

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: P271654

Luminaire Tested: **IST-AF-800-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35947)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-800-LED-E1-SL4-7027
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3980.1 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U1 - G1

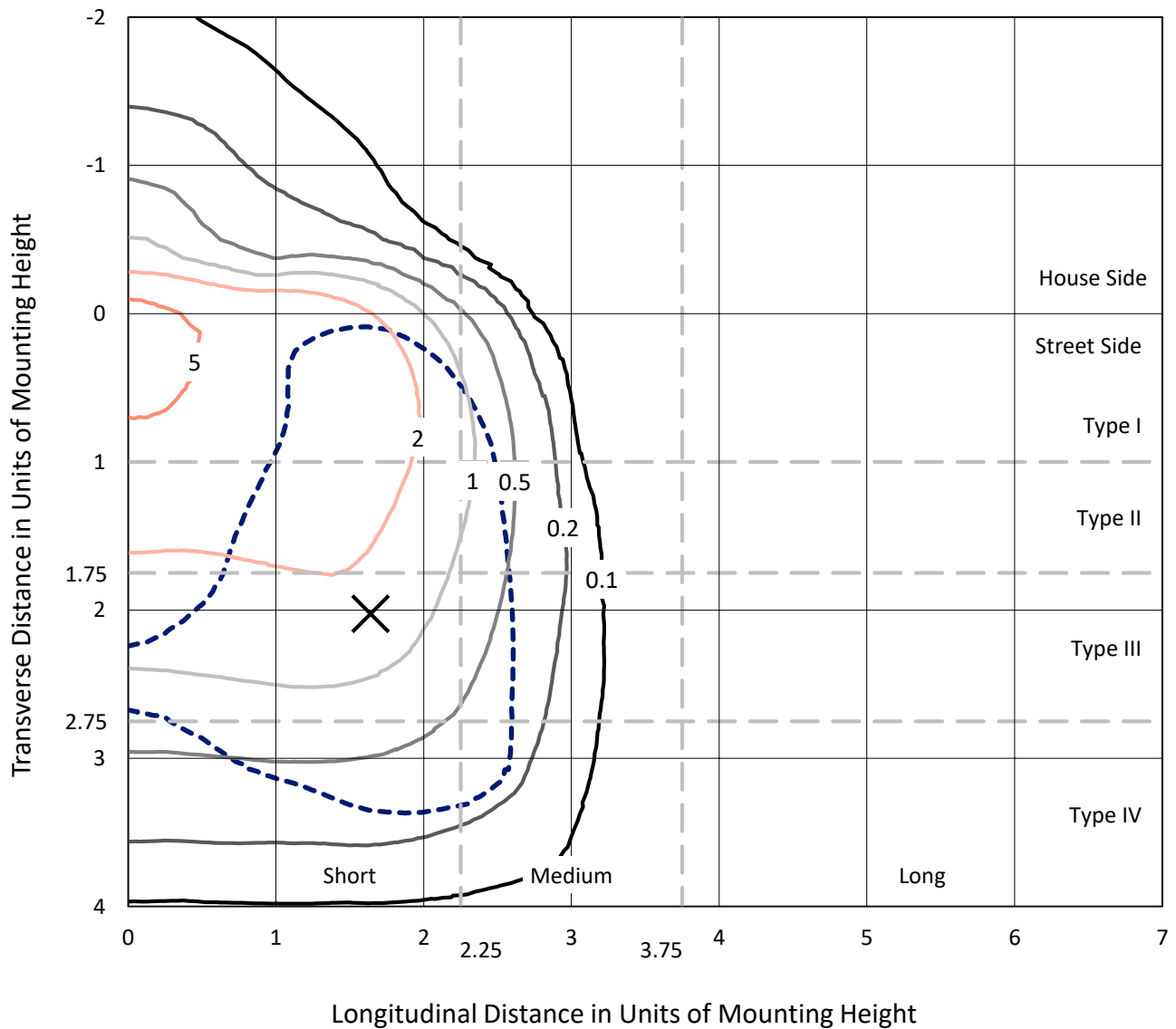
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P271654
 CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027

