

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: P228071

Luminaire Tested: **ISS-AF-1200-LED-E1-SL2-8030-ULG**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228071  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)-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-SL2-8030-ULG  
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE WITH UPLIGHT  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT  
GLOW  
Light Source: (16) 3000K CCT, 80 CRI LEDs and (1) UPLIGHT LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

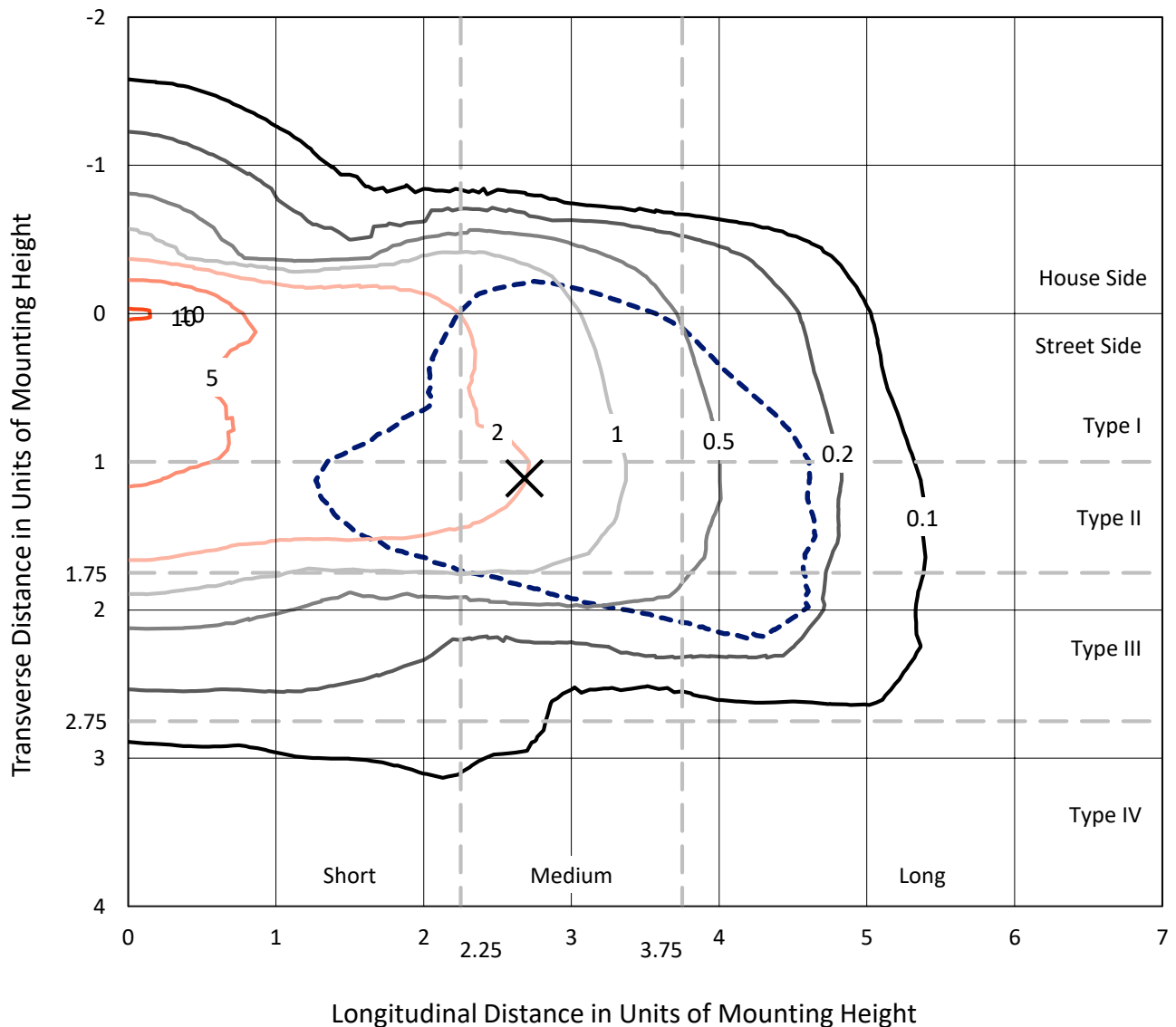
Lumens per Lamp: N/A  
Luminaire Lumens: 6505.2 lumens  
Efficiency: N/A  
Efficacy: 78.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U5 - G2  
  
Input Watts (W): 82.7  
Input Voltage (V): 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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 CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-8030-ULG

### Iso-Footcandle Lines of Horizontal Illumination

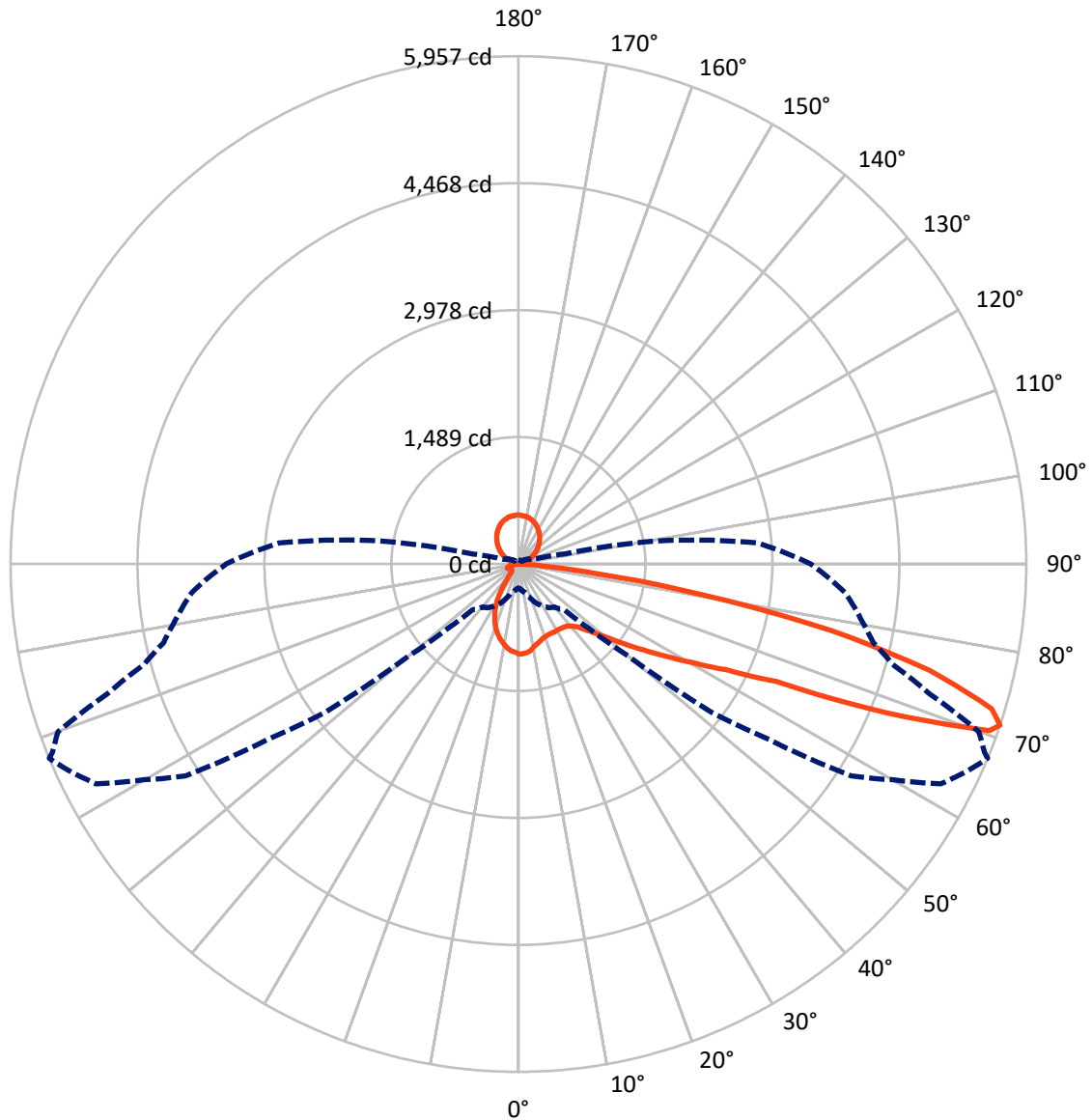
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P228071  
CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-8030-ULG

### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P228071

CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-8030-ULG

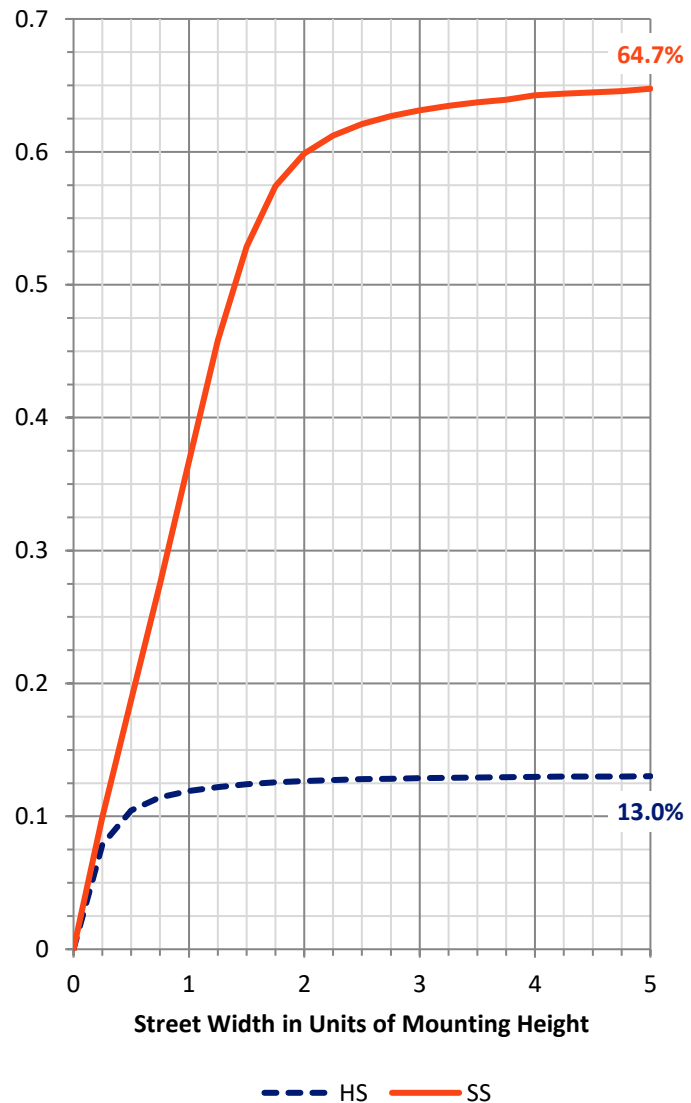
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 855.9    | 713.1  | 1568.9 |
|                    | % Fixture | 13.2     | 11.0   | 24.1   |
| <b>Street Side</b> | Lumens    | 4223.1   | 713.1  | 4936.2 |
|                    | % Fixture | 64.9     | 11.0   | 75.9   |
| <b>Total</b>       | Lumens    | 5079.0   | 1426.2 | 6505.2 |
|                    | % Fixture | 78.1     | 21.9   | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.4   | 1.4       |
| 10°-20°   | 220.9  | 3.4       |
| 20°-30°   | 300.5  | 4.6       |
| 30°-40°   | 410.7  | 6.3       |
| 40°-50°   | 618.8  | 9.5       |
| 50°-60°   | 980.7  | 15.1      |
| 60°-70°   | 1298.2 | 20.0      |
| 70°-80°   | 1034.2 | 15.9      |
| 80°-90°   | 122.6  | 1.9       |
| 90°-100°  | 4.7    | 0.1       |
| 100°-110° | 69.0   | 1.1       |
| 110°-120° | 153.0  | 2.4       |
| 120°-130° | 223.9  | 3.4       |
| 130°-140° | 265.6  | 4.1       |
| 140°-150° | 269.3  | 4.1       |
| 150°-160° | 231.1  | 3.6       |
| 160°-170° | 155.1  | 2.4       |
| 170°-180° | 54.3   | 0.8       |
| 0°-90°    | 5079.0 | 78.1      |
| 0°-180°   | 6505.2 | 100.0     |



REPORT NUMBER: P228071

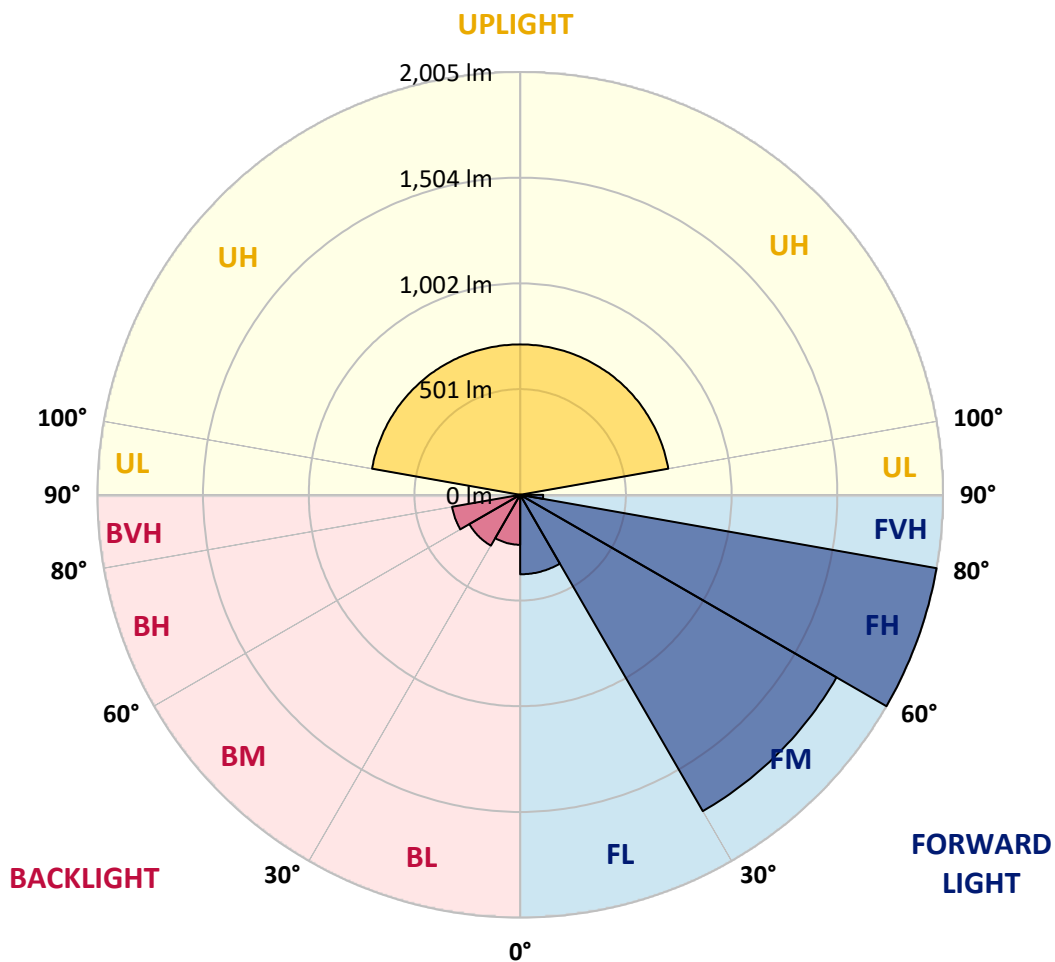
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |         |         |
|------|-------------|--------|-----------|-------------------------|---------|---------|
|      |             |        |           | B                       | U       | G       |
| FL   | (0°-30°)    | 376.9  | 5.8       |                         |         |         |
| FM   | (30°-60°)   | 1732.0 | 26.6      |                         |         |         |
| FH   | (60°-80°)   | 2004.9 | 30.8      |                         |         | G2/5000 |
| FVH  | (80°-90°)   | 109.3  | 1.7       |                         |         | G2/225  |
| BL   | (0°-30°)    | 236.9  | 3.6       | B1/500                  |         |         |
| BM   | (30°-60°)   | 278.1  | 4.3       | B1/1000                 |         |         |
| BH   | (60°-80°)   | 327.6  | 5.0       | B1/500                  |         | G1/500  |
| BVH  | (80°-90°)   | 13.3   | 0.2       |                         |         | G1/100  |
| UL   | (90°-100°)  | 4.7    | 0.1       |                         | U1/10   |         |
| UH   | (100°-180°) | 713.1  | 11.0      |                         | U4/1000 |         |

