 | 3911.4 | 3783.2 | 3683.3 | 3594.2 |
| 75°    | 2746.7 | 3090.0 | 3244.3 | 3226.9 | 3339.9 | 3379.0 | 3392.1 | 3346.4 | 3274.7 | 3131.3 | 3068.3 |
| 77.5°  | 1223.4 | 1612.4 | 1844.9 | 1847.1 | 1968.8 | 2075.2 | 2160.0 | 2249.1 | 2216.5 | 2146.9 | 2142.6 |
| 80°    | 278.1  | 504.1  | 645.4  | 651.9  | 762.7  | 860.5  | 919.2  | 1008.3 | 1019.1 | 919.2  | 862.7  |
| 82.5°  | 119.5  | 141.2  | 160.8  | 158.6  | 195.6  | 234.7  | 278.1  | 302.0  | 291.2  | 241.2  | 228.2  |
| 85°    | 50.0   | 65.2   | 69.5   | 65.2   | 80.4   | 89.1   | 104.3  | 106.5  | 123.9  | 110.8  | 117.3  |
| 87.5°  | 0.0    | 2.2    | 2.2    | 0.0    | 4.3    | 0.0    | 4.3    | 2.2    | 10.9   | 4.3    | 13.0   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 97.5°  | 12.0   | 13.0   | 11.8   | 11.5   | 10.0   | 8.5    | 7.0    | 6.5    | 6.0    | 5.5    | 5.0    |
| 100°   | 31.5   | 32.0   | 31.6   | 31.5   | 31.0   | 30.5   | 30.0   | 29.2   | 28.5   | 27.8   | 27.0   |
| 102.5° | 50.8   | 51.0   | 50.8   | 50.8   | 50.5   | 50.2   | 50.0   | 49.5   | 49.0   | 48.5   | 48.0   |
| 105°   | 70.8   | 71.0   | 71.0   | 71.0   | 71.0   | 71.0   | 71.0   | 70.5   | 70.0   | 69.5   | 69.0   |
| 107.5° | 92.5   | 93.0   | 92.8   | 92.8   | 92.5   | 92.2   | 92.0   | 91.8   | 91.5   | 91.2   | 91.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 52.5° | 55°   | 57°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 113.5 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 113.8 | 113.5 | 113.2 | 113.0 |
| 112.5° | 135.5 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 135.8 | 135.5 | 135.2 | 135.0 |
| 115°   | 157.5 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 |
| 117.5° | 179.8 | 180.0 | 180.2 | 180.2 | 180.5 | 180.8 | 181.0 | 180.8 | 180.5 | 180.2 | 180.0 |
| 120°   | 203.5 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 | 204.0 |
| 122.5° | 227.8 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.0 | 228.2 | 228.5 | 228.8 | 229.0 |
| 125°   | 252.8 | 253.0 | 253.2 | 253.2 | 253.5 | 253.8 | 254.0 | 254.0 | 254.0 | 254.0 | 254.0 |
| 127.5° | 277.5 | 278.0 | 277.8 | 277.8 | 277.5 | 277.2 | 277.0 | 277.2 | 277.5 | 277.8 | 278.0 |
| 130°   | 300.5 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.2 | 301.5 | 301.8 | 302.0 |
| 132.5° | 324.2 | 325.0 | 325.0 | 325.0 | 325.0 | 325.0 | 325.0 | 325.2 | 325.5 | 325.8 | 326.0 |
| 135°   | 347.2 | 348.0 | 348.0 | 348.0 | 348.0 | 348.0 | 348.0 | 348.2 | 348.5 | 348.8 | 349.0 |
| 137.5° | 368.5 | 369.0 | 369.0 | 369.0 | 369.0 | 369.0 | 369.0 | 369.2 | 369.5 | 369.8 | 370.0 |
| 140°   | 389.8 | 390.0 | 390.0 | 390.0 | 390.0 | 390.0 | 390.0 | 390.5 | 391.0 | 391.5 | 392.0 |
| 142.5° | 411.5 | 412.0 | 412.0 | 412.0 | 412.0 | 412.0 | 412.0 | 412.2 | 412.5 | 412.8 | 413.0 |
| 145°   | 433.5 | 434.0 | 433.8 | 433.8 | 433.5 | 433.2 | 433.0 | 433.2 | 433.5 | 433.8 | 434.0 |
| 147.5° | 453.8 | 454.0 | 453.6 | 453.5 | 453.0 | 452.5 | 452.0 | 452.2 | 452.5 | 452.8 | 453.0 |
| 150°   | 470.8 | 471.0 | 470.6 | 470.5 | 470.0 | 469.5 | 469.0 | 469.0 | 469.0 | 469.0 | 469.0 |
| 152.5° | 486.8 | 487.0 | 486.8 | 486.8 | 486.5 | 486.2 | 486.0 | 486.0 | 486.0 | 486.0 | 486.0 |
| 155°   | 503.8 | 504.0 | 503.8 | 503.8 | 503.5 | 503.2 | 503.0 | 503.2 | 503.5 | 503.8 | 504.0 |
| 157.5° | 519.0 | 519.0 | 518.6 | 518.5 | 518.0 | 517.5 | 517.0 | 517.2 | 517.5 | 517.8 | 518.0 |