Iso-Footcandle Lines of Horizontal Illumination

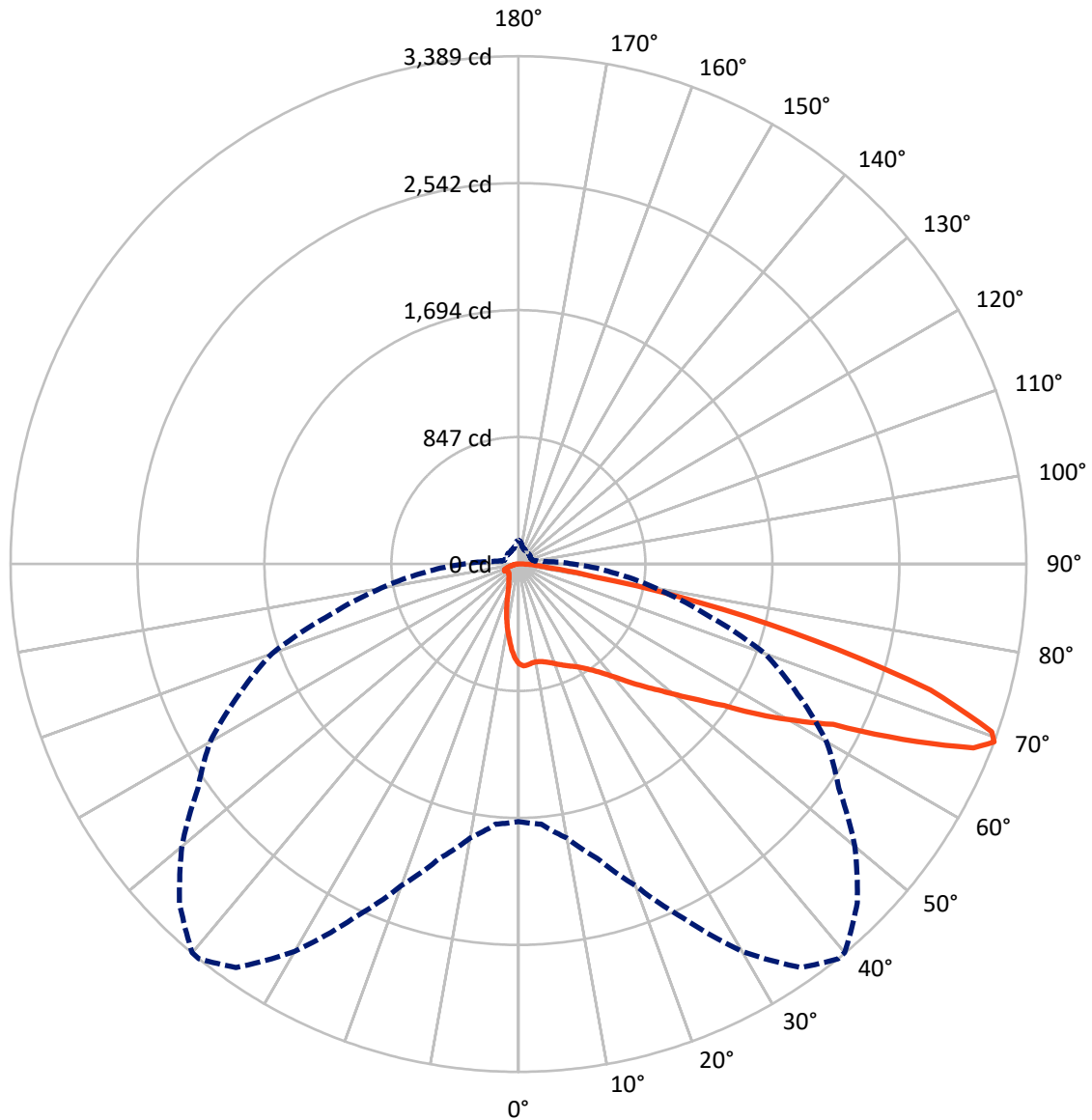
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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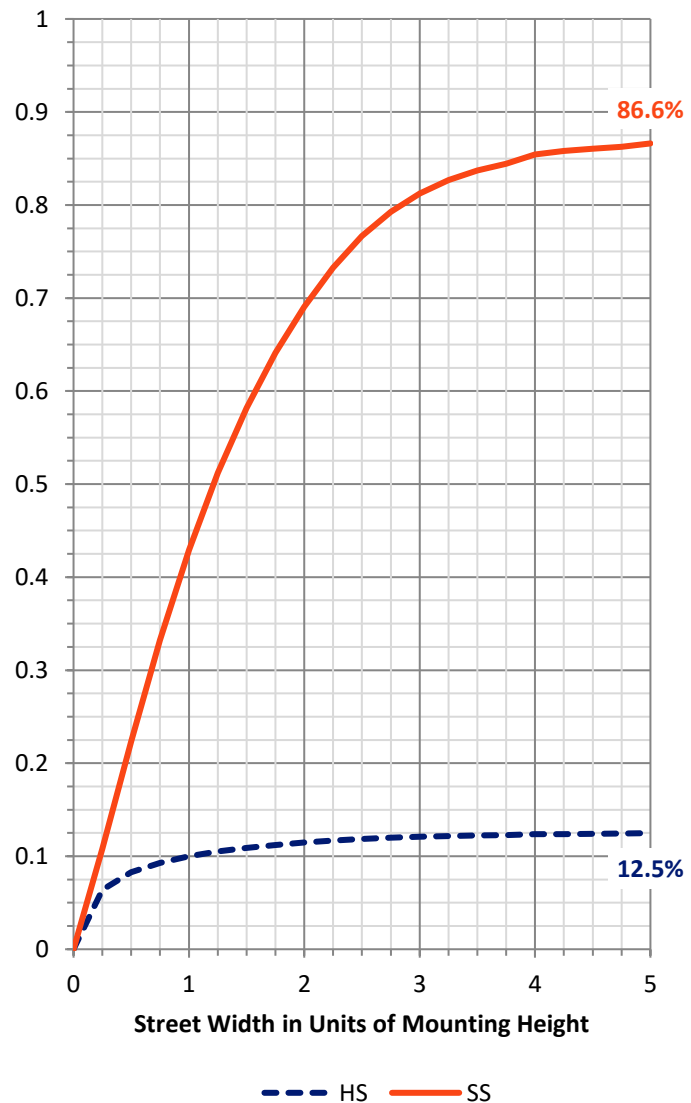
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 503.6 | 0.1 | 503.7 |
| | % Fixture | 12.7 | 0.0 | 12.7 |
| Street Side | Lumens | 3475.4 | 1.0 | 3476.4 |
| | % Fixture | 87.3 | 0.0 | 87.3 |
| Total | Lumens | 3979.0 | 1.1 | 3980.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.5 | 1.4 |
| 10°-20° | 145.1 | 3.6 |
| 20°-30° | 225.8 | 5.7 |
| 30°-40° | 341.3 | 8.6 |
| 40°-50° | 546.2 | 13.7 |
| 50°-60° | 858.4 | 21.6 |
| 60°-70° | 1155.9 | 29.0 |
| 70°-80° | 573.3 | 14.4 |
| 80°-90° | 75.3 | 1.9 |
| 90°-100° | 1.1 | 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° | 3979.0 | 100.0 |
| 0°-180° | 3980.1 | 100.0 |



