

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: P226533

Luminaire Tested: **ISW-AF-600-LED-E1-T4FT-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P226533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35943)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: ISW-AF-600-LED-E1-T4FT-7050  
Description: IMPACT ELITE LED WEDGE LUMINAIRE  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW  
Light Source: (16) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4144.9 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U1 - G1

Input Watts (W): 33.7  
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

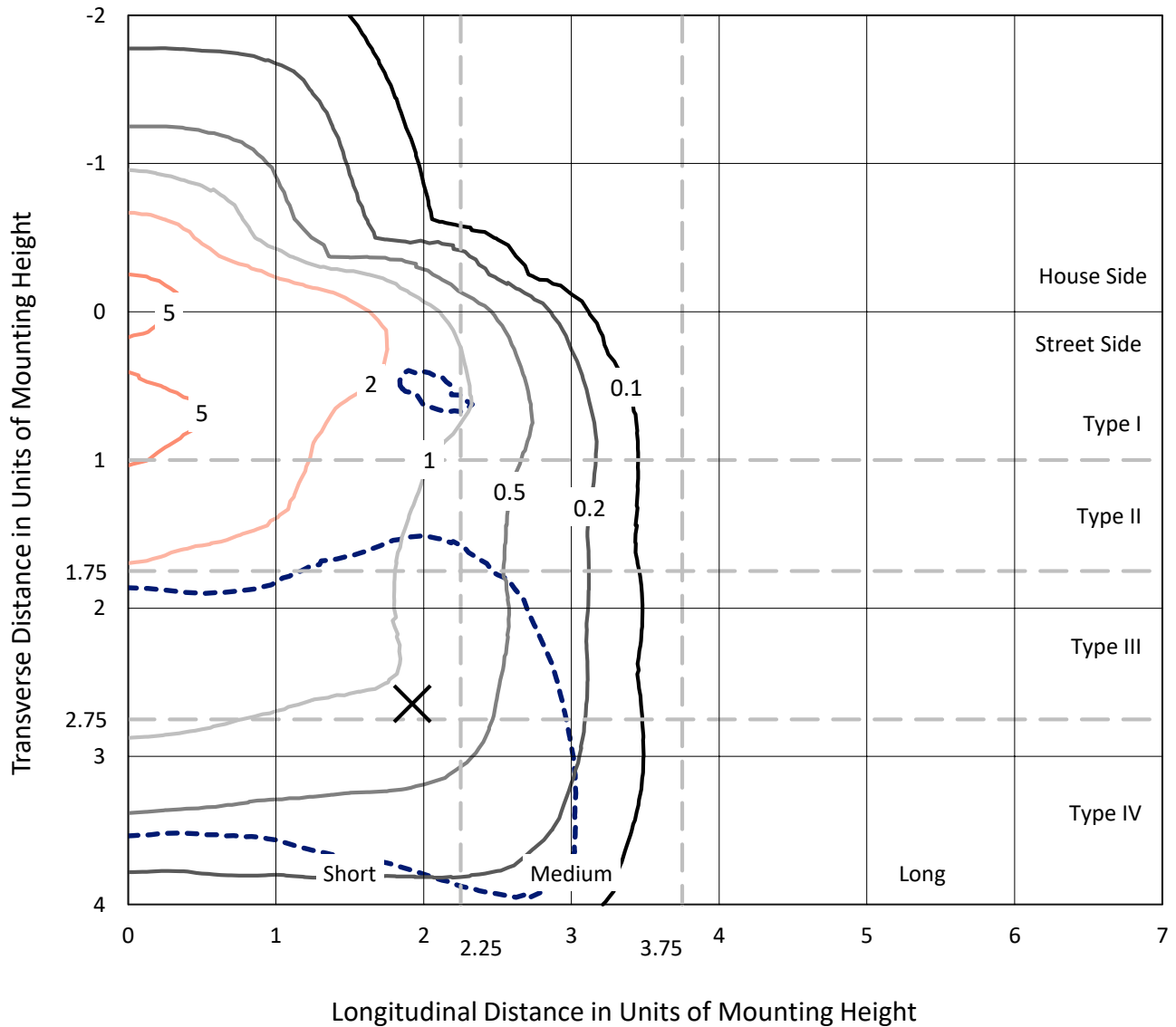


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### Iso-Footcandle Lines of Horizontal Illumination