| 160°   | 532.0 | 532.0 | 531.6 | 531.5 | 531.0 | 530.5 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 |
| 162.5° | 541.8 | 542.0 | 541.6 | 541.5 | 541.0 | 540.5 | 540.0 | 539.5 | 539.0 | 538.5 | 538.0 |
| 165°   | 552.8 | 553.0 | 552.4 | 552.2 | 551.5 | 550.8 | 550.0 | 549.5 | 549.0 | 548.5 | 548.0 |
| 167.5° | 560.0 | 560.0 | 559.6 | 559.5 | 559.0 | 558.5 | 558.0 | 558.2 | 558.5 | 558.8 | 559.0 |
| 170°   | 565.2 | 565.0 | 564.8 | 564.8 | 564.5 | 564.2 | 564.0 | 564.5 | 565.0 | 565.5 | 566.0 |
| 172.5° | 568.8 | 569.0 | 568.6 | 568.5 | 568.0 | 567.5 | 567.0 | 567.2 | 567.5 | 567.8 | 568.0 |
| 175°   | 572.8 | 573.0 | 572.4 | 572.2 | 571.5 | 570.8 | 570.0 | 569.5 | 569.0 | 568.5 | 568.0 |
| 177.5° | 577.0 | 577.0 | 576.4 | 576.2 | 575.5 | 574.8 | 574.0 | 574.0 | 574.0 | 574.0 | 574.0 |
| 180°   | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 77.5°  | 80°    | 82.5°  | 85°    | 87.5°  | 90°    | 95°    | 100°   | 102.5° | 105°   | 107.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  | 849.6  |
| 2.5°   | 834.4  | 845.3  | 834.4  | 845.3  | 838.8  | 845.3  | 843.1  | 845.3  | 834.4  | 845.3  | 832.3  |
| 5°     | 819.2  | 836.6  | 821.4  | 834.4  | 821.4  | 836.6  | 836.6  | 836.6  | 821.4  | 838.8  | 823.6  |
| 7.5°   | 806.2  | 825.7  | 806.2  | 825.7  | 812.7  | 827.9  | 827.9  | 834.4  | 817.1  | 836.6  | 814.9  |
| 10°    | 793.2  | 817.1  | 793.2  | 821.4  | 799.7  | 823.6  | 825.7  | 830.1  | 806.2  | 832.3  | 810.5  |
| 12.5°  | 786.6  | 817.1  | 788.8  | 817.1  | 791.0  | 823.6  | 825.7  | 830.1  | 804.0  | 836.6  | 808.4  |
| 15°    | 786.6  | 819.2  | 788.8  | 819.2  | 791.0  | 823.6  | 827.9  | 832.3  | 804.0  | 838.8  | 808.4  |
| 17.5°  | 786.6  | 819.2  | 793.2  | 821.4  | 795.3  | 825.7  | 830.1  | 834.4  | 808.4  | 838.8  | 812.7  |
| 20°    | 793.2  | 823.6  | 797.5  | 827.9  | 801.8  | 832.3  | 834.4  | 841.0  | 812.7  | 841.0  | 817.1  |
| 22.5°  | 808.4  | 834.4  | 812.7  | 841.0  | 821.4  | 845.3  | 847.5  | 854.0  | 832.3  | 856.2  | 836.6  |
| 25°    | 834.4  | 862.7  | 845.3  | 867.0  | 856.2  | 875.7  | 880.1  | 880.1  | 871.4  | 886.6  | 880.1  |
| 27.5°  | 888.8  | 910.5  | 897.5  | 917.0  | 910.5  | 925.7  | 925.7  | 927.9  | 934.4  | 938.7  | 945.3  |
| 30°    | 958.3  | 973.5  | 969.2  | 980.0  | 982.2  | 990.9  | 990.9  | 1003.9 | 1030.0 | 1003.9 | 1001.8 |
| 32.5°  | 1051.7 | 1060.4 | 1062.6 | 1067.0 | 1075.6 | 1082.2 | 1090.9 | 1106.1 | 1127.8 | 1067.0 | 1047.4 |
| 35°    | 1166.9 | 1169.1 | 1175.6 | 1182.1 | 1197.3 | 1201.7 | 1229.9 | 1219.1 | 1219.1 | 1123.4 | 1082.2 |
| 37.5°  | 1292.9 | 1292.9 | 1310.3 | 1310.3 | 1347.3 | 1349.4 | 1377.7 | 1321.2 | 1288.6 | 1164.7 | 1103.9 |
| 40°    | 1451.6 | 1449.4 | 1469.0 | 1473.3 | 1523.3 | 1525.5 | 1521.1 | 1397.2 | 1327.7 | 1175.6 | 1093.0 |
| 42.5°  | 1618.9 | 1625.4 | 1651.5 | 1660.2 | 1697.1 | 1710.2 | 1655.8 | 1449.4 | 1345.1 | 1169.1 | 1056.1 |
| 45°    | 1801.4 | 1814.5 | 1847.1 | 1871.0 | 1910.1 | 1894.9 | 1764.5 | 1473.3 | 1325.5 | 1130.0 | 984.4  |
| 47.5°  | 2001.3 | 2014.4 | 2040.5 | 2086.1 | 2103.5 | 2086.1 | 1853.6 | 1482.0 | 1295.1 | 1069.1 | 880.1  |
| 50°    | 2203.4 | 2225.2 | 2262.1 | 2327.3 | 2336.0 | 2292.5 | 1962.2 | 1514.6 | 1271.2 | 1006.1 | 760.6  |
| 52.5°  | 2431.6 | 2453.3 | 2496.8 | 2605.4 | 2583.7 | 2494.6 | 2090.4 | 1575.4 | 1277.7 | 967.0  | 658.4  |