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

Type III Medium





REPORT NUMBER: P228071

CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-8030-ULG

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 37.5°  | 40°    | 42.5°  | 45°    | 47.5°  | 50°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 |
| 2.5°   | 1038.9 | 1035.4 | 1035.4 | 1040.7 | 1049.5 | 1042.4 | 1047.8 | 1047.8 | 1049.5 | 1054.9 | 1056.6 |
| 5°     | 962.7  | 955.6  | 962.7  | 969.8  | 989.3  | 985.7  | 991.0  | 996.4  | 1007.0 | 1008.8 | 1022.9 |
| 7.5°   | 893.5  | 890.0  | 895.3  | 909.5  | 934.3  | 927.2  | 934.3  | 941.4  | 953.8  | 959.1  | 973.3  |
| 10°    | 840.3  | 835.0  | 842.1  | 852.8  | 877.6  | 875.8  | 879.3  | 888.2  | 902.4  | 905.9  | 923.7  |
| 12.5°  | 801.3  | 801.3  | 804.9  | 819.1  | 840.3  | 838.6  | 849.2  | 854.5  | 866.9  | 870.5  | 890.0  |
| 15°    | 781.8  | 776.5  | 783.6  | 796.0  | 817.3  | 817.3  | 824.4  | 829.7  | 847.4  | 849.2  | 866.9  |
| 17.5°  | 764.1  | 765.9  | 767.7  | 781.8  | 801.3  | 797.8  | 806.7  | 810.2  | 829.7  | 826.2  | 847.4  |
| 20°    | 764.1  | 767.7  | 765.9  | 774.7  | 788.9  | 781.8  | 792.5  | 794.2  | 815.5  | 810.2  | 833.2  |
| 22.5°  | 785.4  | 788.9  | 783.6  | 781.8  | 787.2  | 781.8  | 787.2  | 790.7  | 806.7  | 803.1  | 824.4  |
| 25°    | 822.6  | 829.7  | 822.6  | 810.2  | 804.9  | 790.7  | 794.2  | 799.6  | 812.0  | 803.1  | 822.6  |
| 27.5°  | 881.1  | 886.4  | 874.0  | 861.6  | 836.8  | 820.8  | 815.5  | 813.7  | 827.9  | 813.7  | 829.7  |
| 30°    | 948.5  | 955.6  | 944.9  | 921.9  | 886.4  | 859.8  | 849.2  | 843.9  | 852.8  | 831.5  | 847.4  |
| 32.5°  | 1021.2 | 1028.3 | 1021.2 | 1003.4 | 955.6  | 916.6  | 902.4  | 890.0  | 897.1  | 868.7  | 875.8  |
| 35°    | 1095.6 | 1102.7 | 1109.8 | 1099.2 | 1037.1 | 992.8  | 969.8  | 959.1  | 957.4  | 921.9  | 923.7  |
| 37.5°  | 1161.2 | 1168.3 | 1191.4 | 1202.0 | 1145.3 | 1085.0 | 1063.7 | 1040.7 | 1042.4 | 992.8  | 992.8  |
| 40°    | 1241.0 | 1249.9 | 1280.0 | 1304.8 | 1267.6 | 1194.9 | 1170.1 | 1145.3 | 1145.3 | 1079.7 | 1081.5 |
| 42.5°  | 1349.2 | 1359.8 | 1379.3 | 1413.0 | 1400.6 | 1326.1 | 1299.5 | 1265.8 | 1269.4 | 1191.4 | 1189.6 |
| 45°    | 1501.6 | 1508.7 | 1508.7 | 1530.0 | 1531.8 | 1460.8 | 1443.1 | 1409.4 | 1416.5 | 1317.2 | 1322.6 |
| 47.5°  | 1700.2 | 1691.3 | 1655.9 | 1668.3 | 1682.5 | 1608.0 | 1592.0 | 1570.8 | 1579.6 | 1473.3 | 1483.9 |
| 50°    | 1884.6 | 1877.5 | 1804.8 | 1808.3 | 1859.7 | 1783.5 | 1778.2 | 1751.6 | 1764.0 | 1657.6 | 1673.6 |
| 52.5°  | 1953.7 | 1941.3 | 1868.6 | 1907.6 | 2051.2 | 2008.7 | 2017.5 | 2005.1 | 2012.2 | 1898.7 | 1895.2 |
| 55°    | 1875.7 | 1875.7 | 1831.4 | 1902.3 | 2194.8 | 2217.9 | 2290.6 | 2318.9 | 2349.1 | 2235.6 | 2210.8 |
| 57.5°  | 1659.4 | 1673.6 | 1680.7 | 1806.6 | 2171.8 | 2271.0 | 2409.3 | 2529.9 | 2684.1 | 2677.0 | 2714.3 |
| 60°    | 1301.3 | 1326.1 | 1366.9 | 1572.5 | 2072.5 | 2235.6 | 2414.7 | 2595.5 | 2808.2 | 2944.7 | 3146.8 |
| 62.5°  | 913.0  | 934.3  | 968.0  | 1109.8 | 1783.5 | 2063.6 | 2322.5 | 2600.8 | 2872.1 | 3086.6 | 3352.5 |
| 65°    | 620.5  | 641.8  | 712.7  | 790.7  | 1076.1 | 1483.9 | 1879.2 | 2340.2 | 2753.3 | 3152.2 | 3510.3 |
| 67.5°  | 446.8  | 459.2  | 514.1  | 645.3  | 716.2  | 790.7  | 937.8  | 1480.3 | 1989.2 | 2792.3 | 3315.3 |
| 70°    | 335.1  | 347.5  | 397.1  | 542.5  | 629.4  | 648.9  | 684.3  | 780.1  | 909.5  | 1569.0 | 2255.1 |
| 71°    | 280.1  | 297.8  | 358.1  | 510.6  | 625.8  | 641.8  | 657.7  | 714.5  | 757.0  | 1109.8 | 1673.6 |
| 72.5°  | 196.8  | 209.2  | 265.9  | 471.6  | 601.0  | 638.2  | 675.5  | 673.7  | 670.1  | 757.0  | 1012.3 |
| 75°    | 125.9  | 125.9  | 125.9  | 265.9  | 641.8  | 618.7  | 632.9  | 709.1  | 670.1  | 636.5  | 666.6  |
| 77.5°  | 99.3   | 97.5   | 92.2   | 133.0  | 501.7  | 627.6  | 664.8  | 684.3  | 721.6  | 664.8  | 634.7  |
| 80°    | 74.5   | 72.7   | 72.7   | 83.3   | 232.2  | 406.0  | 562.0  | 624.1  | 650.6  | 707.4  | 645.3  |
| 82.5°  | 39.0   | 39.0   | 42.5   | 49.6   | 86.9   | 141.8  | 290.8  | 478.7  | 535.4  | 539.0  | 544.3  |
| 85°    | 12.4   | 10.6   | 14.2   | 23.0   | 37.2   | 46.1   | 81.6   | 193.2  | 287.2  | 347.5  | 367.0  |
| 87.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.3    | 7.1    | 12.4   | 16.0   |
| 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°  | 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 |





