

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: P227527

Luminaire Tested: **IST-AF-800-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29767)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-800-LED-E1-RW
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5169.9 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Cutoff
BUG Rating: B2 - U1 - G2

Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (A_{in}): 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

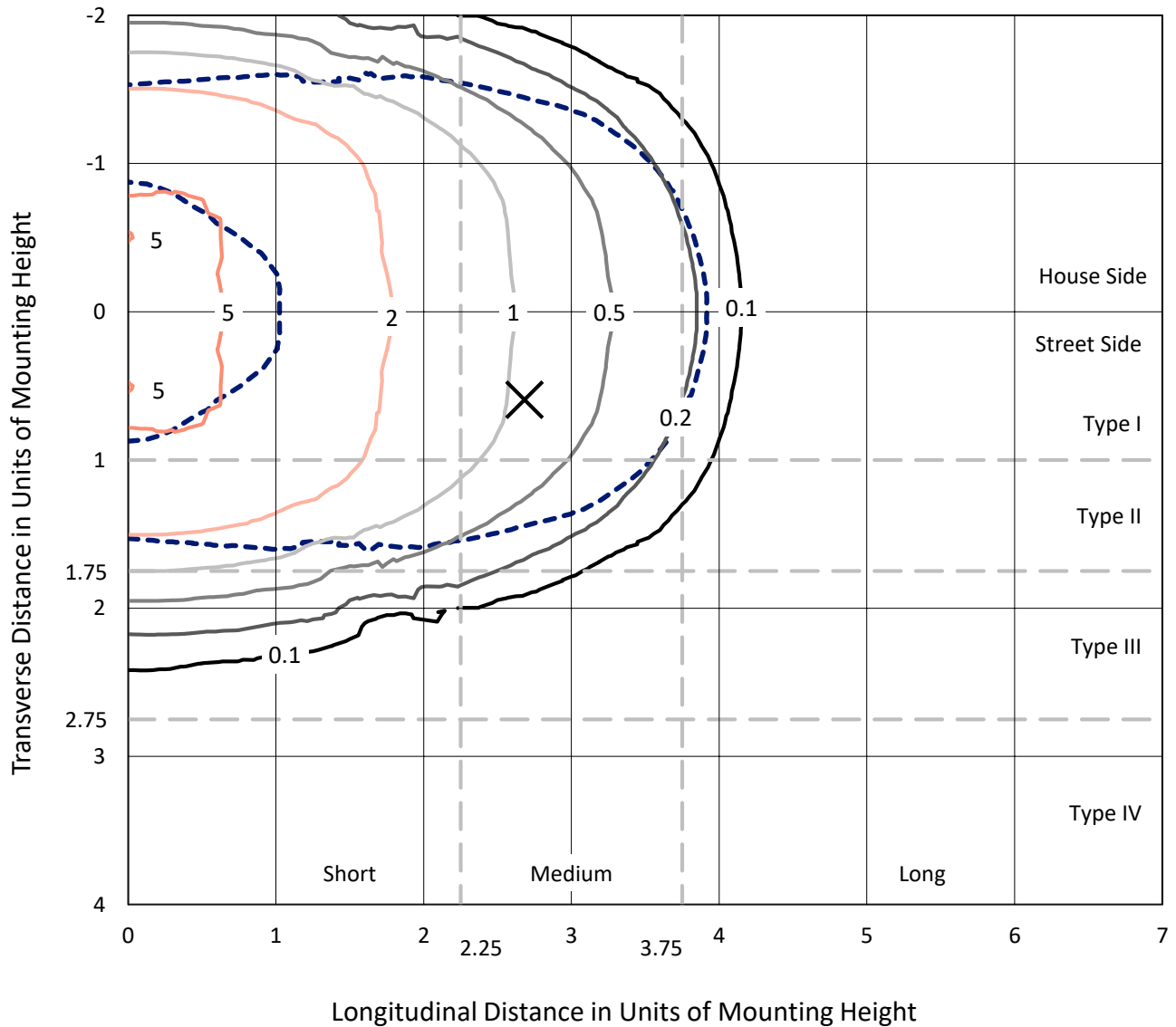


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CATALOG NUMBER: IST-AF-800-LED-E1-RW

