

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: P227340

Luminaire Tested: **IST-AF-600-LED-E1-SLR-ULG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35948)-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-600-LED-E1-SLR-ULG
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE WITH UPLIGHT
LIGHT SQUARE WITH ACCULED OPTICS-90° SPILL LIGHT ELIMINATOR RIGHT, 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: 5386.2 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 0.5' x H: 0.54')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U5 - G2

Input Watts (W): 50.4
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

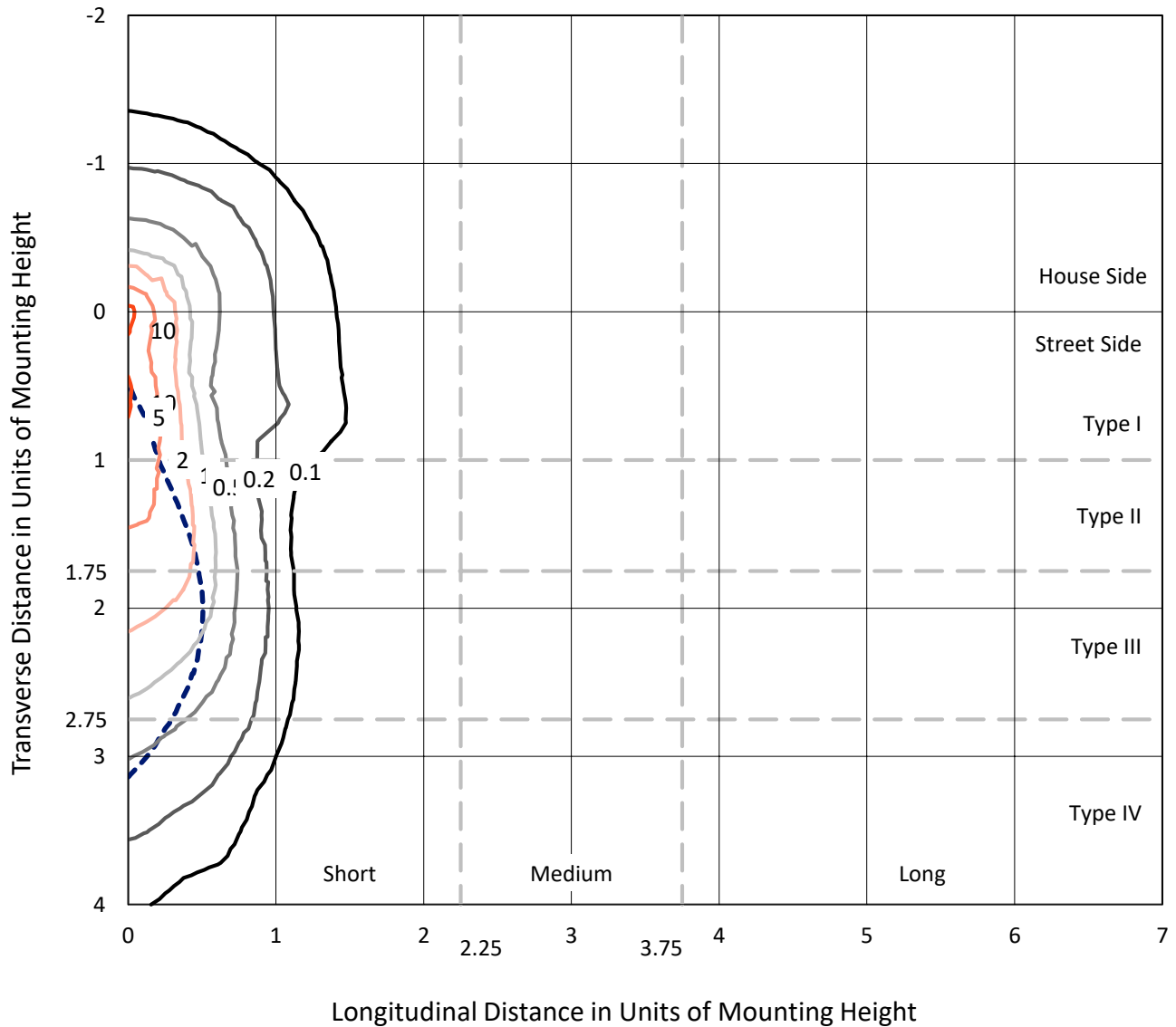


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Iso-Footcandle Lines of Horizontal Illumination

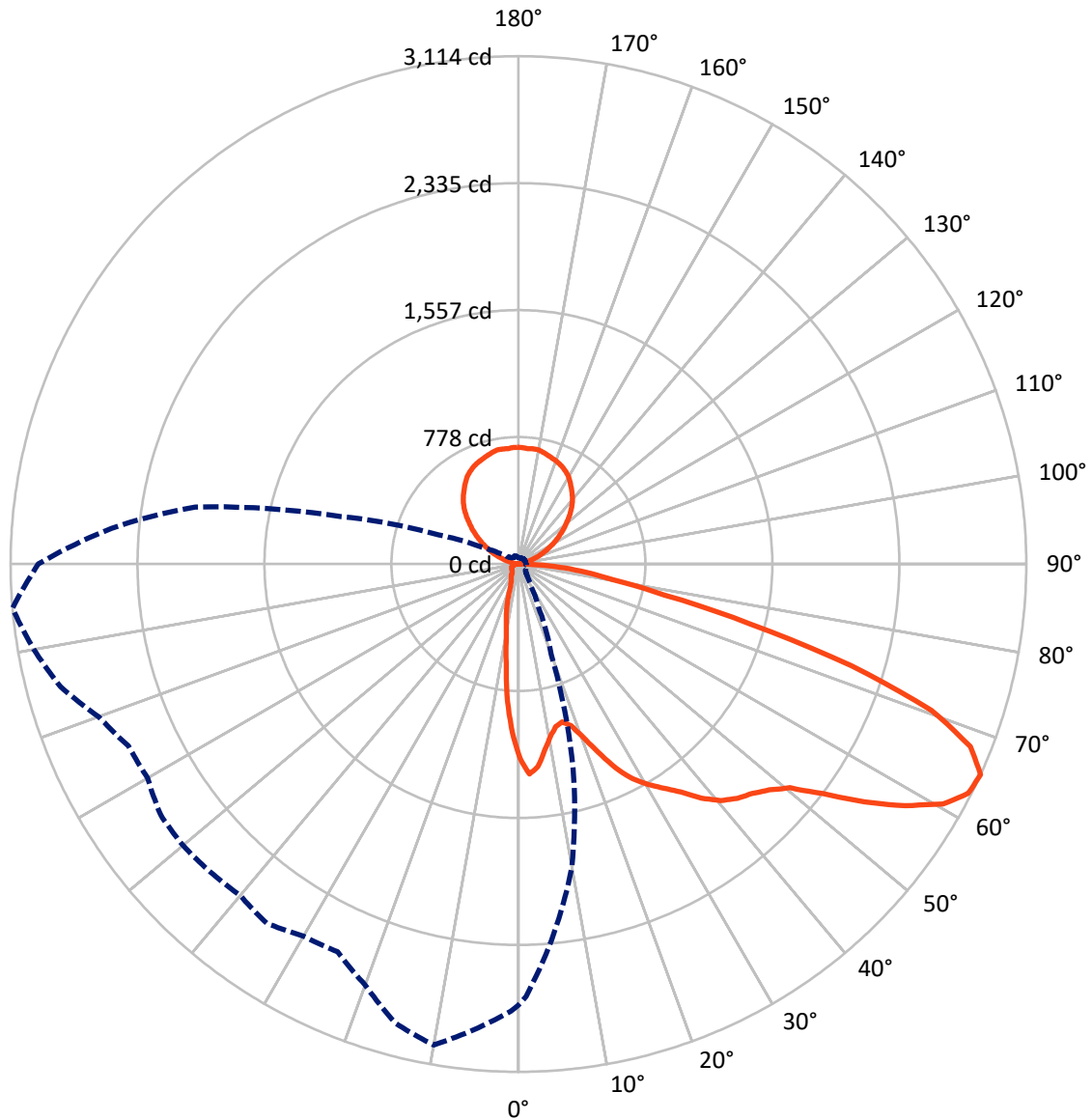
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 275-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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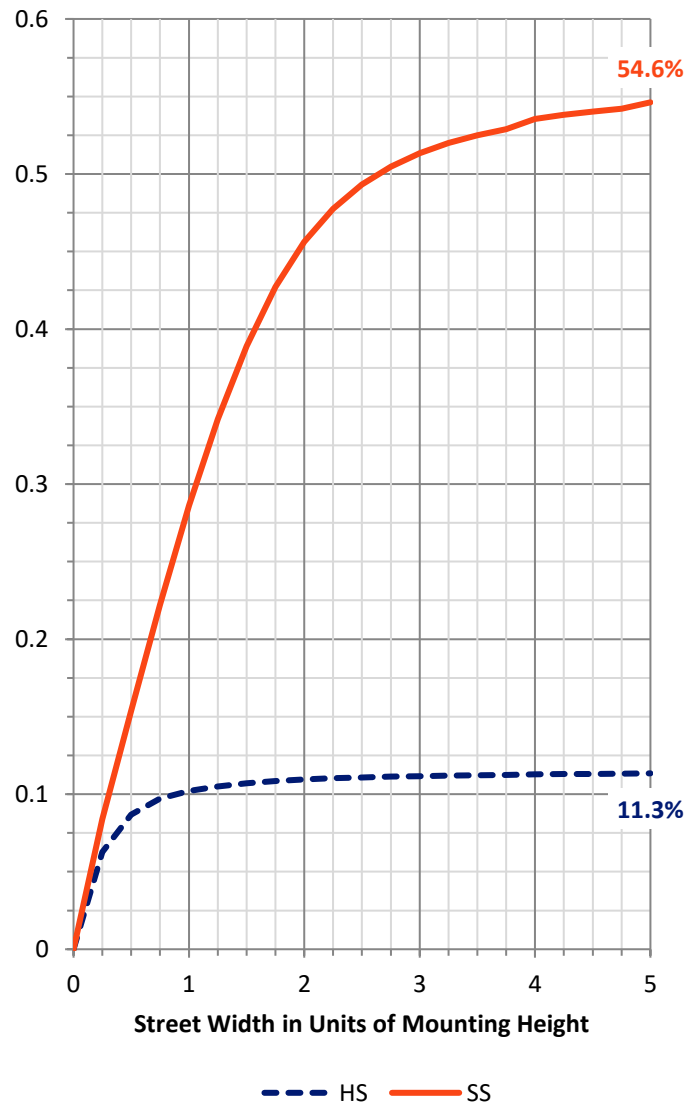
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 619.8 | 887.5 | 1507.3 |
| | % Fixture | 11.5 | 16.5 | 28.0 |
| Street Side | Lumens | 2991.3 | 887.6 | 3878.9 |
| | % Fixture | 55.5 | 16.5 | 72.0 |
| Total | Lumens | 3611.0 | 1775.1 | 5386.2 |
| | % Fixture | 67.0 | 33.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.4 | 1.6 |
| 10°-20° | 170.0 | 3.2 |
| 20°-30° | 242.4 | 4.5 |
| 30°-40° | 351.7 | 6.5 |
| 40°-50° | 503.1 | 9.3 |
| 50°-60° | 772.5 | 14.3 |
| 60°-70° | 894.1 | 16.6 |
| 70°-80° | 456.1 | 8.5 |
| 80°-90° | 132.7 | 2.5 |
| 90°-100° | 9.6 | 0.2 |
| 100°-110° | 58.7 | 1.1 |
| 110°-120° | 169.9 | 3.2 |
| 120°-130° | 279.4 | 5.2 |
| 130°-140° | 344.6 | 6.4 |
| 140°-150° | 352.5 | 6.5 |
| 150°-160° | 297.0 | 5.5 |
| 160°-170° | 195.5 | 3.6 |
| 170°-180° | 67.8 | 1.3 |
| 0°-90° | 3611.0 | 67.0 |
| 0°-180° | 5386.2 | 100.0 |



