

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: P226815

Luminaire Tested: **IST-AF-800-LED-E1-SL2-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35945)-DOWNLIGHT AND
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-SL2-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II W/SPILL CONTROL, WITH UPLIGHT
GLOW
Light Source: (16) 4000K CCT, 70 CRI LEDs and (1) UPLIGHT LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6839.7 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U5 - G1

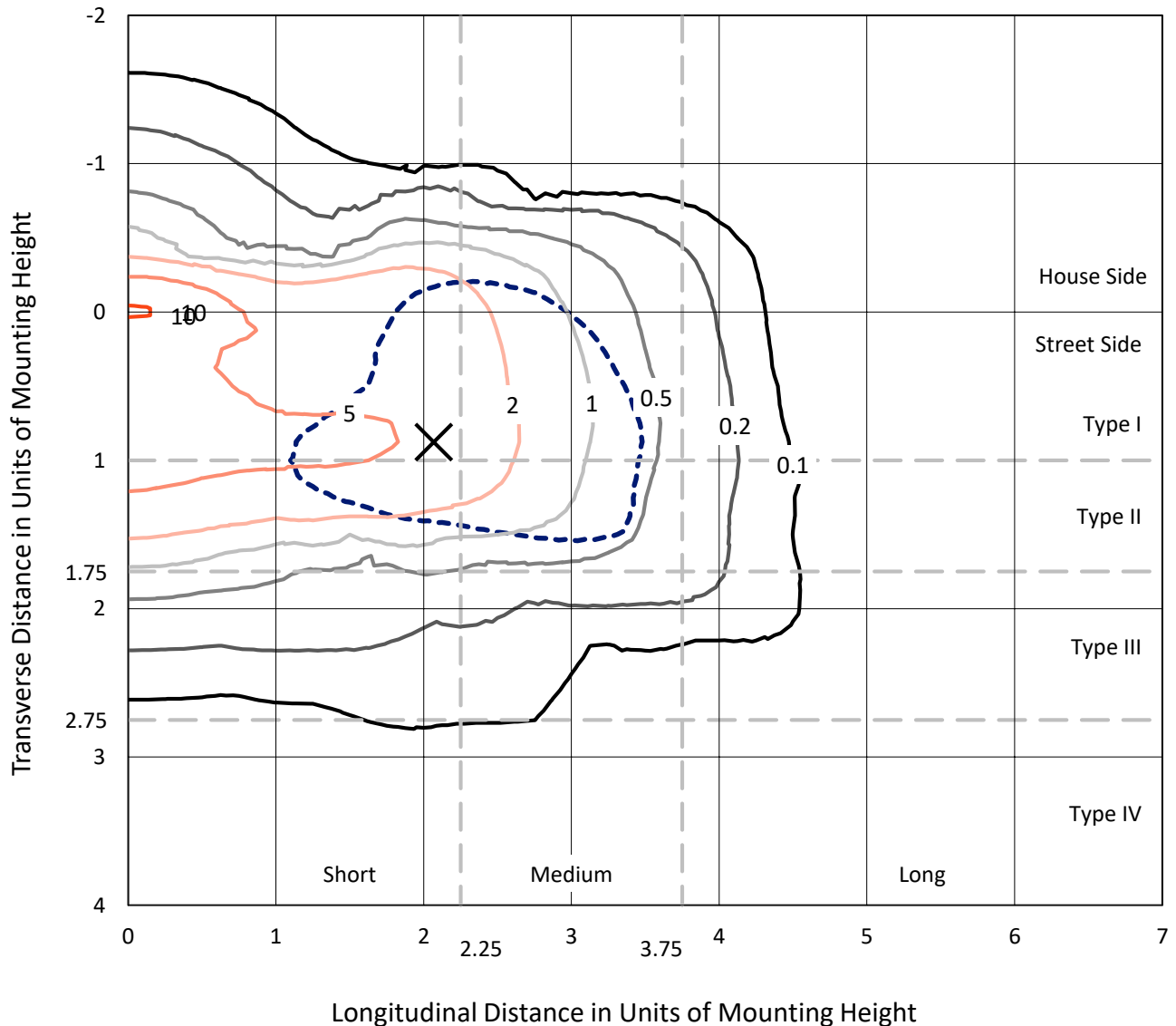
Input Watts (W): 60.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P226815
 CATALOG NUMBER: IST-AF-800-LED-E1-SL2-ULG

Iso-Footcandle Lines of Horizontal Illumination

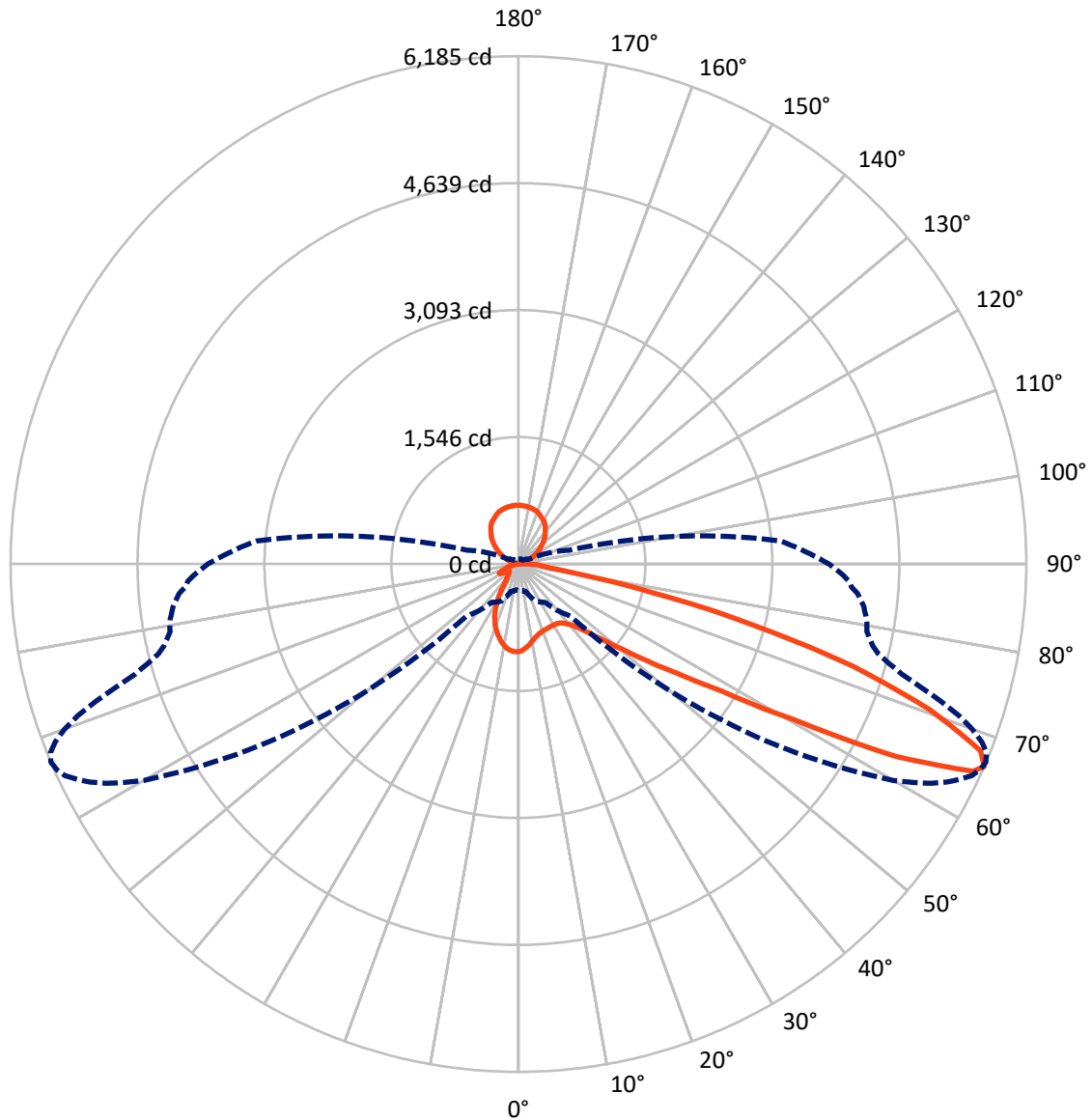
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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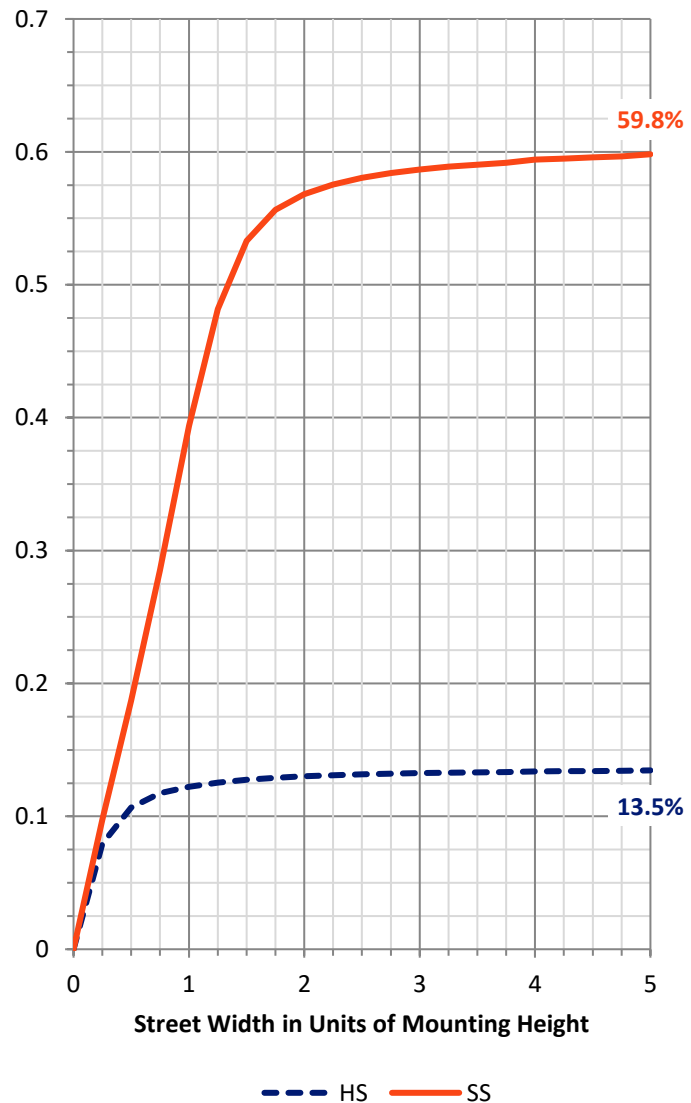
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 935.5 | 887.9 | 1823.4 |
| | % Fixture | 13.7 | 13.0 | 26.7 |
| Street Side | Lumens | 4127.4 | 888.9 | 5016.4 |
| | % Fixture | 60.3 | 13.0 | 73.3 |
| Total | Lumens | 5062.9 | 1776.8 | 6839.7 |
| | % Fixture | 74.0 | 26.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 92.4 | 1.4 |
| 10°-20° | 220.0 | 3.2 |
| 20°-30° | 301.7 | 4.4 |
| 30°-40° | 431.0 | 6.3 |
| 40°-50° | 698.8 | 10.2 |
| 50°-60° | 1107.2 | 16.2 |
| 60°-70° | 1403.0 | 20.5 |
| 70°-80° | 697.4 | 10.2 |
| 80°-90° | 111.5 | 1.6 |
| 90°-100° | 11.3 | 0.2 |
| 100°-110° | 58.7 | 0.9 |
| 110°-120° | 169.9 | 2.5 |
| 120°-130° | 279.4 | 4.1 |
| 130°-140° | 344.6 | 5.0 |
| 140°-150° | 352.5 | 5.2 |
| 150°-160° | 297.0 | 4.3 |
| 160°-170° | 195.5 | 2.9 |
| 170°-180° | 67.8 | 1.0 |
| 0°-90° | 5062.9 | 74.0 |
| 0°-180° | 6839.7 | 100.0 |