| 55°    | 2672.8 | 2703.2 | 2788.0 | 2894.5 | 2846.6 | 2707.6 | 2231.7 | 1664.5 | 1303.8 | 925.7  | 545.4  |
| 57.5°  | 2927.1 | 2959.6 | 3070.5 | 3196.5 | 3103.1 | 2916.2 | 2375.1 | 1734.1 | 1316.8 | 841.0  | 421.6  |
| 60°    | 3179.1 | 3224.8 | 3368.2 | 3472.5 | 3326.9 | 3094.4 | 2503.3 | 1779.7 | 1282.1 | 680.2  | 326.0  |
| 62.5°  | 3409.5 | 3483.3 | 3644.1 | 3700.6 | 3468.1 | 3207.4 | 2572.8 | 1747.1 | 1140.8 | 469.4  | 262.9  |
| 65°    | 3572.4 | 3668.0 | 3772.4 | 3765.8 | 3442.1 | 3170.4 | 2520.7 | 1597.2 | 849.6  | 310.7  | 223.8  |
| 67.5°  | 3642.0 | 3731.1 | 3755.0 | 3644.1 | 3255.2 | 3007.5 | 2333.8 | 1286.4 | 488.9  | 232.5  | 195.6  |
| 70°    | 3668.0 | 3744.1 | 3609.4 | 3342.1 | 2890.1 | 2607.6 | 1907.9 | 819.2  | 267.3  | 189.1  | 169.5  |
| 71°    | 3657.2 | 3694.1 | 3437.7 | 3124.8 | 2657.6 | 2362.1 | 1673.2 | 623.7  | 228.2  | 176.0  | 160.8  |
| 72.5°  | 3509.4 | 3457.3 | 3061.8 | 2714.1 | 2253.4 | 1953.5 | 1301.6 | 393.3  | 186.9  | 158.6  | 149.9  |
| 75°    | 2868.4 | 2633.7 | 2253.4 | 1925.3 | 1534.1 | 1227.8 | 706.2  | 202.1  | 149.9  | 136.9  | 130.4  |
| 77.5°  | 1875.3 | 1671.0 | 1358.1 | 1103.9 | 838.8  | 636.7  | 289.0  | 139.1  | 119.5  | 115.2  | 113.0  |
| 80°    | 669.3  | 536.7  | 406.4  | 356.4  | 269.5  | 221.6  | 141.2  | 106.5  | 93.4   | 95.6   | 93.4   |
| 82.5°  | 189.1  | 173.8  | 149.9  | 139.1  | 121.7  | 119.5  | 91.3   | 80.4   | 73.9   | 78.2   | 76.1   |
| 85°    | 93.4   | 80.4   | 58.7   | 56.5   | 43.5   | 50.0   | 45.6   | 54.3   | 47.8   | 50.0   | 45.6   |
| 87.5°  | 6.5    | 8.7    | 2.2    | 6.5    | 0.0    | 6.5    | 8.7    | 10.9   | 2.2    | 8.7    | 6.5    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 97.5°  | 4.8    | 4.5    | 4.2    | 4.0    | 4.0    | 4.0    | 4.0    | 4.5    | 4.8    | 5.0    | 5.5    |
| 100°   | 26.8   | 26.5   | 26.2   | 26.0   | 25.5   | 25.0   | 26.0   | 26.5   | 26.8   | 27.0   | 27.8   |
| 102.5° | 48.2   | 48.5   | 48.8   | 49.0   | 48.5   | 48.0   | 49.0   | 48.5   | 48.2   | 48.0   | 48.5   |
| 105°   | 69.5   | 70.0   | 70.5   | 71.0   | 70.0   | 69.0   | 71.0   | 70.0   | 69.5   | 69.0   | 69.5   |
| 107.5° | 91.2   | 91.5   | 91.8   | 92.0   | 91.5   | 91.0   | 92.0   | 91.5   | 91.2   | 91.0   | 91.2   |



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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 77.5° | 80°   | 82.5° | 85°   | 87.5° | 90°   | 95°   | 100°  | 102.5° | 105°  | 107.5° |        |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|--------|
| 110°   | 113.2 | 113.5 | 113.8 | 114.0 | 113.5 | 113.0 | 114.0 | 113.5 | 113.2  | 113.0 | 113.2  | 0°     |
| 112.5° | 135.5 | 136.0 | 136.5 | 137.0 | 136.0 | 135.0 | 137.0 | 136.0 | 135.5  | 135.0 | 135.2  | 2.5°   |
| 115°   | 158.5 | 159.0 | 159.5 | 160.0 | 159.5 | 159.0 | 160.0 | 159.0 | 158.5  | 158.0 | 158.0  | 5°     |
| 117.5° | 180.5 | 181.0 | 181.5 | 182.0 | 181.0 | 180.0 | 182.0 | 181.0 | 180.5  | 180.0 | 180.2  | 7.5°   |
| 120°   | 204.5 | 205.0 | 205.5 | 206.0 | 205.0 | 204.0 | 206.0 | 205.0 | 204.5  | 204.0 | 204.0  | 10°    |
| 122.5° | 230.0 | 231.0 | 232.0 | 233.0 | 232.5 | 232.0 | 233.0 | 231.0 | 230.0  | 229.0 | 228.8  | 12.5°  |
| 125°   | 254.8 | 255.5 | 256.2 | 257.0 | 256.5 | 256.0 | 257.0 | 255.5 | 254.8  | 254.0 | 254.0  | 15°    |
| 127.5° | 278.8 | 279.5 | 280.2 | 281.0 | 279.5 | 278.0 | 281.0 | 279.5 | 278.8  | 278.0 | 277.8  | 17.5°  |