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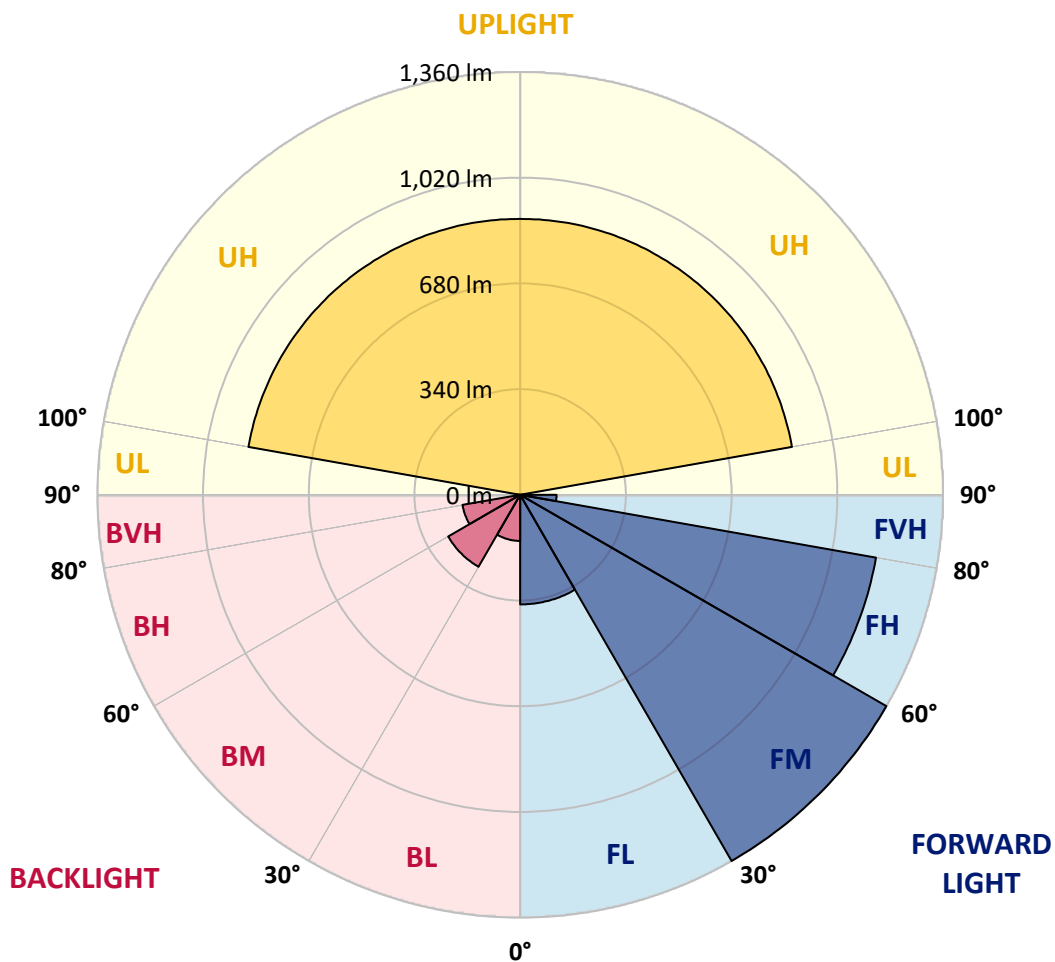
CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|---------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 352.6 | 6.5 | | | |
| FM | (30°-60°) | 1359.9 | 25.2 | | | |
| FH | (60°-80°) | 1161.9 | 21.6 | | | G1/1800 |
| FVH | (80°-90°) | 116.9 | 2.2 | | | G2/225 |
| BL | (0°-30°) | 148.2 | 2.8 | B1/500 | | |
| BM | (30°-60°) | 267.4 | 5.0 | B1/1000 | | |
| BH | (60°-80°) | 188.3 | 3.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 15.8 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 9.6 | 0.2 | | U1/10 | |
| UH | (100°-180°) | 887.5 | 16.5 | | U4/1000 | |