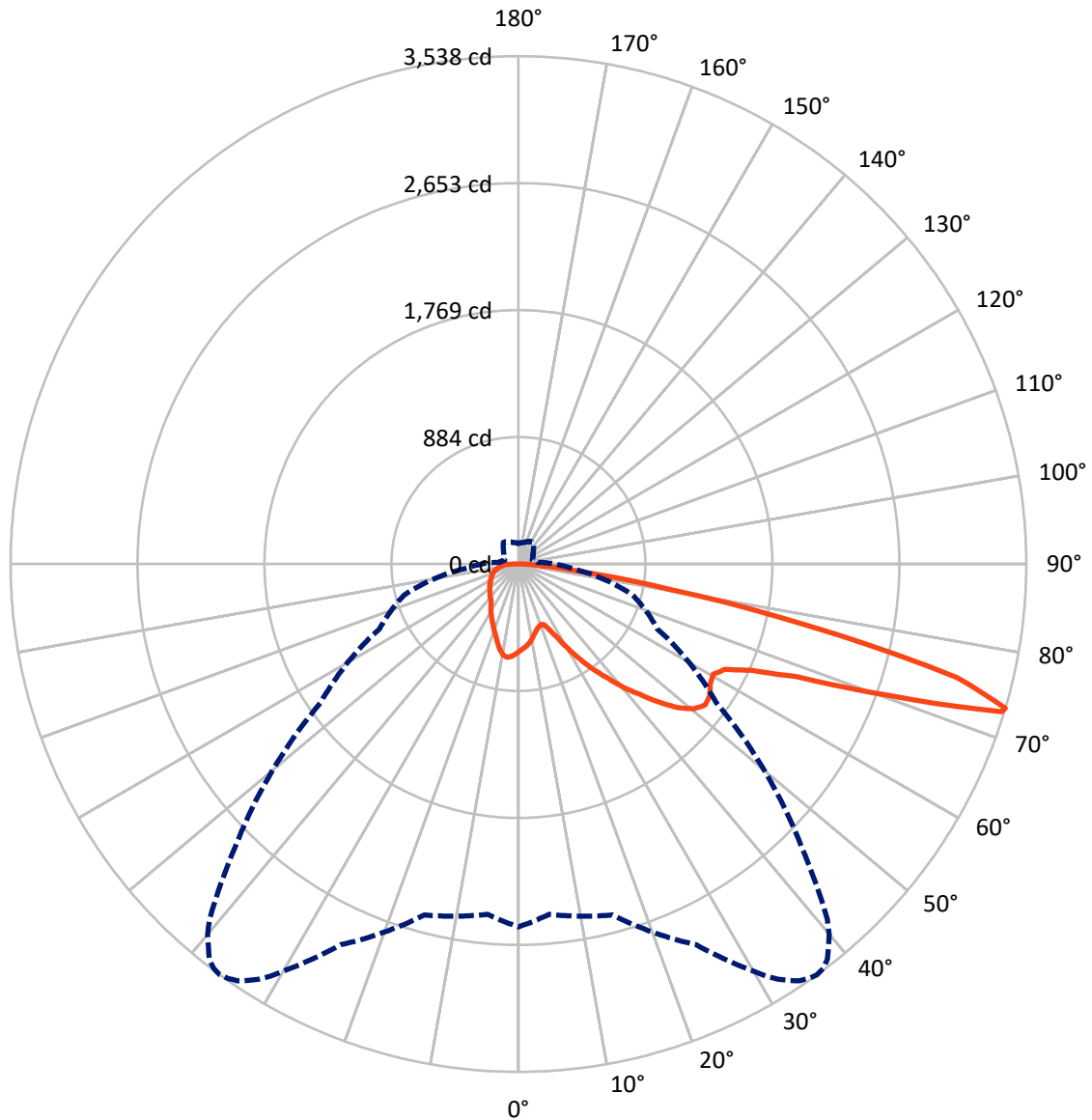
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 874.0    | 1.0    | 874.9  |
|                    | % Fixture | 21.1     | 0.0    | 21.1   |
| <b>Street Side</b> | Lumens    | 3269.6   | 0.3    | 3270.0 |
|                    | % Fixture | 78.9     | 0.0    | 78.9   |
| <b>Total</b>       | Lumens    | 4143.6   | 1.3    | 4144.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 57.3   | 1.4       |
| 10°-20°   | 151.8  | 3.7       |
| 20°-30°   | 248.8  | 6.0       |
| 30°-40°   | 412.3  | 9.9       |
| 40°-50°   | 605.9  | 14.6      |
| 50°-60°   | 764.0  | 18.4      |
| 60°-70°   | 1000.4 | 24.1      |
| 70°-80°   | 809.8  | 19.5      |
| 80°-90°   | 93.2   | 2.2       |
| 90°-100°  | 1.3    | 0.0       |
| 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°    | 4143.6 | 100.0     |
| 0°-180°   | 4144.9 | 100.0     |