| 130°   | 302.8 | 303.5 | 304.2 | 305.0 | 304.0 | 303.0 | 305.0 | 303.5 | 302.8  | 302.0 | 301.8  | 20°    |
| 132.5° | 326.8 | 327.5 | 328.2 | 329.0 | 328.0 | 327.0 | 329.0 | 327.5 | 326.8  | 326.0 | 325.8  | 22.5°  |
| 135°   | 349.5 | 350.0 | 350.5 | 351.0 | 350.5 | 350.0 | 351.0 | 350.0 | 349.5  | 349.0 | 348.8  | 25°    |
| 137.5° | 371.0 | 372.0 | 373.0 | 374.0 | 373.0 | 372.0 | 374.0 | 372.0 | 371.0  | 370.0 | 369.8  | 27.5°  |
| 140°   | 393.0 | 394.0 | 395.0 | 396.0 | 395.0 | 394.0 | 396.0 | 394.0 | 393.0  | 392.0 | 391.5  | 30°    |
| 142.5° | 413.8 | 414.5 | 415.2 | 416.0 | 415.5 | 415.0 | 416.0 | 414.5 | 413.8  | 413.0 | 412.8  | 32.5°  |
| 145°   | 434.8 | 435.5 | 436.2 | 437.0 | 436.0 | 435.0 | 437.0 | 435.5 | 434.8  | 434.0 | 433.8  | 35°    |
| 147.5° | 453.8 | 454.5 | 455.2 | 456.0 | 454.5 | 453.0 | 456.0 | 454.5 | 453.8  | 453.0 | 452.8  | 37.5°  |
| 150°   | 470.0 | 471.0 | 472.0 | 473.0 | 471.5 | 470.0 | 473.0 | 471.0 | 470.0  | 469.0 | 469.0  | 40°    |
| 152.5° | 486.8 | 487.5 | 488.2 | 489.0 | 487.5 | 486.0 | 489.0 | 487.5 | 486.8  | 486.0 | 486.0  | 42.5°  |
| 155°   | 504.8 | 505.5 | 506.2 | 507.0 | 506.0 | 505.0 | 507.0 | 505.5 | 504.8  | 504.0 | 503.8  | 45°    |
| 157.5° | 519.2 | 520.5 | 521.8 | 523.0 | 521.5 | 520.0 | 523.0 | 520.5 | 519.2  | 518.0 | 517.8  | 47.5°  |
| 160°   | 530.8 | 531.5 | 532.2 | 533.0 | 532.0 | 531.0 | 533.0 | 531.5 | 530.8  | 530.0 | 530.0  | 50°    |
| 162.5° | 538.5 | 539.0 | 539.5 | 540.0 | 538.5 | 537.0 | 540.0 | 539.0 | 538.5  | 538.0 | 538.5  | 52.5°  |
| 165°   | 548.5 | 549.0 | 549.5 | 550.0 | 549.0 | 548.0 | 550.0 | 549.0 | 548.5  | 548.0 | 548.5  | 55°    |
| 167.5° | 560.0 | 561.0 | 562.0 | 563.0 | 562.0 | 561.0 | 563.0 | 561.0 | 560.0  | 559.0 | 558.8  | 57.5°  |
| 170°   | 567.2 | 568.5 | 569.8 | 571.0 | 570.0 | 569.0 | 571.0 | 568.5 | 567.2  | 566.0 | 565.5  | 60°    |
| 172.5° | 568.8 | 569.5 | 570.2 | 571.0 | 569.5 | 568.0 | 571.0 | 569.5 | 568.8  | 568.0 | 567.8  | 62.5°  |
| 175°   | 568.8 | 569.5 | 570.2 | 571.0 | 569.5 | 568.0 | 571.0 | 569.5 | 568.8  | 568.0 | 568.5  | 65°    |
| 177.5° | 574.8 | 575.5 | 576.2 | 577.0 | 575.5 | 574.0 | 577.0 | 575.5 | 574.8  | 574.0 | 574.0  | 67.5°  |
| 180°   | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 576.0  | 576.0 | 576.0  | 70°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 71°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 72.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 75°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 77.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 80°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 82.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 85°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 87.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 90°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 92.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 95°    |
|        |       |       |       |       |       |       |       |       |        |       |        | 97.5°  |
|        |       |       |       |       |       |       |       |       |        |       |        | 100°   |
|        |       |       |       |       |       |       |       |       |        |       |        | 102.5° |