BUG Rating: B1-U5-G2

Type IV Short





REPORT NUMBER: P227340

CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 |
| 2.5° | 1234.6 | 1227.2 | 1218.1 | 1202.4 | 1188.4 | 1168.3 | 1163.5 | 1138.5 | 1122.8 | 1126.5 | 1097.8 |
| 5° | 1159.2 | 1155.0 | 1132.5 | 1097.2 | 1074.2 | 1028.6 | 1002.5 | 989.1 | 951.4 | 946.5 | 936.3 |
| 7.5° | 1053.5 | 1040.8 | 1004.3 | 960.6 | 921.1 | 887.6 | 845.8 | 813.6 | 785.0 | 767.3 | 736.3 |
| 10° | 963.0 | 949.6 | 910.1 | 856.6 | 809.3 | 762.5 | 728.4 | 686.5 | 645.9 | 614.3 | 589.3 |
| 12.5° | 919.2 | 904.7 | 858.5 | 796.5 | 743.7 | 685.4 | 637.3 | 596.0 | 573.6 | 557.7 | 537.0 |
| 15° | 936.3 | 915.0 | 859.7 | 785.6 | 720.0 | 658.0 | 606.9 | 562.6 | 535.8 | 511.6 | 487.2 |
| 17.5° | 1004.9 | 978.8 | 915.6 | 826.3 | 735.2 | 655.0 | 582.1 | 531.6 | 489.1 | 452.7 | 419.8 |
| 20° | 1122.8 | 1103.4 | 1011.6 | 886.4 | 767.9 | 656.7 | 560.8 | 494.6 | 442.9 | 396.7 | 353.0 |
| 22.5° | 1260.7 | 1231.5 | 1141.6 | 967.8 | 809.9 | 667.7 | 547.4 | 463.6 | 402.2 | 340.2 | 292.9 |
| 25° | 1405.3 | 1382.8 | 1263.8 | 1077.2 | 874.3 | 690.2 | 537.0 | 436.2 | 354.2 | 285.5 | 233.3 |
| 27.5° | 1521.9 | 1501.9 | 1384.1 | 1182.3 | 933.2 | 709.6 | 521.9 | 410.1 | 315.9 | 233.3 | 175.5 |
| 30° | 1617.4 | 1600.3 | 1477.0 | 1268.6 | 1004.9 | 716.3 | 500.6 | 379.7 | 273.4 | 188.3 | 145.3 |
| 32.5° | 1724.3 | 1705.5 | 1566.3 | 1328.7 | 1037.1 | 710.2 | 476.3 | 351.2 | 239.4 | 166.4 | 124.6 |
| 35° | 1841.5 | 1819.6 | 1666.0 | 1393.8 | 1063.9 | 689.0 | 455.7 | 330.5 | 223.0 | 151.3 | 110.6 |
| 37.5° | 1946.1 | 1932.0 | 1755.9 | 1458.1 | 1094.3 | 653.8 | 435.7 | 308.0 | 212.1 | 140.3 | 99.6 |
| 40° | 2027.5 | 2023.8 | 1855.5 | 1511.6 | 1117.9 | 628.2 | 419.2 | 290.4 | 198.0 | 136.1 | 96.0 |
| 42.5° | 2093.1 | 2091.8 | 1937.0 | 1559.6 | 1124.0 | 605.8 | 406.4 | 274.7 | 185.3 | 125.7 | 97.8 |
| 45° | 2156.3 | 2155.7 | 2015.9 | 1626.5 | 1128.2 | 606.9 | 396.7 | 264.9 | 174.4 | 119.1 | 92.4 |
| 47.5° | 2216.4 | 2225.5 | 2098.5 | 1719.4 | 1173.2 | 627.6 | 393.1 | 255.7 | 165.8 | 111.8 | 87.5 |
| 50° | 2317.3 | 2308.2 | 2229.1 | 1845.2 | 1245.5 | 667.7 | 387.0 | 247.9 | 157.9 | 105.2 | 82.7 |
| 52.5° | 2508.7 | 2498.4 | 2427.9 | 2013.5 | 1324.5 | 709.0 | 379.1 | 236.9 | 148.8 | 97.8 | 77.1 |
| 55° | 2742.5 | 2756.5 | 2658.8 | 2218.3 | 1432.0 | 743.7 | 370.6 | 222.4 | 136.7 | 89.3 | 73.6 |
| 57.5° | 2879.8 | 2868.4 | 2756.5 | 2336.1 | 1498.2 | 761.3 | 365.2 | 205.3 | 117.8 | 82.0 | 69.9 |
| 59° | 2912.0 | 2892.6 | 2740.1 | 2356.2 | 1515.9 | 752.8 | 362.1 | 188.9 | 108.1 | 78.4 | 68.0 |
| 60° | 2909.1 | 2885.3 | 2714.0 | 2343.4 | 1520.7 | 742.5 | 357.2 | 179.2 | 102.7 | 76.5 | 67.4 |
| 62.5° | 2846.5 | 2809.4 | 2565.8 | 2189.0 | 1452.7 | 690.8 | 337.2 | 156.1 | 95.3 | 74.2 | 63.8 |
| 65° | 2704.3 | 2652.0 | 2316.7 | 1887.8 | 1296.6 | 588.1 | 291.6 | 147.6 | 97.2 | 72.9 | 61.4 |
| 67.5° | 2458.9 | 2416.9 | 1996.5 | 1562.0 | 1033.5 | 475.2 | 252.2 | 144.0 | 99.6 | 74.2 | 57.7 |
| 70° | 2000.1 | 1964.3 | 1557.7 | 1169.5 | 774.1 | 377.9 | 229.0 | 142.2 | 97.8 | 71.1 | 54.7 |
| 72.5° | 1410.8 | 1348.8 | 1035.3 | 819.0 | 490.9 | 303.8 | 198.7 | 134.3 | 95.3 | 68.6 | 49.8 |
| 75° | 858.5 | 870.0 | 658.0 | 596.6 | 309.9 | 208.4 | 156.1 | 113.0 | 84.5 | 61.4 | 45.0 |
| 77.5° | 566.2 | 565.7 | 485.5 | 421.0 | 157.3 | 129.4 | 110.6 | 86.8 | 66.2 | 50.4 | 38.9 |
| 80° | 384.0 | 388.2 | 352.4 | 287.3 | 87.5 | 77.7 | 72.3 | 63.2 | 48.6 | 38.3 | 32.2 |
| 82.5° | 236.3 | 236.9 | 272.8 | 215.1 | 58.3 | 49.2 | 46.1 | 42.6 | 34.7 | 29.8 | 25.0 |
| 85° | 82.0 | 83.9 | 95.3 | 151.9 | 39.5 | 32.2 | 32.2 | 29.8 | 26.1 | 20.0 | 16.4 |
| 87.5° | 35.2 | 34.7 | 41.3 | 41.3 | 19.4 | 16.4 | 15.1 | 15.1 | 14.6 | 10.9 | 9.1 |
| 90° | 7.6 | 7.0 | 7.0 | 8.6 | 10.2 | 12.0 | 11.9 | 12.5 | 12.5 | 11.4 | 9.6 |
| 92.5° | 4.1 | 4.1 | 4.1 | 4.6 | 5.1 | 5.6 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 95° | 5.1 | 5.1 | 5.1 | 5.6 | 6.1 | 6.6 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 97.5° | 7.2 | 7.2 | 7.2 | 7.7 | 8.2 | 8.2 | 8.2 | 8.7 | 9.2 | 9.2 | 9.2 |
| 100° | 8.2 | 8.2 | 8.2 | 8.7 | 9.2 | 9.7 | 10.2 | 11.3 | 12.3 | 16.9 | 21.5 |
| 102.5° | 11.3 | 11.3 | 11.3 | 12.3 | 13.3 | 15.9 | 18.4 | 23.0 | 27.6 | 34.3 | 40.9 |
| 105° | 21.5 | 21.7 | 22.5 | 25.1 | 27.6 | 32.2 | 36.8 | 43.0 | 49.1 | 56.8 | 64.4 |
| 107.5° | 41.9 | 42.1 | 43.0 | 46.5 | 50.1 | 54.7 | 59.3 | 67.0 | 74.7 | 82.3 | 90.0 |



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CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

| | 0° | 1° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 67.5 | 67.9 | 69.6 | 72.6 | 75.7 | 82.3 | 89.0 | 96.7 | 104.3 | 110.5 | 116.6 |
| 112.5° | 101.3 | 101.3 | 101.3 | 104.9 | 108.4 | 116.1 | 123.8 | 130.4 | 137.1 | 141.7 | 146.3 |
| 115° | 143.2 | 143.0 | 142.2 | 146.3 | 150.4 | 156.5 | 162.6 | 167.3 | 171.9 | 174.9 | 178.0 |
| 117.5° | 188.2 | 188.2 | 188.2 | 190.8 | 193.3 | 197.4 | 201.5 | 204.1 | 206.6 | 208.2 | 209.7 |
| 120° | 230.2 | 229.8 | 228.1 | 229.7 | 231.2 | 234.8 | 238.3 | 240.4 | 242.4 | 245.5 | 248.6 |
| 122.5° | 269.0 | 268.4 | 266.0 | 266.5 | 267.0 | 270.1 | 273.1 | 275.2 | 277.2 | 280.3 | 283.4 |
| 125° | 304.8 | 304.0 | 300.7 | 301.8 | 302.8 | 304.3 | 305.9 | 308.9 | 312.0 | 314.6 | 317.1 |
| 127.5° | 337.6 | 337.4 | 336.6 | 336.6 | 336.6 | 338.6 | 340.6 | 343.7 | 346.8 | 347.3 | 347.8 |
| 130° | 371.3 | 370.9 | 369.3 | 369.8 | 370.3 | 372.4 | 374.4 | 376.4 | 378.5 | 379.5 | 380.5 |
| 132.5° | 405.1 | 404.7 | 403.0 | 402.5 | 402.0 | 406.1 | 410.2 | 411.7 | 413.3 | 413.8 | 414.3 |
| 135° | 438.8 | 438.2 | 435.8 | 435.8 | 435.8 | 438.8 | 441.9 | 443.4 | 445.0 | 446.0 | 447.0 |
| 137.5° | 470.6 | 469.9 | 467.5 | 468.5 | 469.5 | 470.0 | 470.6 | 472.6 | 474.6 | 476.7 | 478.7 |
| 140° | 499.2 | 498.6 | 496.1 | 497.2 | 498.2 | 499.2 | 500.2 | 501.2 | 502.3 | 505.3 | 508.4 |
| 142.5° | 529.9 | 529.3 | 526.8 | 527.8 | 528.9 | 529.4 | 529.9 | 531.4 | 533.0 | 535.0 | 537.0 |
| 145° | 562.6 | 561.8 | 558.5 | 557.5 | 556.5 | 558.0 | 559.6 | 561.1 | 562.6 | 563.1 | 563.6 |
| 147.5° | 588.2 | 587.6 | 585.1 | 584.6 | 584.1 | 585.6 | 587.2 | 587.2 | 587.2 | 587.7 | 588.2 |
| 150° | 608.7 | 608.0 | 605.6 | 606.1 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 |
| 152.5° | 625.0 | 624.4 | 622.0 | 622.0 | 622.0 | 622.5 | 623.0 | 623.5 | 624.0 | 624.0 | 624.0 |
| 155° | 643.4 | 642.6 | 639.3 | 639.3 | 639.3 | 640.4 | 641.4 | 642.9 | 644.5 | 643.4 | 642.4 |
| 157.5° | 660.8 | 660.2 | 657.8 | 657.8 | 657.8 | 658.3 | 658.8 | 659.8 | 660.8 | 660.3 | 659.8 |
| 160° | 678.2 | 677.6 | 675.1 | 674.6 | 674.1 | 672.6 | 671.1 | 670.5 | 670.0 | 670.0 | 670.0 |
| 162.5° | 688.4 | 687.6 | 684.4 | 684.4 | 684.4 | 682.3 | 680.3 | 678.2 | 676.2 | 677.2 | 678.2 |
| 165° | 696.6 | 696.0 | 693.6 | 692.5 | 691.5 | 691.5 | 691.5 | 690.0 | 688.4 | 688.4 | 688.4 |
| 167.5° | 705.8 | 705.2 | 702.8 | 701.2 | 699.7 | 700.7 | 701.7 | 702.8 | 703.8 | 702.3 | 700.7 |
| 170° | 714.0 | 713.4 | 711.0 | 709.4 | 707.9 | 707.9 | 707.9 | 708.4 | 708.9 | 707.9 | 706.9 |
| 172.5° | 715.0 | 714.6 | 713.0 | 712.0 | 711.0 | 709.9 | 708.9 | 707.4 | 705.8 | 705.8 | 705.8 |
| 175° | 716.1 | 715.7 | 714.0 | 713.5 | 713.0 | 712.0 | 711.0 | 708.9 | 706.9 | 706.3 | 705.8 |
| 177.5° | 723.2 | 722.8 | 721.2 | 718.6 | 716.1 | 715.6 | 715.0 | 714.0 | 713.0 | 712.0 | 711.0 |
| 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: P227340

CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 |
| 2.5° | 1089.3 | 1082.7 | 1063.9 | 1059.0 | 1065.1 | 1052.9 | 1049.9 | 1046.8 | 1024.4 | 1035.9 | 1022.5 |
| 5° | 910.7 | 908.9 | 870.6 | 878.5 | 870.6 | 857.2 | 851.8 | 864.6 | 842.1 | 846.9 | 850.0 |
| 7.5° | 699.9 | 692.6 | 667.1 | 650.1 | 639.8 | 630.6 | 619.1 | 600.3 | 614.9 | 611.8 | 634.9 |
| 10° | 568.0 | 552.3 | 536.4 | 512.8 | 499.4 | 486.6 | 473.3 | 466.0 | 449.0 | 447.1 | 439.3 |
| 12.5° | 520.7 | 498.2 | 478.1 | 457.5 | 443.6 | 418.0 | 396.7 | 383.4 | 372.5 | 355.5 | 342.7 |
| 15° | 457.5 | 438.6 | 412.6 | 392.5 | 370.6 | 347.5 | 326.8 | 309.9 | 302.0 | 286.1 | 278.9 |
| 17.5° | 393.7 | 365.2 | 333.6 | 313.5 | 283.2 | 259.4 | 242.4 | 231.5 | 219.9 | 210.2 | 201.7 |
| 20° | 317.1 | 280.1 | 246.0 | 220.5 | 196.8 | 173.8 | 165.8 | 152.5 | 147.6 | 144.0 | 147.0 |
| 22.5° | 241.2 | 203.0 | 167.7 | 148.2 | 135.4 | 129.4 | 122.8 | 120.3 | 118.5 | 117.8 | 119.1 |
| 25° | 176.8 | 144.6 | 127.6 | 120.3 | 115.4 | 111.8 | 109.4 | 107.5 | 106.3 | 105.7 | 106.3 |
| 27.5° | 136.7 | 119.7 | 111.2 | 106.3 | 102.7 | 100.2 | 99.0 | 97.2 | 96.6 | 96.0 | 96.6 |
| 30° | 118.5 | 109.4 | 103.3 | 98.4 | 94.2 | 89.9 | 88.1 | 87.5 | 88.1 | 88.7 | 88.1 |
| 32.5° | 103.3 | 96.6 | 89.9 | 85.6 | 82.7 | 80.2 | 80.2 | 79.0 | 79.0 | 80.8 | 81.4 |
| 35° | 93.6 | 86.8 | 82.0 | 76.5 | 72.9 | 70.5 | 68.6 | 67.4 | 68.0 | 68.0 | 69.9 |
| 37.5° | 85.6 | 80.8 | 76.5 | 71.7 | 68.0 | 65.6 | 64.4 | 63.2 | 62.6 | 62.0 | 62.0 |
| 40° | 80.2 | 77.1 | 73.6 | 68.6 | 65.1 | 62.6 | 61.4 | 60.1 | 59.5 | 58.9 | 58.9 |
| 42.5° | 80.2 | 74.2 | 71.7 | 67.4 | 63.2 | 60.8 | 58.9 | 57.7 | 56.5 | 56.5 | 56.5 |
| 45° | 88.1 | 75.9 | 71.7 | 66.8 | 62.6 | 59.5 | 57.7 | 55.9 | 54.7 | 54.7 | 54.1 |
| 47.5° | 85.6 | 85.1 | 72.9 | 66.8 | 63.2 | 59.5 | 57.1 | 55.2 | 54.1 | 53.5 | 52.9 |
| 50° | 81.4 | 88.7 | 81.4 | 68.6 | 63.2 | 58.9 | 56.5 | 54.7 | 52.9 | 52.3 | 52.3 |
| 52.5° | 79.0 | 82.7 | 84.5 | 71.1 | 63.8 | 58.9 | 55.9 | 54.1 | 52.9 | 51.7 | 51.0 |
| 55° | 72.9 | 77.7 | 80.8 | 69.9 | 63.8 | 57.7 | 54.7 | 52.9 | 51.0 | 50.4 | 49.8 |
| 57.5° | 66.8 | 70.5 | 77.7 | 69.9 | 62.0 | 57.1 | 53.5 | 51.0 | 49.8 | 49.2 | 48.6 |
| 59° | 65.1 | 65.1 | 69.3 | 71.7 | 60.8 | 56.5 | 52.9 | 50.4 | 49.2 | 48.6 | 47.4 |
| 60° | 63.2 | 63.2 | 65.6 | 73.6 | 60.1 | 55.9 | 52.3 | 49.8 | 48.0 | 48.0 | 47.4 |
| 62.5° | 60.8 | 58.9 | 60.1 | 68.6 | 58.3 | 54.7 | 51.0 | 48.6 | 46.7 | 46.7 | 46.1 |
| 65° | 57.7 | 55.2 | 55.2 | 57.1 | 54.7 | 52.3 | 49.8 | 47.4 | 45.0 | 45.0 | 45.5 |
| 67.5° | 54.7 | 52.3 | 51.7 | 51.7 | 50.4 | 49.8 | 47.4 | 45.0 | 43.8 | 43.8 | 43.8 |
| 70° | 50.4 | 48.6 | 48.0 | 46.7 | 46.7 | 46.1 | 44.4 | 42.6 | 41.3 | 41.9 | 41.3 |
| 72.5° | 45.5 | 44.4 | 43.2 | 43.2 | 42.6 | 41.9 | 40.1 | 38.9 | 38.3 | 38.9 | 38.9 |
| 75° | 40.7 | 38.9 | 38.9 | 37.6 | 37.6 | 37.0 | 35.2 | 34.7 | 34.1 | 34.7 | 35.2 |
| 77.5° | 34.7 | 33.5 | 32.8 | 32.8 | 32.8 | 32.8 | 30.4 | 29.8 | 29.8 | 31.0 | 31.0 |
| 80° | 28.5 | 27.9 | 27.3 | 27.3 | 27.3 | 26.7 | 25.5 | 25.0 | 25.0 | 25.5 | 26.1 |
| 82.5° | 21.9 | 20.7 | 20.7 | 21.3 | 21.9 | 21.9 | 20.0 | 18.8 | 18.8 | 20.0 | 21.3 |
| 85° | 14.6 | 14.6 | 14.6 | 15.1 | 15.1 | 15.8 | 14.6 | 12.8 | 13.4 | 14.0 | 15.8 |
| 87.5° | 7.9 | 8.5 | 7.9 | 7.3 | 8.5 | 7.9 | 7.9 | 7.3 | 7.9 | 8.5 | 9.1 |
| 90° | 9.6 | 9.6 | 10.0 | 10.4 | 9.8 | 10.4 | 9.4 | 9.0 | 7.8 | 7.8 | 9.4 |
| 92.5° | 6.6 | 7.2 | 7.2 | 7.2 | 6.6 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 95° | 7.2 | 7.2 | 7.7 | 8.2 | 7.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 97.5° | 10.7 | 12.3 | 11.3 | 10.2 | 9.7 | 9.2 | 8.7 | 8.2 | 8.2 | 8.2 | 8.7 |
| 100° | 25.6 | 29.7 | 28.1 | 26.6 | 25.1 | 23.5 | 21.5 | 19.4 | 19.4 | 19.4 | 21.5 |
| 102.5° | 46.0 | 51.1 | 49.6 | 48.1 | 45.5 | 43.0 | 41.4 | 39.9 | 38.9 | 39.9 | 41.4 |
| 105° | 69.0 | 73.7 | 72.6 | 71.6 | 69.0 | 66.5 | 64.4 | 62.4 | 62.4 | 62.4 | 64.4 |
| 107.5° | 93.6 | 97.2 | 96.7 | 96.2 | 94.1 | 92.1 | 90.5 | 89.0 | 88.0 | 89.0 | 90.5 |