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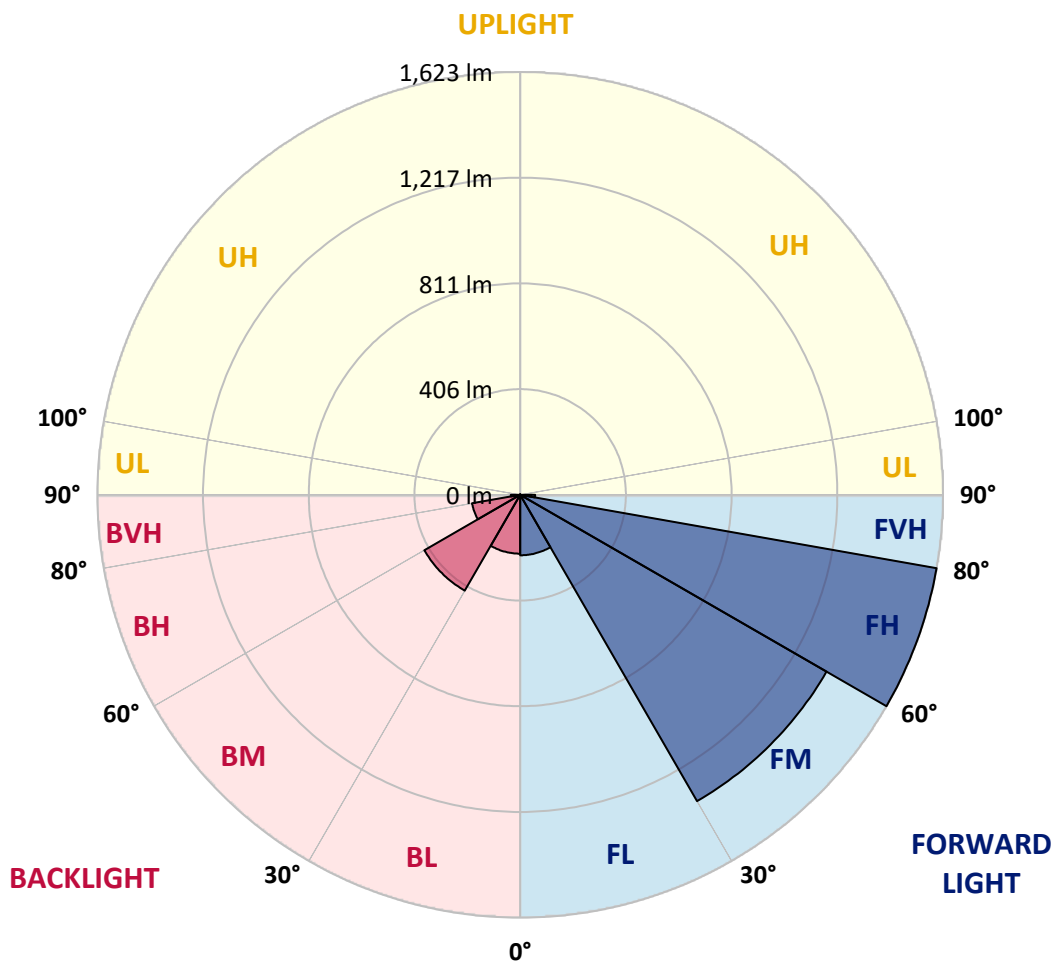
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|------|-------------|--------|-----------|-------------------------|-------|---------|
|      |             |        |           | B                       | U     | G       |
| FL   | (0°-30°)    | 232.0  | 5.6       |                         |       |         |
| FM   | (30°-60°)   | 1357.4 | 32.7      |                         |       |         |
| FH   | (60°-80°)   | 1622.7 | 39.2      |                         |       | G1/1800 |
| FVH  | (80°-90°)   | 57.5   | 1.4       |                         |       | G1/100  |
| BL   | (0°-30°)    | 225.9  | 5.5       | B1/500                  |       |         |
| BM   | (30°-60°)   | 424.8  | 10.2      | B1/1000                 |       |         |
| BH   | (60°-80°)   | 187.5  | 4.5       | B1/500                  |       | G1/500  |
| BVH  | (80°-90°)   | 35.7   | 0.9       |                         |       | G1/100  |
| UL   | (90°-100°)  | 1.3    | 0.0       |                         | U1/10 |         |
| UH   | (100°-180°) | 1.0    | 0.0       |                         | U1/10 |         |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 30°    | 31°    | 32°    | 33°    | 34°    | 35°    | 36°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  |
| 2.5°   | 586.8  | 587.9  | 589.1  | 589.1  | 589.1  | 590.9  | 590.3  | 590.3  | 590.9  | 591.5  | 591.5  |
| 5°     | 564.8  | 565.4  | 568.9  | 570.1  | 573.7  | 573.1  | 573.1  | 573.1  | 575.5  | 573.7  | 574.9  |
| 7.5°   | 539.8  | 541.0  | 544.6  | 548.7  | 551.7  | 552.3  | 551.7  | 550.5  | 553.5  | 554.7  | 553.5  |
| 10°    | 510.1  | 510.7  | 515.5  | 519.1  | 523.8  | 523.2  | 525.0  | 525.0  | 526.2  | 525.6  | 528.0  |
| 12.5°  | 495.3  | 494.1  | 491.7  | 493.5  | 494.7  | 494.7  | 494.7  | 496.5  | 495.9  | 497.1  | 498.9  |