|        |       |       |       |       |       |       |       |       |        |       |        | 105°   |
|        |       |       |       |       |       |       |       |       |        |       |        | 107.5° |

NUMBER: P227682  
 NUMBER: ISS-AF-1200-LED-E1-T3-7060-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 110°  | 112.5° | 115°  | 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 135°  | 145°  | 110°   | 110°  |
|-------|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|
| 849.6 | 849.6  | 849.6 | 849.6  | 849.6 | 849.6  | 849.6 | 849.6  | 849.6 | 849.6 | 849.6 | 110°   | 113.5 |
| 847.5 | 838.8  | 849.6 | 838.8  | 849.6 | 843.1  | 849.6 | 843.1  | 849.6 | 854.0 | 854.0 | 112.5° | 135.5 |
| 843.1 | 827.9  | 847.5 | 836.6  | 849.6 | 838.8  | 847.5 | 841.0  | 851.8 | 856.2 | 860.5 | 115°   | 158.0 |
| 841.0 | 825.7  | 845.3 | 830.1  | 849.6 | 834.4  | 847.5 | 838.8  | 851.8 | 856.2 | 864.9 | 117.5° | 180.5 |
| 838.8 | 819.2  | 845.3 | 823.6  | 847.5 | 832.3  | 847.5 | 834.4  | 849.6 | 854.0 | 856.2 | 120°   | 204.0 |
| 838.8 | 817.1  | 845.3 | 821.4  | 847.5 | 825.7  | 845.3 | 825.7  | 847.5 | 845.3 | 838.8 | 122.5° | 228.5 |
| 841.0 | 812.7  | 845.3 | 817.1  | 845.3 | 819.2  | 843.1 | 817.1  | 838.8 | 832.3 | 827.9 | 125°   | 254.0 |
| 841.0 | 812.7  | 843.1 | 814.9  | 841.0 | 817.1  | 836.6 | 812.7  | 832.3 | 830.1 | 823.6 | 127.5° | 277.5 |
| 845.3 | 817.1  | 843.1 | 823.6  | 843.1 | 819.2  | 834.4 | 812.7  | 827.9 | 814.9 | 788.8 | 130°   | 301.5 |
| 858.3 | 838.8  | 858.3 | 838.8  | 847.5 | 825.7  | 832.3 | 806.2  | 804.0 | 782.3 | 741.0 | 132.5° | 325.5 |
| 888.8 | 880.1  | 875.7 | 851.8  | 845.3 | 817.1  | 808.4 | 777.9  | 767.1 | 734.5 | 678.0 | 135°   | 348.5 |
| 927.9 | 908.3  | 882.2 | 854.0  | 825.7 | 791.0  | 767.1 | 743.2  | 719.3 | 678.0 | 606.3 | 137.5° | 369.5 |
| 954.0 | 925.7  | 871.4 | 832.3  | 780.1 | 751.9  | 710.6 | 684.5  | 649.7 | 597.6 | 528.0 | 140°   | 391.0 |
| 971.3 | 927.9  | 845.3 | 799.7  | 730.1 | 693.2  | 638.9 | 610.6  | 560.6 | 510.7 | 460.7 | 142.5° | 412.5 |
| 975.7 | 919.2  | 810.5 | 760.6  | 669.3 | 628.0  | 556.3 | 525.9  | 478.1 | 443.3 | 423.7 | 145°   | 433.5 |
| 958.3 | 888.8  | 756.2 | 691.0  | 591.1 | 543.3  | 475.9 | 454.2  | 425.9 | 412.9 | 404.2 | 147.5° | 452.5 |
| 923.5 | 830.1  | 671.5 | 595.4  | 493.3 | 456.3  | 421.6 | 421.6  | 406.4 | 399.8 | 384.6 | 150°   | 469.0 |
| 860.5 | 743.2  | 562.8 | 488.9  | 419.4 | 412.9  | 393.3 | 402.0  | 391.1 | 386.8 | 365.1 | 152.5° | 486.0 |
| 762.7 | 619.3  | 454.2 | 410.7  | 378.1 | 382.5  | 369.4 | 378.1  | 371.6 | 369.4 | 343.3 | 155°   | 503.5 |
| 636.7 | 493.3  | 382.5 | 367.2  | 345.5 | 352.0  | 341.2 | 352.0  | 345.5 | 347.7 | 328.1 | 157.5° | 517.5 |
| 508.5 | 399.8  | 339.0 | 330.3  | 315.1 | 319.4  | 312.9 | 323.8  | 321.6 | 330.3 | 319.4 | 160°   | 530.0 |
| 406.4 | 341.2  | 302.0 | 295.5  | 286.8 | 289.0  | 286.8 | 297.7  | 299.9 | 317.3 | 317.3 | 162.5° | 539.0 |
| 336.8 | 293.4  | 271.6 | 269.5  | 260.8 | 262.9  | 265.1 | 276.0  | 284.7 | 306.4 | 317.3 | 165°   | 549.0 |
| 289.0 | 262.9  | 247.7 | 245.6  | 241.2 | 243.4  | 247.7 | 260.8  | 269.5 | 297.7 | 321.6 | 167.5° | 558.5 |
| 254.2 | 239.0  | 228.2 | 228.2  | 223.8 | 228.2  | 232.5 | 245.6  | 256.4 | 289.0 | 312.9 | 170°   | 565.0 |
| 228.2 | 217.3  | 210.8 | 213.0  | 210.8 | 215.1  | 219.5 | 232.5  | 245.6 | 276.0 | 299.9 | 172.5° | 567.5 |