REPORT NUMBER: P227340

CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

| | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 110° | 119.7 | 122.8 | 123.3 | 123.8 | 122.8 | 121.7 | 120.2 | 118.7 | 119.7 | 118.7 | 120.2 |
| 112.5° | 148.8 | 151.4 | 152.4 | 153.4 | 152.9 | 152.4 | 151.4 | 150.4 | 150.4 | 150.4 | 151.4 |
| 115° | 180.6 | 183.1 | 184.6 | 186.2 | 184.6 | 183.1 | 182.1 | 181.1 | 182.1 | 181.1 | 182.1 |
| 117.5° | 212.8 | 215.8 | 217.9 | 219.9 | 217.4 | 214.8 | 213.8 | 212.8 | 213.8 | 212.8 | 213.8 |
| 120° | 250.1 | 251.6 | 253.7 | 255.7 | 253.2 | 250.6 | 249.6 | 248.6 | 248.6 | 248.6 | 249.6 |
| 122.5° | 284.4 | 285.4 | 287.4 | 289.5 | 286.9 | 284.4 | 283.4 | 282.3 | 283.4 | 282.3 | 283.4 |
| 125° | 318.6 | 320.2 | 321.2 | 322.2 | 319.7 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 | 317.1 |
| 127.5° | 350.4 | 352.9 | 353.4 | 353.9 | 353.9 | 353.9 | 353.4 | 352.9 | 355.0 | 352.9 | 353.4 |
| 130° | 383.1 | 385.7 | 387.7 | 389.7 | 389.7 | 389.7 | 388.7 | 387.7 | 388.7 | 387.7 | 388.7 |
| 132.5° | 417.4 | 420.4 | 423.0 | 425.5 | 424.5 | 423.5 | 423.5 | 423.5 | 424.5 | 423.5 | 423.5 |
| 135° | 450.1 | 453.2 | 455.7 | 458.3 | 457.8 | 457.3 | 458.8 | 460.3 | 461.4 | 460.3 | 458.8 |
| 137.5° | 481.3 | 483.9 | 484.9 | 485.9 | 486.4 | 486.9 | 489.5 | 492.0 | 493.1 | 492.0 | 489.5 |
| 140° | 509.9 | 511.5 | 512.5 | 513.5 | 514.5 | 515.6 | 518.1 | 520.7 | 522.7 | 520.7 | 518.1 |
| 142.5° | 538.1 | 539.1 | 542.2 | 545.2 | 545.2 | 545.2 | 545.7 | 546.3 | 548.3 | 546.3 | 545.7 |
| 145° | 566.2 | 568.8 | 571.8 | 574.9 | 574.4 | 573.9 | 572.3 | 570.8 | 572.9 | 570.8 | 572.3 |
| 147.5° | 590.8 | 593.3 | 595.9 | 598.4 | 598.9 | 599.4 | 597.9 | 596.4 | 598.4 | 596.4 | 597.9 |
| 150° | 608.7 | 610.7 | 612.2 | 613.8 | 615.3 | 616.8 | 618.4 | 619.9 | 624.0 | 619.9 | 618.4 |
| 152.5° | 624.5 | 625.0 | 626.6 | 628.1 | 630.1 | 632.2 | 634.7 | 637.3 | 642.4 | 637.3 | 634.7 |
| 155° | 641.4 | 640.4 | 642.9 | 645.5 | 648.0 | 650.6 | 651.6 | 652.6 | 655.7 | 652.6 | 651.6 |
| 157.5° | 659.3 | 658.8 | 660.8 | 662.9 | 663.9 | 664.9 | 664.9 | 664.9 | 670.0 | 664.9 | 664.9 |
| 160° | 671.6 | 673.1 | 676.2 | 679.2 | 677.7 | 676.2 | 675.7 | 675.1 | 681.3 | 675.1 | 675.7 |
| 162.5° | 680.3 | 682.3 | 684.4 | 686.4 | 685.9 | 685.4 | 684.4 | 683.3 | 689.5 | 683.3 | 684.4 |
| 165° | 687.9 | 687.4 | 690.0 | 692.5 | 694.1 | 695.6 | 694.6 | 693.6 | 697.7 | 693.6 | 694.6 |
| 167.5° | 697.1 | 693.6 | 696.6 | 699.7 | 701.7 | 703.8 | 703.8 | 703.8 | 709.9 | 703.8 | 703.8 |
| 170° | 704.3 | 701.7 | 703.3 | 704.8 | 707.4 | 709.9 | 711.0 | 712.0 | 717.1 | 712.0 | 711.0 |
| 172.5° | 705.3 | 704.8 | 706.3 | 707.9 | 708.9 | 709.9 | 711.0 | 712.0 | 717.1 | 712.0 | 711.0 |
| 175° | 705.8 | 705.8 | 708.4 | 711.0 | 711.5 | 712.0 | 711.0 | 709.9 | 715.0 | 709.9 | 711.0 |
| 177.5° | 710.4 | 709.9 | 712.5 | 715.0 | 716.1 | 717.1 | 715.6 | 714.0 | 718.1 | 714.0 | 715.6 |
| 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: P227340

CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 |
| 2.5° | 1034.7 | 1024.4 | 1018.9 | 1040.1 | 1038.3 | 1020.1 | 1020.1 | 1032.9 | 1033.5 | 1022.5 | 1035.3 |
| 5° | 853.7 | 843.3 | 853.0 | 844.5 | 849.4 | 848.7 | 856.1 | 842.7 | 848.1 | 843.3 | 831.8 |
| 7.5° | 633.1 | 653.8 | 664.7 | 650.7 | 668.3 | 677.4 | 664.7 | 677.4 | 657.3 | 641.0 | 656.7 |
| 10° | 435.7 | 458.7 | 454.5 | 476.9 | 485.5 | 490.3 | 499.4 | 487.8 | 473.9 | 469.6 | 458.1 |
| 12.5° | 337.8 | 333.0 | 331.1 | 340.2 | 345.7 | 337.8 | 344.5 | 337.2 | 329.9 | 317.1 | 316.5 |
| 15° | 264.3 | 256.4 | 250.9 | 240.6 | 236.9 | 238.8 | 241.8 | 241.8 | 227.2 | 227.8 | 233.3 |
| 17.5° | 200.5 | 198.7 | 194.5 | 185.9 | 180.4 | 182.3 | 181.7 | 178.6 | 176.8 | 178.0 | 184.7 |
| 20° | 150.7 | 148.8 | 151.3 | 153.7 | 151.9 | 152.5 | 150.1 | 147.0 | 145.8 | 147.0 | 148.2 |
| 22.5° | 119.1 | 121.5 | 124.6 | 128.2 | 128.8 | 131.9 | 131.2 | 131.9 | 129.4 | 128.2 | 125.2 |
| 25° | 108.7 | 110.0 | 108.1 | 108.7 | 108.7 | 111.8 | 111.2 | 111.2 | 108.7 | 108.1 | 108.7 |
| 27.5° | 96.0 | 95.3 | 95.3 | 96.6 | 96.6 | 98.4 | 99.6 | 98.4 | 96.0 | 95.3 | 96.0 |
| 30° | 88.7 | 88.1 | 87.5 | 88.1 | 87.5 | 88.1 | 89.3 | 89.3 | 88.1 | 86.2 | 86.8 |
| 32.5° | 81.4 | 81.4 | 80.8 | 81.4 | 80.8 | 80.8 | 82.0 | 80.2 | 80.2 | 79.6 | 79.6 |
| 35° | 71.7 | 72.9 | 74.2 | 74.8 | 74.8 | 74.8 | 75.9 | 74.2 | 73.6 | 72.9 | 72.9 |
| 37.5° | 62.0 | 63.2 | 66.8 | 68.6 | 69.3 | 70.5 | 71.1 | 69.9 | 68.6 | 67.4 | 66.2 |
| 40° | 58.9 | 58.9 | 60.1 | 62.6 | 65.1 | 65.6 | 66.8 | 65.1 | 64.4 | 62.6 | 60.8 |
| 42.5° | 56.5 | 57.1 | 57.1 | 57.7 | 58.3 | 59.5 | 61.4 | 59.5 | 58.3 | 57.1 | 55.2 |
| 45° | 54.7 | 54.7 | 54.7 | 54.7 | 54.1 | 54.1 | 54.7 | 53.5 | 52.9 | 52.3 | 52.3 |
| 47.5° | 53.5 | 52.9 | 52.3 | 51.7 | 51.0 | 50.4 | 50.4 | 49.2 | 49.2 | 49.2 | 49.2 |
| 50° | 52.3 | 51.0 | 50.4 | 49.8 | 48.6 | 48.6 | 48.6 | 47.4 | 46.7 | 46.7 | 47.4 |
| 52.5° | 50.4 | 49.8 | 49.2 | 48.6 | 48.0 | 47.4 | 47.4 | 46.1 | 45.5 | 45.5 | 45.5 |
| 55° | 49.8 | 49.2 | 48.0 | 47.4 | 46.7 | 47.4 | 46.7 | 46.1 | 45.0 | 45.0 | 45.0 |
| 57.5° | 48.0 | 48.6 | 48.0 | 46.7 | 46.7 | 46.7 | 46.7 | 45.5 | 45.0 | 43.8 | 44.4 |
| 59° | 47.4 | 48.0 | 47.4 | 46.7 | 46.1 | 46.7 | 46.7 | 45.0 | 44.4 | 43.8 | 43.8 |
| 60° | 46.7 | 47.4 | 46.7 | 46.1 | 46.1 | 46.7 | 46.1 | 45.5 | 44.4 | 42.6 | 43.2 |
| 62.5° | 46.1 | 46.1 | 45.5 | 45.5 | 45.0 | 45.5 | 45.0 | 43.8 | 42.6 | 41.3 | 40.7 |
| 65° | 45.0 | 45.0 | 44.4 | 44.4 | 43.8 | 43.8 | 43.8 | 42.6 | 41.3 | 40.1 | 40.1 |
| 67.5° | 44.4 | 43.8 | 43.2 | 43.2 | 42.6 | 42.6 | 42.6 | 41.3 | 39.5 | 38.9 | 38.3 |
| 70° | 41.9 | 41.3 | 41.3 | 40.7 | 40.1 | 40.7 | 41.3 | 39.5 | 37.6 | 36.4 | 35.8 |
| 72.5° | 39.5 | 38.9 | 38.9 | 38.3 | 38.3 | 38.9 | 39.5 | 37.6 | 35.2 | 34.1 | 33.5 |
| 75° | 35.8 | 35.2 | 35.2 | 35.2 | 35.2 | 36.4 | 36.4 | 34.7 | 32.8 | 31.0 | 29.8 |
| 77.5° | 31.0 | 31.6 | 31.6 | 31.6 | 31.6 | 32.8 | 32.8 | 31.6 | 29.8 | 28.5 | 26.7 |
| 80° | 26.7 | 26.7 | 27.3 | 27.3 | 27.9 | 27.9 | 27.3 | 26.7 | 26.1 | 25.0 | 22.5 |
| 82.5° | 22.5 | 22.5 | 22.5 | 22.5 | 22.5 | 21.9 | 20.7 | 21.9 | 21.9 | 20.7 | 18.8 |
| 85° | 17.6 | 17.6 | 17.6 | 18.2 | 18.2 | 16.4 | 14.6 | 14.6 | 16.4 | 15.8 | 14.6 |
| 87.5° | 10.3 | 10.3 | 10.9 | 12.8 | 11.6 | 10.9 | 9.1 | 9.7 | 9.1 | 10.3 | 8.5 |
| 90° | 11.7 | 11.0 | 11.0 | 8.8 | 8.4 | 7.2 | 7.2 | 7.7 | 8.2 | 8.2 | 8.2 |
| 92.5° | 6.1 | 6.6 | 7.2 | 7.2 | 7.2 | 6.6 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| 95° | 7.2 | 7.7 | 8.2 | 7.7 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 | 7.2 |
| 97.5° | 9.2 | 9.7 | 10.2 | 11.3 | 12.3 | 10.7 | 9.2 | 9.2 | 9.2 | 8.7 | 8.2 |
| 100° | 23.5 | 25.1 | 26.6 | 28.1 | 29.7 | 25.6 | 21.5 | 16.9 | 12.3 | 11.3 | 10.2 |
| 102.5° | 43.0 | 45.5 | 48.1 | 49.6 | 51.1 | 46.0 | 40.9 | 34.3 | 27.6 | 23.0 | 18.4 |
| 105° | 66.5 | 69.0 | 71.6 | 72.6 | 73.7 | 69.0 | 64.4 | 56.8 | 49.1 | 43.0 | 36.8 |
| 107.5° | 92.1 | 94.1 | 96.2 | 96.7 | 97.2 | 93.6 | 90.0 | 82.3 | 74.7 | 67.0 | 59.3 |