REPORT NUMBER: P228071

CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 52.5°  | 55°    | 57.5°  | 60°    | 62.5°  | 65°    | 67.5°  | 68°    | 70°    | 72.5°  | 75°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 |
| 2.5°   | 1051.3 | 1058.4 | 1053.1 | 1060.2 | 1051.3 | 1062.0 | 1053.1 | 1058.4 | 1060.2 | 1053.1 | 1062.0 |
| 5°     | 1014.1 | 1035.4 | 1028.3 | 1044.2 | 1037.1 | 1051.3 | 1044.2 | 1058.4 | 1058.4 | 1053.1 | 1065.5 |
| 7.5°   | 968.0  | 989.3  | 991.0  | 1007.0 | 1007.0 | 1024.7 | 1024.7 | 1038.9 | 1046.0 | 1046.0 | 1063.7 |
| 10°    | 921.9  | 941.4  | 944.9  | 962.7  | 966.2  | 987.5  | 987.5  | 1007.0 | 1021.2 | 1026.5 | 1047.8 |
| 12.5°  | 886.4  | 911.3  | 911.3  | 930.8  | 927.2  | 959.1  | 962.7  | 980.4  | 994.6  | 1007.0 | 1035.4 |
| 15°    | 865.2  | 888.2  | 888.2  | 907.7  | 904.2  | 936.1  | 941.4  | 959.1  | 980.4  | 987.5  | 1026.5 |
| 17.5°  | 843.9  | 866.9  | 861.6  | 888.2  | 886.4  | 921.9  | 918.3  | 944.9  | 962.7  | 973.3  | 1017.6 |
| 20°    | 826.2  | 852.8  | 849.2  | 875.8  | 868.7  | 907.7  | 907.7  | 934.3  | 952.0  | 960.9  | 1012.3 |
| 22.5°  | 817.3  | 845.7  | 838.6  | 865.2  | 859.8  | 898.8  | 898.8  | 925.4  | 944.9  | 959.1  | 1010.5 |
| 25°    | 817.3  | 842.1  | 835.0  | 865.2  | 856.3  | 898.8  | 897.1  | 923.7  | 943.2  | 955.6  | 1012.3 |
| 27.5°  | 820.8  | 845.7  | 840.3  | 868.7  | 861.6  | 898.8  | 902.4  | 925.4  | 944.9  | 959.1  | 1015.9 |
| 30°    | 833.2  | 856.3  | 843.9  | 870.5  | 865.2  | 900.6  | 898.8  | 923.7  | 943.2  | 960.9  | 1015.9 |
| 32.5°  | 859.8  | 872.3  | 856.3  | 879.3  | 868.7  | 904.2  | 904.2  | 921.9  | 944.9  | 966.2  | 1015.9 |
| 35°    | 897.1  | 905.9  | 881.1  | 897.1  | 877.6  | 913.0  | 911.3  | 930.8  | 948.5  | 966.2  | 1019.4 |
| 37.5°  | 950.3  | 960.9  | 921.9  | 936.1  | 904.2  | 932.5  | 925.4  | 948.5  | 966.2  | 976.9  | 1037.1 |
| 40°    | 1030.0 | 1033.6 | 982.2  | 992.8  | 948.5  | 973.3  | 955.6  | 987.5  | 996.4  | 1003.4 | 1063.7 |
| 42.5°  | 1127.5 | 1131.1 | 1065.5 | 1072.6 | 1015.9 | 1037.1 | 1007.0 | 1040.7 | 1053.1 | 1051.3 | 1116.9 |
| 45°    | 1248.1 | 1249.9 | 1175.4 | 1180.7 | 1115.1 | 1132.9 | 1095.6 | 1124.0 | 1132.9 | 1127.5 | 1194.9 |
| 47.5°  | 1379.3 | 1393.5 | 1310.2 | 1317.2 | 1248.1 | 1257.0 | 1210.9 | 1242.8 | 1242.8 | 1237.5 | 1306.6 |
| 50°    | 1553.0 | 1574.3 | 1476.8 | 1487.4 | 1407.7 | 1414.8 | 1361.6 | 1395.3 | 1391.7 | 1377.5 | 1455.5 |
| 52.5°  | 1769.3 | 1788.8 | 1686.0 | 1700.2 | 1615.1 | 1618.6 | 1553.0 | 1592.0 | 1581.4 | 1558.4 | 1648.8 |
| 55°    | 2033.5 | 2035.3 | 1939.5 | 1951.9 | 1866.8 | 1861.5 | 1780.0 | 1827.8 | 1811.9 | 1780.0 | 1863.3 |
| 57.5°  | 2457.2 | 2405.8 | 2248.0 | 2244.5 | 2152.3 | 2145.2 | 2040.6 | 2099.1 | 2072.5 | 2005.1 | 2115.0 |
| 60°    | 3139.8 | 3155.7 | 2753.3 | 2691.2 | 2519.3 | 2487.3 | 2349.1 | 2416.4 | 2384.5 | 2274.6 | 2382.7 |
| 62.5°  | 3524.5 | 3778.0 | 3753.2 | 3529.8 | 3086.6 | 2966.0 | 2732.0 | 2811.8 | 2728.4 | 2567.1 | 2668.2 |
| 65°    | 3809.9 | 4153.8 | 4352.4 | 4566.9 | 4368.4 | 3875.5 | 3322.4 | 3434.1 | 3230.2 | 2923.5 | 3021.0 |
| 67.5°  | 3916.3 | 4331.1 | 4749.5 | 5054.5 | 5261.9 | 5299.1 | 4659.1 | 4689.2 | 4187.5 | 3574.1 | 3586.5 |
| 70°    | 3359.6 | 3971.2 | 4790.3 | 5176.8 | 5588.1 | 5790.2 | 5857.6 | 5825.7 | 5501.2 | 4632.5 | 4301.0 |
| 71°    | 2847.2 | 3588.3 | 4627.2 | 5058.0 | 5584.5 | 5779.6 | 5956.8 | 5896.6 | 5745.9 | 5052.7 | 4543.9 |
| 72.5°  | 1928.9 | 2859.6 | 4150.3 | 4696.3 | 5398.4 | 5540.2 | 5806.2 | 5699.8 | 5667.9 | 5366.5 | 4770.8 |
| 75°    | 907.7  | 1425.4 | 2700.1 | 3526.2 | 4568.7 | 4705.2 | 4983.5 | 4852.4 | 4769.0 | 4871.9 | 4538.6 |
| 77.5°  | 668.4  | 778.3  | 1482.1 | 2191.3 | 3322.4 | 3515.6 | 3754.9 | 3593.6 | 3487.2 | 3590.1 | 3357.8 |
| 80°    | 608.1  | 611.6  | 767.7  | 1155.9 | 1982.1 | 2097.3 | 2187.7 | 2056.5 | 1895.2 | 1888.1 | 1673.6 |
| 82.5°  | 560.2  | 530.1  | 498.2  | 611.6  | 1015.9 | 966.2  | 893.5  | 827.9  | 643.6  | 515.9  | 372.3  |
| 85°    | 356.3  | 390.0  | 354.6  | 335.1  | 404.2  | 333.3  | 264.2  | 253.5  | 179.1  | 120.6  | 111.7  |
| 87.5°  | 24.8   | 28.4   | 33.7   | 39.0   | 47.9   | 39.0   | 24.8   | 30.1   | 17.7   | 0.0    | 8.9    |
| 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   | 11.5   | 10.0   | 8.5    | 7.0    | 6.5    | 6.4    | 6.0    | 5.5    | 5.0    |
| 100°   | 31.5   | 32.0   | 31.5   | 31.0   | 30.5   | 30.0   | 29.2   | 29.1   | 28.5   | 27.8   | 27.0   |
| 102.5° | 50.8   | 51.0   | 50.8   | 50.5   | 50.2   | 50.0   | 49.5   | 49.4   | 49.0   | 48.5   | 48.0   |
| 105°   | 70.8   | 71.0   | 71.0   | 71.0   | 71.0   | 71.0   | 70.5   | 70.4   | 70.0   | 69.5   | 69.0   |
| 107.5° | 92.5   | 93.0   | 92.8   | 92.5   | 92.2   | 92.0   | 91.8   | 91.7   | 91.5   | 91.2   | 91.0   |