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

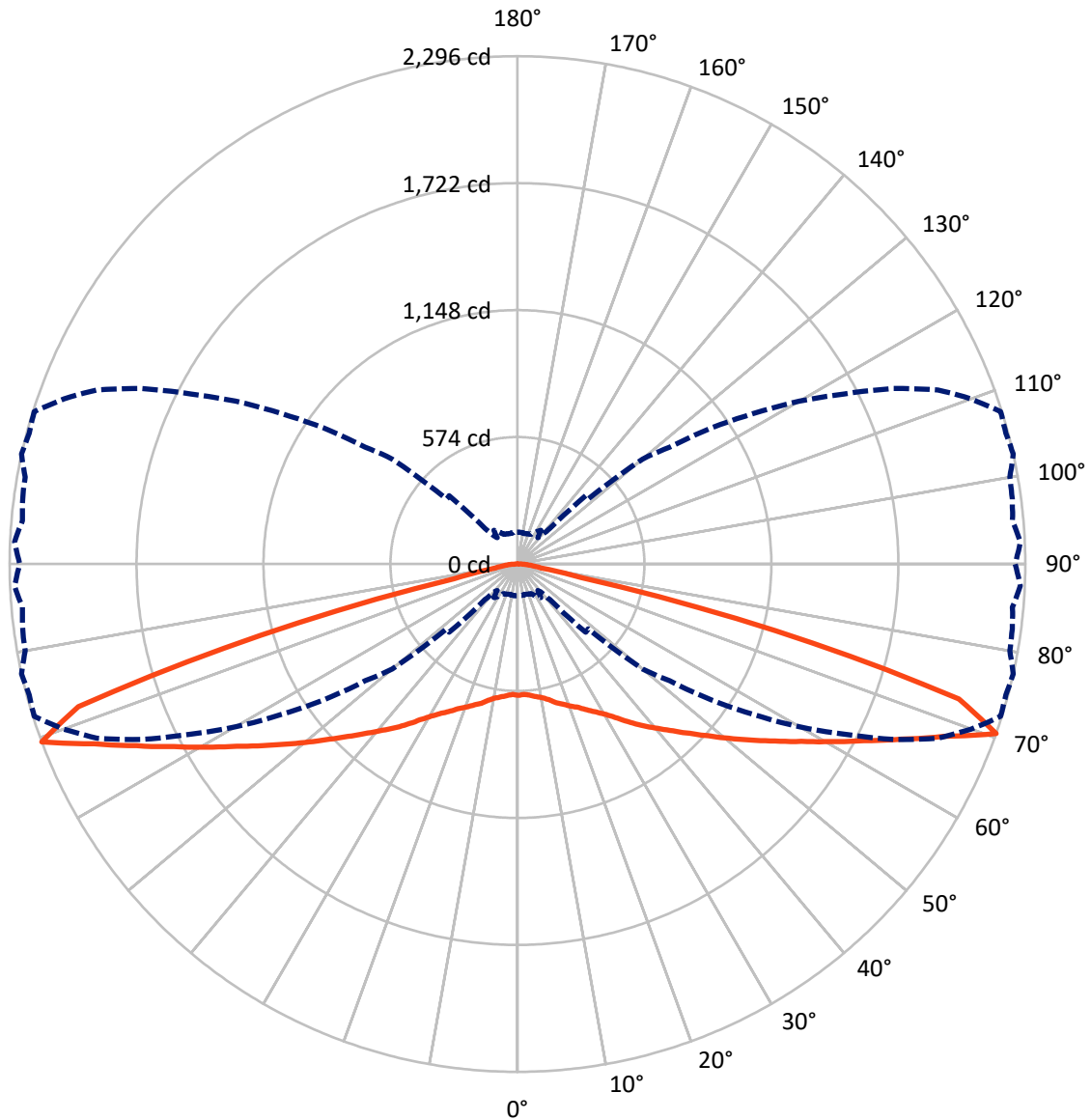


Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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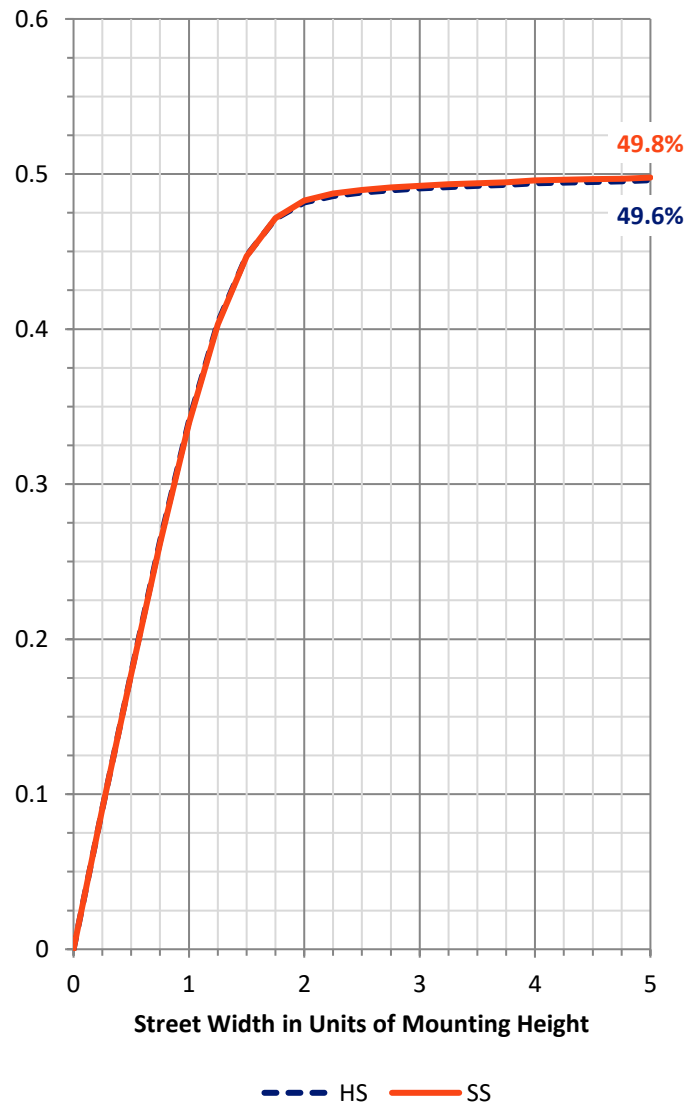
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2584.5 | 0.4 | 2584.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2584.5 | 0.4 | 2584.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5169.1 | 0.8 | 5169.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.4 | 1.1 |
| 10°-20° | 179.5 | 3.5 |
| 20°-30° | 336.9 | 6.5 |
| 30°-40° | 588.8 | 11.4 |
| 40°-50° | 959.8 | 18.6 |
| 50°-60° | 1313.5 | 25.4 |
| 60°-70° | 1208.3 | 23.4 |
| 70°-80° | 472.3 | 9.1 |
| 80°-90° | 52.6 | 1.0 |
| 90°-100° | 0.8 | 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° | 5169.1 | 100.0 |
| 0°-180° | 5169.9 | 100.0 |