| 204.3 | 197.7  | 193.4 | 195.6  | 195.6 | 202.1  | 206.4 | 219.5  | 230.3 | 258.6 | 289.0 | 175°   | 569.0 |
| 184.7 | 180.4  | 178.2 | 180.4  | 182.5 | 189.1  | 195.6 | 204.3  | 213.0 | 239.0 | 273.8 | 177.5° | 574.0 |
| 169.5 | 165.1  | 165.1 | 165.1  | 167.3 | 173.8  | 182.5 | 186.9  | 195.6 | 223.8 | 256.4 | 180°   | 576.0 |
| 160.8 | 158.6  | 158.6 | 158.6  | 160.8 | 167.3  | 176.0 | 180.4  | 189.1 | 217.3 | 247.7 |        |       |
| 149.9 | 149.9  | 152.1 | 149.9  | 154.3 | 156.5  | 165.1 | 169.5  | 180.4 | 208.6 | 236.9 |        |       |
| 132.6 | 132.6  | 134.7 | 134.7  | 139.1 | 139.1  | 145.6 | 149.9  | 163.0 | 186.9 | 213.0 |        |       |
| 117.3 | 117.3  | 121.7 | 119.5  | 119.5 | 115.2  | 123.9 | 128.2  | 139.1 | 163.0 | 189.1 |        |       |
| 100.0 | 97.8   | 102.1 | 95.6   | 93.4  | 89.1   | 95.6  | 102.1  | 119.5 | 134.7 | 139.1 |        |       |
| 78.2  | 71.7   | 73.9  | 67.4   | 67.4  | 63.0   | 69.5  | 71.7   | 82.6  | 97.8  | 106.5 |        |       |
| 47.8  | 39.1   | 43.5  | 36.9   | 41.3  | 36.9   | 39.1  | 41.3   | 50.0  | 60.8  | 58.7  |        |       |
| 10.9  | 6.5    | 8.7   | 2.2    | 6.5   | 0.0    | 6.5   | 2.2    | 6.5   | 2.2   | 0.0   |        |       |
| 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |        |       |
| 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |        |       |
| 1.0   | 1.0    | 1.0   | 1.0    | 1.0   | 1.0    | 1.0   | 1.0    | 1.0   | 1.0   | 1.0   |        |       |
| 6.0   | 6.5    | 7.0   | 8.5    | 10.0  | 11.5   | 13.0  | 12.0   | 11.0  | 9.0   | 4.0   |        |       |
| 28.5  | 29.2   | 30.0  | 30.5   | 31.0  | 31.5   | 32.0  | 31.5   | 31.0  | 30.0  | 22.0  |        |       |
| 49.0  | 49.5   | 50.0  | 50.2   | 50.5  | 50.8   | 51.0  | 50.8   | 50.5  | 50.0  | 45.0  |        |       |
| 70.0  | 70.5   | 71.0  | 71.0   | 71.0  | 71.0   | 71.0  | 70.8   | 70.5  | 70.0  | 66.0  |        |       |
| 91.5  | 91.8   | 92.0  | 92.2   | 92.5  | 92.8   | 93.0  | 92.5   | 92.0  | 91.0  | 88.0  |        |       |

'227682  
 ISS-AF-1200-LED-E1-T3-7060-ULG

REPORT NUMBER: P227682  
 CATALOG NUMBER: ISS-AF-12

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 112.5° | 115°  | 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 135°  | 145°  |        | 155°  | 165°  |
|--------|-------|--------|-------|--------|-------|--------|-------|-------|-------|--------|-------|-------|
| 113.8  | 114.0 | 114.0  | 114.0 | 114.0  | 114.0 | 113.5  | 113.0 | 112.0 | 110.0 | 0°     | 849.6 | 849.6 |
| 135.8  | 136.0 | 136.0  | 136.0 | 136.0  | 136.0 | 135.5  | 135.0 | 134.0 | 132.0 | 2.5°   | 858.3 | 856.2 |
| 158.0  | 158.0 | 158.0  | 158.0 | 158.0  | 158.0 | 157.5  | 157.0 | 156.0 | 154.0 | 5°     | 869.2 | 869.2 |
| 180.8  | 181.0 | 180.8  | 180.5 | 180.2  | 180.0 | 179.8  | 179.5 | 179.0 | 177.0 | 7.5°   | 871.4 | 875.7 |
| 204.0  | 204.0 | 204.0  | 204.0 | 204.0  | 204.0 | 203.5  | 203.0 | 202.0 | 201.0 | 10°    | 856.2 | 851.8 |
| 228.2  | 228.0 | 228.0  | 228.0 | 228.0  | 228.0 | 227.8  | 227.5 | 227.0 | 226.0 | 12.5°  | 832.3 | 827.9 |
| 254.0  | 254.0 | 253.8  | 253.5 | 253.2  | 253.0 | 252.8  | 252.5 | 252.0 | 251.0 | 15°    | 830.1 | 827.9 |
| 277.2  | 277.0 | 277.2  | 277.5 | 277.8  | 278.0 | 277.5  | 277.0 | 276.0 | 274.0 | 17.5°  | 814.9 | 804.0 |
| 301.2  | 301.0 | 301.0  | 301.0 | 301.0  | 301.0 | 300.5  | 300.0 | 299.0 | 298.0 | 20°    | 771.4 | 751.9 |