REPORT NUMBER: P228071

CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 52.5° | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 68°   | 70°   | 72.5° | 75°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110°   | 113.5 | 114.0 | 114.0 | 114.0 | 114.0 | 114.0 | 113.8 | 113.7 | 113.5 | 113.2 | 113.0 |
| 112.5° | 135.5 | 136.0 | 136.0 | 136.0 | 136.0 | 136.0 | 135.8 | 135.7 | 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 | 180.5 | 180.8 | 181.0 | 180.8 | 180.7 | 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 | 228.2 | 228.3 | 228.5 | 228.8 | 229.0 |
| 125°   | 252.8 | 253.0 | 253.2 | 253.5 | 253.8 | 254.0 | 254.0 | 254.0 | 254.0 | 254.0 | 254.0 |
| 127.5° | 277.5 | 278.0 | 277.8 | 277.5 | 277.2 | 277.0 | 277.2 | 277.3 | 277.5 | 277.8 | 278.0 |
| 130°   | 300.5 | 301.0 | 301.0 | 301.0 | 301.0 | 301.0 | 301.2 | 301.3 | 301.5 | 301.8 | 302.0 |
| 132.5° | 324.2 | 325.0 | 325.0 | 325.0 | 325.0 | 325.0 | 325.2 | 325.3 | 325.5 | 325.8 | 326.0 |
| 135°   | 347.2 | 348.0 | 348.0 | 348.0 | 348.0 | 348.0 | 348.2 | 348.3 | 348.5 | 348.8 | 349.0 |
| 137.5° | 368.5 | 369.0 | 369.0 | 369.0 | 369.0 | 369.0 | 369.2 | 369.3 | 369.5 | 369.8 | 370.0 |
| 140°   | 389.8 | 390.0 | 390.0 | 390.0 | 390.0 | 390.0 | 390.5 | 390.6 | 391.0 | 391.5 | 392.0 |
| 142.5° | 411.5 | 412.0 | 412.0 | 412.0 | 412.0 | 412.0 | 412.2 | 412.3 | 412.5 | 412.8 | 413.0 |
| 145°   | 433.5 | 434.0 | 433.8 | 433.5 | 433.2 | 433.0 | 433.2 | 433.3 | 433.5 | 433.8 | 434.0 |
| 147.5° | 453.8 | 454.0 | 453.5 | 453.0 | 452.5 | 452.0 | 452.2 | 452.3 | 452.5 | 452.8 | 453.0 |
| 150°   | 470.8 | 471.0 | 470.5 | 470.0 | 469.5 | 469.0 | 469.0 | 469.0 | 469.0 | 469.0 | 469.0 |
| 152.5° | 486.8 | 487.0 | 486.8 | 486.5 | 486.2 | 486.0 | 486.0 | 486.0 | 486.0 | 486.0 | 486.0 |
| 155°   | 503.8 | 504.0 | 503.8 | 503.5 | 503.2 | 503.0 | 503.2 | 503.3 | 503.5 | 503.8 | 504.0 |
| 157.5° | 519.0 | 519.0 | 518.5 | 518.0 | 517.5 | 517.0 | 517.2 | 517.3 | 517.5 | 517.8 | 518.0 |
| 160°   | 532.0 | 532.0 | 531.5 | 531.0 | 530.5 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 | 530.0 |
| 162.5° | 541.8 | 542.0 | 541.5 | 541.0 | 540.5 | 540.0 | 539.5 | 539.4 | 539.0 | 538.5 | 538.0 |
| 165°   | 552.8 | 553.0 | 552.2 | 551.5 | 550.8 | 550.0 | 549.5 | 549.4 | 549.0 | 548.5 | 548.0 |
| 167.5° | 560.0 | 560.0 | 559.5 | 559.0 | 558.5 | 558.0 | 558.2 | 558.3 | 558.5 | 558.8 | 559.0 |
| 170°   | 565.2 | 565.0 | 564.8 | 564.5 | 564.2 | 564.0 | 564.5 | 564.6 | 565.0 | 565.5 | 566.0 |
| 172.5° | 568.8 | 569.0 | 568.5 | 568.0 | 567.5 | 567.0 | 567.2 | 567.3 | 567.5 | 567.8 | 568.0 |
| 175°   | 572.8 | 573.0 | 572.2 | 571.5 | 570.8 | 570.0 | 569.5 | 569.4 | 569.0 | 568.5 | 568.0 |
| 177.5° | 577.0 | 577.0 | 576.2 | 575.5 | 574.8 | 574.0 | 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 |



REPORT NUMBER: P228071

CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-8030-ULG

**CANDELA DISTRIBUTION (continued):**

|        | 77.5°  | 80°    | 85°    | 90°    | 95°    | 100°   | 102.5° | 105°   | 107.5° | 110°   | 112.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 |
| 2.5°   | 1049.5 | 1058.4 | 1062.0 | 1060.2 | 1056.6 | 1053.1 | 1040.7 | 1049.5 | 1037.1 | 1046.0 | 1035.4 |
| 5°     | 1054.9 | 1067.3 | 1069.0 | 1065.5 | 1062.0 | 1054.9 | 1033.6 | 1046.0 | 1031.8 | 1038.9 | 1022.9 |
| 7.5°   | 1053.1 | 1072.6 | 1074.4 | 1070.8 | 1063.7 | 1051.3 | 1030.0 | 1038.9 | 1015.9 | 1021.2 | 999.9  |
| 10°    | 1044.2 | 1072.6 | 1074.4 | 1065.5 | 1054.9 | 1035.4 | 1010.5 | 1014.1 | 991.0  | 991.0  | 962.7  |
| 12.5°  | 1035.4 | 1069.0 | 1077.9 | 1065.5 | 1047.8 | 1021.2 | 992.8  | 989.3  | 962.7  | 960.9  | 929.0  |
| 15°    | 1035.4 | 1072.6 | 1085.0 | 1069.0 | 1042.4 | 1005.2 | 971.5  | 964.4  | 934.3  | 925.4  | 890.0  |
| 17.5°  | 1033.6 | 1072.6 | 1090.3 | 1069.0 | 1037.1 | 989.3  | 946.7  | 939.6  | 900.6  | 886.4  | 845.7  |
| 20°    | 1031.8 | 1076.1 | 1093.9 | 1065.5 | 1021.2 | 969.8  | 921.9  | 907.7  | 865.2  | 842.1  | 794.2  |
| 22.5°  | 1030.0 | 1083.2 | 1097.4 | 1062.0 | 1010.5 | 944.9  | 895.3  | 870.5  | 820.8  | 790.7  | 734.0  |
| 25°    | 1038.9 | 1092.1 | 1099.2 | 1058.4 | 994.6  | 918.3  | 865.2  | 831.5  | 776.5  | 737.5  | 670.1  |
| 27.5°  | 1042.4 | 1101.0 | 1102.7 | 1051.3 | 975.1  | 890.0  | 833.2  | 787.2  | 725.1  | 677.2  | 601.0  |
| 30°    | 1053.1 | 1102.7 | 1097.4 | 1037.1 | 952.0  | 854.5  | 796.0  | 739.3  | 670.1  | 608.1  | 517.7  |
| 32.5°  | 1056.6 | 1108.0 | 1093.9 | 1021.2 | 929.0  | 819.1  | 753.5  | 687.9  | 604.5  | 531.9  | 421.9  |
| 35°    | 1063.7 | 1111.6 | 1090.3 | 1012.3 | 904.2  | 781.8  | 709.1  | 634.7  | 539.0  | 446.8  | 320.9  |
| 37.5°  | 1074.4 | 1127.5 | 1099.2 | 1008.8 | 891.8  | 749.9  | 659.5  | 579.7  | 460.9  | 352.8  | 212.7  |
| 40°    | 1101.0 | 1159.5 | 1115.1 | 1014.1 | 882.9  | 723.3  | 611.6  | 523.0  | 372.3  | 260.6  | 147.1  |
| 42.5°  | 1154.1 | 1214.4 | 1155.9 | 1040.7 | 888.2  | 700.3  | 562.0  | 462.7  | 281.9  | 186.2  | 122.3  |
| 45°    | 1233.9 | 1285.3 | 1223.3 | 1085.0 | 909.5  | 687.9  | 515.9  | 400.7  | 202.1  | 148.9  | 111.7  |
| 47.5°  | 1350.9 | 1400.6 | 1322.6 | 1155.9 | 946.7  | 682.6  | 468.0  | 335.1  | 156.0  | 134.7  | 108.1  |
| 50°    | 1505.2 | 1563.7 | 1466.2 | 1267.6 | 1015.9 | 687.9  | 416.6  | 273.0  | 136.5  | 131.2  | 106.4  |
| 52.5°  | 1694.9 | 1751.6 | 1654.1 | 1432.5 | 1129.3 | 718.0  | 361.7  | 237.6  | 129.4  | 129.4  | 104.6  |
| 55°    | 1909.4 | 1989.2 | 1893.4 | 1661.2 | 1304.8 | 783.6  | 328.0  | 225.2  | 129.4  | 131.2  | 102.8  |
| 57.5°  | 2162.9 | 2230.3 | 2145.2 | 1881.0 | 1515.8 | 891.8  | 331.5  | 237.6  | 129.4  | 131.2  | 101.1  |
| 60°    | 2411.1 | 2494.4 | 2396.9 | 2161.1 | 1756.9 | 1054.9 | 404.2  | 301.4  | 134.7  | 136.5  | 101.1  |
| 62.5°  | 2669.9 | 2733.8 | 2654.0 | 2405.8 | 2029.9 | 1257.0 | 549.6  | 436.1  | 156.0  | 161.3  | 108.1  |
| 65°    | 2953.6 | 3058.2 | 2974.9 | 2771.0 | 2416.4 | 1579.6 | 826.2  | 654.2  | 230.5  | 187.9  | 118.8  |
| 67.5°  | 3444.7 | 3487.2 | 3446.5 | 3260.3 | 2868.5 | 1845.6 | 983.9  | 664.8  | 230.5  | 182.6  | 133.0  |
| 70°    | 4109.5 | 4013.8 | 3831.2 | 3483.7 | 2916.4 | 1655.9 | 705.6  | 406.0  | 196.8  | 173.7  | 140.1  |
| 71°    | 4263.8 | 4116.6 | 3847.1 | 3428.7 | 2817.1 | 1494.5 | 547.8  | 320.9  | 184.4  | 170.2  | 140.1  |
| 72.5°  | 4357.7 | 4137.9 | 3730.1 | 3267.4 | 2622.1 | 1177.2 | 361.7  | 251.7  | 168.4  | 161.3  | 134.7  |
| 75°    | 4235.4 | 3829.4 | 3294.0 | 2827.7 | 2146.9 | 611.6  | 226.9  | 191.5  | 143.6  | 140.1  | 117.0  |
| 77.5°  | 3363.1 | 3006.8 | 2430.6 | 2054.8 | 1381.1 | 271.2  | 163.1  | 145.4  | 113.5  | 109.9  | 90.4   |
| 80°    | 1569.0 | 1258.7 | 737.5  | 632.9  | 434.4  | 159.6  | 111.7  | 99.3   | 81.6   | 78.0   | 63.8   |
| 82.5°  | 285.4  | 214.5  | 166.6  | 161.3  | 145.4  | 94.0   | 65.6   | 60.3   | 51.4   | 49.6   | 40.8   |
| 85°    | 97.5   | 94.0   | 70.9   | 70.9   | 72.7   | 49.6   | 37.2   | 35.5   | 26.6   | 26.6   | 17.7   |
| 87.5°  | 1.8    | 8.9    | 8.9    | 12.4   | 10.6   | 8.9    | 3.5    | 5.3    | 1.8    | 5.3    | 0.0    |
| 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°  | 4.8    | 4.5    | 4.0    | 4.0    | 4.0    | 4.5    | 4.8    | 5.0    | 5.5    | 6.0    | 6.5    |
| 100°   | 26.8   | 26.5   | 26.0   | 25.0   | 26.0   | 26.5   | 26.8   | 27.0   | 27.8   | 28.5   | 29.2   |
| 102.5° | 48.2   | 48.5   | 49.0   | 48.0   | 49.0   | 48.5   | 48.2   | 48.0   | 48.5   | 49.0   | 49.5   |
| 105°   | 69.5   | 70.0   | 71.0   | 69.0   | 71.0   | 70.0   | 69.5   | 69.0   | 69.5   | 70.0   | 70.5   |
| 107.5° | 91.2   | 91.5   | 92.0   | 91.0   | 92.0   | 91.5   | 91.2   | 91.0   | 91.2   | 91.5   | 91.8   |