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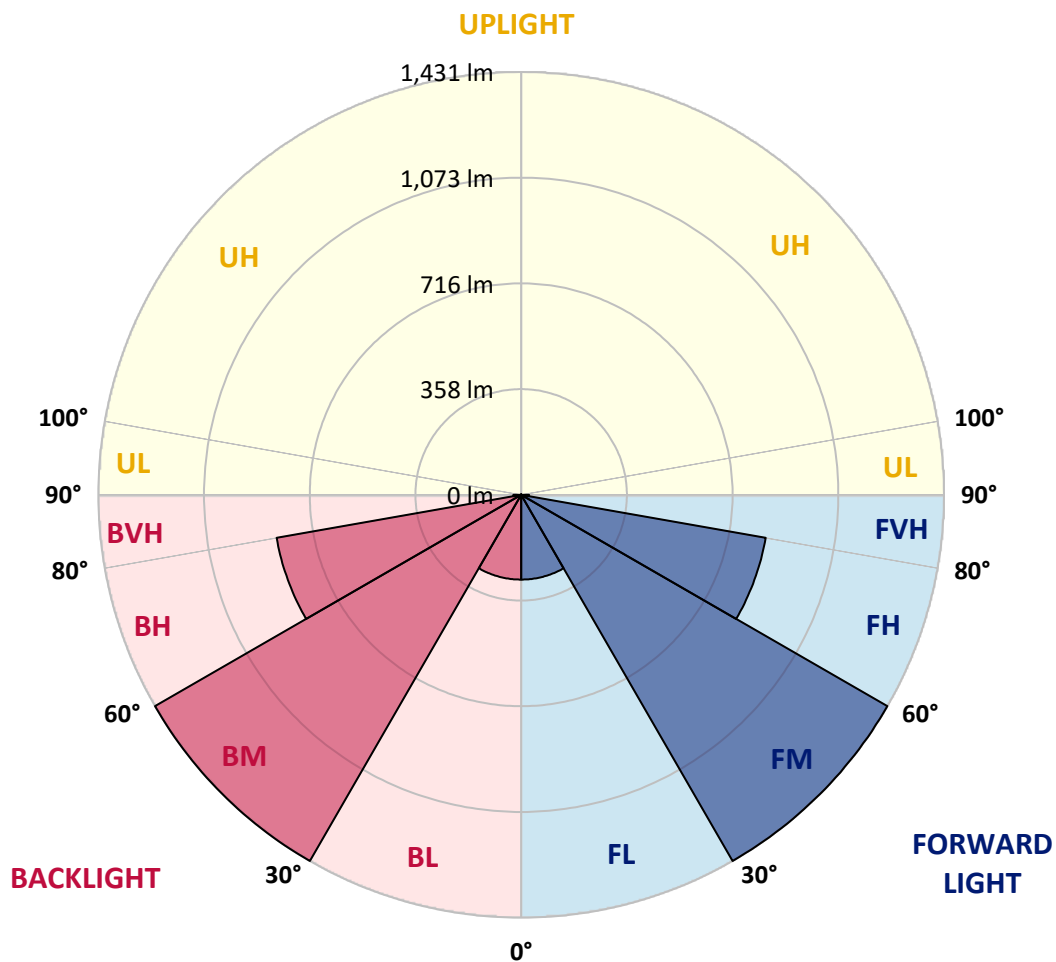
CATALOG NUMBER: IST-AF-800-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 286.9 | 5.5 | | | |
| FM | (30°-60°) | 1431.1 | 27.7 | | | |
| FH | (60°-80°) | 840.3 | 16.3 | | | G1/1800 |
| FVH | (80°-90°) | 26.3 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 286.9 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 1431.1 | 27.7 | B2/2500 | | |
| BH | (60°-80°) | 840.3 | 16.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 26.3 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.8 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 0.4 | 0.0 | | U1/10 | |