Coefficient of Utilization



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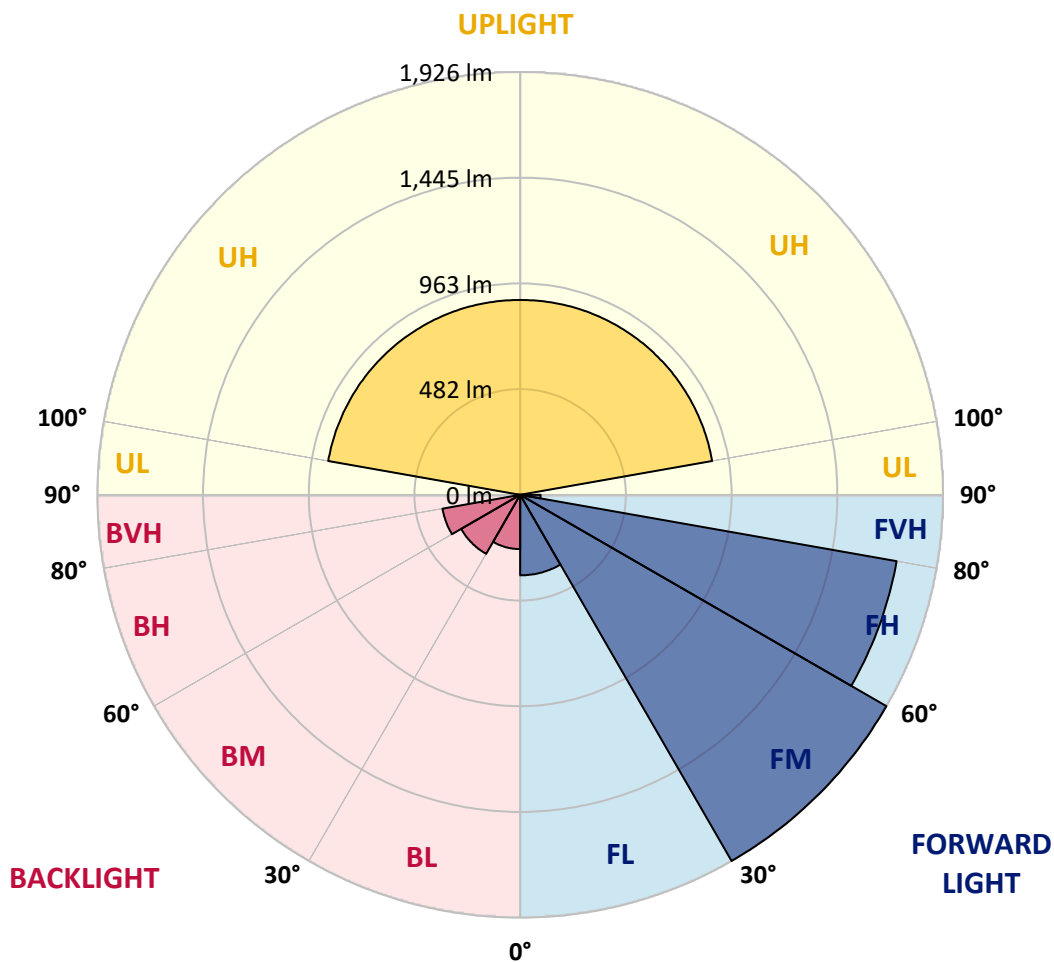
CATALOG NUMBER: IST-AF-800-LED-E1-SL2-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 366.8 | 5.4 | | | |
| FM | (30°-60°) | 1926.3 | 28.2 | | | |
| FH | (60°-80°) | 1741.1 | 25.5 | | | G1/1800 |
| FVH | (80°-90°) | 93.2 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 247.2 | 3.6 | B1/500 | | |
| BM | (30°-60°) | 310.6 | 4.5 | B1/1000 | | |
| BH | (60°-80°) | 359.3 | 5.3 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 18.3 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 11.3 | 0.2 | | U2/50 | |
| UH | (100°-180°) | 887.9 | 13.0 | | U4/1000 | |