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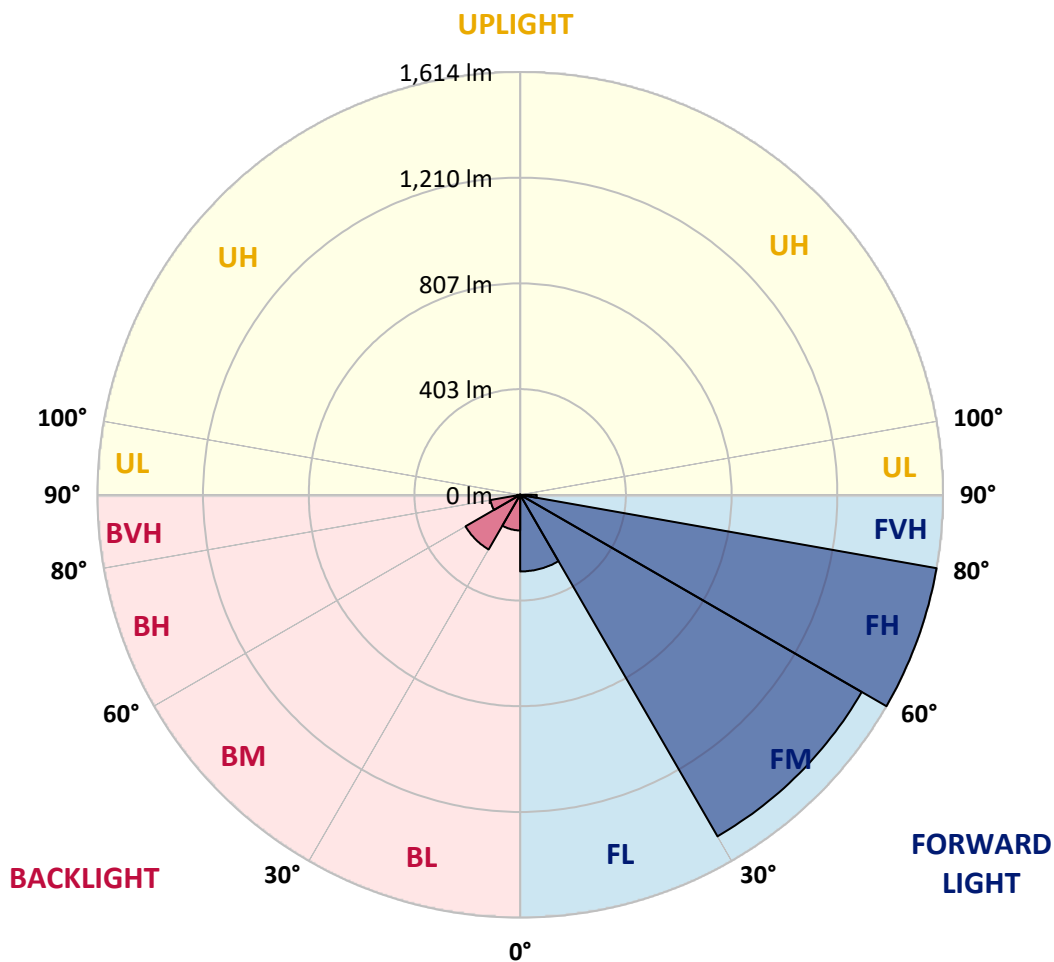
CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 292.6 | 7.4 | | | |
| FM | (30°-60°) | 1505.4 | 37.8 | | | |
| FH | (60°-80°) | 1613.9 | 40.6 | | | G1/1800 |
| FVH | (80°-90°) | 63.4 | 1.6 | | | G1/100 |
| BL | (0°-30°) | 135.9 | 3.4 | B1/500 | | |
| BM | (30°-60°) | 240.6 | 6.0 | B1/1000 | | |
| BH | (60°-80°) | 115.3 | 2.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 11.9 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 1.1 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 0.1 | 0.0 | | U1/10 | |