| 325.2  | 325.0 | 325.0  | 325.0 | 325.0  | 325.0 | 324.2  | 323.5 | 322.0 | 321.0 | 22.5°  | 710.6 | 682.3 |
| 348.2  | 348.0 | 348.0  | 348.0 | 348.0  | 348.0 | 347.2  | 346.5 | 345.0 | 345.0 | 25°    | 636.7 | 597.6 |
| 369.2  | 369.0 | 369.0  | 369.0 | 369.0  | 369.0 | 368.5  | 368.0 | 367.0 | 367.0 | 27.5°  | 556.3 | 517.2 |
| 390.5  | 390.0 | 390.0  | 390.0 | 390.0  | 390.0 | 389.8  | 389.5 | 389.0 | 388.0 | 30°    | 493.3 | 462.9 |
| 412.2  | 412.0 | 412.0  | 412.0 | 412.0  | 412.0 | 411.5  | 411.0 | 410.0 | 410.0 | 32.5°  | 447.6 | 430.3 |
| 433.2  | 433.0 | 433.2  | 433.5 | 433.8  | 434.0 | 433.5  | 433.0 | 432.0 | 431.0 | 35°    | 410.7 | 399.8 |
| 452.2  | 452.0 | 452.5  | 453.0 | 453.5  | 454.0 | 453.8  | 453.5 | 453.0 | 452.0 | 37.5°  | 386.8 | 369.4 |
| 469.0  | 469.0 | 469.5  | 470.0 | 470.5  | 471.0 | 470.8  | 470.5 | 470.0 | 469.0 | 40°    | 362.9 | 341.2 |
| 486.0  | 486.0 | 486.2  | 486.5 | 486.8  | 487.0 | 486.8  | 486.5 | 486.0 | 485.0 | 42.5°  | 341.2 | 319.4 |
| 503.2  | 503.0 | 503.2  | 503.5 | 503.8  | 504.0 | 503.8  | 503.5 | 503.0 | 503.0 | 45°    | 319.4 | 304.2 |
| 517.2  | 517.0 | 517.5  | 518.0 | 518.5  | 519.0 | 519.0  | 519.0 | 519.0 | 519.0 | 47.5°  | 308.6 | 295.5 |
| 530.0  | 530.0 | 530.5  | 531.0 | 531.5  | 532.0 | 532.0  | 532.0 | 532.0 | 532.0 | 50°    | 304.2 | 291.2 |
| 539.5  | 540.0 | 540.5  | 541.0 | 541.5  | 542.0 | 541.8  | 541.5 | 541.0 | 541.0 | 52.5°  | 308.6 | 297.7 |
| 549.5  | 550.0 | 550.8  | 551.5 | 552.2  | 553.0 | 552.8  | 552.5 | 552.0 | 552.0 | 55°    | 317.3 | 310.7 |
| 558.2  | 558.0 | 558.5  | 559.0 | 559.5  | 560.0 | 560.0  | 560.0 | 560.0 | 561.0 | 57.5°  | 308.6 | 297.7 |
| 564.5  | 564.0 | 564.2  | 564.5 | 564.8  | 565.0 | 565.2  | 565.5 | 566.0 | 567.0 | 60°    | 289.0 | 271.6 |
| 567.2  | 567.0 | 567.5  | 568.0 | 568.5  | 569.0 | 568.8  | 568.5 | 568.0 | 569.0 | 62.5°  | 276.0 | 258.6 |
| 569.5  | 570.0 | 570.8  | 571.5 | 572.2  | 573.0 | 572.8  | 572.5 | 572.0 | 572.0 | 65°    | 265.1 | 252.1 |
| 574.0  | 574.0 | 574.8  | 575.5 | 576.2  | 577.0 | 577.0  | 577.0 | 577.0 | 578.0 | 67.5°  | 254.2 | 241.2 |
| 576.0  | 576.0 | 576.0  | 576.0 | 576.0  | 576.0 | 576.0  | 576.0 | 576.0 | 576.0 | 70°    | 241.2 | 228.2 |
|        |       |        |       |        |       |        |       |       |       | 71°    | 234.7 | 219.5 |
|        |       |        |       |        |       |        |       |       |       | 72.5°  | 223.8 | 206.4 |
|        |       |        |       |        |       |        |       |       |       | 75°    | 202.1 | 184.7 |
|        |       |        |       |        |       |        |       |       |       | 77.5°  | 167.3 | 147.8 |
|        |       |        |       |        |       |        |       |       |       | 80°    | 128.2 | 115.2 |
|        |       |        |       |        |       |        |       |       |       | 82.5°  | 95.6  | 84.7  |
|        |       |        |       |        |       |        |       |       |       | 85°    | 50.0  | 39.1  |
|        |       |        |       |        |       |        |       |       |       | 87.5°  | 0.0   | 0.0   |
|        |       |        |       |        |       |        |       |       |       | 90°    | 0.0   | 0.0   |
|        |       |        |       |        |       |        |       |       |       | 92.5°  | 0.0   | 0.0   |
