

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: P271667

Luminaire Tested: **IST-AF-1000-LED-E1-T2-7027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271667  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35937)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: IST-AF-1000-LED-E1-T2-7027  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5259.5 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Cutoff  
BUG Rating: B1 - U1 - G1

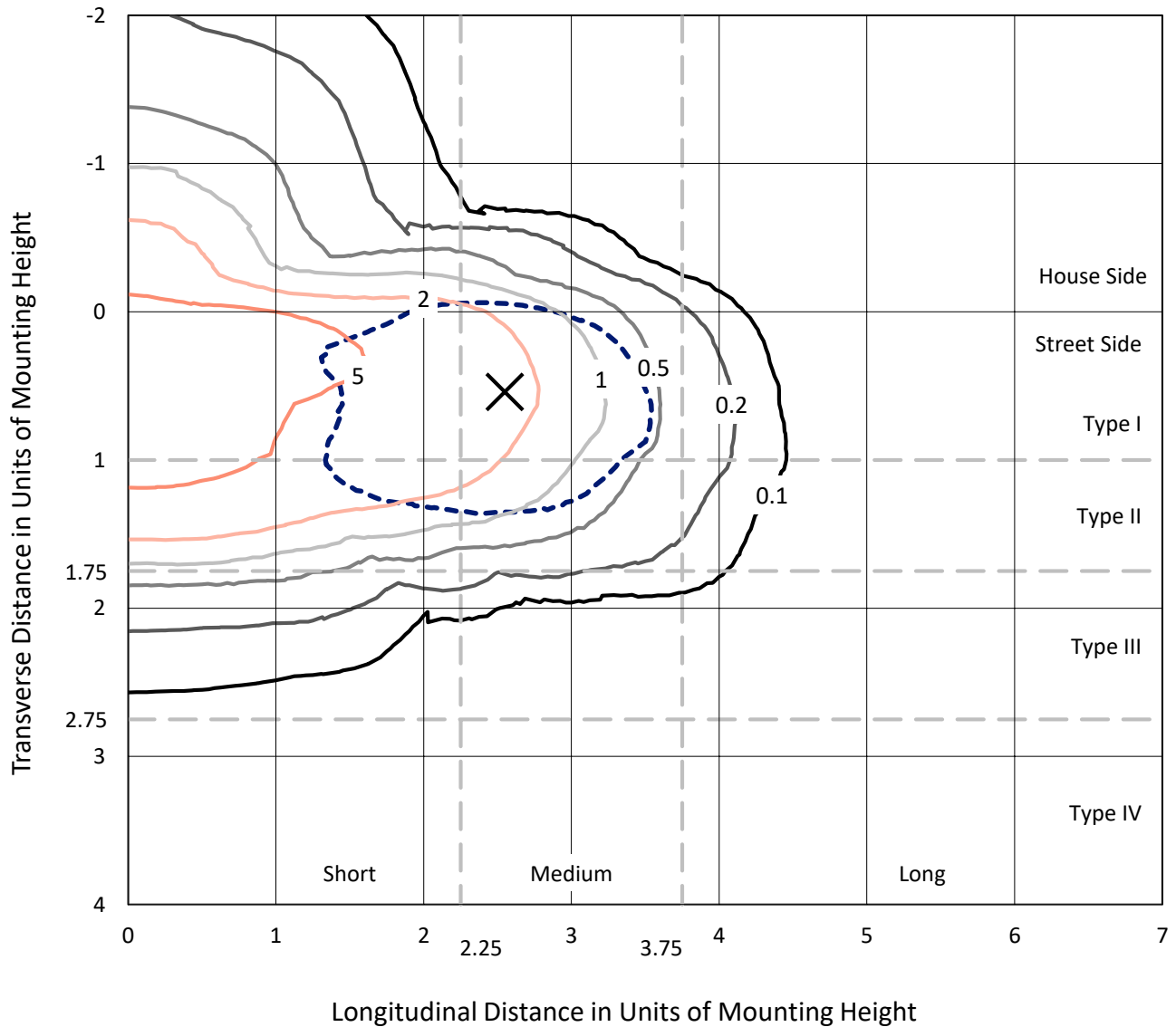
Input Watts (W): 54.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