REPORT NUMBER: P228071  
 CATALOG NUMBER: ISS-AF-1200-LED-E1-SL2-8030-ULG

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 77.5° | 80°   | 85°   | 90°   | 95°   | 100°  | 102.5° | 105°  | 107.5° | 110°  | 112.5° |        |
|--------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|--------|
| 110°   | 113.2 | 113.5 | 114.0 | 113.0 | 114.0 | 113.5 | 113.2  | 113.0 | 113.2  | 113.5 | 113.8  | 0°     |
| 112.5° | 135.5 | 136.0 | 137.0 | 135.0 | 137.0 | 136.0 | 135.5  | 135.0 | 135.2  | 135.5 | 135.8  | 2.5°   |
| 115°   | 158.5 | 159.0 | 160.0 | 159.0 | 160.0 | 159.0 | 158.5  | 158.0 | 158.0  | 158.0 | 158.0  | 5°     |
| 117.5° | 180.5 | 181.0 | 182.0 | 180.0 | 182.0 | 181.0 | 180.5  | 180.0 | 180.2  | 180.5 | 180.8  | 7.5°   |
| 120°   | 204.5 | 205.0 | 206.0 | 204.0 | 206.0 | 205.0 | 204.5  | 204.0 | 204.0  | 204.0 | 204.0  | 10°    |
| 122.5° | 230.0 | 231.0 | 233.0 | 232.0 | 233.0 | 231.0 | 230.0  | 229.0 | 228.8  | 228.5 | 228.2  | 12.5°  |
| 125°   | 254.8 | 255.5 | 257.0 | 256.0 | 257.0 | 255.5 | 254.8  | 254.0 | 254.0  | 254.0 | 254.0  | 15°    |
| 127.5° | 278.8 | 279.5 | 281.0 | 278.0 | 281.0 | 279.5 | 278.8  | 278.0 | 277.8  | 277.5 | 277.2  | 17.5°  |
| 130°   | 302.8 | 303.5 | 305.0 | 303.0 | 305.0 | 303.5 | 302.8  | 302.0 | 301.8  | 301.5 | 301.2  | 20°    |
| 132.5° | 326.8 | 327.5 | 329.0 | 327.0 | 329.0 | 327.5 | 326.8  | 326.0 | 325.8  | 325.5 | 325.2  | 22.5°  |
| 135°   | 349.5 | 350.0 | 351.0 | 350.0 | 351.0 | 350.0 | 349.5  | 349.0 | 348.8  | 348.5 | 348.2  | 25°    |
| 137.5° | 371.0 | 372.0 | 374.0 | 372.0 | 374.0 | 372.0 | 371.0  | 370.0 | 369.8  | 369.5 | 369.2  | 27.5°  |
| 140°   | 393.0 | 394.0 | 396.0 | 394.0 | 396.0 | 394.0 | 393.0  | 392.0 | 391.5  | 391.0 | 390.5  | 30°    |
| 142.5° | 413.8 | 414.5 | 416.0 | 415.0 | 416.0 | 414.5 | 413.8  | 413.0 | 412.8  | 412.5 | 412.2  | 32.5°  |
| 145°   | 434.8 | 435.5 | 437.0 | 435.0 | 437.0 | 435.5 | 434.8  | 434.0 | 433.8  | 433.5 | 433.2  | 35°    |
| 147.5° | 453.8 | 454.5 | 456.0 | 453.0 | 456.0 | 454.5 | 453.8  | 453.0 | 452.8  | 452.5 | 452.2  | 37.5°  |
| 150°   | 470.0 | 471.0 | 473.0 | 470.0 | 473.0 | 471.0 | 470.0  | 469.0 | 469.0  | 469.0 | 469.0  | 40°    |
| 152.5° | 486.8 | 487.5 | 489.0 | 486.0 | 489.0 | 487.5 | 486.8  | 486.0 | 486.0  | 486.0 | 486.0  | 42.5°  |
| 155°   | 504.8 | 505.5 | 507.0 | 505.0 | 507.0 | 505.5 | 504.8  | 504.0 | 503.8  | 503.5 | 503.2  | 45°    |
| 157.5° | 519.2 | 520.5 | 523.0 | 520.0 | 523.0 | 520.5 | 519.2  | 518.0 | 517.8  | 517.5 | 517.2  | 47.5°  |
| 160°   | 530.8 | 531.5 | 533.0 | 531.0 | 533.0 | 531.5 | 530.8  | 530.0 | 530.0  | 530.0 | 530.0  | 50°    |
| 162.5° | 538.5 | 539.0 | 540.0 | 537.0 | 540.0 | 539.0 | 538.5  | 538.0 | 538.5  | 539.0 | 539.5  | 52.5°  |
| 165°   | 548.5 | 549.0 | 550.0 | 548.0 | 550.0 | 549.0 | 548.5  | 548.0 | 548.5  | 549.0 | 549.5  | 55°    |
| 167.5° | 560.0 | 561.0 | 563.0 | 561.0 | 563.0 | 561.0 | 560.0  | 559.0 | 558.8  | 558.5 | 558.2  | 57.5°  |
| 170°   | 567.2 | 568.5 | 571.0 | 569.0 | 571.0 | 568.5 | 567.2  | 566.0 | 565.5  | 565.0 | 564.5  | 60°    |
| 172.5° | 568.8 | 569.5 | 571.0 | 568.0 | 571.0 | 569.5 | 568.8  | 568.0 | 567.8  | 567.5 | 567.2  | 62.5°  |
| 175°   | 568.8 | 569.5 | 571.0 | 568.0 | 571.0 | 569.5 | 568.8  | 568.0 | 568.5  | 569.0 | 569.5  | 65°    |
| 177.5° | 574.8 | 575.5 | 577.0 | 574.0 | 577.0 | 575.5 | 574.8  | 574.0 | 574.0  | 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: P228071  
 NUMBER: ISS-AF-1200-LED-E1-SL2-8030-ULG