REPORT NUMBER: P227340
 CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

| | 105° | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 110° | 121.7 | 122.8 | 123.8 | 123.3 | 122.8 | 119.7 | 116.6 | 110.5 | 104.3 | 96.7 | 89.0 | 0° |
| 112.5° | 152.4 | 152.9 | 153.4 | 152.4 | 151.4 | 148.8 | 146.3 | 141.7 | 137.1 | 130.4 | 123.8 | 2.5° |
| 115° | 183.1 | 184.6 | 186.2 | 184.6 | 183.1 | 180.6 | 178.0 | 174.9 | 171.9 | 167.3 | 162.6 | 5° |
| 117.5° | 214.8 | 217.4 | 219.9 | 217.9 | 215.8 | 212.8 | 209.7 | 208.2 | 206.6 | 204.1 | 201.5 | 7.5° |
| 120° | 250.6 | 253.2 | 255.7 | 253.7 | 251.6 | 250.1 | 248.6 | 245.5 | 242.4 | 240.4 | 238.3 | 10° |
| 122.5° | 284.4 | 286.9 | 289.5 | 287.4 | 285.4 | 284.4 | 283.4 | 280.3 | 277.2 | 275.2 | 273.1 | 12.5° |
| 125° | 317.1 | 319.7 | 322.2 | 321.2 | 320.2 | 318.6 | 317.1 | 314.6 | 312.0 | 308.9 | 305.9 | 15° |
| 127.5° | 353.9 | 353.9 | 353.9 | 353.4 | 352.9 | 350.4 | 347.8 | 347.3 | 346.8 | 343.7 | 340.6 | 17.5° |
| 130° | 389.7 | 389.7 | 389.7 | 387.7 | 385.7 | 383.1 | 380.5 | 379.5 | 378.5 | 376.4 | 374.4 | 20° |
| 132.5° | 423.5 | 424.5 | 425.5 | 423.0 | 420.4 | 417.4 | 414.3 | 413.8 | 413.3 | 411.7 | 410.2 | 22.5° |
| 135° | 457.3 | 457.8 | 458.3 | 455.7 | 453.2 | 450.1 | 447.0 | 446.0 | 445.0 | 443.4 | 441.9 | 25° |
| 137.5° | 486.9 | 486.4 | 485.9 | 484.9 | 483.9 | 481.3 | 478.7 | 476.7 | 474.6 | 472.6 | 470.6 | 27.5° |
| 140° | 515.6 | 514.5 | 513.5 | 512.5 | 511.5 | 509.9 | 508.4 | 505.3 | 502.3 | 501.2 | 500.2 | 30° |
| 142.5° | 545.2 | 545.2 | 545.2 | 542.2 | 539.1 | 538.1 | 537.0 | 535.0 | 533.0 | 531.4 | 529.9 | 32.5° |
| 145° | 573.9 | 574.4 | 574.9 | 571.8 | 568.8 | 566.2 | 563.6 | 563.1 | 562.6 | 561.1 | 559.6 | 35° |
| 147.5° | 599.4 | 598.9 | 598.4 | 595.9 | 593.3 | 590.8 | 588.2 | 587.7 | 587.2 | 587.2 | 587.2 | 37.5° |
| 150° | 616.8 | 615.3 | 613.8 | 612.2 | 610.7 | 608.7 | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 40° |
| 152.5° | 632.2 | 630.1 | 628.1 | 626.6 | 625.0 | 624.5 | 624.0 | 624.0 | 624.0 | 623.5 | 623.0 | 42.5° |
| 155° | 650.6 | 648.0 | 645.5 | 642.9 | 640.4 | 641.4 | 642.4 | 643.4 | 644.5 | 642.9 | 641.4 | 45° |
| 157.5° | 664.9 | 663.9 | 662.9 | 660.8 | 658.8 | 659.3 | 659.8 | 660.3 | 660.8 | 659.8 | 658.8 | 47.5° |
| 160° | 676.2 | 677.7 | 679.2 | 676.2 | 673.1 | 671.6 | 670.0 | 670.0 | 670.0 | 670.5 | 671.1 | 50° |
| 162.5° | 685.4 | 685.9 | 686.4 | 684.4 | 682.3 | 680.3 | 678.2 | 677.2 | 676.2 | 678.2 | 680.3 | 52.5° |
| 165° | 695.6 | 694.1 | 692.5 | 690.0 | 687.4 | 687.9 | 688.4 | 688.4 | 688.4 | 690.0 | 691.5 | 55° |
| 167.5° | 703.8 | 701.7 | 699.7 | 696.6 | 693.6 | 697.1 | 700.7 | 702.3 | 703.8 | 702.8 | 701.7 | 57.5° |
| 170° | 709.9 | 707.4 | 704.8 | 703.3 | 701.7 | 704.3 | 706.9 | 707.9 | 708.9 | 708.4 | 707.9 | 59° |
| 172.5° | 709.9 | 708.9 | 707.9 | 706.3 | 704.8 | 705.3 | 705.8 | 705.8 | 705.8 | 707.4 | 708.9 | 60° |
| 175° | 712.0 | 711.5 | 711.0 | 708.4 | 705.8 | 705.8 | 705.8 | 706.3 | 706.9 | 708.9 | 711.0 | 62.5° |
| 177.5° | 717.1 | 716.1 | 715.0 | 712.5 | 709.9 | 710.4 | 711.0 | 712.0 | 713.0 | 714.0 | 715.0 | 65° |
| 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° |
| | | | | | | | | | | | | 75° |
| | | | | | | | | | | | | 77.5° |
| | | | | | | | | | | | | 80° |
| | | | | | | | | | | | | 82.5° |
| | | | | | | | | | | | | 85° |
| | | | | | | | | | | | | 87.5° |
| | | | | | | | | | | | | 90° |
| | | | | | | | | | | | | 92.5° |
| | | | | | | | | | | | | 95° |
| | | | | | | | | | | | | 97.5° |
| | | | | | | | | | | | | 100° |
| | | | | | | | | | | | | 102.5° |
| | | | | | | | | | | | | 105° |
| | | | | | | | | | | | | 107.5° |