BUG Rating: B1-U5-G1

Type II Short





REPORT NUMBER: P226815

CATALOG NUMBER: IST-AF-800-LED-E1-SL2-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 63° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 |
| 2.5° | 990.5 | 992.8 | 1005.8 | 1012.6 | 1022.4 | 1025.5 | 1037.0 | 1041.5 | 1045.4 | 1044.5 | 1044.5 |
| 5° | 901.5 | 908.4 | 914.4 | 928.1 | 942.6 | 960.1 | 982.1 | 998.9 | 1002.0 | 1005.8 | 1008.0 |
| 7.5° | 833.8 | 838.4 | 849.0 | 859.0 | 877.2 | 901.5 | 932.7 | 954.0 | 958.6 | 960.1 | 965.5 |
| 10° | 785.9 | 788.9 | 798.1 | 811.0 | 832.3 | 855.9 | 888.6 | 910.6 | 917.5 | 920.6 | 925.2 |
| 12.5° | 748.6 | 753.2 | 761.6 | 775.2 | 798.1 | 822.5 | 856.6 | 878.7 | 883.2 | 887.1 | 894.0 |
| 15° | 725.1 | 728.0 | 735.7 | 750.8 | 771.4 | 795.8 | 829.2 | 855.9 | 859.0 | 862.8 | 868.8 |
| 17.5° | 720.5 | 722.7 | 727.3 | 738.7 | 754.7 | 778.3 | 812.5 | 834.6 | 839.9 | 845.3 | 851.3 |
| 20° | 738.7 | 740.2 | 741.7 | 743.3 | 752.4 | 767.6 | 801.1 | 824.7 | 829.2 | 833.8 | 841.4 |
| 22.5° | 778.3 | 780.5 | 776.7 | 771.4 | 764.6 | 767.6 | 795.8 | 820.1 | 823.2 | 827.8 | 833.8 |
| 25° | 846.8 | 844.4 | 833.1 | 824.7 | 800.4 | 780.5 | 797.3 | 817.8 | 821.6 | 826.2 | 833.1 |
| 27.5° | 927.4 | 924.3 | 917.5 | 894.7 | 854.4 | 814.1 | 806.4 | 821.6 | 823.9 | 827.8 | 833.8 |
| 30° | 1014.2 | 1014.9 | 1008.8 | 983.7 | 931.9 | 864.3 | 827.0 | 830.7 | 832.3 | 835.3 | 839.1 |
| 32.5° | 1092.5 | 1103.9 | 1103.2 | 1101.6 | 1027.9 | 931.9 | 866.5 | 851.3 | 849.0 | 851.3 | 852.8 |
| 35° | 1183.0 | 1185.3 | 1206.6 | 1217.2 | 1157.2 | 1030.8 | 924.3 | 890.9 | 881.8 | 882.5 | 881.0 |
| 37.5° | 1280.4 | 1283.4 | 1319.9 | 1338.2 | 1291.8 | 1143.5 | 1001.2 | 949.5 | 941.1 | 932.7 | 926.6 |
| 40° | 1421.9 | 1434.1 | 1453.1 | 1473.7 | 1450.9 | 1294.9 | 1102.3 | 1032.4 | 1011.1 | 1009.6 | 997.4 |
| 42.5° | 1633.3 | 1629.6 | 1620.5 | 1637.2 | 1609.8 | 1464.5 | 1224.9 | 1149.5 | 1133.5 | 1112.3 | 1095.5 |
| 45° | 1841.1 | 1849.5 | 1809.9 | 1817.5 | 1819.0 | 1660.8 | 1402.2 | 1296.4 | 1288.0 | 1262.9 | 1244.6 |
| 47.5° | 1981.0 | 1971.9 | 1918.6 | 1957.5 | 2052.6 | 1889.8 | 1607.6 | 1496.5 | 1479.0 | 1466.0 | 1454.6 |
| 50° | 1988.7 | 1981.0 | 1946.9 | 2015.3 | 2218.5 | 2296.8 | 1893.6 | 1764.3 | 1739.1 | 1716.3 | 1709.5 |
| 52.5° | 1803.1 | 1792.4 | 1803.8 | 1943.0 | 2278.5 | 2637.6 | 2297.5 | 2096.7 | 2076.2 | 2057.2 | 2030.6 |
| 55° | 1472.1 | 1484.3 | 1538.3 | 1738.4 | 2186.5 | 2879.5 | 3092.6 | 2610.3 | 2522.0 | 2521.3 | 2455.8 |
| 57.5° | 1099.4 | 1087.2 | 1127.5 | 1315.4 | 1953.7 | 2965.5 | 3823.0 | 3703.5 | 3506.5 | 3373.3 | 3212.8 |
| 60° | 741.7 | 744.8 | 782.0 | 878.7 | 1359.5 | 2871.9 | 4312.1 | 4728.3 | 4659.0 | 4630.9 | 4587.5 |
| 62.5° | 514.2 | 518.8 | 553.1 | 643.6 | 795.0 | 2310.5 | 4455.2 | 5302.7 | 5426.7 | 5529.4 | 5504.3 |
| 65° | 359.9 | 360.6 | 394.9 | 534.8 | 595.7 | 1186.8 | 4139.4 | 5378.7 | 5563.6 | 5740.1 | 5898.3 |
| 66° | 317.2 | 318.0 | 346.2 | 497.6 | 571.3 | 895.4 | 3865.5 | 5273.0 | 5483.7 | 5689.1 | 5852.7 |
| 67.5° | 271.6 | 276.2 | 298.2 | 423.0 | 547.8 | 690.8 | 3193.0 | 4957.2 | 5177.9 | 5403.8 | 5619.9 |
| 70° | 186.4 | 187.9 | 207.7 | 343.1 | 512.8 | 606.3 | 1819.8 | 3870.1 | 4175.2 | 4572.3 | 4802.0 |
| 72.5° | 133.1 | 131.7 | 133.9 | 212.3 | 526.4 | 602.5 | 956.3 | 2547.0 | 2973.9 | 3322.3 | 3571.1 |
| 75° | 118.7 | 114.9 | 105.0 | 131.7 | 384.2 | 658.1 | 640.6 | 1499.5 | 1824.3 | 2141.5 | 2396.5 |
| 77.5° | 105.8 | 99.6 | 94.3 | 101.2 | 190.2 | 620.0 | 575.1 | 859.0 | 1024.8 | 1261.4 | 1457.7 |
| 80° | 80.6 | 76.8 | 79.9 | 87.5 | 114.2 | 570.6 | 571.3 | 571.3 | 616.2 | 693.9 | 771.4 |
| 82.5° | 53.3 | 48.7 | 55.5 | 72.3 | 85.9 | 429.8 | 590.3 | 504.4 | 496.0 | 493.0 | 498.3 |
| 85° | 33.5 | 28.9 | 38.8 | 54.0 | 66.2 | 224.4 | 605.6 | 532.5 | 493.8 | 456.4 | 419.2 |
| 87.5° | 12.2 | 13.7 | 19.7 | 31.2 | 43.4 | 97.4 | 531.0 | 469.4 | 442.7 | 396.4 | 353.0 |
| 90° | 8.2 | 7.4 | 10.9 | 17.3 | 18.1 | 25.4 | 88.6 | 138.3 | 86.0 | 47.4 | 40.0 |
| 92.5° | 4.1 | 4.1 | 5.1 | 6.1 | 6.1 | 6.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 95° | 5.1 | 5.1 | 6.1 | 7.2 | 7.2 | 7.2 | 7.2 | 7.7 | 7.8 | 7.9 | 8.0 |
| 97.5° | 7.2 | 7.2 | 8.2 | 8.2 | 9.2 | 9.2 | 12.3 | 11.3 | 11.0 | 10.8 | 10.6 |
| 100° | 8.2 | 8.2 | 9.2 | 10.2 | 12.3 | 21.5 | 29.7 | 28.1 | 27.8 | 27.5 | 27.2 |
| 102.5° | 11.3 | 11.3 | 13.3 | 18.4 | 27.6 | 40.9 | 51.1 | 49.6 | 49.3 | 49.0 | 48.7 |
| 105° | 21.5 | 22.5 | 27.6 | 36.8 | 49.1 | 64.4 | 73.7 | 72.6 | 72.4 | 72.2 | 72.0 |
| 107.5° | 41.9 | 43.0 | 50.1 | 59.3 | 74.7 | 90.0 | 97.2 | 96.7 | 96.6 | 96.5 | 96.4 |



REPORT NUMBER: P226815

CATALOG NUMBER: IST-AF-800-LED-E1-SL2-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 60° | 61° | 62° | 63° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 67.5 | 69.6 | 75.7 | 89.0 | 104.3 | 116.6 | 122.8 | 123.3 | 123.4 | 123.5 | 123.6 |
| 112.5° | 101.3 | 101.3 | 108.4 | 123.8 | 137.1 | 146.3 | 151.4 | 152.4 | 152.6 | 152.8 | 153.0 |
| 115° | 143.2 | 142.2 | 150.4 | 162.6 | 171.9 | 178.0 | 183.1 | 184.6 | 184.9 | 185.3 | 185.6 |
| 117.5° | 188.2 | 188.2 | 193.3 | 201.5 | 206.6 | 209.7 | 215.8 | 217.9 | 218.3 | 218.7 | 219.1 |
| 120° | 230.2 | 228.1 | 231.2 | 238.3 | 242.4 | 248.6 | 251.6 | 253.7 | 254.1 | 254.5 | 254.9 |
| 122.5° | 269.0 | 266.0 | 267.0 | 273.1 | 277.2 | 283.4 | 285.4 | 287.4 | 287.9 | 288.3 | 288.7 |
| 125° | 304.8 | 300.7 | 302.8 | 305.9 | 312.0 | 317.1 | 320.2 | 321.2 | 321.4 | 321.6 | 321.8 |
| 127.5° | 337.6 | 336.6 | 336.6 | 340.6 | 346.8 | 347.8 | 352.9 | 353.4 | 353.5 | 353.6 | 353.7 |
| 130° | 371.3 | 369.3 | 370.3 | 374.4 | 378.5 | 380.5 | 385.7 | 387.7 | 388.1 | 388.5 | 388.9 |
| 132.5° | 405.1 | 403.0 | 402.0 | 410.2 | 413.3 | 414.3 | 420.4 | 423.0 | 423.5 | 424.0 | 424.5 |
| 135° | 438.8 | 435.8 | 435.8 | 441.9 | 445.0 | 447.0 | 453.2 | 455.7 | 456.2 | 456.7 | 457.3 |
| 137.5° | 470.6 | 467.5 | 469.5 | 470.6 | 474.6 | 478.7 | 483.9 | 484.9 | 485.1 | 485.3 | 485.5 |
| 140° | 499.2 | 496.1 | 498.2 | 500.2 | 502.3 | 508.4 | 511.5 | 512.5 | 512.7 | 512.9 | 513.1 |
| 142.5° | 529.9 | 526.8 | 528.9 | 529.9 | 533.0 | 537.0 | 539.1 | 542.2 | 542.8 | 543.4 | 544.0 |
| 145° | 562.6 | 558.5 | 556.5 | 559.6 | 562.6 | 563.6 | 568.8 | 571.8 | 572.4 | 573.1 | 573.7 |
| 147.5° | 588.2 | 585.1 | 584.1 | 587.2 | 587.2 | 588.2 | 593.3 | 595.9 | 596.4 | 596.9 | 597.4 |
| 150° | 608.7 | 605.6 | 606.6 | 606.6 | 606.6 | 606.6 | 610.7 | 612.2 | 612.5 | 612.8 | 613.2 |
| 152.5° | 625.0 | 622.0 | 622.0 | 623.0 | 624.0 | 624.0 | 625.0 | 626.6 | 626.9 | 627.2 | 627.5 |
| 155° | 643.4 | 639.3 | 639.3 | 641.4 | 644.5 | 642.4 | 640.4 | 642.9 | 643.4 | 643.9 | 644.5 |
| 157.5° | 660.8 | 657.8 | 657.8 | 658.8 | 660.8 | 659.8 | 658.8 | 660.8 | 661.2 | 661.6 | 662.1 |
| 160° | 678.2 | 675.1 | 674.1 | 671.1 | 670.0 | 670.0 | 673.1 | 676.2 | 676.8 | 677.4 | 678.0 |
| 162.5° | 688.4 | 684.4 | 684.4 | 680.3 | 676.2 | 678.2 | 682.3 | 684.4 | 684.8 | 685.2 | 685.6 |
| 165° | 696.6 | 693.6 | 691.5 | 691.5 | 688.4 | 688.4 | 687.4 | 690.0 | 690.5 | 691.0 | 691.5 |
| 167.5° | 705.8 | 702.8 | 699.7 | 701.7 | 703.8 | 700.7 | 693.6 | 696.6 | 697.2 | 697.9 | 698.5 |
| 170° | 714.0 | 711.0 | 707.9 | 707.9 | 708.9 | 706.9 | 701.7 | 703.3 | 703.6 | 703.9 | 704.2 |
| 172.5° | 715.0 | 713.0 | 711.0 | 708.9 | 705.8 | 705.8 | 704.8 | 706.3 | 706.7 | 707.0 | 707.3 |
| 175° | 716.1 | 714.0 | 713.0 | 711.0 | 706.9 | 705.8 | 705.8 | 708.4 | 708.9 | 709.4 | 709.9 |
| 177.5° | 723.2 | 721.2 | 716.1 | 715.0 | 713.0 | 711.0 | 709.9 | 712.5 | 713.0 | 713.5 | 714.0 |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |



REPORT NUMBER: P226815

CATALOG NUMBER: IST-AF-800-LED-E1-SL2-ULG

CANDELA DISTRIBUTION (continued):

| | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 |
| 2.5° | 1045.4 | 1049.1 | 1050.7 | 1049.1 | 1049.9 | 1054.5 | 1052.9 | 1055.2 | 1055.2 | 1056.7 | 1056.7 |
| 5° | 1011.1 | 1014.2 | 1020.2 | 1019.5 | 1025.5 | 1027.9 | 1030.1 | 1033.2 | 1037.0 | 1039.2 | 1043.8 |
| 7.5° | 970.8 | 976.8 | 982.1 | 985.2 | 989.0 | 996.7 | 998.9 | 1005.8 | 1011.8 | 1017.9 | 1022.4 |
| 10° | 931.9 | 940.3 | 946.4 | 948.7 | 957.1 | 960.9 | 969.2 | 974.6 | 982.1 | 989.8 | 996.7 |
| 12.5° | 899.3 | 906.8 | 909.9 | 917.5 | 925.2 | 932.7 | 936.5 | 946.4 | 954.0 | 963.9 | 973.0 |
| 15° | 874.9 | 882.5 | 888.6 | 894.0 | 901.5 | 909.1 | 915.2 | 925.2 | 934.3 | 944.1 | 952.5 |
| 17.5° | 859.7 | 864.3 | 871.9 | 876.5 | 885.6 | 894.7 | 901.5 | 913.0 | 922.8 | 931.2 | 942.6 |
| 20° | 848.2 | 853.6 | 860.4 | 867.3 | 875.6 | 887.1 | 893.1 | 905.3 | 916.0 | 925.9 | 936.5 |
| 22.5° | 842.2 | 847.5 | 854.4 | 861.2 | 870.3 | 879.4 | 889.4 | 900.0 | 911.4 | 922.1 | 932.7 |
| 25° | 839.9 | 844.4 | 850.6 | 857.4 | 867.3 | 877.2 | 885.6 | 897.7 | 907.6 | 919.0 | 931.9 |
| 27.5° | 840.7 | 843.7 | 850.6 | 856.6 | 866.5 | 875.6 | 884.0 | 896.2 | 907.6 | 918.3 | 931.2 |
| 30° | 843.7 | 846.0 | 852.8 | 858.2 | 866.5 | 875.6 | 883.2 | 896.2 | 906.1 | 917.5 | 931.2 |
| 32.5° | 854.4 | 857.4 | 860.4 | 864.3 | 871.9 | 878.7 | 887.8 | 899.3 | 908.4 | 919.7 | 931.2 |
| 35° | 879.4 | 877.2 | 879.4 | 881.0 | 886.3 | 893.1 | 900.0 | 909.9 | 918.3 | 928.1 | 940.3 |
| 37.5° | 919.0 | 914.4 | 916.0 | 915.2 | 915.2 | 919.7 | 926.6 | 933.4 | 940.3 | 950.2 | 962.4 |
| 40° | 992.1 | 980.6 | 977.6 | 969.2 | 967.0 | 970.8 | 975.3 | 976.1 | 984.5 | 997.4 | 1002.7 |
| 42.5° | 1086.4 | 1071.1 | 1073.5 | 1059.8 | 1056.0 | 1051.4 | 1057.5 | 1053.6 | 1059.0 | 1067.3 | 1078.8 |
| 45° | 1235.5 | 1221.1 | 1205.9 | 1183.8 | 1188.4 | 1171.6 | 1167.1 | 1168.5 | 1167.8 | 1170.9 | 1184.6 |
| 47.5° | 1413.5 | 1394.5 | 1384.7 | 1376.3 | 1360.3 | 1350.4 | 1337.4 | 1318.5 | 1323.0 | 1329.1 | 1341.3 |
| 50° | 1673.8 | 1667.6 | 1648.6 | 1621.2 | 1617.4 | 1603.0 | 1599.2 | 1582.4 | 1576.4 | 1575.5 | 1574.8 |
| 52.5° | 2021.4 | 1981.9 | 1974.2 | 1948.3 | 1928.6 | 1914.9 | 1910.4 | 1886.7 | 1863.1 | 1876.8 | 1875.3 |
| 55° | 2445.2 | 2412.4 | 2370.6 | 2347.8 | 2331.8 | 2299.1 | 2290.7 | 2261.0 | 2247.3 | 2239.8 | 2220.7 |
| 57.5° | 3157.2 | 3042.4 | 2956.4 | 2913.8 | 2853.7 | 2792.9 | 2771.5 | 2710.6 | 2663.5 | 2630.0 | 2632.3 |
| 60° | 4398.8 | 4194.2 | 3953.0 | 3845.0 | 3594.6 | 3558.1 | 3386.3 | 3344.4 | 3240.9 | 3172.5 | 3132.9 |
| 62.5° | 5486.7 | 5431.3 | 5315.6 | 5158.1 | 4907.0 | 4617.9 | 4487.9 | 4229.2 | 4026.8 | 3938.6 | 3816.1 |
| 65° | 6006.4 | 6084.7 | 6116.6 | 6087.0 | 5986.6 | 5810.1 | 5654.9 | 5402.3 | 5063.0 | 4871.3 | 4633.1 |
| 66° | 5979.8 | 6096.2 | 6154.7 | 6185.2 | 6148.7 | 6044.4 | 5881.6 | 5673.9 | 5411.4 | 5119.3 | 4852.3 |
| 67.5° | 5785.0 | 5898.3 | 5979.8 | 6072.5 | 6072.5 | 6039.8 | 5973.6 | 5835.2 | 5649.6 | 5394.7 | 5155.1 |
| 70° | 4989.2 | 5142.9 | 5286.7 | 5314.8 | 5393.9 | 5369.6 | 5422.0 | 5333.9 | 5289.7 | 5183.2 | 5054.6 |
| 72.5° | 3886.8 | 4015.4 | 4138.7 | 4261.9 | 4241.4 | 4214.8 | 4209.4 | 4227.7 | 4137.8 | 4169.9 | 4136.4 |
| 75° | 2585.1 | 2806.6 | 2932.8 | 2920.6 | 2929.0 | 2935.9 | 2879.5 | 2754.0 | 2851.4 | 2728.1 | 2769.2 |
| 77.5° | 1571.0 | 1673.8 | 1707.9 | 1669.9 | 1620.5 | 1556.5 | 1453.8 | 1393.8 | 1307.7 | 1314.6 | 1257.6 |
| 80° | 823.9 | 836.9 | 809.5 | 732.6 | 690.8 | 652.7 | 535.6 | 483.1 | 434.4 | 416.1 | 375.0 |
| 82.5° | 472.4 | 441.3 | 407.7 | 381.9 | 332.5 | 299.0 | 253.4 | 224.4 | 193.2 | 165.8 | 156.0 |
| 85° | 382.7 | 340.8 | 309.6 | 280.7 | 247.2 | 217.6 | 179.5 | 149.9 | 127.1 | 110.3 | 106.5 |
| 87.5° | 315.7 | 286.8 | 254.8 | 227.5 | 194.8 | 164.3 | 127.1 | 98.9 | 78.4 | 63.1 | 58.6 |
| 90° | 37.1 | 47.3 | 36.6 | 24.4 | 32.0 | 21.4 | 16.1 | 16.8 | 15.2 | 15.2 | 16.1 |
| 92.5° | 7.2 | 7.2 | 7.1 | 7.0 | 6.9 | 6.8 | 6.6 | 6.5 | 6.4 | 6.3 | 6.2 |
| 95° | 8.1 | 8.2 | 8.1 | 8.0 | 7.9 | 7.8 | 7.7 | 7.6 | 7.5 | 7.4 | 7.3 |
| 97.5° | 10.4 | 10.2 | 10.1 | 10.0 | 9.9 | 9.8 | 9.7 | 9.6 | 9.5 | 9.4 | 9.3 |
| 100° | 26.9 | 26.6 | 26.3 | 26.0 | 25.7 | 25.4 | 25.1 | 24.8 | 24.4 | 24.1 | 23.8 |
| 102.5° | 48.4 | 48.1 | 47.6 | 47.1 | 46.5 | 46.0 | 45.5 | 45.0 | 44.5 | 44.0 | 43.5 |
| 105° | 71.8 | 71.6 | 71.1 | 70.6 | 70.1 | 69.6 | 69.0 | 68.5 | 68.0 | 67.5 | 67.0 |
| 107.5° | 96.3 | 96.2 | 95.7 | 95.3 | 94.9 | 94.5 | 94.1 | 93.7 | 93.3 | 92.9 | 92.5 |