|        |       |        |       |        |       |        |       |       |       | 95°    | 1.0   | 1.0   |
|        |       |        |       |        |       |        |       |       |       | 97.5°  | 3.0   | 2.0   |
|        |       |        |       |        |       |        |       |       |       | 100°   | 14.0  | 10.0  |
|        |       |        |       |        |       |        |       |       |       | 102.5° | 38.0  | 32.0  |
|        |       |        |       |        |       |        |       |       |       | 105°   | 61.0  | 56.0  |
|        |       |        |       |        |       |        |       |       |       | 107.5° | 84.0  | 80.0  |



REPORT NUMBER: P227682

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

00-LED-E1-T3-7060-ULG

**tinued):**

| 175°  | 180°  |
|-------|-------|
| 849.6 | 849.6 |
| 858.3 | 856.2 |
| 871.4 | 873.6 |
| 880.1 | 877.9 |
| 856.2 | 851.8 |
| 832.3 | 832.3 |
| 830.1 | 830.1 |
| 799.7 | 797.5 |
| 747.5 | 741.0 |
| 673.6 | 667.1 |
| 582.4 | 573.7 |
| 502.0 | 502.0 |
| 447.6 | 447.6 |
| 419.4 | 421.6 |
| 393.3 | 395.5 |
| 354.2 | 354.2 |
| 321.6 | 321.6 |
| 306.4 | 304.2 |
| 293.4 | 291.2 |
| 284.7 | 282.5 |
| 276.0 | 276.0 |
| 269.5 | 269.5 |
| 269.5 | 265.1 |
| 271.6 | 265.1 |
| 267.3 | 262.9 |
| 267.3 | 265.1 |
| 271.6 | 267.3 |
| 271.6 | 262.9 |
| 247.7 | 232.5 |
| 234.7 | 221.6 |
| 210.8 | 202.1 |
| 180.4 | 178.2 |
| 141.2 | 139.1 |
| 115.2 | 108.7 |
| 82.6  | 71.7  |
| 32.6  | 32.6  |
| 0.0   | 0.0   |
| 0.0   | 0.0   |
| 0.0   | 0.0   |
| 1.0   | 1.0   |
| 2.0   | 2.0   |
| 8.0   | 8.0   |
| 28.0  | 28.0  |
| 54.0  | 54.0  |
| 77.0  | 78.0  |

**CANDELA DISTRIBUTION (continued):**

|        | 155°  | 165°  | 175°  |
|--------|-------|-------|-------|
| 110°   | 106.0 | 103.0 | 102.0 |
| 112.5° | 129.0 | 126.0 | 124.0 |
| 115°   | 151.0 | 149.0 | 147.0 |
| 117.5° | 174.0 | 172.0 | 170.0 |
| 120°   | 198.0 | 196.0 | 195.0 |
| 122.5° | 223.0 | 221.0 | 220.0 |
| 125°   | 248.0 | 247.0 | 246.0 |
| 127.5° | 272.0 | 270.0 | 269.0 |
| 130°   | 294.0 | 293.0 | 292.0 |
| 132.5° | 318.0 | 317.0 | 314.0 |
| 135°   | 341.0 | 339.0 | 337.0 |
| 137.5° | 364.0 | 363.0 | 360.0 |
| 140°   | 386.0 | 385.0 | 383.0 |
| 142.5° | 407.0 | 408.0 | 406.0 |
| 145°   | 428.0 | 428.0 | 426.0 |
| 147.5° | 448.0 | 447.0 | 444.0 |
| 150°   | 465.0 | 464.0 | 462.0 |
| 152.5° | 482.0 | 483.0 | 480.0 |
| 155°   | 501.0 | 502.0 | 500.0 |
| 157.5° | 516.0 | 517.0 | 515.0 |
| 160°   | 529.0 | 529.0 | 527.0 |
| 162.5° | 538.0 | 539.0 | 536.0 |
| 165°   | 548.0 | 549.0 | 547.0 |
| 167.5° | 558.0 | 559.0 | 556.0 |
| 170°   | 565.0 | 566.0 | 563.0 |
| 172.5° | 567.0 | 569.0 | 566.0 |
| 175°   | 569.0 | 570.0 | 569.0 |
| 177.5° | 574.0 | 575.0 | 573.0 |
| 180°   | 576.0 | 576.0 | 576.0 |



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| <u>180°</u> |
|-------------|
| 101.0       |
| 124.0       |
| 146.0       |
| 169.0       |
| 193.0       |
| 219.0       |
| 244.0       |
| 267.0       |
| 290.0       |
| 313.0       |
| 336.0       |
| 359.0       |
| 382.0       |
| 404.0       |
| 425.0       |
| 444.0       |
| 461.0       |
| 479.0       |
| 499.0       |
| 513.0       |
| 525.0       |
| 535.0       |
| 546.0       |
| 555.0       |
| 562.0       |
| 565.0       |
| 567.0       |
| 572.0       |
| 576.0       |

(END OF REPORT)