BUG Rating: B2-U1-G2

Type II Medium





REPORT NUMBER: P227527

CATALOG NUMBER: IST-AF-800-LED-E1-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 |
| 2.5° | 591.6 | 590.9 | 590.9 | 591.6 | 593.1 | 593.9 | 592.4 | 593.1 | 593.1 | 592.4 | 594.6 |
| 5° | 593.1 | 592.4 | 593.1 | 594.6 | 596.9 | 599.2 | 598.4 | 598.4 | 599.2 | 597.7 | 601.5 |
| 7.5° | 591.6 | 590.9 | 592.4 | 596.2 | 601.5 | 604.6 | 604.6 | 604.6 | 606.1 | 605.3 | 609.9 |
| 10° | 584.7 | 584.0 | 587.8 | 594.6 | 604.6 | 606.8 | 609.1 | 609.9 | 614.4 | 614.4 | 619.0 |
| 12.5° | 578.7 | 579.4 | 584.7 | 595.4 | 611.4 | 612.1 | 615.2 | 618.3 | 624.3 | 621.2 | 629.6 |
| 15° | 580.9 | 582.5 | 589.3 | 602.2 | 623.6 | 622.8 | 625.0 | 628.1 | 638.0 | 631.2 | 644.9 |
| 17.5° | 592.4 | 594.6 | 602.2 | 617.5 | 639.5 | 635.7 | 638.7 | 643.3 | 656.2 | 647.8 | 663.9 |
| 20° | 610.6 | 613.7 | 622.1 | 638.7 | 659.3 | 655.5 | 658.5 | 663.9 | 679.0 | 670.6 | 686.7 |
| 22.5° | 634.9 | 638.0 | 647.1 | 666.1 | 688.1 | 683.6 | 686.7 | 691.2 | 708.0 | 695.0 | 714.8 |
| 25° | 667.7 | 670.6 | 680.6 | 700.3 | 725.5 | 720.2 | 721.6 | 724.7 | 742.2 | 727.0 | 745.9 |
| 27.5° | 713.3 | 716.3 | 724.7 | 743.7 | 768.0 | 763.4 | 765.0 | 768.0 | 786.2 | 771.1 | 787.8 |
| 30° | 771.1 | 774.1 | 781.7 | 800.8 | 821.2 | 815.9 | 818.3 | 820.5 | 837.2 | 822.0 | 835.8 |
| 32.5° | 839.5 | 838.7 | 850.2 | 869.9 | 888.1 | 878.3 | 878.3 | 878.3 | 894.3 | 879.0 | 889.7 |
| 35° | 920.1 | 920.1 | 931.5 | 950.5 | 967.3 | 955.8 | 950.5 | 947.5 | 964.9 | 945.9 | 953.6 |
| 37.5° | 1008.3 | 1004.5 | 1022.0 | 1039.5 | 1055.5 | 1041.1 | 1036.5 | 1032.7 | 1045.6 | 1024.3 | 1028.1 |
| 40° | 1101.8 | 1098.9 | 1117.8 | 1137.6 | 1148.3 | 1129.2 | 1125.5 | 1120.8 | 1134.6 | 1114.0 | 1113.3 |
| 42.5° | 1187.0 | 1184.8 | 1209.0 | 1231.8 | 1244.8 | 1220.5 | 1215.2 | 1210.6 | 1225.8 | 1205.2 | 1200.7 |
| 45° | 1259.3 | 1258.5 | 1286.7 | 1317.8 | 1340.6 | 1314.8 | 1310.9 | 1303.3 | 1318.6 | 1293.5 | 1291.2 |