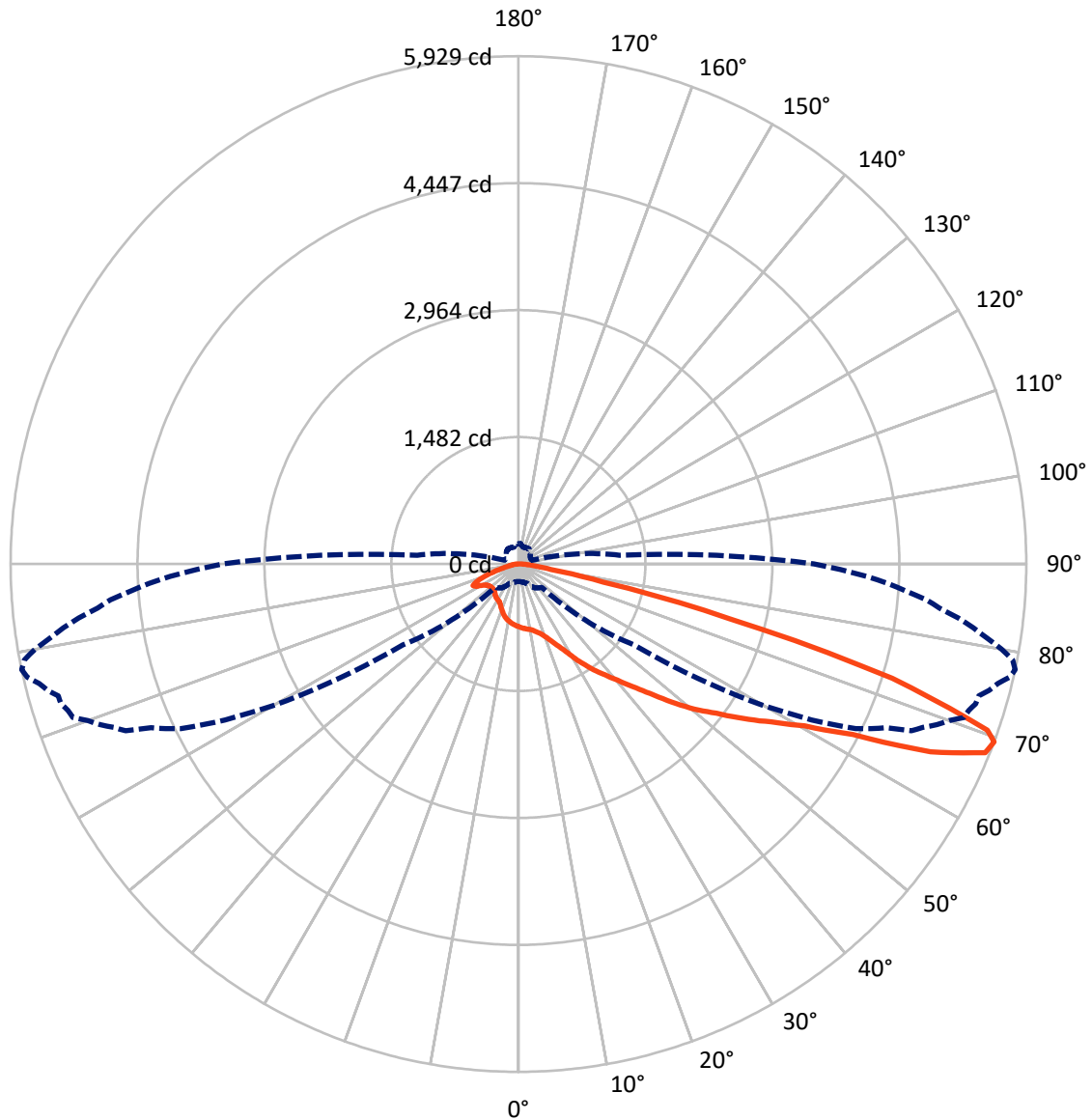
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Medium - 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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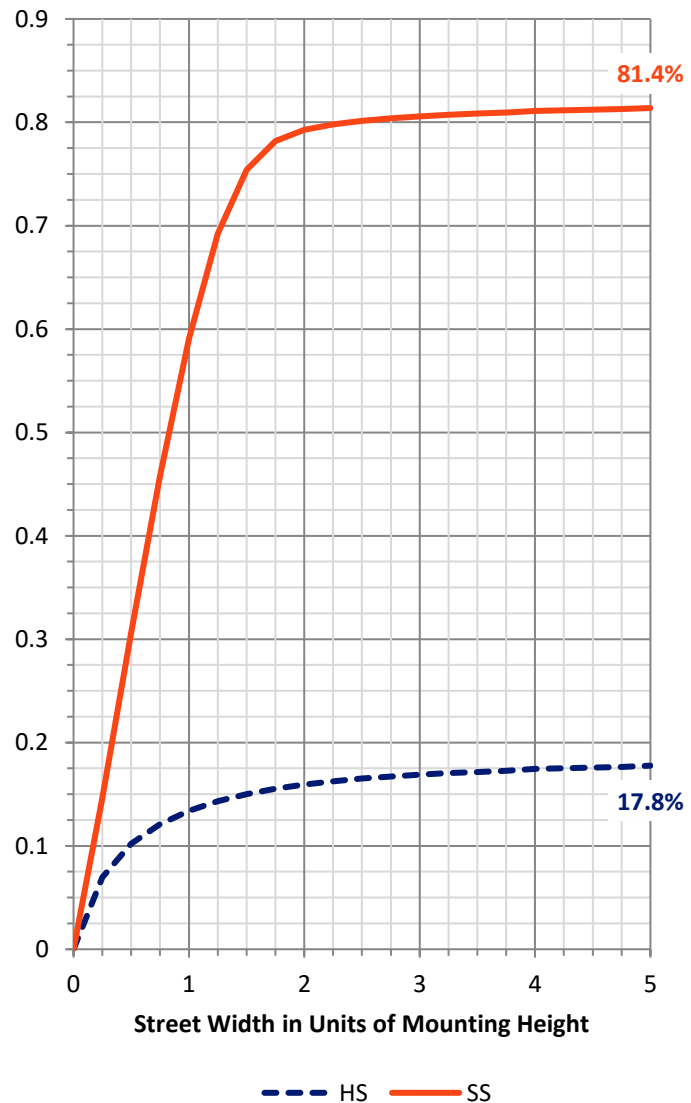
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 961.6    | 1.8    | 963.5  |
|                    | % Fixture | 18.3     | 0.0    | 18.3   |
| <b>Street Side</b> | Lumens    | 4295.2   | 0.9    | 4296.0 |
|                    | % Fixture | 81.7     | 0.0    | 81.7   |
| <b>Total</b>       | Lumens    | 5256.8   | 2.7    | 5259.5 |
|                    | % Fixture | 99.9     | 0.1    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 67.9   | 1.3       |
| 10°-20°   | 205.1  | 3.9       |
| 20°-30°   | 367.7  | 7.0       |
| 30°-40°   | 600.2  | 11.4      |
| 40°-50°   | 887.7  | 16.9      |
| 50°-60°   | 1159.1 | 22.0      |
| 60°-70°   | 1296.4 | 24.6      |
| 70°-80°   | 582.0  | 11.1      |
| 80°-90°   | 90.8   | 1.7       |
| 90°-100°  | 2.7    | 0.1       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5256.8 | 99.9      |
| 0°-180°   | 5259.5 | 100.0     |