BUG Rating: B1-U1-G1

Type IV Short





REPORT NUMBER: P271654

CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 |
| 2.5° | 682.8 | 683.4 | 683.4 | 684.1 | 681.5 | 681.5 | 682.2 | 679.6 | 680.8 | 680.2 | 677.0 |
| 5° | 684.1 | 684.7 | 684.1 | 684.7 | 681.5 | 680.2 | 677.6 | 674.4 | 675.6 | 675.1 | 670.5 |
| 7.5° | 680.8 | 681.5 | 680.2 | 680.8 | 677.0 | 674.4 | 670.5 | 667.9 | 665.9 | 665.4 | 659.5 |
| 10° | 673.7 | 675.6 | 673.1 | 675.1 | 671.8 | 669.1 | 667.4 | 664.7 | 663.4 | 662.8 | 656.3 |
| 12.5° | 663.4 | 664.7 | 665.4 | 667.9 | 667.9 | 668.6 | 668.6 | 666.6 | 667.4 | 666.6 | 661.4 |
| 15° | 653.7 | 658.2 | 662.8 | 665.4 | 670.5 | 673.7 | 676.3 | 675.6 | 677.6 | 677.0 | 673.7 |
| 17.5° | 653.7 | 657.6 | 665.4 | 673.7 | 683.4 | 687.9 | 691.9 | 691.9 | 692.4 | 691.2 | 685.9 |
| 20° | 656.3 | 663.4 | 676.3 | 690.5 | 702.1 | 711.2 | 713.7 | 713.2 | 710.6 | 710.6 | 701.5 |
| 22.5° | 677.6 | 682.2 | 696.4 | 711.9 | 728.0 | 737.0 | 737.7 | 735.7 | 730.6 | 729.2 | 718.4 |
| 25° | 708.0 | 713.2 | 726.0 | 746.1 | 758.3 | 765.4 | 763.5 | 757.0 | 751.9 | 747.4 | 735.7 |
| 27.5° | 755.1 | 759.0 | 771.9 | 785.5 | 792.6 | 795.2 | 787.5 | 778.4 | 772.5 | 770.7 | 755.1 |
| 30° | 803.5 | 808.7 | 819.1 | 827.5 | 833.3 | 825.5 | 813.2 | 802.9 | 797.8 | 796.4 | 782.2 |
| 32.5° | 863.0 | 863.6 | 870.7 | 872.6 | 873.3 | 860.4 | 843.6 | 834.0 | 832.0 | 829.5 | 818.4 |
| 35° | 917.3 | 920.5 | 919.1 | 918.6 | 912.8 | 896.6 | 882.3 | 876.6 | 874.6 | 874.1 | 864.9 |
| 37.5° | 965.7 | 970.9 | 967.7 | 961.8 | 954.7 | 941.9 | 926.9 | 920.5 | 926.9 | 923.1 | 925.1 |
| 40° | 1012.9 | 1012.9 | 1009.0 | 1005.7 | 997.4 | 985.1 | 979.9 | 980.6 | 990.9 | 993.4 | 996.1 |
| 42.5° | 1053.5 | 1052.9 | 1049.0 | 1046.4 | 1045.2 | 1042.6 | 1040.0 | 1052.3 | 1072.3 | 1076.2 | 1082.0 |
| 45° | 1098.1 | 1097.5 | 1082.5 | 1087.8 | 1096.8 | 1098.8 | 1107.8 | 1136.3 | 1160.8 | 1162.8 | 1175.1 |
| 47.5° | 1141.4 | 1136.3 | 1122.1 | 1127.2 | 1153.1 | 1166.6 | 1181.5 | 1221.4 | 1255.7 | 1262.8 | 1297.1 |
| 50° | 1186.6 | 1181.5 | 1165.9 | 1175.6 | 1211.8 | 1237.0 | 1271.9 | 1327.4 | 1374.6 | 1384.3 | 1428.8 |