| 47.5° | 1315.5 | 1312.4 | 1346.7 | 1392.3 | 1428.9 | 1402.3 | 1401.4 | 1396.1 | 1412.1 | 1384.8 | 1381.7 |
| 50° | 1353.6 | 1355.8 | 1393.1 | 1446.4 | 1505.6 | 1480.5 | 1482.8 | 1480.5 | 1504.1 | 1476.7 | 1480.5 |
| 52.5° | 1360.4 | 1364.9 | 1412.9 | 1482.8 | 1565.7 | 1535.2 | 1552.7 | 1559.6 | 1589.3 | 1565.7 | 1573.3 |
| 55° | 1279.0 | 1292.0 | 1364.9 | 1486.7 | 1603.0 | 1583.9 | 1606.0 | 1625.8 | 1667.6 | 1647.9 | 1661.5 |
| 57.5° | 1097.3 | 1123.9 | 1208.3 | 1384.8 | 1598.4 | 1609.0 | 1653.9 | 1684.3 | 1735.2 | 1717.7 | 1749.8 |
| 60° | 847.8 | 866.1 | 959.6 | 1165.8 | 1452.4 | 1466.8 | 1548.2 | 1644.8 | 1761.9 | 1786.2 | 1836.4 |
| 62.5° | 555.2 | 565.8 | 657.0 | 866.1 | 1200.7 | 1205.2 | 1306.4 | 1431.8 | 1634.9 | 1688.2 | 1828.8 |
| 65° | 275.3 | 289.7 | 338.4 | 498.8 | 841.1 | 834.9 | 945.9 | 1092.7 | 1355.8 | 1414.3 | 1643.3 |
| 67.5° | 171.9 | 174.1 | 184.0 | 231.2 | 421.3 | 374.1 | 465.3 | 619.0 | 937.6 | 990.1 | 1280.5 |
| 70° | 144.4 | 143.7 | 141.5 | 148.3 | 185.6 | 150.6 | 166.5 | 217.5 | 436.5 | 434.2 | 738.4 |
| 72.5° | 133.1 | 130.8 | 124.7 | 124.0 | 129.3 | 118.7 | 120.2 | 123.2 | 174.9 | 146.8 | 284.4 |
| 75° | 122.4 | 117.8 | 110.3 | 108.0 | 108.0 | 99.6 | 99.6 | 100.4 | 113.3 | 106.5 | 129.3 |
| 77.5° | 109.5 | 104.1 | 96.6 | 93.5 | 90.5 | 81.3 | 80.6 | 81.3 | 91.2 | 85.2 | 96.6 |
| 80° | 94.3 | 89.0 | 83.7 | 79.1 | 74.5 | 66.2 | 63.8 | 63.8 | 72.2 | 66.2 | 75.3 |
| 82.5° | 82.1 | 75.3 | 73.8 | 66.2 | 59.3 | 51.7 | 49.4 | 45.6 | 53.2 | 46.3 | 56.3 |
| 85° | 60.9 | 55.5 | 70.0 | 58.5 | 47.2 | 41.8 | 33.5 | 28.1 | 33.5 | 27.4 | 35.7 |
| 87.5° | 35.0 | 32.7 | 61.6 | 46.3 | 41.8 | 44.9 | 27.4 | 19.7 | 19.0 | 16.8 | 19.7 |
| 90° | 6.9 | 7.6 | 9.9 | 6.9 | 9.1 | 4.6 | 2.3 | 2.3 | 4.6 | 3.1 | 5.3 |
| 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 |
| 110° | 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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CATALOG NUMBER: IST-AF-800-LED-E1-RW