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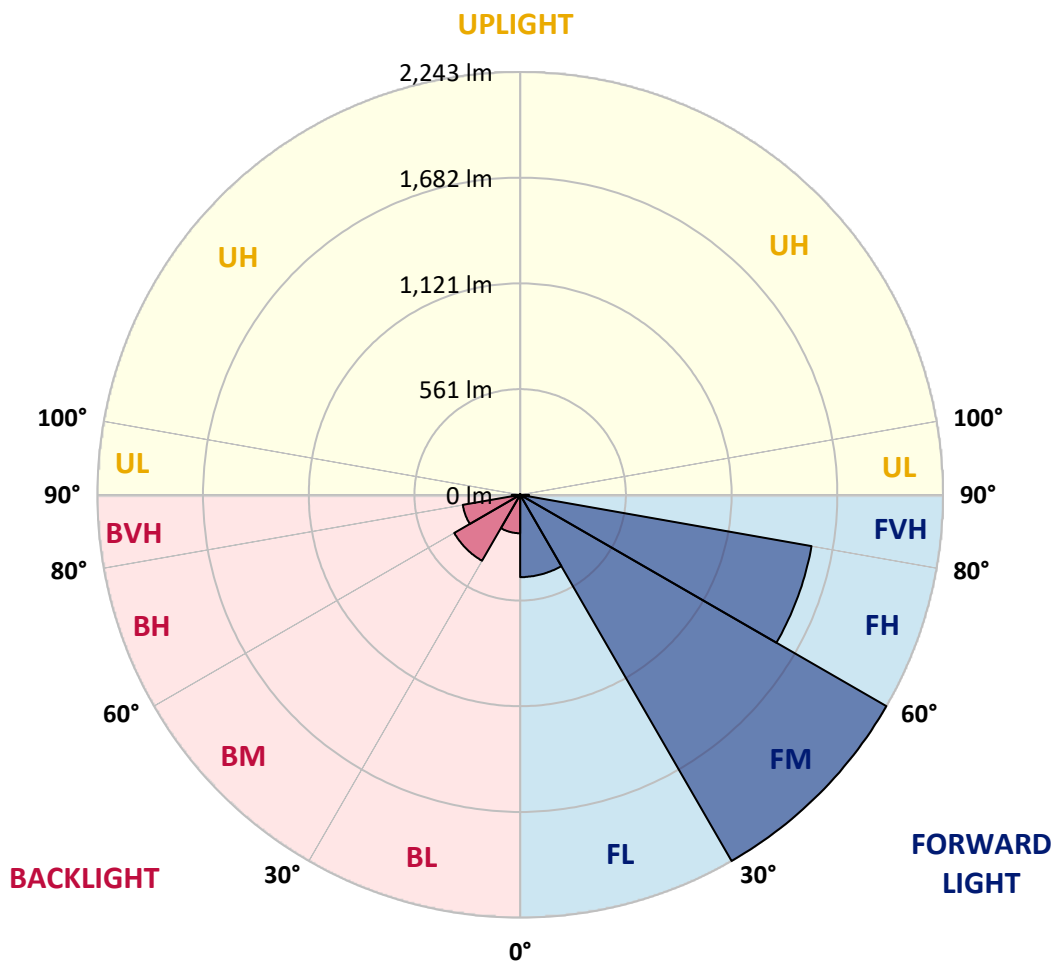
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 436.6  | 8.3       |                         |       |         |
| FM   | (30°-60°)   | 2243.0 | 42.6      |                         |       |         |
| FH   | (60°-80°)   | 1569.3 | 29.8      |                         |       | G1/1800 |
| FVH  | (80°-90°)   | 46.3   | 0.9       |                         |       | G1/100  |
| BL   | (0°-30°)    | 204.1  | 3.9       | B1/500                  |       |         |
| BM   | (30°-60°)   | 404.0  | 7.7       | B1/1000                 |       |         |
| BH   | (60°-80°)   | 309.1  | 5.9       | B1/500                  |       | G1/500  |
| BVH  | (80°-90°)   | 44.4   | 0.8       |                         |       | G1/100  |
| UL   | (90°-100°)  | 2.7    | 0.1       |                         | U1/10 |         |
| UH   | (100°-180°) | 1.8    | 0.0       |                         | U1/10 |         |