NUMBER: P227340
 NUMBER: IST-AF-600-LED-E1-SLR-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

| 160° | 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | 110° | 160° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 110° | 82.3 |
| 1036.6 | 1038.9 | 1044.4 | 1042.6 | 1062.6 | 1056.6 | 1070.5 | 1089.3 | 1106.9 | 1098.4 | 1100.9 | 112.5° | 116.1 |
| 852.4 | 855.5 | 832.4 | 846.3 | 867.0 | 858.5 | 855.5 | 883.4 | 876.7 | 908.3 | 882.2 | 115° | 156.5 |
| 631.3 | 624.0 | 613.1 | 607.5 | 592.4 | 592.4 | 620.9 | 633.7 | 631.9 | 653.8 | 676.2 | 117.5° | 197.4 |
| 443.6 | 435.1 | 421.7 | 418.0 | 433.2 | 440.5 | 453.3 | 466.0 | 483.0 | 507.9 | 522.5 | 120° | 234.8 |
| 325.6 | 322.6 | 325.6 | 334.8 | 348.7 | 359.1 | 378.5 | 401.0 | 419.8 | 439.9 | 459.3 | 122.5° | 270.1 |
| 246.0 | 252.2 | 260.0 | 266.1 | 277.0 | 296.5 | 306.8 | 331.7 | 348.7 | 366.3 | 388.8 | 125° | 304.3 |
| 191.4 | 195.1 | 196.8 | 199.3 | 208.4 | 222.4 | 222.4 | 247.9 | 270.4 | 293.5 | 312.3 | 127.5° | 338.6 |
| 145.8 | 145.8 | 139.7 | 143.4 | 144.6 | 143.4 | 150.7 | 165.3 | 179.8 | 195.1 | 224.8 | 130° | 372.4 |
| 122.1 | 118.5 | 116.6 | 116.0 | 116.6 | 119.1 | 123.4 | 128.8 | 131.2 | 137.9 | 149.5 | 132.5° | 406.1 |
| 108.1 | 107.5 | 105.7 | 105.7 | 106.9 | 107.5 | 111.8 | 116.6 | 117.8 | 119.7 | 124.0 | 135° | 438.8 |
| 95.3 | 96.6 | 98.4 | 97.8 | 98.4 | 99.6 | 102.7 | 106.9 | 109.4 | 110.0 | 113.0 | 137.5° | 470.0 |
| 86.2 | 87.5 | 88.1 | 89.9 | 89.9 | 90.5 | 93.0 | 97.2 | 99.0 | 102.1 | 105.2 | 140° | 499.2 |
| 80.2 | 80.8 | 81.4 | 80.8 | 81.4 | 81.4 | 84.5 | 88.7 | 91.1 | 93.0 | 94.8 | 142.5° | 529.4 |
| 73.6 | 72.9 | 72.9 | 72.9 | 71.1 | 70.5 | 71.7 | 75.9 | 76.5 | 78.4 | 82.7 | 145° | 558.0 |
| 65.6 | 63.8 | 62.6 | 62.6 | 62.6 | 63.2 | 66.2 | 70.5 | 71.1 | 72.9 | 76.5 | 147.5° | 585.6 |
| 58.3 | 57.7 | 57.7 | 58.3 | 58.9 | 60.1 | 62.6 | 66.8 | 67.4 | 69.3 | 72.3 | 150° | 606.6 |
| 54.7 | 54.7 | 54.7 | 55.2 | 55.9 | 56.5 | 59.5 | 63.8 | 65.1 | 66.8 | 70.5 | 152.5° | 622.5 |
| 52.3 | 52.9 | 52.3 | 52.3 | 52.9 | 54.1 | 57.1 | 62.0 | 63.8 | 65.6 | 69.3 | 155° | 640.4 |
| 50.4 | 50.4 | 50.4 | 51.0 | 51.0 | 52.3 | 55.9 | 60.8 | 62.0 | 64.4 | 69.9 | 157.5° | 658.3 |
| 48.0 | 49.2 | 48.6 | 49.2 | 49.8 | 51.0 | 54.7 | 59.5 | 61.4 | 65.1 | 71.1 | 160° | 672.6 |
| 46.7 | 46.7 | 46.7 | 47.4 | 48.6 | 49.2 | 52.3 | 57.7 | 60.1 | 65.1 | 74.8 | 162.5° | 682.3 |
| 46.1 | 45.0 | 45.0 | 45.5 | 46.7 | 48.0 | 51.0 | 56.5 | 59.5 | 64.4 | 74.2 | 165° | 691.5 |
| 45.5 | 43.8 | 43.2 | 43.8 | 45.0 | 45.5 | 49.2 | 54.7 | 58.9 | 62.6 | 71.7 | 167.5° | 700.7 |
| 43.8 | 42.6 | 41.9 | 42.6 | 43.8 | 45.0 | 48.0 | 53.5 | 56.5 | 61.4 | 68.6 | 170° | 707.9 |
| 43.2 | 41.3 | 41.3 | 41.9 | 43.2 | 43.8 | 46.7 | 52.3 | 55.2 | 62.0 | 70.5 | 172.5° | 709.9 |
| 40.7 | 40.1 | 40.1 | 40.7 | 40.7 | 41.9 | 45.5 | 51.0 | 53.5 | 63.2 | 58.9 | 175° | 712.0 |
| 38.9 | 38.9 | 38.9 | 38.9 | 39.5 | 40.1 | 44.4 | 49.8 | 51.0 | 54.7 | 50.4 | 177.5° | 715.6 |
| 37.6 | 37.6 | 37.6 | 37.6 | 37.6 | 38.9 | 42.6 | 48.0 | 48.6 | 48.0 | 46.1 | 180° | 716.1 |
| 35.2 | 35.2 | 35.2 | 35.2 | 35.8 | 36.4 | 40.1 | 45.0 | 45.0 | 43.8 | 43.8 | | |
| 33.5 | 32.8 | 32.8 | 32.8 | 32.8 | 33.5 | 37.0 | 41.9 | 41.3 | 40.7 | 40.7 | | |
| 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 29.8 | 33.5 | 38.3 | 37.6 | 37.0 | 36.4 | | |
| 26.1 | 26.1 | 26.7 | 26.1 | 25.5 | 25.0 | 28.5 | 34.1 | 34.1 | 33.5 | 32.8 | | |
| 22.5 | 21.9 | 22.5 | 21.9 | 20.7 | 20.7 | 23.7 | 28.5 | 29.2 | 28.5 | 27.3 | | |
| 18.2 | 17.6 | 17.6 | 17.6 | 15.1 | 15.1 | 18.2 | 23.1 | 23.1 | 22.5 | 21.3 | | |
| 14.0 | 13.4 | 12.8 | 12.2 | 10.3 | 10.3 | 12.8 | 17.0 | 17.6 | 15.1 | 14.6 | | |
| 7.3 | 7.3 | 7.3 | 5.4 | 4.9 | 4.3 | 6.6 | 10.3 | 10.3 | 8.5 | 7.3 | | |
| 7.7 | 7.2 | 6.1 | 5.1 | 5.1 | 5.1 | 6.1 | 7.8 | 7.7 | 8.2 | 8.2 | | |
| 5.6 | 5.1 | 4.6 | 4.1 | 4.1 | 4.1 | 4.6 | 5.1 | 5.6 | 6.1 | 6.1 | | |
| 6.6 | 6.1 | 5.6 | 5.1 | 5.1 | 5.1 | 5.6 | 6.1 | 6.6 | 7.2 | 7.2 | | |
| 8.2 | 8.2 | 7.7 | 7.2 | 7.2 | 7.2 | 7.7 | 8.2 | 8.2 | 8.2 | 8.7 | | |
| 9.7 | 9.2 | 8.7 | 8.2 | 8.2 | 8.2 | 8.7 | 9.2 | 9.7 | 10.2 | 11.3 | | |
| 15.9 | 13.3 | 12.3 | 11.3 | 11.3 | 11.3 | 12.3 | 13.3 | 15.9 | 18.4 | 23.0 | | |
| 32.2 | 27.6 | 25.1 | 22.5 | 21.5 | 22.5 | 25.1 | 27.6 | 32.2 | 36.8 | 43.0 | | |
| 54.7 | 50.1 | 46.5 | 43.0 | 41.9 | 43.0 | 46.5 | 50.1 | 54.7 | 59.3 | 67.0 | | |

'227340
 IST-AF-600-LED-E1-SLR-ULG

REPORT NUMBER: P227340
 CATALOG NUMBER: IST-AF-60

TION (continued):