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CATALOG NUMBER: IST-AF-800-LED-E1-SL2-ULG

CANDELA DISTRIBUTION (continued):

| | 64° | 65° | 66° | 67° | 68° | 69° | 70° | 71° | 72° | 73° | 74° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 123.7 | 123.8 | 123.6 | 123.4 | 123.2 | 123.0 | 122.8 | 122.5 | 122.3 | 122.1 | 121.9 |
| 112.5° | 153.2 | 153.4 | 153.3 | 153.2 | 153.1 | 153.0 | 152.9 | 152.8 | 152.7 | 152.6 | 152.5 |
| 115° | 185.9 | 186.2 | 185.9 | 185.6 | 185.3 | 184.9 | 184.6 | 184.3 | 184.0 | 183.7 | 183.4 |
| 117.5° | 219.5 | 219.9 | 219.4 | 218.9 | 218.4 | 217.9 | 217.4 | 216.9 | 216.4 | 215.8 | 215.3 |
| 120° | 255.3 | 255.7 | 255.2 | 254.7 | 254.2 | 253.7 | 253.2 | 252.7 | 252.2 | 251.6 | 251.1 |
| 122.5° | 289.1 | 289.5 | 289.0 | 288.5 | 288.0 | 287.4 | 286.9 | 286.4 | 285.9 | 285.4 | 284.9 |
| 125° | 322.0 | 322.2 | 321.7 | 321.2 | 320.7 | 320.2 | 319.7 | 319.2 | 318.6 | 318.1 | 317.6 |
| 127.5° | 353.8 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 | 353.9 |
| 130° | 389.3 | 389.7 | 389.7 | 389.7 | 389.7 | 389.7 | 389.7 | 389.7 | 389.7 | 389.7 | 389.7 |
| 132.5° | 425.0 | 425.5 | 425.3 | 425.1 | 424.9 | 424.7 | 424.5 | 424.3 | 424.1 | 423.9 | 423.7 |
| 135° | 457.8 | 458.3 | 458.2 | 458.1 | 458.0 | 457.9 | 457.8 | 457.7 | 457.6 | 457.5 | 457.4 |
| 137.5° | 485.7 | 485.9 | 486.0 | 486.1 | 486.2 | 486.3 | 486.4 | 486.5 | 486.6 | 486.7 | 486.8 |
| 140° | 513.3 | 513.5 | 513.7 | 513.9 | 514.1 | 514.3 | 514.5 | 514.7 | 515.0 | 515.2 | 515.4 |
| 142.5° | 544.6 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 | 545.2 |
| 145° | 574.3 | 574.9 | 574.8 | 574.7 | 574.6 | 574.5 | 574.4 | 574.3 | 574.2 | 574.1 | 574.0 |
| 147.5° | 597.9 | 598.4 | 598.5 | 598.6 | 598.7 | 598.8 | 598.9 | 599.0 | 599.1 | 599.2 | 599.3 |
| 150° | 613.5 | 613.8 | 614.1 | 614.4 | 614.7 | 615.0 | 615.3 | 615.6 | 615.9 | 616.2 | 616.5 |
| 152.5° | 627.8 | 628.1 | 628.5 | 628.9 | 629.3 | 629.7 | 630.1 | 630.5 | 631.0 | 631.4 | 631.8 |
| 155° | 645.0 | 645.5 | 646.0 | 646.5 | 647.0 | 647.5 | 648.0 | 648.6 | 649.1 | 649.6 | 650.1 |
| 157.5° | 662.5 | 662.9 | 663.1 | 663.3 | 663.5 | 663.7 | 663.9 | 664.1 | 664.3 | 664.5 | 664.7 |
| 160° | 678.6 | 679.2 | 678.9 | 678.6 | 678.3 | 678.0 | 677.7 | 677.4 | 677.1 | 676.8 | 676.5 |
| 162.5° | 686.0 | 686.4 | 686.3 | 686.2 | 686.1 | 686.0 | 685.9 | 685.8 | 685.7 | 685.6 | 685.5 |
| 165° | 692.0 | 692.5 | 692.8 | 693.2 | 693.5 | 693.8 | 694.1 | 694.4 | 694.7 | 695.0 | 695.3 |
| 167.5° | 699.1 | 699.7 | 700.1 | 700.5 | 700.9 | 701.3 | 701.7 | 702.2 | 702.6 | 703.0 | 703.4 |
| 170° | 704.5 | 704.8 | 705.3 | 705.8 | 706.3 | 706.9 | 707.4 | 707.9 | 708.4 | 708.9 | 709.4 |
| 172.5° | 707.6 | 707.9 | 708.1 | 708.3 | 708.5 | 708.7 | 708.9 | 709.1 | 709.3 | 709.5 | 709.7 |
| 175° | 710.4 | 711.0 | 711.1 | 711.2 | 711.3 | 711.4 | 711.5 | 711.6 | 711.7 | 711.8 | 711.9 |
| 177.5° | 714.5 | 715.0 | 715.2 | 715.5 | 715.7 | 715.9 | 716.1 | 716.3 | 716.5 | 716.7 | 716.9 |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |



REPORT NUMBER: P226815

CATALOG NUMBER: IST-AF-800-LED-E1-SL2-ULG

CANDELA DISTRIBUTION (continued):

| | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 |
| 2.5° | 1059.0 | 1059.0 | 1060.5 | 1062.0 | 1062.8 | 1062.8 | 1062.8 | 1064.4 | 1065.1 | 1062.8 | 1065.1 |
| 5° | 1046.1 | 1049.9 | 1052.9 | 1055.2 | 1056.0 | 1058.2 | 1060.5 | 1062.0 | 1064.4 | 1064.4 | 1065.8 |
| 7.5° | 1028.6 | 1035.4 | 1039.2 | 1043.0 | 1046.8 | 1050.7 | 1055.2 | 1058.2 | 1059.8 | 1062.8 | 1065.1 |
| 10° | 1006.5 | 1014.9 | 1022.4 | 1028.6 | 1033.9 | 1041.5 | 1047.6 | 1052.2 | 1059.0 | 1059.8 | 1065.1 |
| 12.5° | 983.0 | 995.1 | 1001.2 | 1012.6 | 1020.2 | 1031.6 | 1037.7 | 1044.5 | 1052.2 | 1056.0 | 1062.0 |
| 15° | 966.2 | 976.8 | 988.3 | 998.9 | 1011.1 | 1024.8 | 1032.4 | 1041.5 | 1052.2 | 1060.5 | 1068.2 |
| 17.5° | 953.3 | 967.7 | 980.6 | 994.3 | 1009.6 | 1024.0 | 1035.4 | 1045.4 | 1059.0 | 1063.6 | 1071.1 |
| 20° | 949.5 | 965.5 | 978.4 | 992.8 | 1008.8 | 1027.9 | 1041.5 | 1052.2 | 1065.8 | 1073.5 | 1080.3 |
| 22.5° | 948.0 | 963.1 | 978.4 | 995.8 | 1013.3 | 1033.2 | 1047.6 | 1061.3 | 1075.0 | 1081.9 | 1087.2 |
| 25° | 946.4 | 962.4 | 979.2 | 998.9 | 1017.9 | 1038.5 | 1055.2 | 1068.2 | 1081.1 | 1087.9 | 1092.5 |
| 27.5° | 946.4 | 963.1 | 981.4 | 1001.2 | 1021.7 | 1044.5 | 1060.5 | 1072.7 | 1084.1 | 1090.2 | 1091.7 |
| 30° | 945.6 | 963.1 | 980.6 | 1002.7 | 1024.8 | 1048.3 | 1065.8 | 1077.3 | 1087.2 | 1091.0 | 1089.4 |
| 32.5° | 947.2 | 965.5 | 984.5 | 1006.5 | 1029.3 | 1052.2 | 1070.4 | 1083.3 | 1088.7 | 1087.9 | 1087.2 |
| 35° | 954.8 | 971.5 | 993.6 | 1015.7 | 1039.2 | 1060.5 | 1078.0 | 1087.2 | 1091.7 | 1090.2 | 1086.4 |
| 37.5° | 975.3 | 992.1 | 1014.2 | 1038.5 | 1056.7 | 1081.1 | 1097.0 | 1103.9 | 1104.7 | 1100.1 | 1091.0 |
| 40° | 1017.9 | 1034.6 | 1054.5 | 1081.1 | 1103.2 | 1119.8 | 1135.1 | 1142.7 | 1138.1 | 1129.7 | 1119.8 |
| 42.5° | 1085.7 | 1106.9 | 1130.6 | 1151.8 | 1177.7 | 1200.5 | 1204.3 | 1208.9 | 1201.3 | 1185.3 | 1173.1 |
| 45° | 1194.4 | 1207.4 | 1237.8 | 1253.7 | 1287.3 | 1298.6 | 1307.0 | 1309.3 | 1292.6 | 1279.6 | 1258.3 |
| 47.5° | 1351.1 | 1376.3 | 1397.6 | 1412.8 | 1437.1 | 1452.3 | 1469.1 | 1461.5 | 1448.5 | 1426.5 | 1398.3 |
| 50° | 1597.6 | 1613.6 | 1641.0 | 1668.4 | 1694.2 | 1705.0 | 1705.0 | 1697.3 | 1688.9 | 1646.3 | 1612.1 |
| 52.5° | 1900.4 | 1902.0 | 1941.6 | 1974.2 | 1996.3 | 1980.3 | 1999.4 | 1980.3 | 1975.0 | 1945.3 | 1917.2 |
| 55° | 2251.1 | 2236.7 | 2284.7 | 2313.5 | 2333.4 | 2352.4 | 2348.5 | 2346.2 | 2326.5 | 2292.9 | 2258.8 |
| 57.5° | 2584.4 | 2626.2 | 2649.0 | 2691.7 | 2701.5 | 2714.5 | 2709.2 | 2701.5 | 2690.2 | 2671.1 | 2655.9 |
| 60° | 3065.2 | 3093.3 | 3113.9 | 3122.3 | 3150.4 | 3154.2 | 3173.2 | 3142.0 | 3149.7 | 3127.6 | 3079.6 |
| 62.5° | 3719.4 | 3689.1 | 3705.0 | 3705.0 | 3696.6 | 3667.0 | 3682.9 | 3695.1 | 3674.5 | 3656.3 | 3648.7 |
| 65° | 4452.1 | 4354.0 | 4259.6 | 4243.6 | 4200.2 | 4190.4 | 4178.2 | 4147.8 | 4134.9 | 4102.9 | 4077.1 |
| 66° | 4671.2 | 4519.0 | 4430.0 | 4375.3 | 4322.8 | 4311.3 | 4294.7 | 4262.6 | 4236.8 | 4192.0 | 4148.6 |
| 67.5° | 4916.9 | 4720.6 | 4586.7 | 4509.2 | 4444.5 | 4401.9 | 4368.4 | 4322.8 | 4281.7 | 4214.8 | 4145.5 |
| 70° | 4901.0 | 4738.9 | 4577.6 | 4459.7 | 4362.3 | 4274.8 | 4223.0 | 4124.9 | 4041.3 | 3945.4 | 3866.2 |
| 72.5° | 4118.1 | 4089.1 | 3995.6 | 3929.5 | 3810.0 | 3763.5 | 3626.7 | 3564.3 | 3448.6 | 3324.6 | 3286.5 |
| 75° | 2862.8 | 2749.5 | 2701.5 | 2674.9 | 2622.4 | 2477.9 | 2383.5 | 2404.0 | 2268.6 | 2147.7 | 2078.4 |
| 77.5° | 1251.5 | 1274.3 | 1141.9 | 1082.6 | 1037.0 | 958.6 | 885.6 | 835.3 | 806.4 | 787.4 | 701.4 |
| 80° | 346.2 | 302.1 | 298.2 | 276.9 | 272.3 | 242.6 | 246.5 | 225.2 | 210.7 | 207.7 | 200.8 |
| 82.5° | 151.4 | 148.3 | 143.8 | 141.5 | 139.2 | 136.2 | 132.4 | 131.7 | 127.1 | 123.3 | 124.0 |
| 85° | 100.5 | 99.6 | 97.4 | 95.1 | 91.2 | 85.9 | 82.1 | 79.1 | 79.9 | 76.1 | 75.3 |
| 87.5° | 58.6 | 57.1 | 56.3 | 53.3 | 52.5 | 48.0 | 48.7 | 44.9 | 44.1 | 43.4 | 41.1 |
| 90° | 17.6 | 18.1 | 20.3 | 19.2 | 16.0 | 22.6 | 20.2 | 18.4 | 19.0 | 16.5 | 16.3 |
| 92.5° | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 95° | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 97.5° | 9.2 | 9.1 | 9.0 | 8.9 | 8.8 | 8.7 | 8.6 | 8.5 | 8.4 | 8.3 | 8.2 |
| 100° | 23.5 | 23.1 | 22.7 | 22.3 | 21.9 | 21.5 | 21.1 | 20.7 | 20.3 | 19.8 | 19.4 |
| 102.5° | 43.0 | 42.7 | 42.4 | 42.0 | 41.7 | 41.4 | 41.1 | 40.8 | 40.5 | 40.2 | 39.9 |
| 105° | 66.5 | 66.1 | 65.7 | 65.3 | 64.9 | 64.4 | 64.0 | 63.6 | 63.2 | 62.8 | 62.4 |
| 107.5° | 92.1 | 91.8 | 91.5 | 91.1 | 90.8 | 90.5 | 90.2 | 89.9 | 89.6 | 89.3 | 89.0 |