**BUG Rating: B1-U1-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 61°    | 62°    | 64°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  |
| 2.5°   | 783.3  | 783.3  | 781.1  | 779.5  | 777.2  | 771.1  | 762.0  | 760.4  | 759.7  | 758.2  | 756.6  |
| 5°     | 840.6  | 834.5  | 836.1  | 832.2  | 823.8  | 813.1  | 796.3  | 787.9  | 783.3  | 782.6  | 779.5  |
| 7.5°   | 887.2  | 888.0  | 885.7  | 878.0  | 866.5  | 853.6  | 830.8  | 817.7  | 814.0  | 811.6  | 806.3  |
| 10°    | 920.9  | 918.4  | 917.0  | 915.5  | 906.3  | 895.6  | 866.5  | 850.5  | 847.6  | 841.4  | 835.2  |
| 12.5°  | 945.3  | 945.3  | 945.3  | 943.7  | 938.4  | 929.9  | 907.1  | 891.0  | 887.2  | 878.8  | 873.4  |
| 15°    | 972.0  | 968.9  | 965.9  | 963.5  | 964.3  | 964.3  | 947.5  | 935.3  | 929.2  | 924.6  | 913.9  |
| 17.5°  | 1029.2 | 1022.3 | 1015.4 | 1006.3 | 991.8  | 988.0  | 987.2  | 986.5  | 978.1  | 977.3  | 966.6  |
| 20°    | 1078.1 | 1071.9 | 1065.9 | 1056.7 | 1036.0 | 1014.0 | 1025.3 | 1036.0 | 1034.6 | 1035.4 | 1030.0 |
| 22.5°  | 1138.4 | 1133.8 | 1121.6 | 1110.9 | 1084.2 | 1057.5 | 1059.0 | 1081.9 | 1085.0 | 1087.9 | 1089.6 |
| 25°    | 1220.9 | 1218.6 | 1198.7 | 1178.0 | 1147.6 | 1122.3 | 1098.6 | 1126.9 | 1133.0 | 1139.9 | 1153.6 |
| 27.5°  | 1304.1 | 1298.7 | 1277.4 | 1259.1 | 1220.9 | 1194.2 | 1161.3 | 1176.6 | 1185.8 | 1198.7 | 1220.1 |
| 30°    | 1411.8 | 1397.2 | 1389.6 | 1348.4 | 1313.2 | 1274.3 | 1246.1 | 1250.6 | 1249.1 | 1264.4 | 1297.2 |
| 32.5°  | 1567.5 | 1544.5 | 1506.4 | 1465.1 | 1423.9 | 1372.0 | 1348.4 | 1347.5 | 1343.8 | 1361.3 | 1379.7 |
| 35°    | 1651.4 | 1646.1 | 1622.5 | 1581.3 | 1536.2 | 1487.3 | 1472.1 | 1457.6 | 1459.8 | 1469.0 | 1475.8 |
| 37.5°  | 1742.4 | 1737.8 | 1719.4 | 1696.4 | 1662.1 | 1688.9 | 1604.1 | 1582.7 | 1572.8 | 1568.4 | 1570.6 |
| 40°    | 1782.1 | 1785.9 | 1795.8 | 1799.7 | 1779.7 | 1908.0 | 1740.8 | 1670.6 | 1667.5 | 1660.7 | 1653.8 |
| 42.5°  | 1790.4 | 1800.3 | 1820.2 | 1863.7 | 1882.8 | 2162.3 | 1853.8 | 1769.0 | 1756.8 | 1751.5 | 1752.2 |
| 45°    | 1821.0 | 1836.2 | 1840.1 | 1879.7 | 1969.8 | 2175.2 | 1981.3 | 1856.1 | 1846.9 | 1846.2 | 1841.5 |
| 47.5°  | 1895.1 | 1915.6 | 1915.6 | 1933.2 | 2018.7 | 2200.5 | 2024.8 | 1943.1 | 1937.0 | 1934.1 | 1946.2 |
| 50°    | 1905.8 | 1933.2 | 1988.2 | 2044.7 | 2106.5 | 2221.1 | 2074.5 | 2037.9 | 2040.1 | 2047.0 | 2082.9 |
| 52.5°  | 1724.7 | 1752.2 | 1897.3 | 2063.8 | 2265.3 | 2277.6 | 2149.4 | 2163.7 | 2179.1 | 2212.6 | 2278.3 |
| 55°    | 1478.9 | 1498.8 | 1670.6 | 1937.0 | 2271.5 | 2492.1 | 2337.1 | 2377.5 | 2409.6 | 2419.6 | 2522.7 |
| 57.5°  | 1164.3 | 1191.8 | 1366.7 | 1712.6 | 2121.1 | 2553.3 | 2769.3 | 2787.6 | 2751.7 | 2784.6 | 2821.9 |
| 60°    | 630.7  | 627.6  | 871.2  | 1238.4 | 1805.0 | 2440.2 | 3186.2 | 3500.8 | 3508.4 | 3558.7 | 3498.4 |
| 62.5°  | 352.8  | 352.8  | 423.0  | 636.0  | 1161.3 | 2064.6 | 3386.3 | 4117.7 | 4213.1 | 4293.3 | 4469.7 |
| 65°    | 266.4  | 268.8  | 293.9  | 383.3  | 652.0  | 1303.4 | 3239.6 | 4328.3 | 4511.6 | 4695.6 | 5004.9 |
| 67.5°  | 221.4  | 221.4  | 239.8  | 285.5  | 407.7  | 591.7  | 2385.2 | 3905.4 | 4134.4 | 4354.4 | 4781.9 |
| 69°    | 205.4  | 206.1  | 219.8  | 251.2  | 341.3  | 384.8  | 1647.7 | 3311.3 | 3573.3 | 3877.9 | 4381.8 |
| 70°    | 197.8  | 195.4  | 208.5  | 234.4  | 309.3  | 303.9  | 1207.1 | 2879.2 | 3082.4 | 3355.7 | 3935.1 |
| 72.5°  | 175.6  | 173.4  | 180.2  | 200.1  | 243.6  | 216.9  | 492.5  | 1549.1 | 1855.4 | 2161.5 | 2623.4 |
| 75°    | 156.6  | 154.1  | 159.6  | 168.7  | 189.4  | 165.6  | 247.3  | 648.9  | 785.7  | 1015.4 | 1401.1 |
| 77.5°  | 138.2  | 133.6  | 138.2  | 144.3  | 148.8  | 123.7  | 167.9  | 300.0  | 368.0  | 451.9  | 638.2  |
| 80°    | 125.2  | 120.6  | 126.0  | 122.9  | 116.8  | 95.4   | 111.5  | 174.8  | 193.9  | 232.1  | 303.9  |
| 82.5°  | 89.3   | 88.6   | 119.8  | 123.7  | 93.2   | 69.5   | 79.4   | 112.3  | 125.2  | 132.1  | 160.3  |
| 85°    | 55.0   | 52.7   | 69.5   | 88.6   | 94.7   | 43.5   | 51.1   | 66.5   | 69.5   | 75.5   | 89.3   |
| 87.5°  | 28.3   | 29.0   | 37.4   | 45.8   | 61.8   | 25.9   | 30.5   | 39.0   | 39.0   | 39.0   | 44.3   |
| 90°    | 6.8    | 8.4    | 11.5   | 16.0   | 12.9   | 6.8    | 11.5   | 9.2    | 10.7   | 9.2    | 10.7   |
| 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°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 64° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |





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**CANDELA DISTRIBUTION (continued):**