| 15°    | 493.5  | 490.5  | 478.7  | 474.5  | 473.3  | 473.3  | 472.7  | 472.1  | 473.9  | 475.7  | 475.7  |
| 17.5°  | 501.8  | 495.9  | 472.7  | 460.9  | 458.5  | 457.3  | 457.9  | 456.7  | 456.7  | 459.1  | 458.5  |
| 20°    | 542.2  | 531.5  | 485.2  | 459.1  | 451.9  | 451.9  | 451.3  | 449.6  | 449.6  | 450.2  | 450.2  |
| 22.5°  | 645.0  | 631.3  | 550.5  | 496.5  | 471.5  | 470.9  | 469.2  | 467.4  | 462.6  | 461.4  | 459.1  |
| 25°    | 788.1  | 772.0  | 633.7  | 575.5  | 540.4  | 539.2  | 530.3  | 529.1  | 517.9  | 518.5  | 510.7  |
| 27.5°  | 899.1  | 888.4  | 744.7  | 667.5  | 634.3  | 627.1  | 623.0  | 612.3  | 602.8  | 595.1  | 585.6  |
| 30°    | 937.1  | 935.4  | 857.0  | 794.6  | 744.7  | 736.4  | 725.1  | 720.4  | 706.7  | 696.0  | 689.5  |
| 32.5°  | 997.1  | 998.9  | 966.2  | 897.4  | 854.0  | 845.7  | 836.2  | 824.9  | 815.4  | 808.3  | 792.8  |
| 35°    | 1082.6 | 1083.2 | 1060.7 | 1009.0 | 959.1  | 947.8  | 942.5  | 929.4  | 920.5  | 911.6  | 903.9  |
| 37.5°  | 1142.0 | 1145.0 | 1129.0 | 1089.2 | 1059.5 | 1043.4 | 1042.9 | 1033.4 | 1023.3 | 1015.5 | 1008.4 |
| 40°    | 1256.1 | 1240.0 | 1187.2 | 1161.6 | 1137.3 | 1135.5 | 1130.2 | 1124.8 | 1127.2 | 1123.0 | 1130.7 |
| 42.5°  | 1371.3 | 1351.1 | 1277.4 | 1241.2 | 1226.4 | 1229.3 | 1227.6 | 1228.1 | 1235.3 | 1233.5 | 1241.8 |
| 45°    | 1469.9 | 1446.7 | 1376.6 | 1333.9 | 1345.7 | 1349.3 | 1359.4 | 1365.3 | 1362.4 | 1373.1 | 1373.1 |
| 47.5°  | 1568.4 | 1514.4 | 1431.3 | 1450.8 | 1459.2 | 1486.5 | 1493.6 | 1491.8 | 1501.9 | 1506.7 | 1493.6 |
| 50°    | 1499.0 | 1484.7 | 1478.2 | 1538.1 | 1575.6 | 1584.5 | 1594.6 | 1599.9 | 1604.7 | 1598.1 | 1585.1 |
| 52.5°  | 1352.3 | 1351.1 | 1443.1 | 1589.8 | 1621.3 | 1633.2 | 1642.7 | 1646.8 | 1645.0 | 1641.5 | 1630.8 |
| 55°    | 1303.0 | 1293.5 | 1373.1 | 1536.4 | 1584.5 | 1595.8 | 1609.4 | 1617.7 | 1626.0 | 1624.9 | 1616.5 |