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|--------|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|
| 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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CATALOG NUMBER: IST-AF-800-LED-E1-RW

CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 |
| 2.5° | 592.4 | 594.6 | 591.6 | 594.6 | 589.3 | 593.9 | 590.0 | 594.6 | 590.9 | 594.6 | 590.0 |
| 5° | 596.2 | 602.2 | 595.4 | 603.7 | 593.9 | 603.7 | 595.4 | 604.6 | 596.9 | 604.6 | 596.2 |
| 7.5° | 602.2 | 612.8 | 603.7 | 614.4 | 602.2 | 615.9 | 604.6 | 617.5 | 606.1 | 618.3 | 605.3 |
| 10° | 609.9 | 623.6 | 611.4 | 625.0 | 610.6 | 626.6 | 612.1 | 628.9 | 613.7 | 630.3 | 614.4 |
| 12.5° | 616.7 | 634.2 | 620.5 | 638.7 | 622.8 | 641.8 | 625.0 | 646.4 | 628.1 | 650.2 | 629.6 |
| 15° | 629.6 | 652.4 | 634.9 | 657.0 | 638.7 | 660.8 | 642.5 | 666.9 | 646.4 | 671.5 | 650.2 |
| 17.5° | 646.4 | 671.5 | 653.2 | 675.2 | 655.5 | 679.9 | 660.0 | 684.4 | 663.9 | 689.7 | 666.1 |
| 20° | 669.2 | 694.3 | 675.2 | 696.5 | 677.5 | 699.6 | 679.9 | 701.8 | 684.4 | 706.4 | 685.9 |
| 22.5° | 695.0 | 718.6 | 698.1 | 719.3 | 698.1 | 718.6 | 699.6 | 719.3 | 701.8 | 722.4 | 704.1 |
| 25° | 726.2 | 748.3 | 727.7 | 745.9 | 724.7 | 743.0 | 724.7 | 743.0 | 727.0 | 744.4 | 730.8 |
| 27.5° | 769.6 | 786.2 | 765.0 | 780.9 | 758.1 | 774.1 | 755.1 | 771.1 | 755.9 | 771.1 | 757.4 |
| 30° | 818.3 | 833.4 | 809.1 | 822.0 | 796.9 | 809.1 | 788.6 | 802.2 | 786.2 | 800.8 | 790.0 |
| 32.5° | 871.5 | 883.6 | 859.3 | 869.9 | 844.0 | 854.7 | 832.7 | 841.8 | 828.1 | 837.2 | 830.3 |
| 35° | 930.8 | 943.0 | 917.8 | 927.7 | 901.8 | 910.9 | 888.9 | 893.4 | 879.8 | 885.9 | 879.8 |
| 37.5° | 1001.5 | 1012.1 | 983.3 | 992.4 | 964.2 | 975.6 | 949.0 | 953.6 | 936.8 | 940.6 | 928.4 |
| 40° | 1077.5 | 1088.9 | 1054.7 | 1063.9 | 1028.9 | 1041.8 | 1012.1 | 1015.2 | 992.4 | 996.1 | 977.1 |
| 42.5° | 1159.6 | 1170.3 | 1127.7 | 1135.3 | 1094.3 | 1108.0 | 1073.0 | 1079.0 | 1051.7 | 1055.5 | 1031.1 |
| 45° | 1250.1 | 1256.2 | 1209.0 | 1214.3 | 1164.9 | 1178.6 | 1134.6 | 1145.9 | 1113.3 | 1120.8 | 1092.7 |
| 47.5° | 1334.5 | 1346.7 | 1295.0 | 1299.6 | 1246.4 | 1254.6 | 1203.7 | 1218.9 | 1184.0 | 1195.4 | 1161.2 |
| 50° | 1431.1 | 1440.2 | 1390.8 | 1391.5 | 1339.9 | 1342.9 | 1285.8 | 1301.1 | 1263.0 | 1275.2 | 1238.7 |
| 52.5° | 1529.9 | 1536.1 | 1482.8 | 1488.2 | 1437.1 | 1442.6 | 1385.5 | 1391.5 | 1347.4 | 1358.1 | 1322.4 |
| 55° | 1625.8 | 1627.3 | 1583.2 | 1581.7 | 1533.8 | 1543.6 | 1480.5 | 1494.2 | 1441.7 | 1453.2 | 1412.9 |
| 57.5° | 1721.6 | 1726.9 | 1685.8 | 1687.4 | 1639.5 | 1646.3 | 1589.3 | 1599.2 | 1549.8 | 1563.4 | 1513.3 |
| 60° | 1822.7 | 1839.5 | 1799.2 | 1804.5 | 1758.9 | 1772.6 | 1703.3 | 1716.3 | 1662.3 | 1684.3 | 1630.4 |
| 62.5° | 1887.3 | 1949.7 | 1942.1 | 1950.5 | 1907.1 | 1913.9 | 1842.5 | 1863.0 | 1798.3 | 1814.4 | 1758.9 |
| 65° | 1764.2 | 1917.0 | 1994.5 | 2079.8 | 2082.0 | 2104.1 | 2034.9 | 2042.5 | 1977.9 | 1974.1 | 1908.6 |
| 67.5° | 1438.0 | 1626.5 | 1757.3 | 1932.3 | 2054.7 | 2172.5 | 2215.1 | 2225.7 | 2190.8 | 2153.5 | 2079.8 |
| 70° | 867.7 | 1073.7 | 1266.1 | 1472.1 | 1665.4 | 1877.5 | 2057.7 | 2182.4 | 2291.1 | 2285.8 | 2296.4 |
| 72.5° | 343.0 | 514.0 | 642.5 | 835.8 | 1027.3 | 1262.3 | 1461.5 | 1637.2 | 1824.2 | 1939.1 | 2088.1 |
| 75° | 135.3 | 178.7 | 209.1 | 317.1 | 408.4 | 583.3 | 758.9 | 854.0 | 1000.8 | 1101.1 | 1204.5 |
| 77.5° | 97.3 | 106.5 | 108.0 | 125.5 | 132.3 | 183.2 | 214.4 | 247.1 | 278.3 | 298.1 | 294.3 |
| 80° | 75.3 | 81.3 | 81.3 | 89.0 | 88.2 | 98.1 | 95.9 | 105.0 | 104.1 | 111.8 | 106.5 |
| 82.5° | 56.3 | 60.0 | 60.0 | 66.2 | 66.2 | 72.2 | 70.7 | 76.8 | 74.5 | 79.9 | 74.5 |
| 85° | 36.5 | 40.3 | 40.3 | 43.4 | 41.8 | 47.9 | 47.2 | 51.7 | 49.4 | 51.7 | 47.9 |
| 87.5° | 20.6 | 22.8 | 23.5 | 25.9 | 23.5 | 28.1 | 27.4 | 29.7 | 27.4 | 29.7 | 28.1 |
| 90° | 3.1 | 4.6 | 3.1 | 4.6 | 2.3 | 6.9 | 3.8 | 7.6 | 2.3 | 9.1 | 3.8 |
| 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 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227527