|        | 65°    | 66°    | 67°    | 68°    | 69°    | 70°    | 71°    | 72°    | 73°    | 74°    | 75°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  |
| 2.5°   | 757.5  | 755.1  | 752.2  | 752.8  | 751.3  | 749.0  | 749.7  | 749.0  | 749.7  | 748.3  | 746.7  |
| 5°     | 779.5  | 778.0  | 773.4  | 772.7  | 771.1  | 769.6  | 767.3  | 765.1  | 764.3  | 762.8  | 759.7  |
| 7.5°   | 804.7  | 800.2  | 797.9  | 794.8  | 791.0  | 784.8  | 784.1  | 781.1  | 778.8  | 777.2  | 773.4  |
| 10°    | 830.8  | 825.4  | 822.3  | 818.4  | 814.7  | 810.9  | 807.0  | 801.6  | 796.3  | 794.8  | 790.1  |
| 12.5°  | 869.6  | 862.8  | 856.6  | 850.5  | 846.7  | 839.8  | 834.5  | 827.7  | 822.3  | 820.1  | 812.3  |
| 15°    | 912.4  | 903.2  | 897.1  | 892.6  | 886.4  | 880.2  | 873.4  | 867.3  | 859.0  | 852.1  | 845.2  |
| 17.5°  | 962.8  | 954.4  | 949.8  | 941.4  | 933.8  | 926.9  | 921.6  | 913.9  | 907.1  | 894.8  | 888.7  |
| 20°    | 1029.2 | 1022.3 | 1017.0 | 1007.9 | 999.5  | 992.5  | 988.0  | 972.0  | 962.8  | 952.1  | 942.2  |
| 22.5°  | 1091.1 | 1091.8 | 1086.5 | 1080.4 | 1075.0 | 1065.9 | 1058.2 | 1046.7 | 1035.4 | 1022.3 | 1008.5 |
| 25°    | 1158.3 | 1164.3 | 1165.1 | 1163.7 | 1160.5 | 1149.9 | 1146.1 | 1134.6 | 1125.5 | 1104.1 | 1098.0 |
| 27.5°  | 1233.0 | 1239.9 | 1248.4 | 1259.1 | 1261.3 | 1249.9 | 1255.2 | 1243.7 | 1227.7 | 1218.6 | 1198.7 |
| 30°    | 1305.6 | 1324.7 | 1342.2 | 1354.5 | 1362.1 | 1367.5 | 1363.6 | 1359.9 | 1349.2 | 1333.8 | 1316.3 |
| 32.5°  | 1398.8 | 1418.6 | 1436.2 | 1462.9 | 1476.6 | 1493.4 | 1490.4 | 1491.9 | 1488.1 | 1472.8 | 1452.2 |
| 35°    | 1492.6 | 1510.2 | 1533.1 | 1550.7 | 1584.3 | 1602.7 | 1617.8 | 1617.1 | 1617.1 | 1608.0 | 1588.1 |
| 37.5°  | 1575.9 | 1585.8 | 1604.9 | 1633.9 | 1656.0 | 1685.1 | 1709.6 | 1719.4 | 1735.4 | 1736.2 | 1714.9 |
| 40°    | 1662.9 | 1672.8 | 1687.4 | 1708.8 | 1733.2 | 1767.5 | 1800.3 | 1832.5 | 1847.7 | 1863.7 | 1855.4 |
| 42.5°  | 1756.8 | 1767.5 | 1778.3 | 1792.0 | 1827.2 | 1853.8 | 1898.1 | 1941.7 | 1972.9 | 2005.7 | 2002.0 |
| 45°    | 1850.0 | 1862.3 | 1877.5 | 1898.1 | 1929.4 | 1972.9 | 2015.7 | 2064.6 | 2136.3 | 2175.2 | 2201.9 |
| 47.5°  | 1955.4 | 1975.2 | 2003.5 | 2036.3 | 2061.5 | 2106.5 | 2160.7 | 2236.3 | 2308.8 | 2376.1 | 2418.1 |
| 50°    | 2114.3 | 2121.8 | 2167.6 | 2199.7 | 2247.8 | 2293.6 | 2347.8 | 2414.3 | 2508.2 | 2576.9 | 2644.0 |
| 52.5°  | 2301.3 | 2330.2 | 2376.1 | 2412.7 | 2450.8 | 2496.7 | 2552.4 | 2612.0 | 2705.2 | 2782.2 | 2869.3 |
| 55°    | 2542.6 | 2583.7 | 2623.4 | 2643.4 | 2696.7 | 2737.9 | 2782.9 | 2841.8 | 2941.8 | 3025.9 | 3128.1 |
| 57.5°  | 2830.4 | 2871.6 | 2890.7 | 2919.7 | 2942.6 | 2988.4 | 3049.5 | 3089.2 | 3177.8 | 3264.8 | 3373.2 |
| 60°    | 3421.4 | 3395.3 | 3418.3 | 3373.2 | 3366.4 | 3370.1 | 3383.2 | 3413.6 | 3463.3 | 3544.3 | 3658.8 |
| 62.5°  | 4487.9 | 4450.6 | 4351.3 | 4315.4 | 4245.9 | 4152.0 | 4063.4 | 4051.3 | 4025.2 | 4086.3 | 4158.2 |
| 65°    | 5111.0 | 5246.9 | 5261.5 | 5299.6 | 5272.2 | 5198.9 | 5095.0 | 5061.3 | 4977.4 | 4918.6 | 4914.8 |
| 67.5°  | 4961.2 | 5165.2 | 5292.7 | 5453.8 | 5543.1 | 5630.1 | 5653.0 | 5682.9 | 5628.6 | 5601.9 | 5609.6 |
| 69°    | 4545.2 | 4696.4 | 4981.9 | 5092.0 | 5233.2 | 5349.1 | 5501.8 | 5528.6 | 5581.3 | 5589.0 | 5690.5 |
| 70°    | 4132.9 | 4355.2 | 4518.5 | 4683.4 | 4878.9 | 5006.3 | 5075.1 | 5188.1 | 5318.7 | 5382.7 | 5492.8 |
| 72.5°  | 2971.6 | 3044.2 | 3160.1 | 3373.9 | 3428.2 | 3560.3 | 3695.4 | 3791.7 | 3945.1 | 4053.5 | 4312.3 |
| 75°    | 1603.4 | 1647.0 | 1829.4 | 1950.8 | 1982.9 | 2026.4 | 2125.6 | 2149.4 | 2206.6 | 2241.7 | 2490.6 |
| 77.5°  | 732.2  | 798.6  | 822.3  | 888.7  | 851.3  | 869.6  | 893.4  | 888.0  | 904.1  | 980.4  | 1067.4 |
| 80°    | 337.4  | 350.5  | 359.6  | 387.1  | 388.7  | 382.5  | 384.8  | 381.0  | 378.0  | 390.1  | 399.4  |
| 82.5°  | 164.2  | 184.1  | 184.1  | 200.8  | 209.2  | 206.9  | 211.6  | 209.9  | 213.0  | 209.9  | 219.8  |
| 85°    | 96.2   | 96.2   | 103.8  | 113.0  | 111.5  | 114.5  | 114.5  | 120.6  | 121.5  | 122.9  | 122.9  |
| 87.5°  | 45.1   | 49.7   | 51.9   | 55.8   | 57.2   | 59.6   | 61.1   | 61.1   | 61.8   | 60.4   | 61.8   |
| 90°    | 11.5   | 11.5   | 19.0   | 19.0   | 20.6   | 22.9   | 19.9   | 21.4   | 26.7   | 19.9   | 25.2   |
| 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°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P271667

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7027

**CANDELA DISTRIBUTION (continued):**

|        | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° | 75° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P271667

CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7027

**CANDELA DISTRIBUTION (continued):**

|        | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    | 83°    | 84°    | 85°    | 86°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4  |
| 2.5°   | 745.2  | 746.7  | 746.0  | 742.9  | 742.1  | 742.1  | 740.7  | 739.8  | 738.4  | 737.6  | 739.0  |
| 5°     | 759.0  | 759.0  | 756.6  | 753.6  | 750.5  | 749.7  | 749.0  | 745.2  | 743.7  | 742.1  | 740.7  |
| 7.5°   | 771.9  | 770.4  | 767.3  | 762.0  | 759.0  | 758.2  | 755.1  | 751.3  | 747.5  | 744.4  | 742.9  |
| 10°    | 785.7  | 784.1  | 778.0  | 774.2  | 768.1  | 767.3  | 762.0  | 757.5  | 753.6  | 749.7  | 746.7  |
| 12.5°  | 805.5  | 804.1  | 797.2  | 787.9  | 783.3  | 780.3  | 773.4  | 768.1  | 762.8  | 758.2  | 752.8  |
| 15°    | 836.1  | 829.9  | 825.4  | 816.2  | 809.4  | 803.3  | 794.8  | 787.2  | 779.5  | 771.9  | 767.3  |
| 17.5°  | 878.8  | 870.4  | 858.2  | 852.9  | 843.7  | 833.8  | 822.3  | 817.0  | 807.0  | 797.9  | 788.7  |
| 20°    | 934.6  | 926.2  | 907.1  | 900.2  | 887.2  | 872.7  | 863.5  | 852.1  | 843.7  | 829.1  | 819.3  |
| 22.5°  | 996.4  | 988.8  | 970.3  | 952.1  | 939.9  | 928.5  | 913.9  | 899.5  | 883.4  | 869.6  | 859.0  |
| 25°    | 1076.6 | 1065.1 | 1049.1 | 1030.7 | 1012.4 | 996.4  | 976.5  | 956.0  | 942.2  | 923.1  | 907.7  |
| 27.5°  | 1185.8 | 1165.9 | 1139.2 | 1119.3 | 1104.8 | 1080.4 | 1056.0 | 1037.6 | 1016.3 | 991.0  | 974.2  |
| 30°    | 1304.1 | 1281.9 | 1262.1 | 1239.2 | 1214.8 | 1191.2 | 1157.5 | 1130.8 | 1107.9 | 1081.1 | 1053.6 |
| 32.5°  | 1435.4 | 1416.3 | 1388.2 | 1358.2 | 1331.6 | 1301.8 | 1277.4 | 1249.1 | 1209.4 | 1181.1 | 1152.2 |
| 35°    | 1567.5 | 1545.4 | 1516.4 | 1491.2 | 1460.6 | 1430.0 | 1402.5 | 1365.2 | 1329.3 | 1288.8 | 1248.4 |
| 37.5°  | 1695.0 | 1675.9 | 1643.9 | 1605.7 | 1579.0 | 1546.2 | 1517.9 | 1478.3 | 1435.4 | 1390.4 | 1359.9 |
| 40°    | 1837.0 | 1806.5 | 1784.3 | 1740.1 | 1712.6 | 1675.9 | 1635.5 | 1604.9 | 1563.7 | 1514.8 | 1471.3 |
| 42.5°  | 1999.6 | 1978.2 | 1954.6 | 1918.7 | 1889.8 | 1846.2 | 1795.0 | 1756.1 | 1717.9 | 1659.9 | 1599.5 |
| 45°    | 2205.8 | 2192.0 | 2153.1 | 2124.1 | 2085.1 | 2039.3 | 1995.0 | 1947.7 | 1887.4 | 1820.2 | 1765.3 |
| 47.5°  | 2453.2 | 2442.5 | 2407.4 | 2366.1 | 2315.0 | 2253.1 | 2211.9 | 2146.9 | 2095.8 | 2011.8 | 1946.2 |
| 50°    | 2677.7 | 2683.0 | 2663.9 | 2600.5 | 2554.7 | 2492.9 | 2428.0 | 2371.4 | 2292.8 | 2205.8 | 2121.8 |
| 52.5°  | 2945.6 | 2940.3 | 2892.3 | 2857.1 | 2802.9 | 2728.1 | 2657.1 | 2584.5 | 2498.3 | 2408.2 | 2303.5 |
| 55°    | 3202.2 | 3218.2 | 3184.6 | 3134.9 | 3069.3 | 2964.8 | 2892.9 | 2799.1 | 2708.2 | 2608.9 | 2488.2 |
| 57.5°  | 3451.1 | 3502.2 | 3476.4 | 3417.5 | 3350.3 | 3274.7 | 3180.0 | 3074.7 | 2980.8 | 2851.0 | 2715.0 |
| 60°    | 3761.0 | 3829.0 | 3839.7 | 3801.5 | 3728.2 | 3640.4 | 3516.0 | 3433.5 | 3304.4 | 3184.6 | 3080.0 |
| 62.5°  | 4238.2 | 4392.5 | 4383.4 | 4401.7 | 4349.8 | 4295.5 | 4149.7 | 4061.1 | 3893.2 | 3806.8 | 3661.0 |
| 65°    | 5035.4 | 5149.2 | 5285.9 | 5281.2 | 5245.3 | 5115.6 | 4964.3 | 4816.3 | 4705.5 | 4535.4 | 4383.4 |
| 67.5°  | 5704.2 | 5798.1 | 5879.0 | 5837.1 | 5754.6 | 5608.7 | 5431.6 | 5225.5 | 5056.8 | 4868.9 | 4669.7 |
| 69°    | 5766.8 | 5881.3 | 5928.7 | 5876.8 | 5728.6 | 5538.5 | 5365.3 | 5173.6 | 4941.5 | 4780.4 | 4537.6 |
| 70°    | 5598.9 | 5711.9 | 5807.4 | 5673.7 | 5537.8 | 5352.2 | 5162.9 | 4963.7 | 4756.0 | 4582.6 | 4337.6 |
| 72.5°  | 4447.5 | 4575.0 | 4562.0 | 4547.5 | 4439.1 | 4253.6 | 4079.5 | 3972.6 | 3826.7 | 3617.6 | 3440.4 |
| 75°    | 2586.0 | 2644.8 | 2541.8 | 2650.2 | 2520.4 | 2333.3 | 2357.7 | 2237.0 | 2130.2 | 2009.6 | 1916.4 |
| 77.5°  | 1015.4 | 1067.4 | 1013.2 | 995.6  | 937.7  | 924.6  | 827.7  | 839.1  | 791.0  | 696.4  | 652.8  |
| 80°    | 384.8  | 391.8  | 382.5  | 363.5  | 359.6  | 337.4  | 331.4  | 309.9  | 300.0  | 268.8  | 257.4  |
| 82.5°  | 206.9  | 210.7  | 204.6  | 198.5  | 193.9  | 181.0  | 172.6  | 156.6  | 147.3  | 137.4  | 136.6  |
| 85°    | 119.1  | 116.0  | 113.0  | 110.0  | 103.0  | 95.4   | 89.3   | 83.3   | 76.4   | 71.0   | 65.7   |
| 87.5°  | 62.6   | 63.4   | 64.0   | 61.1   | 56.5   | 50.3   | 46.6   | 44.3   | 39.0   | 36.7   | 34.3   |
| 90°    | 20.6   | 15.3   | 17.6   | 22.2   | 20.6   | 16.8   | 16.0   | 13.7   | 11.5   | 11.5   | 9.2    |
| 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°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P271667  
 CATALOG NUMBER: IST-AF-1000-LED-E1-T2-7027

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

|        | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | 86° |        |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--------|
| 110°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0°     |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.5°   |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5°     |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.5°   |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10°    |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.5°  |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15°    |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 17.5°  |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 20°    |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.5°  |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25°    |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 27.5°  |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 30°    |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 32.5°  |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 35°    |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.5°  |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 40°    |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 42.5°  |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 45°    |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47.5°  |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 50°    |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 52.5°  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 55°    |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 57.5°  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 60°    |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 62.5°  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 65°    |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 67.5°  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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: P271667  
 NUMBER: IST-AF-1000-LED-E1-T2-7027