| 57.5°  | 1370.1 | 1362.4 | 1363.0 | 1489.5 | 1536.4 | 1546.5 | 1555.4 | 1564.9 | 1567.2 | 1575.0 | 1575.6 |
| 60°    | 1564.9 | 1554.8 | 1473.4 | 1487.7 | 1535.2 | 1546.5 | 1547.7 | 1553.0 | 1553.6 | 1557.7 | 1558.3 |
| 62.5°  | 1845.8 | 1827.4 | 1703.2 | 1596.4 | 1613.0 | 1618.3 | 1622.5 | 1621.3 | 1618.9 | 1615.9 | 1615.9 |
| 65°    | 2153.4 | 2136.2 | 1976.4 | 1851.7 | 1803.6 | 1816.7 | 1795.9 | 1791.7 | 1787.0 | 1787.0 | 1781.6 |
| 67.5°  | 2519.2 | 2486.6 | 2363.0 | 2222.9 | 2153.4 | 2159.9 | 2169.4 | 2133.2 | 2120.2 | 2121.3 | 2093.4 |
| 70°    | 2892.2 | 2857.8 | 2803.7 | 2801.9 | 2837.0 | 2821.5 | 2777.6 | 2835.8 | 2766.9 | 2750.3 | 2744.3 |
| 72.5°  | 2686.1 | 2645.1 | 2656.4 | 2992.0 | 3306.7 | 3357.8 | 3406.5 | 3451.6 | 3492.0 | 3516.4 | 3519.9 |
| 73°    | 2528.1 | 2450.3 | 2531.1 | 2925.5 | 3274.7 | 3350.1 | 3410.7 | 3458.8 | 3502.1 | 3524.1 | 3537.7 |
| 75°    | 1262.6 | 1266.7 | 1664.6 | 2413.5 | 2861.9 | 2926.6 | 3021.1 | 3073.9 | 3152.3 | 3192.7 | 3157.1 |
| 77.5°  | 292.8  | 303.5  | 504.2  | 1145.6 | 1715.7 | 1808.4 | 1883.8 | 1961.0 | 2051.9 | 2085.7 | 2056.0 |
| 80°    | 103.3  | 108.1  | 177.6  | 435.3  | 716.2  | 767.3  | 832.0  | 917.0  | 1001.3 | 1022.1 | 1074.3 |
| 82.5°  | 54.6   | 60.0   | 93.8   | 188.9  | 305.8  | 334.4  | 351.0  | 386.0  | 415.7  | 433.5  | 443.0  |
| 85°    | 31.5   | 32.1   | 53.4   | 104.5  | 140.2  | 151.4  | 162.1  | 170.4  | 179.9  | 173.4  | 173.4  |
| 87.5°  | 12.5   | 13.7   | 27.3   | 49.3   | 67.7   | 75.4   | 75.4   | 75.4   | 74.8   | 65.9   | 60.0   |
| 90°    | 2.4    | 3.6    | 5.3    | 10.1   | 8.9    | 8.9    | 8.3    | 7.1    | 6.5    | 7.1    | 4.2    |
| 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    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 30° | 31° | 32° | 33° | 34° | 35° | 36° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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):**