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° | 84° | 85° | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110° | 121.7 | 121.4 | 121.1 | 120.8 | 120.5 | 120.2 | 119.9 | 119.6 | 119.3 | 119.0 | 118.7 | 0° |
| 112.5° | 152.4 | 152.2 | 152.0 | 151.8 | 151.6 | 151.4 | 151.2 | 151.0 | 150.8 | 150.6 | 150.4 | 2.5° |
| 115° | 183.1 | 182.9 | 182.7 | 182.5 | 182.3 | 182.1 | 181.9 | 181.7 | 181.5 | 181.3 | 181.1 | 5° |
| 117.5° | 214.8 | 214.6 | 214.4 | 214.2 | 214.0 | 213.8 | 213.6 | 213.4 | 213.2 | 213.0 | 212.8 | 7.5° |
| 120° | 250.6 | 250.4 | 250.2 | 250.0 | 249.8 | 249.6 | 249.4 | 249.2 | 249.0 | 248.8 | 248.6 | 10° |
| 122.5° | 284.4 | 284.2 | 284.0 | 283.8 | 283.6 | 283.4 | 283.2 | 282.9 | 282.7 | 282.5 | 282.3 | 12.5° |
| 125° | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 15° |
| 127.5° | 353.9 | 353.8 | 353.7 | 353.6 | 353.5 | 353.4 | 353.3 | 353.2 | 353.1 | 353.0 | 352.9 | 17.5° |
| 130° | 389.7 | 389.5 | 389.3 | 389.1 | 388.9 | 388.7 | 388.5 | 388.3 | 388.1 | 387.9 | 387.7 | 20° |
| 132.5° | 423.5 | 423.5 | 423.5 | 423.5 | 423.5 | 423.5 | 423.5 | 423.5 | 423.5 | 423.5 | 423.5 | 22.5° |
| 135° | 457.3 | 457.6 | 457.9 | 458.2 | 458.5 | 458.8 | 459.1 | 459.4 | 459.7 | 460.0 | 460.3 | 25° |
| 137.5° | 486.9 | 487.4 | 487.9 | 488.5 | 489.0 | 489.5 | 490.0 | 490.5 | 491.0 | 491.5 | 492.0 | 27.5° |
| 140° | 515.6 | 516.1 | 516.6 | 517.1 | 517.6 | 518.1 | 518.6 | 519.1 | 519.7 | 520.2 | 520.7 | 30° |
| 142.5° | 545.2 | 545.3 | 545.4 | 545.5 | 545.6 | 545.7 | 545.8 | 545.9 | 546.1 | 546.2 | 546.3 | 32.5° |
| 145° | 573.9 | 573.6 | 573.3 | 573.0 | 572.6 | 572.3 | 572.0 | 571.7 | 571.4 | 571.1 | 570.8 | 35° |
| 147.5° | 599.4 | 599.1 | 598.8 | 598.5 | 598.2 | 597.9 | 597.6 | 597.3 | 597.0 | 596.7 | 596.4 | 37.5° |
| 150° | 616.8 | 617.1 | 617.5 | 617.8 | 618.1 | 618.4 | 618.7 | 619.0 | 619.3 | 619.6 | 619.9 | 40° |
| 152.5° | 632.2 | 632.7 | 633.2 | 633.7 | 634.2 | 634.7 | 635.3 | 635.8 | 636.3 | 636.8 | 637.3 | 42.5° |
| 155° | 650.6 | 650.8 | 651.0 | 651.2 | 651.4 | 651.6 | 651.8 | 652.0 | 652.2 | 652.4 | 652.6 | 45° |
| 157.5° | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 664.9 | 47.5° |
| 160° | 676.2 | 676.1 | 676.0 | 675.9 | 675.8 | 675.7 | 675.6 | 675.5 | 675.4 | 675.2 | 675.1 | 50° |
| 162.5° | 685.4 | 685.2 | 685.0 | 684.8 | 684.6 | 684.4 | 684.1 | 683.9 | 683.7 | 683.5 | 683.3 | 52.5° |
| 165° | 695.6 | 695.4 | 695.2 | 695.0 | 694.8 | 694.6 | 694.4 | 694.2 | 694.0 | 693.8 | 693.6 | 55° |
| 167.5° | 703.8 | 703.8 | 703.8 | 703.8 | 703.8 | 703.8 | 703.8 | 703.8 | 703.8 | 703.8 | 703.8 | 57.5° |
| 170° | 709.9 | 710.1 | 710.3 | 710.5 | 710.7 | 711.0 | 711.2 | 711.4 | 711.6 | 711.8 | 712.0 | 60° |
| 172.5° | 709.9 | 710.1 | 710.3 | 710.5 | 710.7 | 711.0 | 711.2 | 711.4 | 711.6 | 711.8 | 712.0 | 62.5° |
| 175° | 712.0 | 711.8 | 711.6 | 711.4 | 711.2 | 711.0 | 710.7 | 710.5 | 710.3 | 710.1 | 709.9 | 65° |
| 177.5° | 717.1 | 716.8 | 716.5 | 716.2 | 715.9 | 715.6 | 715.2 | 714.9 | 714.6 | 714.3 | 714.0 | 66° |
| 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 67.5° |
| | | | | | | | | | | | | 70° |
| | | | | | | | | | | | | 72.5° |
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| | | | | | | | | | | | | 77.5° |
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| | | | | | | | | | | | | 102.5° |
| | | | | | | | | | | | | 105° |
| | | | | | | | | | | | | 107.5° |