REPORT NUMBER: P  
 CATALOG NUMBER:

**DISTRIBUTION (continued):**

**CANDELA DISTRIBUTION**

| 87°    | 88°    | 89°    | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 110°   | 87° |
|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|-----|
| 731.4  | 731.4  | 731.4  | 731.4  | 731.4  | 731.4 | 731.4 | 731.4 | 731.4 | 731.4 | 731.4 | 110°   | 0.0 |
| 736.8  | 736.8  | 734.5  | 732.9  | 727.6  | 718.5 | 709.3 | 700.9 | 689.4 | 684.9 | 678.8 | 112.5° | 0.0 |
| 739.0  | 737.6  | 735.3  | 732.2  | 721.5  | 700.2 | 678.0 | 654.3 | 629.9 | 607.7 | 581.8 | 115°   | 0.0 |
| 740.7  | 737.6  | 734.5  | 730.7  | 715.4  | 682.6 | 638.2 | 591.7 | 548.1 | 515.4 | 501.6 | 117.5° | 0.0 |
| 741.4  | 739.0  | 735.3  | 730.0  | 708.5  | 659.6 | 588.7 | 521.5 | 483.3 | 470.4 | 468.1 | 120°   | 0.0 |
| 749.7  | 746.0  | 739.8  | 733.7  | 705.5  | 634.6 | 533.0 | 468.7 | 453.6 | 459.7 | 470.4 | 122.5° | 0.0 |
| 760.4  | 755.8  | 748.3  | 742.1  | 703.9  | 601.7 | 478.8 | 439.0 | 444.4 | 461.2 | 478.8 | 125°   | 0.0 |
| 779.5  | 771.9  | 763.5  | 757.5  | 707.1  | 561.2 | 435.2 | 423.7 | 439.8 | 461.2 | 484.8 | 127.5° | 0.0 |
| 807.8  | 797.2  | 787.2  | 776.5  | 711.5  | 510.8 | 409.3 | 413.8 | 432.9 | 455.8 | 481.9 | 130°   | 0.0 |
| 842.9  | 830.8  | 817.0  | 800.9  | 716.9  | 467.3 | 394.7 | 403.1 | 420.7 | 440.6 | 461.9 | 132.5° | 0.0 |
| 890.3  | 873.4  | 855.9  | 836.1  | 724.6  | 420.0 | 381.8 | 390.9 | 401.6 | 413.1 | 423.7 | 135°   | 0.0 |
| 949.8  | 926.9  | 907.7  | 881.1  | 732.2  | 387.9 | 371.1 | 374.1 | 376.4 | 378.0 | 377.2 | 137.5° | 0.0 |
| 1029.2 | 994.2  | 972.0  | 939.1  | 740.7  | 371.1 | 358.9 | 355.0 | 351.1 | 345.8 | 339.8 | 140°   | 0.0 |
| 1113.2 | 1084.2 | 1049.1 | 1007.1 | 746.0  | 359.6 | 347.5 | 335.2 | 324.5 | 319.2 | 319.2 | 142.5° | 0.0 |
| 1210.9 | 1175.1 | 1130.8 | 1078.1 | 739.0  | 347.5 | 332.1 | 316.1 | 309.9 | 316.8 | 314.6 | 145°   | 0.0 |
| 1308.7 | 1259.1 | 1210.2 | 1149.9 | 722.2  | 333.7 | 315.3 | 307.0 | 311.5 | 302.4 | 297.0 | 147.5° | 0.0 |
| 1416.3 | 1361.3 | 1293.4 | 1223.1 | 697.8  | 319.2 | 307.0 | 311.5 | 295.5 | 284.9 | 289.3 | 150°   | 0.0 |
| 1537.0 | 1472.1 | 1398.8 | 1303.4 | 681.8  | 309.9 | 293.9 | 297.8 | 284.0 | 276.4 | 274.2 | 152.5° | 0.0 |
| 1701.1 | 1608.8 | 1519.4 | 1407.1 | 694.0  | 295.5 | 268.8 | 284.0 | 276.4 | 269.5 | 263.5 | 155°   | 0.0 |
| 1862.3 | 1763.7 | 1658.3 | 1526.3 | 715.4  | 284.9 | 248.9 | 269.5 | 274.9 | 263.5 | 252.0 | 157.5° | 0.0 |
| 2024.2 | 1919.5 | 1796.6 | 1649.2 | 741.4  | 277.9 | 233.6 | 252.0 | 271.1 | 257.4 | 248.1 | 160°   | 0.0 |
| 2194.3 | 2062.3 | 1936.3 | 1777.5 | 775.0  | 271.1 | 221.4 | 236.7 | 264.2 | 257.4 | 243.6 | 162.5° | 0.0 |
| 2373.1 | 2217.3 | 2091.3 | 1919.5 | 833.8  | 261.0 | 206.1 | 224.5 | 257.4 | 256.6 | 238.9 | 165°   | 0.0 |
| 2580.7 | 2441.8 | 2279.9 | 2105.0 | 915.5  | 249.7 | 192.3 | 215.3 | 251.2 | 253.5 | 233.6 | 167.5° | 0.0 |
| 2934.2 | 2790.7 | 2595.2 | 2428.7 | 1077.2 | 234.4 | 184.1 | 206.1 | 241.3 | 247.3 | 229.1 | 170°   | 0.0 |
| 3507.6 | 3312.1 | 3132.7 | 2976.9 | 1354.5 | 213.0 | 178.0 | 196.2 | 230.5 | 239.8 | 225.3 | 172.5° | 0.0 |
| 4165.0 | 3974.1 | 3757.3 | 3495.3 | 1508.7 | 193.1 | 169.5 | 184.1 | 219.8 | 232.1 | 221.4 | 175°   | 0.0 |
| 4444.5 | 4194.7 | 3931.3 | 3620.6 | 1361.3 | 177.1 | 160.3 | 172.6 | 207.7 | 221.4 | 216.1 | 177.5° | 0.0 |
| 4316.2 | 4063.4 | 3757.3 | 3452.6 | 1184.2 | 168.7 | 155.0 | 166.5 | 198.5 | 214.5 | 210.7 | 180°   | 0.0 |
| 4093.1 | 3839.0 | 3565.6 | 3199.9 | 1057.5 | 164.2 | 151.2 | 162.6 | 194.8 | 210.7 | 207.7 |        |     |
| 3237.3 | 3010.5 | 2758.5 | 2480.0 | 720.8  | 148.8 | 139.0 | 151.2 | 179.4 | 197.0 | 196.2 |        |     |
| 1715.7 | 1649.2 | 1462.9 | 1299.5 | 373.3  | 132.9 | 126.0 | 138.2 | 165.6 | 184.1 | 184.1 |        |     |
| 617.7  | 560.5  | 536.0  | 445.1  | 198.5  | 116.0 | 113.0 | 122.2 | 150.5 | 167.9 | 167.3 |        |     |
| 233.6  | 227.5  | 203.8  | 190.9  | 126.0  | 94.7  | 95.4  | 104.7 | 132.1 | 148.8 | 148.1 |        |     |
| 132.1  | 119.8  | 116.0  | 112.3  | 80.2   | 74.8  | 78.6  | 87.9  | 113.0 | 127.5 | 129.7 |        |     |
| 63.4   | 58.7   | 57.2   | 53.4   | 52.7   | 57.2  | 61.8  | 69.5  | 90.1  | 107.7 | 105.4 |        |     |
| 30.5   | 29.0   | 28.3   | 27.5   | 37.4   | 36.7  | 45.1  | 48.1  | 60.4  | 85.5  | 77.2  |        |     |
| 9.9    | 9.9    | 9.2    | 7.6    | 10.7   | 12.1  | 14.6  | 20.6  | 25.2  | 49.7  | 40.4  |        |     |
| 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   | 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    | 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   | 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   |        |     |