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 115°   | 117.5° | 120°   | 122.5° | 125°   | 127.5° | 130°   | 135°   | 145°   | 155°   | 165°   | 115°   | 115°  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 1058.4 | 110°   | 114.0 |
| 1044.2 | 1030.0 | 1042.4 | 1030.0 | 1037.1 | 1022.9 | 1031.8 | 1026.5 | 1026.5 | 1021.2 | 1017.6 | 112.5° | 136.0 |
| 1028.3 | 1010.5 | 1019.4 | 1005.2 | 1012.3 | 991.0  | 996.4  | 987.5  | 969.8  | 959.1  | 944.9  | 115°   | 158.0 |
| 1005.2 | 978.6  | 985.7  | 964.4  | 969.8  | 941.4  | 946.7  | 930.8  | 897.1  | 875.8  | 854.5  | 117.5° | 181.0 |
| 964.4  | 939.6  | 941.4  | 914.8  | 913.0  | 884.7  | 879.3  | 858.1  | 808.4  | 773.0  | 744.6  | 120°   | 204.0 |
| 923.7  | 895.3  | 891.8  | 859.8  | 854.5  | 820.8  | 813.7  | 780.1  | 707.4  | 638.2  | 593.9  | 122.5° | 228.0 |
| 881.1  | 845.7  | 835.0  | 801.3  | 781.8  | 753.5  | 734.0  | 684.3  | 579.7  | 489.3  | 430.8  | 125°   | 254.0 |
| 833.2  | 787.2  | 771.2  | 732.2  | 703.8  | 661.3  | 632.9  | 565.5  | 430.8  | 333.3  | 292.5  | 127.5° | 277.0 |
| 771.2  | 721.6  | 693.2  | 643.6  | 606.3  | 554.9  | 519.5  | 432.6  | 287.2  | 237.6  | 232.2  | 130°   | 301.0 |
| 702.1  | 643.6  | 608.1  | 546.0  | 499.9  | 445.0  | 388.3  | 292.5  | 203.9  | 193.2  | 200.3  | 132.5° | 325.0 |
| 629.4  | 556.7  | 510.6  | 434.4  | 372.3  | 308.5  | 255.3  | 195.0  | 166.6  | 164.9  | 175.5  | 135°   | 348.0 |
| 542.5  | 459.2  | 393.6  | 303.2  | 246.4  | 196.8  | 173.7  | 154.2  | 141.8  | 143.6  | 154.2  | 137.5° | 369.0 |
| 446.8  | 338.6  | 269.5  | 189.7  | 164.9  | 143.6  | 140.1  | 133.0  | 127.6  | 131.2  | 138.3  | 140°   | 390.0 |
| 333.3  | 216.3  | 173.7  | 136.5  | 134.7  | 122.3  | 125.9  | 122.3  | 120.6  | 122.3  | 127.6  | 142.5° | 412.0 |
| 225.2  | 143.6  | 136.5  | 117.0  | 120.6  | 111.7  | 117.0  | 115.2  | 113.5  | 113.5  | 117.0  | 145°   | 433.0 |
| 156.0  | 118.8  | 122.3  | 108.1  | 113.5  | 106.4  | 111.7  | 109.9  | 108.1  | 106.4  | 108.1  | 147.5° | 452.0 |
| 129.4  | 108.1  | 113.5  | 102.8  | 108.1  | 101.1  | 106.4  | 104.6  | 102.8  | 99.3   | 99.3   | 150°   | 469.0 |
| 118.8  | 102.8  | 108.1  | 97.5   | 104.6  | 95.7   | 102.8  | 99.3   | 95.7   | 92.2   | 94.0   | 152.5° | 486.0 |
| 115.2  | 99.3   | 104.6  | 94.0   | 101.1  | 92.2   | 97.5   | 95.7   | 88.6   | 86.9   | 88.6   | 155°   | 503.0 |
| 111.7  | 97.5   | 102.8  | 92.2   | 97.5   | 88.6   | 94.0   | 90.4   | 83.3   | 81.6   | 83.3   | 157.5° | 517.0 |
| 109.9  | 94.0   | 99.3   | 88.6   | 94.0   | 86.9   | 90.4   | 86.9   | 79.8   | 78.0   | 78.0   | 160°   | 530.0 |
| 108.1  | 92.2   | 97.5   | 85.1   | 90.4   | 79.8   | 85.1   | 81.6   | 74.5   | 72.7   | 72.7   | 162.5° | 540.0 |
| 108.1  | 90.4   | 94.0   | 81.6   | 86.9   | 76.2   | 79.8   | 76.2   | 72.7   | 69.1   | 69.1   | 165°   | 550.0 |
| 106.4  | 86.9   | 92.2   | 78.0   | 81.6   | 72.7   | 76.2   | 72.7   | 67.4   | 65.6   | 65.6   | 167.5° | 558.0 |
| 106.4  | 85.1   | 90.4   | 76.2   | 79.8   | 69.1   | 72.7   | 69.1   | 63.8   | 62.1   | 62.1   | 170°   | 564.0 |
| 111.7  | 88.6   | 92.2   | 78.0   | 79.8   | 69.1   | 70.9   | 65.6   | 60.3   | 60.3   | 58.5   | 172.5° | 567.0 |
| 122.3  | 99.3   | 99.3   | 81.6   | 81.6   | 69.1   | 70.9   | 63.8   | 56.7   | 56.7   | 56.7   | 175°   | 570.0 |
| 133.0  | 109.9  | 108.1  | 86.9   | 85.1   | 69.1   | 69.1   | 60.3   | 53.2   | 53.2   | 53.2   | 177.5° | 574.0 |
| 140.1  | 115.2  | 111.7  | 88.6   | 85.1   | 67.4   | 65.6   | 56.7   | 49.6   | 49.6   | 49.6   | 180°   | 576.0 |
| 138.3  | 115.2  | 109.9  | 86.9   | 81.6   | 63.8   | 63.8   | 55.0   | 47.9   | 47.9   | 46.1   |        |       |
| 131.2  | 108.1  | 102.8  | 81.6   | 78.0   | 60.3   | 60.3   | 51.4   | 44.3   | 44.3   | 42.5   |        |       |
| 111.7  | 92.2   | 86.9   | 69.1   | 65.6   | 53.2   | 51.4   | 42.5   | 39.0   | 37.2   | 37.2   |        |       |
| 86.9   | 72.7   | 67.4   | 55.0   | 53.2   | 42.5   | 40.8   | 35.5   | 31.9   | 31.9   | 30.1   |        |       |
| 62.1   | 51.4   | 47.9   | 37.2   | 33.7   | 28.4   | 30.1   | 26.6   | 24.8   | 24.8   | 23.0   |        |       |
| 37.2   | 26.6   | 26.6   | 21.3   | 23.0   | 17.7   | 19.5   | 19.5   | 17.7   | 14.2   | 14.2   |        |       |
| 19.5   | 12.4   | 16.0   | 8.9    | 12.4   | 5.3    | 8.9    | 7.1    | 7.1    | 5.3    | 5.3    |        |       |
| 3.5    | 0.0    | 1.8    | 0.0    | 1.8    | 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    | 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    |        |       |
| 7.0    | 8.5    | 10.0   | 11.5   | 13.0   | 12.0   | 11.0   | 9.0    | 4.0    | 3.0    | 2.0    |        |       |
| 30.0   | 30.5   | 31.0   | 31.5   | 32.0   | 31.5   | 31.0   | 30.0   | 22.0   | 14.0   | 10.0   |        |       |
| 50.0   | 50.2   | 50.5   | 50.8   | 51.0   | 50.8   | 50.5   | 50.0   | 45.0   | 38.0   | 32.0   |        |       |
| 71.0   | 71.0   | 71.0   | 71.0   | 71.0   | 70.8   | 70.5   | 70.0   | 66.0   | 61.0   | 56.0   |        |       |
| 92.0   | 92.2   | 92.5   | 92.8   | 93.0   | 92.5   | 92.0   | 91.0   | 88.0   | 84.0   | 80.0   |        |       |