|        | 37°    | 38°    | 39°    | 40°    | 41°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  | 608.7  |
| 2.5°   | 592.7  | 593.3  | 592.1  | 594.5  | 592.7  | 592.7  | 595.7  | 601.0  | 605.2  | 606.4  | 609.9  |
| 5°     | 576.1  | 576.7  | 576.7  | 577.3  | 576.7  | 577.8  | 583.2  | 587.9  | 596.3  | 600.4  | 605.8  |
| 7.5°   | 554.7  | 556.5  | 555.9  | 557.1  | 557.1  | 558.2  | 566.6  | 574.3  | 582.6  | 590.3  | 596.8  |
| 10°    | 529.1  | 530.3  | 532.7  | 531.5  | 531.5  | 535.1  | 544.0  | 555.3  | 565.4  | 576.7  | 584.4  |
| 12.5°  | 498.9  | 501.8  | 501.2  | 503.6  | 504.8  | 507.2  | 522.0  | 534.5  | 547.0  | 560.0  | 570.1  |
| 15°    | 475.1  | 476.9  | 478.1  | 478.7  | 478.7  | 484.0  | 498.9  | 514.3  | 530.9  | 546.4  | 557.1  |
| 17.5°  | 459.7  | 459.7  | 460.9  | 461.4  | 462.6  | 466.2  | 481.6  | 498.9  | 517.9  | 536.9  | 548.7  |
| 20°    | 450.8  | 450.8  | 451.3  | 451.9  | 451.9  | 456.1  | 470.4  | 490.0  | 510.7  | 535.1  | 549.3  |
| 22.5°  | 457.9  | 456.1  | 455.5  | 455.5  | 453.1  | 453.1  | 466.8  | 487.6  | 513.7  | 545.2  | 563.6  |
| 25°    | 506.6  | 501.2  | 492.9  | 491.1  | 488.2  | 473.9  | 472.1  | 495.9  | 528.0  | 567.2  | 595.1  |
| 27.5°  | 579.6  | 574.3  | 568.9  | 562.4  | 557.7  | 531.5  | 495.9  | 517.3  | 555.3  | 611.1  | 645.5  |
| 30°    | 675.2  | 664.6  | 656.8  | 649.7  | 628.9  | 600.4  | 545.2  | 550.5  | 597.4  | 672.3  | 715.6  |
| 32.5°  | 782.1  | 770.9  | 759.0  | 742.4  | 737.0  | 690.7  | 620.0  | 605.8  | 650.9  | 743.5  | 788.7  |
| 35°    | 885.5  | 880.1  | 871.8  | 865.3  | 852.8  | 814.2  | 717.4  | 672.3  | 712.7  | 827.3  | 862.3  |
| 37.5°  | 1005.4 | 995.3  | 995.9  | 990.6  | 983.5  | 950.8  | 818.4  | 752.4  | 779.2  | 907.4  | 929.4  |
| 40°    | 1123.6 | 1121.2 | 1124.8 | 1115.9 | 1104.0 | 1060.1 | 892.6  | 811.2  | 848.7  | 984.7  | 979.3  |
| 42.5°  | 1235.3 | 1237.1 | 1232.9 | 1222.8 | 1209.7 | 1136.1 | 940.1  | 861.1  | 911.0  | 1052.4 | 1019.1 |
| 45°    | 1363.0 | 1356.4 | 1339.2 | 1321.4 | 1305.3 | 1201.4 | 965.6  | 917.0  | 971.0  | 1125.4 | 1059.5 |