'271667  
 IST-AF-1000-LED-E1-T2-7027

REPORT NUMBER: P271667  
 CATALOG NUMBER: IST-AF-10

**TION (continued):**

**CANDELA DISTRIBUTION (con**

| 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° |        | 165°  | 175°  |
|-----|-----|-----|-----|------|------|------|------|------|------|--------|-------|-------|
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0°     | 731.4 | 731.4 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 2.5°   | 673.4 | 662.7 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 5°     | 562.7 | 561.2 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 7.5°   | 493.2 | 483.3 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 10°    | 470.4 | 469.5 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 12.5°  | 480.2 | 482.5 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 15°    | 493.2 | 497.8 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 17.5°  | 501.6 | 510.1 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 20°    | 499.4 | 509.2 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 22.5°  | 474.1 | 478.8 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 25°    | 429.1 | 430.6 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 27.5°  | 375.0 | 373.3 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 30°    | 336.8 | 326.8 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 32.5°  | 319.2 | 313.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 35°    | 307.0 | 297.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 37.5°  | 318.4 | 317.6 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 40°    | 329.0 | 327.5 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 42.5°  | 310.7 | 297.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 45°    | 277.1 | 261.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 47.5°  | 254.2 | 245.1 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 50°    | 243.6 | 240.5 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 52.5°  | 240.5 | 248.1 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 55°    | 238.9 | 247.3 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 57.5°  | 228.3 | 242.8 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 60°    | 220.6 | 238.2 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 62.5°  | 216.1 | 236.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 65°    | 212.3 | 237.4 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 67.5°  | 206.1 | 242.0 |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 69°    | 203.1 | 241.3 |
|     |     |     |     |      |      |      |      |      |      | 70°    | 200.1 | 238.9 |
|     |     |     |     |      |      |      |      |      |      | 72.5°  | 189.4 | 220.6 |
|     |     |     |     |      |      |      |      |      |      | 75°    | 176.3 | 194.8 |
|     |     |     |     |      |      |      |      |      |      | 77.5°  | 159.6 | 167.3 |
|     |     |     |     |      |      |      |      |      |      | 80°    | 141.2 | 145.9 |
|     |     |     |     |      |      |      |      |      |      | 82.5°  | 122.9 | 140.5 |
|     |     |     |     |      |      |      |      |      |      | 85°    | 96.2  | 119.1 |
|     |     |     |     |      |      |      |      |      |      | 87.5°  | 71.0  | 65.7  |
|     |     |     |     |      |      |      |      |      |      | 90°    | 40.4  | 29.7  |
|     |     |     |     |      |      |      |      |      |      | 92.5°  | 0.0   | 0.0   |
|     |     |     |     |      |      |      |      |      |      | 95°    | 0.0   | 0.0   |
|     |     |     |     |      |      |      |      |      |      | 97.5°  | 0.0   | 0.0   |
|     |     |     |     |      |      |      |      |      |      | 100°   | 0.0   | 0.0   |
|     |     |     |     |      |      |      |      |      |      | 102.5° | 0.0   | 0.0   |
|     |     |     |     |      |      |      |      |      |      | 105°   | 0.0   | 0.0   |
|     |     |     |     |      |      |      |      |      |      | 107.5° | 0.0   | 0.0   |



REPORT NUMBER: P271667

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

00-LED-E1-T2-7027

**tinued):**

| 180°  |
|-------|
| 731.4 |
| 665.0 |
| 556.6 |
| 484.1 |
| 471.9 |
| 481.0 |
| 499.4 |
| 513.1 |
| 511.6 |
| 482.5 |
| 432.2 |
| 379.4 |
| 334.3 |
| 319.9 |
| 301.7 |
| 321.4 |
| 330.6 |
| 300.0 |
| 261.0 |
| 243.6 |
| 238.9 |
| 250.4 |
| 246.7 |
| 243.6 |
| 238.9 |
| 235.2 |
| 234.4 |
| 236.0 |
| 232.9 |
| 229.1 |
| 206.1 |
| 185.5 |
| 167.3 |
| 147.3 |
| 124.4 |
| 93.2  |
| 71.0  |
| 25.2  |
| 0.0   |
| 0.0   |
| 0.0   |
| 0.0   |
| 0.0   |
| 0.0   |
| 0.0   |
| 0.0   |
| 0.0   |

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 175° | 180° |
|--------|------|------|------|
| 110°   | 0.0  | 0.0  | 0.0  |
| 112.5° | 0.0  | 0.0  | 0.0  |
| 115°   | 0.0  | 0.0  | 0.0  |
| 117.5° | 0.0  | 0.0  | 0.0  |
| 120°   | 0.0  | 0.0  | 0.0  |
| 122.5° | 0.0  | 0.0  | 0.0  |
| 125°   | 0.0  | 0.0  | 0.0  |
| 127.5° | 0.0  | 0.0  | 0.0  |
| 130°   | 0.0  | 0.0  | 0.0  |
| 132.5° | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  |
| 162.5° | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  |

(END OF F

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

Scaled Data Report