'228071  
 ISS-AF-1200-LED-E1-SL2-8030-ULG

REPORT NUMBER: P228071  
 CATALOG NUMBER: ISS-AF-12

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 135°  | 145°  | 155°  | 165°  |        | 175°   | 180°   |
|--------|-------|--------|-------|--------|-------|-------|-------|-------|-------|--------|--------|--------|
| 114.0  | 114.0 | 114.0  | 114.0 | 113.5  | 113.0 | 112.0 | 110.0 | 106.0 | 103.0 | 0°     | 1058.4 | 1058.4 |
| 136.0  | 136.0 | 136.0  | 136.0 | 135.5  | 135.0 | 134.0 | 132.0 | 129.0 | 126.0 | 2.5°   | 1007.0 | 1008.8 |
| 158.0  | 158.0 | 158.0  | 158.0 | 157.5  | 157.0 | 156.0 | 154.0 | 151.0 | 149.0 | 5°     | 937.8  | 941.4  |
| 180.8  | 180.5 | 180.2  | 180.0 | 179.8  | 179.5 | 179.0 | 177.0 | 174.0 | 172.0 | 7.5°   | 838.6  | 843.9  |
| 204.0  | 204.0 | 204.0  | 204.0 | 203.5  | 203.0 | 202.0 | 201.0 | 198.0 | 196.0 | 10°    | 719.8  | 723.3  |
| 228.0  | 228.0 | 228.0  | 228.0 | 227.8  | 227.5 | 227.0 | 226.0 | 223.0 | 221.0 | 12.5°  | 567.3  | 567.3  |
| 253.8  | 253.5 | 253.2  | 253.0 | 252.8  | 252.5 | 252.0 | 251.0 | 248.0 | 247.0 | 15°    | 397.1  | 400.7  |
| 277.2  | 277.5 | 277.8  | 278.0 | 277.5  | 277.0 | 276.0 | 274.0 | 272.0 | 270.0 | 17.5°  | 278.3  | 280.1  |
| 301.0  | 301.0 | 301.0  | 301.0 | 300.5  | 300.0 | 299.0 | 298.0 | 294.0 | 293.0 | 20°    | 234.0  | 235.8  |
| 325.0  | 325.0 | 325.0  | 325.0 | 324.2  | 323.5 | 322.0 | 321.0 | 318.0 | 317.0 | 22.5°  | 209.2  | 211.0  |
| 348.0  | 348.0 | 348.0  | 348.0 | 347.2  | 346.5 | 345.0 | 345.0 | 341.0 | 339.0 | 25°    | 186.2  | 187.9  |
| 369.0  | 369.0 | 369.0  | 369.0 | 368.5  | 368.0 | 367.0 | 367.0 | 364.0 | 363.0 | 27.5°  | 161.3  | 163.1  |
| 390.0  | 390.0 | 390.0  | 390.0 | 389.8  | 389.5 | 389.0 | 388.0 | 386.0 | 385.0 | 30°    | 145.4  | 147.1  |
| 412.0  | 412.0 | 412.0  | 412.0 | 411.5  | 411.0 | 410.0 | 410.0 | 407.0 | 408.0 | 32.5°  | 131.2  | 133.0  |
| 433.2  | 433.5 | 433.8  | 434.0 | 433.5  | 433.0 | 432.0 | 431.0 | 428.0 | 428.0 | 35°    | 118.8  | 118.8  |
| 452.5  | 453.0 | 453.5  | 454.0 | 453.8  | 453.5 | 453.0 | 452.0 | 448.0 | 447.0 | 37.5°  | 109.9  | 109.9  |
| 469.5  | 470.0 | 470.5  | 471.0 | 470.8  | 470.5 | 470.0 | 469.0 | 465.0 | 464.0 | 40°    | 101.1  | 101.1  |
| 486.2  | 486.5 | 486.8  | 487.0 | 486.8  | 486.5 | 486.0 | 485.0 | 482.0 | 483.0 | 42.5°  | 95.7   | 95.7   |
| 503.2  | 503.5 | 503.8  | 504.0 | 503.8  | 503.5 | 503.0 | 503.0 | 501.0 | 502.0 | 45°    | 90.4   | 90.4   |
| 517.5  | 518.0 | 518.5  | 519.0 | 519.0  | 519.0 | 519.0 | 519.0 | 516.0 | 517.0 | 47.5°  | 85.1   | 85.1   |
| 530.5  | 531.0 | 531.5  | 532.0 | 532.0  | 532.0 | 532.0 | 532.0 | 529.0 | 529.0 | 50°    | 79.8   | 81.6   |
| 540.5  | 541.0 | 541.5  | 542.0 | 541.8  | 541.5 | 541.0 | 541.0 | 538.0 | 539.0 | 52.5°  | 74.5   | 74.5   |
| 550.8  | 551.5 | 552.2  | 553.0 | 552.8  | 552.5 | 552.0 | 552.0 | 548.0 | 549.0 | 55°    | 69.1   | 69.1   |
| 558.5  | 559.0 | 559.5  | 560.0 | 560.0  | 560.0 | 560.0 | 561.0 | 558.0 | 559.0 | 57.5°  | 63.8   | 65.6   |
| 564.2  | 564.5 | 564.8  | 565.0 | 565.2  | 565.5 | 566.0 | 567.0 | 565.0 | 566.0 | 60°    | 60.3   | 60.3   |
| 567.5  | 568.0 | 568.5  | 569.0 | 568.8  | 568.5 | 568.0 | 569.0 | 567.0 | 569.0 | 62.5°  | 56.7   | 56.7   |
| 570.8  | 571.5 | 572.2  | 573.0 | 572.8  | 572.5 | 572.0 | 572.0 | 569.0 | 570.0 | 65°    | 55.0   | 55.0   |
| 574.8  | 575.5 | 576.2  | 577.0 | 577.0  | 577.0 | 577.0 | 577.0 | 578.0 | 574.0 | 67.5°  | 51.4   | 51.4   |
| 576.0  | 576.0 | 576.0  | 576.0 | 576.0  | 576.0 | 576.0 | 576.0 | 576.0 | 576.0 | 70°    | 47.9   | 47.9   |
|        |       |        |       |        |       |       |       |       |       | 71°    | 46.1   | 46.1   |
|        |       |        |       |        |       |       |       |       |       | 72.5°  | 42.5   | 42.5   |
|        |       |        |       |        |       |       |       |       |       | 75°    | 37.2   | 35.5   |
|        |       |        |       |        |       |       |       |       |       | 77.5°  | 30.1   | 30.1   |
|        |       |        |       |        |       |       |       |       |       | 80°    | 23.0   | 21.3   |
|        |       |        |       |        |       |       |       |       |       | 82.5°  | 14.2   | 12.4   |
|        |       |        |       |        |       |       |       |       |       | 85°    | 5.3    | 3.5    |
|        |       |        |       |        |       |       |       |       |       | 87.5°  | 0.0    | 0.0    |
|        |       |        |       |        |       |       |       |       |       | 90°    | 0.0    | 0.0    |
|        |       |        |       |        |       |       |       |       |       | 92.5°  | 0.0    | 0.0    |
|        |       |        |       |        |       |       |       |       |       | 95°    | 1.0    | 1.0    |
|        |       |        |       |        |       |       |       |       |       | 97.5°  | 2.0    | 2.0    |
|        |       |        |       |        |       |       |       |       |       | 100°   | 8.0    | 8.0    |
|        |       |        |       |        |       |       |       |       |       | 102.5° | 28.0   | 28.0   |
|        |       |        |       |        |       |       |       |       |       | 105°   | 54.0   | 54.0   |
|        |       |        |       |        |       |       |       |       |       | 107.5° | 77.0   | 78.0   |



REPORT NUMBER: P228071

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

**CANDELA DISTRIBUTION (continued):**

|        | 175°  | 180°  |
|--------|-------|-------|
| 110°   | 102.0 | 101.0 |
| 112.5° | 124.0 | 124.0 |
| 115°   | 147.0 | 146.0 |
| 117.5° | 170.0 | 169.0 |
| 120°   | 195.0 | 193.0 |
| 122.5° | 220.0 | 219.0 |
| 125°   | 246.0 | 244.0 |
| 127.5° | 269.0 | 267.0 |
| 130°   | 292.0 | 290.0 |
| 132.5° | 314.0 | 313.0 |
| 135°   | 337.0 | 336.0 |
| 137.5° | 360.0 | 359.0 |
| 140°   | 383.0 | 382.0 |
| 142.5° | 406.0 | 404.0 |
| 145°   | 426.0 | 425.0 |
| 147.5° | 444.0 | 444.0 |
| 150°   | 462.0 | 461.0 |
| 152.5° | 480.0 | 479.0 |
| 155°   | 500.0 | 499.0 |
| 157.5° | 515.0 | 513.0 |
| 160°   | 527.0 | 525.0 |
| 162.5° | 536.0 | 535.0 |
| 165°   | 547.0 | 546.0 |
| 167.5° | 556.0 | 555.0 |
| 170°   | 563.0 | 562.0 |
| 172.5° | 566.0 | 565.0 |
| 175°   | 569.0 | 567.0 |
| 177.5° | 573.0 | 572.0 |
| 180°   | 576.0 | 576.0 |

(END OF REPORT)

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

Scaled Data Report