| 47.5°  | 1483.5 | 1458.0 | 1443.1 | 1415.8 | 1384.3 | 1260.8 | 1000.1 | 975.7  | 1037.5 | 1194.3 | 1098.1 |
| 50°    | 1572.0 | 1548.2 | 1523.3 | 1490.0 | 1456.8 | 1312.5 | 1045.8 | 1042.3 | 1112.9 | 1271.5 | 1150.9 |
| 52.5°  | 1612.4 | 1590.4 | 1566.1 | 1532.2 | 1499.0 | 1349.9 | 1107.0 | 1107.0 | 1202.0 | 1373.6 | 1224.0 |
| 55°    | 1605.9 | 1589.8 | 1568.4 | 1537.6 | 1512.0 | 1370.1 | 1169.9 | 1178.3 | 1313.7 | 1484.1 | 1308.3 |
| 57.5°  | 1571.4 | 1562.5 | 1550.0 | 1528.6 | 1507.9 | 1385.5 | 1244.2 | 1249.5 | 1463.3 | 1590.4 | 1387.9 |
| 60°    | 1559.5 | 1556.0 | 1548.8 | 1536.4 | 1520.3 | 1419.4 | 1323.2 | 1335.0 | 1630.8 | 1687.8 | 1433.0 |
| 62.5°  | 1612.4 | 1605.3 | 1599.9 | 1587.4 | 1572.6 | 1502.5 | 1422.3 | 1425.9 | 1788.2 | 1699.7 | 1389.1 |
| 65°    | 1760.9 | 1747.8 | 1738.9 | 1722.3 | 1705.6 | 1627.8 | 1548.8 | 1510.2 | 1865.4 | 1588.6 | 1240.0 |
| 67.5°  | 2072.0 | 2050.7 | 2025.1 | 1993.7 | 1947.9 | 1877.8 | 1674.1 | 1522.1 | 1795.3 | 1345.7 | 978.1  |
| 70°    | 2687.3 | 2641.0 | 2582.2 | 2515.1 | 2497.9 | 2293.6 | 1752.5 | 1434.2 | 1492.4 | 940.1  | 648.5  |
| 72.5°  | 3514.0 | 3465.9 | 3413.6 | 3358.4 | 3249.1 | 2800.1 | 1718.1 | 1156.9 | 928.2  | 483.4  | 308.8  |
| 73°    | 3527.6 | 3495.0 | 3432.0 | 3367.9 | 3278.8 | 2791.2 | 1680.7 | 1066.6 | 818.4  | 380.7  | 253.0  |
| 75°    | 3163.6 | 3150.5 | 3088.8 | 2965.2 | 2889.8 | 2357.7 | 1237.6 | 618.2  | 358.1  | 235.2  | 164.5  |
| 77.5°  | 2053.0 | 2038.8 | 2003.8 | 1991.9 | 1852.9 | 1528.6 | 554.1  | 240.5  | 194.8  | 156.2  | 116.4  |
| 80°    | 1093.9 | 1027.4 | 1015.5 | 968.0  | 866.5  | 588.5  | 189.4  | 147.3  | 129.5  | 104.5  | 81.4   |
| 82.5°  | 443.6  | 415.1  | 404.4  | 366.4  | 344.5  | 176.4  | 95.0   | 102.1  | 86.7   | 61.8   | 49.9   |
| 85°    | 163.3  | 150.3  | 146.7  | 119.4  | 105.1  | 52.3   | 58.2   | 71.9   | 54.0   | 34.4   | 24.9   |
| 87.5°  | 56.4   | 48.7   | 42.2   | 32.7   | 30.3   | 21.4   | 32.1   | 39.2   | 34.4   | 20.8   | 11.9   |
| 90°    | 4.2    | 3.6    | 3.0    | 2.4    | 3.0    | 2.4    | 3.6    | 5.3    | 5.9    | 3.6    | 2.4    |
| 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: P226533