NUMBER: P226815
 NUMBER: IST-AF-800-LED-E1-SL2-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 86° | 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 110° | 86° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 1065.8 | 110° | 118.9 |
| 1067.3 | 1068.9 | 1069.7 | 1068.9 | 1070.4 | 1069.7 | 1070.4 | 1069.7 | 1065.8 | 1065.1 | 1064.4 | 112.5° | 150.4 |
| 1068.9 | 1072.0 | 1072.7 | 1073.5 | 1072.0 | 1073.5 | 1070.4 | 1058.2 | 1044.5 | 1029.3 | 1017.1 | 115° | 181.3 |
| 1070.4 | 1074.2 | 1076.6 | 1076.6 | 1077.3 | 1075.7 | 1064.4 | 1037.7 | 1005.8 | 973.8 | 949.5 | 117.5° | 213.0 |
| 1069.7 | 1075.0 | 1077.3 | 1078.0 | 1078.0 | 1075.0 | 1047.6 | 1004.9 | 956.3 | 907.6 | 858.2 | 120° | 248.6 |
| 1067.3 | 1072.0 | 1075.7 | 1075.7 | 1076.6 | 1065.8 | 1023.3 | 962.4 | 893.1 | 820.1 | 753.9 | 122.5° | 282.5 |
| 1072.0 | 1076.6 | 1076.6 | 1076.6 | 1075.7 | 1057.5 | 997.4 | 909.1 | 816.3 | 717.4 | 619.3 | 125° | 317.1 |
| 1078.8 | 1081.1 | 1079.5 | 1079.5 | 1076.6 | 1049.1 | 968.4 | 856.6 | 734.9 | 604.1 | 467.1 | 127.5° | 353.3 |
| 1084.8 | 1086.4 | 1085.7 | 1081.9 | 1078.0 | 1040.0 | 938.8 | 801.1 | 637.5 | 467.1 | 330.9 | 130° | 387.9 |
| 1091.0 | 1092.5 | 1088.7 | 1082.6 | 1077.3 | 1027.9 | 903.1 | 730.4 | 527.2 | 319.6 | 219.1 | 132.5° | 423.7 |
| 1091.7 | 1093.2 | 1086.4 | 1078.0 | 1070.4 | 1009.6 | 859.7 | 655.0 | 406.2 | 206.9 | 171.1 | 135° | 460.5 |
| 1091.0 | 1089.4 | 1078.0 | 1067.3 | 1059.0 | 987.5 | 811.7 | 561.5 | 270.9 | 156.0 | 149.1 | 137.5° | 492.2 |
| 1085.7 | 1078.8 | 1069.7 | 1057.5 | 1045.4 | 963.1 | 763.8 | 457.3 | 171.1 | 135.4 | 135.4 | 140° | 521.1 |
| 1078.0 | 1071.1 | 1059.8 | 1043.8 | 1030.1 | 939.6 | 709.0 | 350.8 | 137.0 | 124.8 | 126.3 | 142.5° | 546.7 |
| 1075.0 | 1067.3 | 1050.7 | 1033.9 | 1016.4 | 918.3 | 651.2 | 235.9 | 123.3 | 117.9 | 118.7 | 145° | 571.2 |
| 1081.1 | 1068.2 | 1051.4 | 1032.4 | 1011.8 | 900.0 | 591.2 | 164.3 | 116.4 | 110.3 | 111.8 | 147.5° | 596.8 |
| 1101.6 | 1089.4 | 1069.7 | 1045.4 | 1023.3 | 889.4 | 527.2 | 136.2 | 109.6 | 104.2 | 104.2 | 150° | 620.7 |
| 1151.0 | 1135.1 | 1108.5 | 1079.5 | 1052.9 | 896.2 | 470.1 | 124.0 | 104.2 | 98.9 | 98.9 | 152.5° | 638.3 |
| 1230.9 | 1211.9 | 1180.7 | 1148.1 | 1113.0 | 929.7 | 405.5 | 119.5 | 100.5 | 92.8 | 91.2 | 155° | 653.3 |
| 1367.9 | 1342.8 | 1301.7 | 1262.9 | 1221.1 | 987.5 | 340.0 | 116.4 | 95.9 | 89.0 | 85.9 | 157.5° | 665.9 |
| 1583.2 | 1545.9 | 1497.2 | 1446.2 | 1395.3 | 1093.2 | 288.4 | 113.3 | 92.8 | 85.9 | 83.0 | 160° | 676.4 |
| 1860.1 | 1835.0 | 1774.1 | 1707.2 | 1646.3 | 1304.0 | 258.7 | 111.1 | 90.5 | 82.1 | 79.9 | 162.5° | 684.6 |
| 2213.2 | 2172.0 | 2124.1 | 2064.0 | 1991.7 | 1577.1 | 255.6 | 110.3 | 88.3 | 79.1 | 77.6 | 165° | 694.4 |
| 2585.9 | 2570.0 | 2488.5 | 2451.2 | 2372.8 | 1940.7 | 311.2 | 111.8 | 86.7 | 76.8 | 74.6 | 167.5° | 705.0 |
| 3011.2 | 3017.3 | 2941.2 | 2900.1 | 2835.4 | 2401.8 | 495.3 | 116.4 | 86.7 | 74.6 | 72.3 | 170° | 713.0 |
| 3567.3 | 3577.2 | 3487.4 | 3438.8 | 3383.9 | 2918.4 | 778.3 | 124.0 | 89.0 | 72.3 | 70.0 | 172.5° | 713.0 |
| 4023.0 | 3969.8 | 3912.0 | 3826.8 | 3757.5 | 3206.6 | 749.4 | 137.7 | 92.1 | 70.0 | 67.7 | 175° | 711.0 |
| 4070.2 | 4032.2 | 3959.1 | 3867.1 | 3782.6 | 3208.2 | 654.3 | 142.3 | 92.8 | 69.3 | 66.9 | 177.5° | 714.8 |
| 4064.1 | 3996.4 | 3913.5 | 3835.9 | 3752.9 | 3126.0 | 506.0 | 148.3 | 95.1 | 67.7 | 65.5 | 180° | 716.1 |
| 3782.6 | 3687.5 | 3606.8 | 3499.6 | 3412.9 | 2797.4 | 311.2 | 147.6 | 92.1 | 63.1 | 61.6 | | |
| 3119.2 | 3070.5 | 2974.6 | 2888.7 | 2798.2 | 2264.1 | 213.0 | 131.7 | 81.4 | 57.1 | 57.8 | | |
| 2017.6 | 1962.0 | 1864.6 | 1815.9 | 1765.0 | 1448.5 | 165.8 | 107.3 | 69.3 | 50.9 | 53.3 | | |
| 673.3 | 651.2 | 615.5 | 635.3 | 605.6 | 564.5 | 121.7 | 81.4 | 55.5 | 44.1 | 47.2 | | |
| 201.6 | 197.0 | 203.9 | 191.7 | 203.2 | 172.0 | 79.9 | 57.1 | 42.6 | 38.1 | 41.8 | | |
| 119.5 | 117.9 | 117.9 | 117.9 | 114.9 | 107.3 | 52.5 | 39.6 | 32.7 | 31.9 | 35.0 | | |
| 73.0 | 71.5 | 72.3 | 71.5 | 73.0 | 65.5 | 35.8 | 27.4 | 24.3 | 23.6 | 28.1 | | |
| 41.8 | 41.8 | 42.6 | 41.1 | 41.8 | 40.3 | 25.1 | 17.5 | 16.0 | 15.2 | 20.6 | | |
| 17.1 | 17.1 | 14.7 | 14.0 | 14.7 | 17.8 | 16.1 | 14.5 | 11.8 | 10.9 | 15.0 | | |
| 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 7.2 | 7.2 | 6.1 | 6.1 | | |
| 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 8.2 | 7.2 | 7.2 | 7.2 | | |
| 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 9.2 | 10.2 | 12.3 | 9.2 | 9.2 | | |
| 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 23.5 | 26.6 | 29.7 | 21.5 | 12.3 | | |
| 39.7 | 39.5 | 39.3 | 39.1 | 38.9 | 39.9 | 43.0 | 48.1 | 51.1 | 40.9 | 27.6 | | |
| 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 62.4 | 66.5 | 71.6 | 73.7 | 64.4 | 49.1 | | |
| 88.8 | 88.6 | 88.4 | 88.2 | 88.0 | 89.0 | 92.1 | 96.2 | 97.2 | 90.0 | 74.7 | | |

'226815
 IST-AF-800-LED-E1-SL2-ULG

REPORT NUMBER: P226815
 CATALOG NUMBER: IST-AF-80

TION (continued):