CATALOG NUMBER: IST-AF-800-LED-E1-RW

CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 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: P227527

CATALOG NUMBER: IST-AF-800-LED-E1-RW

CANDELA DISTRIBUTION (continued):

| | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 593.9 | 593.9 | 593.9 | 593.9 | 593.9 |
| 2.5° | 593.9 | 592.4 | 595.4 | 590.9 | 594.6 |
| 5° | 604.6 | 597.7 | 606.1 | 597.7 | 605.3 |
| 7.5° | 619.0 | 607.5 | 619.7 | 607.5 | 619.7 |
| 10° | 632.7 | 613.7 | 633.4 | 615.2 | 634.2 |
| 12.5° | 653.2 | 630.3 | 656.2 | 631.2 | 656.2 |
| 15° | 676.0 | 650.2 | 679.0 | 650.9 | 680.6 |
| 17.5° | 694.3 | 669.2 | 697.3 | 669.2 | 698.1 |
| 20° | 709.5 | 689.7 | 713.3 | 689.7 | 715.6 |
| 22.5° | 727.0 | 712.5 | 731.5 | 712.5 | 736.1 |
| 25° | 749.8 | 739.9 | 755.1 | 741.4 | 758.1 |
| 27.5° | 776.4 | 769.6 | 781.7 | 771.8 | 784.7 |
| 30° | 807.5 | 805.3 | 811.4 | 806.8 | 814.4 |
| 32.5° | 842.5 | 847.8 | 847.8 | 847.8 | 850.9 |
| 35° | 893.4 | 898.0 | 898.0 | 899.6 | 900.3 |
| 37.5° | 942.1 | 949.8 | 949.0 | 951.2 | 951.2 |
| 40° | 993.1 | 1003.0 | 1003.0 | 1003.0 | 1004.5 |
| 42.5° | 1049.3 | 1060.0 | 1061.5 | 1057.0 | 1060.0 |
| 45° | 1112.5 | 1116.2 | 1120.1 | 1117.8 | 1123.1 |
| 47.5° | 1180.2 | 1184.0 | 1187.0 | 1184.0 | 1192.4 |
| 50° | 1260.0 | 1259.3 | 1267.6 | 1259.3 | 1271.4 |
| 52.5° | 1343.6 | 1350.5 | 1355.8 | 1347.4 | 1355.8 |
| 55° | 1438.0 | 1435.7 | 1453.2 | 1441.7 | 1453.2 |
| 57.5° | 1541.4 | 1541.4 | 1558.9 | 1548.2 | 1561.1 |
| 60° | 1663.8 | 1653.9 | 1678.3 | 1660.8 | 1678.3 |
| 62.5° | 1787.7 | 1770.2 | 1797.6 | 1782.4 | 1805.2 |
| 65° | 1930.7 | 1905.7 | 1931.4 | 1911.7 | 1932.3 |
| 67.5° | 2075.2 | 2046.3 | 2054.7 | 2044.8 | 2056.1 |
| 70° | 2260.7 | 2256.9 | 2247.0 | 2276.0 | 2250.8 |
| 72.5° | 2064.5 | 2108.6 | 2072.9 | 2142.1 | 2095.0 |
| 75° | 1268.4 | 1349.8 | 1394.6 | 1465.4 | 1453.9 |
| 77.5° | 300.3 | 266.9 | 294.3 | 263.8 | 297.4 |
| 80° | 111.0 | 101.2 | 105.7 | 92.0 | 102.7 |
| 82.5° | 76.0 | 66.2 | 63.8 | 50.9 | 54.7 |
| 85° | 48.7 | 39.6 | 36.5 | 30.4 | 33.5 |
| 87.5° | 28.8 | 22.1 | 20.6 | 17.5 | 18.2 |
| 90° | 8.4 | 3.1 | 6.0 | 1.5 | 5.3 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227527

CATALOG NUMBER: IST-AF-800-LED-E1-RW

CANDELA DISTRIBUTION (continued):

| | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)