CATALOG NUMBER: ISW-AF-600-LED-E1-T4FT-7050

**CANDELA DISTRIBUTION (continued):**

|        | 37° | 38° | 39° | 40° | 41° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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: P226533

CATALOG NUMBER: ISW-AF-600-LED-E1-T4FT-7050

**CANDELA DISTRIBUTION (continued):**

|        | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 608.7  | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 | 608.7 |
| 2.5°   | 611.1  | 613.5 | 618.2 | 621.8 | 624.8 | 628.9 | 630.1 | 632.5 | 629.5 | 633.1 |
| 5°     | 608.7  | 615.9 | 624.8 | 633.1 | 640.8 | 647.3 | 650.3 | 650.9 | 651.5 | 653.9 |
| 7.5°   | 602.8  | 613.5 | 627.7 | 639.0 | 650.9 | 655.0 | 656.8 | 657.4 | 653.3 | 655.0 |
| 10°    | 590.9  | 608.1 | 625.9 | 639.6 | 645.5 | 642.6 | 637.8 | 630.1 | 626.5 | 626.5 |
| 12.5°  | 577.8  | 599.8 | 620.6 | 628.3 | 623.0 | 611.7 | 598.6 | 584.4 | 579.0 | 579.0 |
| 15°    | 567.2  | 595.1 | 612.3 | 606.9 | 591.5 | 570.1 | 552.3 | 537.5 | 532.7 | 530.9 |
| 17.5°  | 561.2  | 592.7 | 599.2 | 582.6 | 556.5 | 529.7 | 511.9 | 499.5 | 495.3 | 495.3 |
| 20°    | 566.0  | 595.1 | 584.4 | 553.5 | 520.8 | 496.5 | 481.0 | 472.7 | 468.6 | 470.4 |
| 22.5°  | 586.2  | 604.0 | 571.3 | 525.0 | 485.2 | 464.4 | 457.3 | 451.9 | 451.3 | 452.5 |
| 25°    | 620.0  | 615.9 | 560.0 | 495.3 | 451.9 | 437.1 | 436.5 | 434.7 | 434.1 | 433.5 |
| 27.5°  | 664.0  | 630.7 | 546.4 | 462.0 | 418.7 | 411.6 | 415.1 | 414.5 | 413.9 | 414.5 |
| 30°    | 722.2  | 643.8 | 526.2 | 425.8 | 387.2 | 387.2 | 392.6 | 390.8 | 388.4 | 389.0 |
| 32.5°  | 776.2  | 653.3 | 495.3 | 385.4 | 362.3 | 363.5 | 365.2 | 360.5 | 354.5 | 355.7 |
| 35°    | 822.5  | 653.3 | 453.7 | 349.2 | 336.7 | 336.7 | 337.9 | 333.8 | 329.0 | 327.2 |
| 37.5°  | 861.1  | 640.2 | 401.5 | 321.9 | 315.9 | 315.9 | 320.7 | 316.5 | 307.6 | 305.8 |
| 40°    | 884.3  | 611.7 | 353.4 | 301.7 | 305.8 | 306.4 | 299.9 | 292.8 | 284.5 | 282.7 |
| 42.5°  | 899.1  | 570.1 | 315.4 | 287.4 | 299.3 | 294.6 | 279.1 | 267.8 | 267.2 | 269.6 |
| 45°    | 912.2  | 523.2 | 285.1 | 273.2 | 292.2 | 282.1 | 261.3 | 250.6 | 254.2 | 256.6 |
| 47.5°  | 925.3  | 476.3 | 260.7 | 257.2 | 279.1 | 272.0 | 250.0 | 238.1 | 236.4 | 239.9 |
| 50°    | 956.1  | 411.0 | 232.8 | 238.1 | 263.1 | 260.7 | 239.9 | 226.3 | 215.0 | 214.4 |
| 52.5°  | 997.7  | 323.7 | 209.0 | 221.5 | 250.6 | 254.2 | 228.6 | 215.6 | 200.1 | 197.8 |
| 55°    | 1044.0 | 248.2 | 189.4 | 208.5 | 238.7 | 244.7 | 224.5 | 204.9 | 188.3 | 185.9 |
| 57.5°  | 1057.7 | 196.0 | 171.0 | 190.0 | 222.7 | 235.8 | 218.0 | 192.4 | 179.9 | 177.6 |
| 60°    | 1010.8 | 162.7 | 155.6 | 174.6 | 206.7 | 226.9 | 207.9 | 182.9 | 171.6 | 169.8 |
| 62.5°  | 867.7  | 143.7 | 147.3 | 164.5 | 194.8 | 218.5 | 200.1 | 175.8 | 166.9 | 165.7 |
| 65°    | 662.2  | 130.7 | 140.2 | 156.2 | 184.1 | 210.8 | 194.8 | 172.8 | 165.7 | 164.5 |
| 67.5°  | 415.7  | 121.2 | 133.0 | 147.3 | 173.4 | 202.5 | 190.6 | 169.3 | 163.9 | 162.1 |
| 70°    | 230.4  | 111.1 | 123.5 | 137.2 | 162.7 | 194.8 | 185.3 | 163.9 | 163.3 | 159.8 |
| 72.5°  | 140.2  | 100.4 | 113.4 | 126.5 | 150.8 | 185.3 | 175.8 | 157.4 | 151.4 | 144.3 |
| 73°    | 133.6  | 99.2  | 111.1 | 124.1 | 147.9 | 182.9 | 174.0 | 155.0 | 149.1 | 141.9 |
| 75°    | 108.1  | 89.1  | 101.6 | 112.8 | 137.2 | 173.4 | 163.9 | 146.7 | 137.2 | 131.8 |
| 77.5°  | 79.6   | 76.0  | 87.9  | 98.6  | 123.5 | 160.3 | 149.7 | 134.2 | 122.9 | 120.0 |
| 80°    | 58.8   | 63.0  | 74.2  | 83.7  | 108.7 | 147.3 | 134.8 | 120.0 | 112.8 | 109.3 |
| 82.5°  | 39.8   | 48.7  | 59.4  | 67.1  | 96.2  | 133.0 | 119.4 | 105.1 | 109.9 | 91.5  |
| 85°    | 23.2   | 33.9  | 42.8  | 52.3  | 77.2  | 118.8 | 103.9 | 89.7  | 78.4  | 70.7  |
| 87.5°  | 15.4   | 19.0  | 26.1  | 35.6  | 55.8  | 93.2  | 82.5  | 70.1  | 51.1  | 51.1  |
| 90°    | 1.8    | 2.4   | 3.6   | 4.2   | 7.7   | 39.8  | 27.3  | 32.7  | 5.9   | 5.3   |
| 92.5°  | 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   |
| 97.5°  | 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   |
| 102.5° | 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   |
| 107.5° | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



REPORT NUMBER: P226533

CATALOG NUMBER: ISW-AF-600-LED-E1-T4FT-7050

**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110°   | 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  |
| 115°   | 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  |
| 120°   | 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  |
| 125°   | 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  |
| 130°   | 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  |
| 135°   | 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  |
| 140°   | 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  |
| 145°   | 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  |
| 150°   | 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  |
| 155°   | 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  |
| 160°   | 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  |
| 165°   | 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  |
| 170°   | 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  |
| 175°   | 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  |
| 180°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)