CANDELA DISTRIBUTION (con

| 87° | 88° | 89° | 90° | 95° | 105° | 115° | 125° | 135° | 145° | | 155° | 165° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 119.1 | 119.3 | 119.5 | 119.7 | 118.7 | 121.7 | 123.8 | 122.8 | 116.6 | 104.3 | 0° | 1065.8 | 1065.8 |
| 150.4 | 150.4 | 150.4 | 150.4 | 150.4 | 152.4 | 153.4 | 151.4 | 146.3 | 137.1 | 2.5° | 1058.2 | 1052.9 |
| 181.5 | 181.7 | 181.9 | 182.1 | 181.1 | 183.1 | 186.2 | 183.1 | 178.0 | 171.9 | 5° | 998.1 | 983.7 |
| 213.2 | 213.4 | 213.6 | 213.8 | 212.8 | 214.8 | 219.9 | 215.8 | 209.7 | 206.6 | 7.5° | 911.4 | 894.7 |
| 248.6 | 248.6 | 248.6 | 248.6 | 248.6 | 250.6 | 255.7 | 251.6 | 248.6 | 242.4 | 10° | 812.5 | 787.4 |
| 282.7 | 282.9 | 283.2 | 283.4 | 282.3 | 284.4 | 289.5 | 285.4 | 283.4 | 277.2 | 12.5° | 686.2 | 636.8 |
| 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 322.2 | 320.2 | 317.1 | 312.0 | 15° | 540.1 | 473.9 |
| 353.7 | 354.1 | 354.6 | 355.0 | 352.9 | 353.9 | 353.9 | 352.9 | 347.8 | 346.8 | 17.5° | 372.0 | 318.8 |
| 388.1 | 388.3 | 388.5 | 388.7 | 387.7 | 389.7 | 389.7 | 385.7 | 380.5 | 378.5 | 20° | 261.0 | 241.2 |
| 423.9 | 424.1 | 424.3 | 424.5 | 423.5 | 423.5 | 425.5 | 420.4 | 414.3 | 413.3 | 22.5° | 201.6 | 202.3 |
| 460.7 | 460.9 | 461.1 | 461.4 | 460.3 | 457.3 | 458.3 | 453.2 | 447.0 | 445.0 | 25° | 167.4 | 175.0 |
| 492.4 | 492.7 | 492.9 | 493.1 | 492.0 | 486.9 | 485.9 | 483.9 | 478.7 | 474.6 | 27.5° | 147.6 | 155.2 |
| 521.5 | 521.9 | 522.3 | 522.7 | 520.7 | 515.6 | 513.5 | 511.5 | 508.4 | 502.3 | 30° | 135.4 | 142.3 |
| 547.1 | 547.5 | 547.9 | 548.3 | 546.3 | 545.2 | 545.2 | 539.1 | 537.0 | 533.0 | 32.5° | 127.1 | 130.1 |
| 571.6 | 572.0 | 572.4 | 572.9 | 570.8 | 573.9 | 574.9 | 568.8 | 563.6 | 562.6 | 35° | 117.1 | 118.7 |
| 597.2 | 597.6 | 598.0 | 598.4 | 596.4 | 599.4 | 598.4 | 593.3 | 588.2 | 587.2 | 37.5° | 108.8 | 108.8 |
| 621.5 | 622.4 | 623.2 | 624.0 | 619.9 | 616.8 | 613.8 | 610.7 | 606.6 | 606.6 | 40° | 101.2 | 100.5 |
| 639.3 | 640.4 | 641.4 | 642.4 | 637.3 | 632.2 | 628.1 | 625.0 | 624.0 | 624.0 | 42.5° | 94.3 | 93.6 |
| 653.9 | 654.5 | 655.1 | 655.7 | 652.6 | 650.6 | 645.5 | 640.4 | 642.4 | 644.5 | 45° | 87.5 | 88.3 |
| 667.0 | 668.0 | 669.0 | 670.0 | 664.9 | 664.9 | 662.9 | 658.8 | 659.8 | 660.8 | 47.5° | 83.7 | 84.5 |
| 677.6 | 678.8 | 680.1 | 681.3 | 675.1 | 676.2 | 679.2 | 673.1 | 670.0 | 670.0 | 50° | 79.9 | 80.6 |
| 685.8 | 687.0 | 688.2 | 689.5 | 683.3 | 685.4 | 686.4 | 682.3 | 678.2 | 676.2 | 52.5° | 76.8 | 76.8 |
| 695.2 | 696.0 | 696.8 | 697.7 | 693.6 | 695.6 | 692.5 | 687.4 | 688.4 | 688.4 | 55° | 73.8 | 73.0 |
| 706.2 | 707.5 | 708.7 | 709.9 | 703.8 | 703.8 | 699.7 | 693.6 | 700.7 | 703.8 | 57.5° | 71.5 | 70.0 |
| 714.0 | 715.0 | 716.1 | 717.1 | 712.0 | 709.9 | 704.8 | 701.7 | 706.9 | 708.9 | 60° | 69.3 | 67.7 |
| 714.0 | 715.0 | 716.1 | 717.1 | 712.0 | 709.9 | 707.9 | 704.8 | 705.8 | 705.8 | 62.5° | 67.7 | 65.5 |
| 712.0 | 713.0 | 714.0 | 715.0 | 709.9 | 712.0 | 711.0 | 705.8 | 705.8 | 706.9 | 65° | 66.2 | 64.7 |
| 715.7 | 716.5 | 717.3 | 718.1 | 714.0 | 717.1 | 715.0 | 709.9 | 711.0 | 713.0 | 66° | 65.5 | 63.9 |
| 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 67.5° | 64.7 | 63.1 |
| | | | | | | | | | | 70° | 61.6 | 60.1 |
| | | | | | | | | | | 72.5° | 57.1 | 56.3 |
| | | | | | | | | | | 75° | 52.5 | 50.9 |
| | | | | | | | | | | 77.5° | 46.4 | 45.6 |
| | | | | | | | | | | 80° | 39.6 | 38.8 |
| | | | | | | | | | | 82.5° | 33.5 | 31.9 |
| | | | | | | | | | | 85° | 26.6 | 25.1 |
| | | | | | | | | | | 87.5° | 18.2 | 16.8 |
| | | | | | | | | | | 90° | 12.8 | 12.5 |
| | | | | | | | | | | 92.5° | 6.1 | 5.1 |
| | | | | | | | | | | 95° | 7.2 | 6.1 |
| | | | | | | | | | | 97.5° | 8.2 | 8.2 |
| | | | | | | | | | | 100° | 10.2 | 9.2 |
| | | | | | | | | | | 102.5° | 18.4 | 13.3 |
| | | | | | | | | | | 105° | 36.8 | 27.6 |
| | | | | | | | | | | 107.5° | 59.3 | 50.1 |



REPORT NUMBER: P226815

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

0-LED-E1-SL2-ULG

tinued):

| 175° | 180° |
|--------|--------|
| 1065.8 | 1065.8 |
| 1048.3 | 1055.2 |
| 979.2 | 976.8 |
| 881.0 | 881.8 |
| 762.3 | 763.8 |
| 608.7 | 599.4 |
| 435.9 | 439.8 |
| 303.5 | 302.8 |
| 243.5 | 245.0 |
| 208.5 | 208.5 |
| 185.7 | 185.7 |
| 163.6 | 164.3 |
| 148.3 | 149.9 |
| 134.6 | 135.4 |
| 121.0 | 121.7 |
| 109.6 | 109.6 |
| 102.0 | 102.7 |
| 96.7 | 96.7 |
| 91.2 | 91.2 |
| 86.7 | 88.3 |
| 82.1 | 83.0 |
| 77.6 | 78.4 |
| 73.0 | 73.0 |
| 69.3 | 69.3 |
| 66.2 | 65.5 |
| 63.9 | 62.4 |
| 61.6 | 60.9 |
| 60.9 | 60.1 |
| 60.1 | 59.3 |
| 58.6 | 57.8 |
| 56.3 | 55.5 |
| 51.8 | 50.2 |
| 47.2 | 45.6 |
| 43.4 | 41.1 |
| 36.5 | 35.0 |
| 26.6 | 25.1 |
| 16.0 | 16.0 |
| 8.9 | 8.9 |
| 4.1 | 4.1 |
| 5.1 | 5.1 |
| 7.2 | 7.2 |
| 8.2 | 8.2 |
| 11.3 | 11.3 |
| 22.5 | 21.5 |
| 43.0 | 41.9 |

CANDELA DISTRIBUTION (continued):

| | 155° | 165° | 175° |
|--------|-------|-------|-------|
| 110° | 89.0 | 75.7 | 69.6 |
| 112.5° | 123.8 | 108.4 | 101.3 |
| 115° | 162.6 | 150.4 | 142.2 |
| 117.5° | 201.5 | 193.3 | 188.2 |
| 120° | 238.3 | 231.2 | 228.1 |
| 122.5° | 273.1 | 267.0 | 266.0 |
| 125° | 305.9 | 302.8 | 300.7 |
| 127.5° | 340.6 | 336.6 | 336.6 |
| 130° | 374.4 | 370.3 | 369.3 |
| 132.5° | 410.2 | 402.0 | 403.0 |
| 135° | 441.9 | 435.8 | 435.8 |
| 137.5° | 470.6 | 469.5 | 467.5 |
| 140° | 500.2 | 498.2 | 496.1 |
| 142.5° | 529.9 | 528.9 | 526.8 |
| 145° | 559.6 | 556.5 | 558.5 |
| 147.5° | 587.2 | 584.1 | 585.1 |
| 150° | 606.6 | 606.6 | 605.6 |
| 152.5° | 623.0 | 622.0 | 622.0 |
| 155° | 641.4 | 639.3 | 639.3 |
| 157.5° | 658.8 | 657.8 | 657.8 |
| 160° | 671.1 | 674.1 | 675.1 |
| 162.5° | 680.3 | 684.4 | 684.4 |
| 165° | 691.5 | 691.5 | 693.6 |
| 167.5° | 701.7 | 699.7 | 702.8 |
| 170° | 707.9 | 707.9 | 711.0 |
| 172.5° | 708.9 | 711.0 | 713.0 |
| 175° | 711.0 | 713.0 | 714.0 |
| 177.5° | 715.0 | 716.1 | 721.2 |
| 180° | 716.1 | 716.1 | 716.1 |

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180°

67.5
101.3
143.2
188.2
230.2
269.0
304.8
337.6
371.3
405.1
438.8
470.6
499.2
529.9
562.6
588.2
608.7
625.0
643.4
660.8
678.2
688.4
696.6
705.8
714.0
715.0
716.1
723.2
716.1

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