| 52.5° | 1233.7 | 1233.1 | 1220.9 | 1235.7 | 1280.3 | 1331.3 | 1386.3 | 1448.9 | 1506.4 | 1518.7 | 1584.5 |
| 55° | 1290.7 | 1287.5 | 1282.2 | 1300.3 | 1363.5 | 1432.1 | 1518.0 | 1603.3 | 1665.9 | 1687.8 | 1754.4 |
| 57.5° | 1354.6 | 1353.3 | 1353.9 | 1391.4 | 1467.7 | 1571.7 | 1676.9 | 1791.8 | 1895.2 | 1910.8 | 1972.8 |
| 60° | 1410.1 | 1412.8 | 1427.6 | 1486.3 | 1581.9 | 1722.8 | 1870.7 | 2026.4 | 2118.0 | 2134.2 | 2195.0 |
| 62.5° | 1477.9 | 1492.8 | 1525.7 | 1600.0 | 1712.3 | 1882.9 | 2074.7 | 2239.6 | 2357.7 | 2390.7 | 2505.6 |
| 65° | 1640.8 | 1652.3 | 1713.7 | 1803.4 | 1946.9 | 2165.3 | 2385.4 | 2625.2 | 2820.2 | 2850.0 | 2948.8 |
| 67.5° | 1759.6 | 1789.2 | 1885.5 | 2032.1 | 2239.6 | 2518.6 | 2820.9 | 3110.9 | 3275.6 | 3289.2 | 3220.1 |
| 69° | 1718.3 | 1742.8 | 1856.4 | 2033.4 | 2283.4 | 2608.4 | 2984.3 | 3287.3 | 3388.7 | 3386.1 | 3198.1 |
| 70° | 1654.9 | 1677.6 | 1802.9 | 1974.7 | 2246.6 | 2598.0 | 2986.9 | 3288.5 | 3349.9 | 3326.6 | 3111.5 |
| 72.5° | 1386.3 | 1406.3 | 1523.9 | 1703.4 | 1966.9 | 2315.7 | 2682.0 | 2888.1 | 2875.1 | 2855.7 | 2500.5 |
| 75° | 865.6 | 864.3 | 966.9 | 1071.0 | 1275.8 | 1628.4 | 1901.0 | 2066.4 | 2039.9 | 2025.0 | 1605.2 |
| 77.5° | 323.6 | 346.3 | 383.7 | 495.4 | 589.7 | 780.3 | 1000.6 | 1184.7 | 1235.7 | 1170.5 | 864.3 |
| 80° | 168.6 | 180.9 | 205.4 | 244.8 | 281.6 | 322.3 | 387.6 | 498.6 | 516.2 | 481.2 | 348.8 |
| 82.5° | 133.1 | 148.0 | 172.5 | 206.0 | 231.9 | 216.4 | 204.2 | 211.2 | 209.9 | 200.2 | 177.7 |
| 85° | 100.8 | 118.1 | 158.2 | 192.5 | 229.2 | 193.8 | 154.4 | 135.0 | 120.1 | 120.8 | 128.5 |
| 87.5° | 50.3 | 65.3 | 124.7 | 167.9 | 199.6 | 128.5 | 100.8 | 78.2 | 65.3 | 62.6 | 84.0 |
| 90° | 15.5 | 15.5 | 25.2 | 33.0 | 45.3 | 22.5 | 22.0 | 16.8 | 12.3 | 12.3 | 19.3 |
| 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 |



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CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 39° | 40° | 45° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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: P271654

CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 |
| 2.5° | 674.4 | 674.4 | 673.1 | 672.4 | 670.5 | 667.9 | 665.9 | 662.8 | 660.8 | 657.6 | 653.7 |
| 5° | 665.9 | 663.4 | 662.1 | 659.5 | 655.7 | 652.3 | 648.6 | 644.1 | 638.9 | 632.4 | 625.3 |
| 7.5° | 655.0 | 651.1 | 646.6 | 645.3 | 640.9 | 636.9 | 632.4 | 625.8 | 618.8 | 607.3 | 598.1 |
| 10° | 650.5 | 646.6 | 642.6 | 640.1 | 634.3 | 629.8 | 624.6 | 616.2 | 607.3 | 591.7 | 574.8 |
| 12.5° | 655.0 | 651.1 | 647.3 | 642.6 | 637.5 | 632.4 | 625.3 | 614.9 | 602.7 | 582.6 | 562.0 |
| 15° | 665.9 | 662.1 | 655.7 | 651.1 | 644.1 | 639.5 | 629.8 | 618.1 | 600.1 | 575.5 | 548.4 |
| 17.5° | 678.2 | 672.4 | 666.6 | 659.5 | 653.1 | 647.3 | 636.9 | 622.1 | 599.5 | 570.3 | 535.5 |
| 20° | 689.9 | 683.4 | 674.4 | 669.1 | 662.8 | 654.3 | 643.4 | 625.3 | 598.1 | 560.0 | 521.9 |
| 22.5° | 703.5 | 695.1 | 685.4 | 679.6 | 674.4 | 667.4 | 654.3 | 631.1 | 598.1 | 554.3 | 506.5 |
| 25° | 720.9 | 709.9 | 700.2 | 694.4 | 691.2 | 685.9 | 670.5 | 644.6 | 602.7 | 551.0 | 493.5 |
| 27.5° | 741.6 | 727.4 | 718.9 | 715.1 | 714.4 | 710.6 | 695.1 | 662.8 | 613.0 | 551.0 | 481.2 |
| 30° | 766.2 | 753.8 | 742.9 | 742.9 | 750.6 | 748.0 | 730.6 | 690.5 | 629.2 | 553.0 | 472.1 |
| 32.5° | 800.3 | 788.0 | 781.5 | 788.0 | 796.4 | 799.0 | 779.0 | 730.0 | 655.7 | 562.0 | 463.2 |
| 35° | 850.8 | 843.0 | 838.5 | 848.1 | 864.9 | 871.4 | 846.8 | 788.7 | 694.4 | 579.5 | 458.0 |
| 37.5° | 917.3 | 911.4 | 905.6 | 922.4 | 954.1 | 966.9 | 931.5 | 856.5 | 749.9 | 608.5 | 455.4 |
| 40° | 993.4 | 994.2 | 1000.6 | 1034.2 | 1064.5 | 1091.7 | 1051.6 | 959.2 | 826.2 | 649.8 | 458.0 |
| 42.5° | 1084.0 | 1091.0 | 1113.0 | 1159.5 | 1218.3 | 1239.6 | 1200.9 | 1083.3 | 921.1 | 699.6 | 464.4 |
| 45° | 1196.4 | 1215.0 | 1252.5 | 1321.7 | 1392.7 | 1425.6 | 1370.7 | 1239.6 | 1040.7 | 779.0 | 482.5 |
| 47.5° | 1315.7 | 1357.2 | 1420.5 | 1504.4 | 1587.1 | 1608.4 | 1540.6 | 1381.1 | 1157.6 | 849.4 | 510.2 |
| 50° | 1468.9 | 1519.2 | 1582.5 | 1683.3 | 1771.2 | 1784.1 | 1694.3 | 1512.2 | 1259.6 | 910.8 | 536.7 |
| 52.5° | 1611.6 | 1680.1 | 1760.9 | 1877.7 | 1966.9 | 1950.8 | 1834.5 | 1629.1 | 1340.3 | 952.8 | 551.6 |
| 55° | 1806.7 | 1877.7 | 1968.8 | 2071.0 | 2159.4 | 2120.7 | 1961.8 | 1728.6 | 1404.9 | 983.7 | 556.2 |
| 57.5° | 2029.6 | 2083.9 | 2173.0 | 2277.7 | 2335.8 | 2269.2 | 2087.1 | 1825.4 | 1466.3 | 984.5 | 520.7 |
| 60° | 2248.5 | 2311.9 | 2410.1 | 2512.8 | 2545.1 | 2430.1 | 2174.3 | 1840.3 | 1405.6 | 878.5 | 416.6 |
| 62.5° | 2572.8 | 2636.7 | 2686.5 | 2703.3 | 2645.1 | 2413.9 | 2072.9 | 1683.3 | 1211.8 | 693.1 | 295.3 |
| 65° | 2935.2 | 2862.9 | 2766.6 | 2676.2 | 2517.9 | 2166.5 | 1787.4 | 1383.0 | 940.5 | 463.2 | 203.5 |
| 67.5° | 3030.2 | 2809.9 | 2600.6 | 2399.0 | 2103.9 | 1725.4 | 1348.1 | 972.9 | 603.3 | 263.6 | 138.2 |
| 69° | 2931.3 | 2609.7 | 2376.5 | 2056.7 | 1751.9 | 1291.2 | 928.8 | 623.3 | 360.4 | 183.4 | 115.6 |
| 70° | 2750.5 | 2415.8 | 2100.0 | 1757.6 | 1357.2 | 986.4 | 617.6 | 408.2 | 235.2 | 133.7 | 104.0 |
| 72.5° | 2075.4 | 1659.5 | 1279.0 | 830.8 | 506.5 | 281.0 | 197.6 | 141.4 | 111.7 | 98.2 | 89.1 |
| 75° | 1200.1 | 799.0 | 523.3 | 279.0 | 165.4 | 122.7 | 107.3 | 95.6 | 88.6 | 85.2 | 77.5 |
| 77.5° | 506.5 | 316.6 | 214.4 | 156.9 | 111.1 | 95.0 | 82.6 | 76.3 | 75.5 | 73.6 | 66.6 |
| 80° | 230.7 | 197.6 | 168.6 | 118.1 | 84.6 | 72.3 | 63.3 | 62.1 | 63.3 | 61.4 | 54.3 |
| 82.5° | 171.1 | 168.6 | 140.9 | 91.1 | 64.6 | 48.5 | 39.3 | 41.3 | 46.5 | 50.3 | 43.9 |
| 85° | 142.7 | 142.7 | 118.1 | 67.8 | 42.6 | 31.0 | 30.4 | 34.2 | 38.8 | 42.0 | 35.6 |
| 87.5° | 131.2 | 125.9 | 67.8 | 34.9 | 24.5 | 20.0 | 18.8 | 16.8 | 16.8 | 29.0 | 24.5 |
| 90° | 12.9 | 5.7 | 3.2 | 2.5 | 3.2 | 2.5 | 3.9 | 3.2 | 3.2 | 3.2 | 3.2 |
| 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: P271654

CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 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: P271654

CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 | 666.6 |
| 2.5° | 650.5 | 647.9 | 641.4 | 640.1 | 638.2 | 635.6 | 635.0 | 631.8 | 625.3 | 624.1 | 624.6 |
| 5° | 620.8 | 610.4 | 603.3 | 597.6 | 593.0 | 581.3 | 576.8 | 571.7 | 562.6 | 560.0 | 556.2 |
| 7.5° | 585.9 | 573.6 | 559.4 | 549.0 | 536.7 | 524.5 | 514.8 | 502.5 | 492.9 | 487.0 | 476.7 |
| 10° | 558.7 | 541.9 | 523.3 | 502.5 | 486.4 | 467.7 | 455.4 | 441.2 | 425.7 | 411.4 | 401.1 |
| 12.5° | 538.1 | 514.8 | 487.7 | 463.2 | 439.9 | 419.9 | 397.9 | 377.8 | 358.5 | 339.1 | 322.3 |
| 15° | 521.3 | 492.2 | 458.0 | 427.0 | 398.6 | 368.8 | 344.3 | 316.6 | 291.9 | 275.2 | 253.8 |
| 17.5° | 503.2 | 465.7 | 425.1 | 388.9 | 352.0 | 321.1 | 290.1 | 261.0 | 237.7 | 215.8 | 198.3 |
| 20° | 481.2 | 435.9 | 392.1 | 350.1 | 308.1 | 272.5 | 240.9 | 213.2 | 190.6 | 173.1 | 160.2 |
| 22.5° | 456.7 | 403.7 | 352.7 | 306.8 | 264.8 | 230.0 | 200.2 | 179.6 | 162.9 | 153.1 | 149.2 |
| 25° | 432.8 | 372.1 | 314.6 | 264.2 | 222.2 | 192.5 | 172.5 | 155.0 | 146.6 | 142.7 | 142.7 |
| 27.5° | 410.9 | 339.8 | 275.8 | 226.7 | 185.9 | 162.9 | 147.3 | 140.1 | 136.4 | 136.4 | 138.2 |
| 30° | 390.1 | 307.5 | 238.9 | 189.3 | 156.9 | 139.6 | 131.2 | 128.5 | 129.2 | 131.8 | 134.4 |
| 32.5° | 366.3 | 276.5 | 207.4 | 162.9 | 136.4 | 124.7 | 118.1 | 118.8 | 122.1 | 126.6 | 131.2 |
| 35° | 341.1 | 243.5 | 179.6 | 142.7 | 122.1 | 113.1 | 109.1 | 109.9 | 114.4 | 120.1 | 124.7 |
| 37.5° | 318.4 | 217.0 | 158.2 | 127.3 | 111.7 | 105.9 | 102.7 | 103.3 | 106.6 | 113.6 | 119.6 |
| 40° | 295.8 | 194.4 | 140.9 | 118.1 | 105.9 | 100.1 | 98.2 | 97.6 | 100.1 | 106.6 | 113.6 |
| 42.5° | 276.5 | 175.1 | 130.4 | 111.7 | 102.0 | 96.8 | 94.3 | 94.3 | 95.6 | 100.8 | 107.9 |
| 45° | 264.8 | 163.4 | 123.3 | 107.3 | 98.8 | 94.3 | 91.8 | 90.4 | 92.3 | 95.6 | 102.0 |
| 47.5° | 264.8 | 157.7 | 118.8 | 104.0 | 96.3 | 92.3 | 89.1 | 88.6 | 89.1 | 92.3 | 98.8 |
| 50° | 273.9 | 158.9 | 118.1 | 102.7 | 95.0 | 89.8 | 86.6 | 86.6 | 87.9 | 92.3 | 97.6 |
| 52.5° | 281.6 | 161.4 | 120.1 | 104.0 | 95.0 | 88.6 | 84.6 | 84.0 | 85.9 | 90.4 | 95.0 |
| 55° | 280.3 | 161.4 | 122.1 | 105.9 | 96.8 | 89.1 | 84.0 | 83.4 | 84.6 | 89.1 | 93.6 |
| 57.5° | 250.6 | 151.8 | 120.1 | 107.3 | 99.5 | 92.3 | 87.1 | 85.2 | 86.6 | 90.4 | 94.3 |
| 60° | 202.8 | 135.0 | 114.9 | 107.3 | 103.3 | 98.2 | 93.1 | 91.8 | 92.3 | 96.3 | 100.8 |
| 62.5° | 158.9 | 120.1 | 108.5 | 106.6 | 105.3 | 102.7 | 100.8 | 99.5 | 99.5 | 102.7 | 106.6 |
| 65° | 129.2 | 108.5 | 103.3 | 104.0 | 105.3 | 104.7 | 104.0 | 103.3 | 103.3 | 105.3 | 109.1 |
| 67.5° | 107.9 | 97.6 | 96.3 | 98.2 | 99.5 | 100.1 | 100.8 | 100.1 | 100.8 | 102.7 | 107.3 |
| 69° | 98.2 | 91.8 | 90.4 | 91.8 | 94.3 | 95.0 | 96.3 | 95.6 | 96.3 | 98.2 | 102.7 |
| 70° | 92.3 | 87.1 | 85.9 | 87.9 | 89.8 | 90.4 | 91.8 | 91.1 | 91.8 | 93.6 | 98.2 |
| 72.5° | 80.1 | 74.3 | 72.3 | 73.6 | 75.5 | 75.5 | 77.5 | 78.2 | 76.9 | 77.5 | 80.8 |
| 75° | 68.5 | 62.1 | 58.7 | 59.4 | 59.4 | 59.4 | 60.7 | 60.7 | 59.4 | 58.7 | 59.4 |
| 77.5° | 57.5 | 50.3 | 46.5 | 46.5 | 46.5 | 45.8 | 43.9 | 44.6 | 45.3 | 44.6 | 45.3 |
| 80° | 45.3 | 39.3 | 35.6 | 35.6 | 35.6 | 34.2 | 33.6 | 33.6 | 34.9 | 36.2 | 35.6 |
| 82.5° | 34.9 | 29.0 | 27.1 | 26.5 | 26.5 | 25.2 | 25.2 | 26.5 | 25.8 | 26.5 | 27.8 |
| 85° | 25.2 | 20.8 | 18.8 | 19.3 | 18.8 | 17.4 | 18.1 | 20.0 | 20.0 | 19.3 | 20.8 |
| 87.5° | 15.5 | 12.9 | 12.3 | 12.9 | 11.6 | 9.7 | 9.1 | 9.7 | 11.0 | 10.3 | 11.6 |
| 90° | 2.0 | 1.3 | 1.3 | 1.3 | 2.0 | 1.3 | 1.3 | 1.3 | 2.0 | 2.0 | 1.3 |
| 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 |



REPORT NUMBER: P271654
 CATALOG NUMBER: IST-AF-800-LED-E1-SL4-7027

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | |
|--------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 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° |