CANDELA DISTRIBUTION (con

| 165° | 170° | 175° | 180° | 185° | 190° | 195° | 200° | 205° | 210° | | 215° | 220° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 75.7 | 72.6 | 69.6 | 67.5 | 69.6 | 72.6 | 75.7 | 82.3 | 89.0 | 96.7 | 0° | 1192.7 | 1192.7 |
| 108.4 | 104.9 | 101.3 | 101.3 | 101.3 | 104.9 | 108.4 | 116.1 | 123.8 | 130.4 | 2.5° | 1116.1 | 1121.6 |
| 150.4 | 146.3 | 142.2 | 143.2 | 142.2 | 146.3 | 150.4 | 156.5 | 162.6 | 167.3 | 5° | 901.6 | 922.9 |
| 193.3 | 190.8 | 188.2 | 188.2 | 188.2 | 190.8 | 193.3 | 197.4 | 201.5 | 204.1 | 7.5° | 681.7 | 710.2 |
| 231.2 | 229.7 | 228.1 | 230.2 | 228.1 | 229.7 | 231.2 | 234.8 | 238.3 | 240.4 | 10° | 546.2 | 565.7 |
| 267.0 | 266.5 | 266.0 | 269.0 | 266.0 | 266.5 | 267.0 | 270.1 | 273.1 | 275.2 | 12.5° | 479.4 | 507.3 |
| 302.8 | 301.8 | 300.7 | 304.8 | 300.7 | 301.8 | 302.8 | 304.3 | 305.9 | 308.9 | 15° | 411.3 | 441.7 |
| 336.6 | 336.6 | 336.6 | 337.6 | 336.6 | 336.6 | 336.6 | 338.6 | 340.6 | 343.7 | 17.5° | 337.2 | 374.3 |
| 370.3 | 369.8 | 369.3 | 371.3 | 369.3 | 369.8 | 370.3 | 372.4 | 374.4 | 376.4 | 20° | 257.6 | 294.1 |
| 402.0 | 402.5 | 403.0 | 405.1 | 403.0 | 402.5 | 402.0 | 406.1 | 410.2 | 411.7 | 22.5° | 181.1 | 212.1 |
| 435.8 | 435.8 | 435.8 | 438.8 | 435.8 | 435.8 | 435.8 | 438.8 | 441.9 | 443.4 | 25° | 131.9 | 145.8 |
| 469.5 | 468.5 | 467.5 | 470.6 | 467.5 | 468.5 | 469.5 | 470.0 | 470.6 | 472.6 | 27.5° | 117.2 | 122.8 |
| 498.2 | 497.2 | 496.1 | 499.2 | 496.1 | 497.2 | 498.2 | 499.2 | 500.2 | 501.2 | 30° | 110.0 | 113.6 |
| 528.9 | 527.8 | 526.8 | 529.9 | 526.8 | 527.8 | 528.9 | 529.4 | 529.9 | 531.4 | 32.5° | 99.0 | 102.7 |
| 556.5 | 557.5 | 558.5 | 562.6 | 558.5 | 557.5 | 556.5 | 558.0 | 559.6 | 561.1 | 35° | 86.8 | 91.8 |
| 584.1 | 584.6 | 585.1 | 588.2 | 585.1 | 584.6 | 584.1 | 585.6 | 587.2 | 587.2 | 37.5° | 80.8 | 84.5 |
| 606.6 | 606.1 | 605.6 | 608.7 | 605.6 | 606.1 | 606.6 | 606.6 | 606.6 | 606.6 | 40° | 77.1 | 77.7 |
| 622.0 | 622.0 | 622.0 | 625.0 | 622.0 | 622.0 | 622.0 | 622.5 | 623.0 | 623.5 | 42.5° | 74.2 | 74.2 |
| 639.3 | 639.3 | 639.3 | 643.4 | 639.3 | 639.3 | 639.3 | 640.4 | 641.4 | 642.9 | 45° | 72.3 | 74.2 |
| 657.8 | 657.8 | 657.8 | 660.8 | 657.8 | 657.8 | 657.8 | 658.3 | 658.8 | 659.8 | 47.5° | 73.6 | 81.4 |
| 674.1 | 674.6 | 675.1 | 678.2 | 675.1 | 674.6 | 674.1 | 672.6 | 671.1 | 670.5 | 50° | 82.7 | 80.2 |
| 684.4 | 684.4 | 684.4 | 688.4 | 684.4 | 684.4 | 684.4 | 682.3 | 680.3 | 678.2 | 52.5° | 84.5 | 75.3 |
| 691.5 | 692.5 | 693.6 | 696.6 | 693.6 | 692.5 | 691.5 | 691.5 | 691.5 | 690.0 | 55° | 77.1 | 72.3 |
| 699.7 | 701.2 | 702.8 | 705.8 | 702.8 | 701.2 | 699.7 | 700.7 | 701.7 | 702.8 | 57.5° | 69.3 | 63.2 |
| 707.9 | 709.4 | 711.0 | 714.0 | 711.0 | 709.4 | 707.9 | 707.9 | 707.9 | 708.4 | 59° | 62.0 | 58.3 |
| 711.0 | 712.0 | 713.0 | 715.0 | 713.0 | 712.0 | 711.0 | 709.9 | 708.9 | 707.4 | 60° | 57.7 | 56.5 |
| 713.0 | 713.5 | 714.0 | 716.1 | 714.0 | 713.5 | 713.0 | 712.0 | 711.0 | 708.9 | 62.5° | 52.9 | 54.1 |
| 716.1 | 718.6 | 721.2 | 723.2 | 721.2 | 718.6 | 716.1 | 715.6 | 715.0 | 714.0 | 65° | 49.2 | 51.7 |
| 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 67.5° | 47.4 | 49.2 |
| | | | | | | | | | | 70° | 44.4 | 45.5 |
| | | | | | | | | | | 72.5° | 41.3 | 41.9 |
| | | | | | | | | | | 75° | 37.0 | 37.6 |
| | | | | | | | | | | 77.5° | 32.8 | 32.8 |
| | | | | | | | | | | 80° | 26.7 | 26.7 |
| | | | | | | | | | | 82.5° | 20.7 | 20.0 |
| | | | | | | | | | | 85° | 13.4 | 12.8 |
| | | | | | | | | | | 87.5° | 6.0 | 4.9 |
| | | | | | | | | | | 90° | 8.2 | 7.7 |
| | | | | | | | | | | 92.5° | 6.1 | 6.1 |
| | | | | | | | | | | 95° | 7.2 | 7.2 |
| | | | | | | | | | | 97.5° | 9.2 | 9.2 |
| | | | | | | | | | | 100° | 12.3 | 16.9 |
| | | | | | | | | | | 102.5° | 27.6 | 34.3 |
| | | | | | | | | | | 105° | 49.1 | 56.8 |
| | | | | | | | | | | 107.5° | 74.7 | 82.3 |



REPORT NUMBER: P227340

CATALOG NUMBER: IST-AF-600-LED-E1-S

0-LED-E1-SLR-ULG

tinued):

CANDELA DISTRIBUTION (continued):

| 225° | 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | | 215° | 220° | 225° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 110° | 104.3 | 110.5 | 116.6 |
| 1148.9 | 1166.0 | 1179.3 | 1176.8 | 1205.4 | 1222.4 | 1224.9 | 1242.5 | 1259.5 | 112.5° | 137.1 | 141.7 | 146.3 |
| 939.9 | 963.6 | 986.6 | 1003.7 | 1048.6 | 1085.8 | 1114.3 | 1144.7 | 1180.5 | 115° | 171.9 | 174.9 | 178.0 |
| 749.1 | 769.2 | 806.8 | 834.2 | 881.6 | 924.7 | 966.6 | 1014.7 | 1055.4 | 117.5° | 206.6 | 208.2 | 209.7 |
| 586.9 | 612.4 | 647.6 | 698.7 | 741.2 | 790.4 | 843.3 | 888.8 | 956.9 | 120° | 242.4 | 245.5 | 248.6 |
| 527.3 | 543.2 | 572.3 | 596.6 | 649.5 | 701.7 | 761.3 | 823.9 | 886.4 | 122.5° | 277.2 | 280.3 | 283.4 |
| 466.0 | 494.0 | 521.3 | 556.5 | 602.7 | 659.8 | 724.2 | 791.7 | 862.1 | 125° | 312.0 | 314.6 | 317.1 |
| 406.4 | 443.6 | 473.3 | 511.6 | 563.2 | 635.6 | 719.3 | 803.2 | 885.9 | 127.5° | 346.8 | 347.3 | 347.8 |
| 333.6 | 368.2 | 420.4 | 459.3 | 526.7 | 617.2 | 724.9 | 840.9 | 952.7 | 130° | 378.5 | 379.5 | 380.5 |
| 262.5 | 299.5 | 359.1 | 416.8 | 490.9 | 607.5 | 746.7 | 902.9 | 1052.3 | 132.5° | 413.3 | 413.8 | 414.3 |
| 187.7 | 238.1 | 297.1 | 370.0 | 459.9 | 601.5 | 776.4 | 979.4 | 1180.5 | 135° | 445.0 | 446.0 | 447.0 |
| 140.3 | 175.5 | 247.2 | 326.8 | 425.3 | 590.5 | 808.0 | 1050.5 | 1267.9 | 137.5° | 474.6 | 476.7 | 478.7 |
| 125.2 | 150.1 | 196.8 | 280.7 | 382.8 | 569.3 | 831.8 | 1117.9 | 1347.5 | 140° | 502.3 | 505.3 | 508.4 |
| 109.4 | 128.8 | 165.8 | 236.9 | 344.5 | 536.4 | 842.1 | 1153.8 | 1402.9 | 142.5° | 533.0 | 535.0 | 537.0 |
| 96.0 | 114.3 | 151.9 | 219.9 | 325.1 | 499.4 | 840.3 | 1189.6 | 1472.1 | 145° | 562.6 | 563.1 | 563.6 |
| 87.5 | 103.3 | 145.8 | 215.6 | 309.9 | 465.4 | 842.1 | 1247.3 | 1574.8 | 147.5° | 587.2 | 587.7 | 588.2 |
| 80.8 | 99.0 | 141.0 | 206.5 | 302.6 | 446.5 | 849.4 | 1298.3 | 1662.9 | 150° | 606.6 | 606.6 | 606.6 |
| 80.8 | 97.8 | 128.8 | 193.8 | 298.9 | 448.4 | 852.4 | 1337.8 | 1728.5 | 152.5° | 624.0 | 624.0 | 624.0 |
| 85.1 | 91.8 | 119.7 | 186.5 | 301.4 | 461.8 | 848.7 | 1377.9 | 1792.3 | 155° | 644.5 | 643.4 | 642.4 |
| 80.8 | 85.6 | 113.6 | 185.3 | 301.4 | 471.5 | 859.7 | 1427.7 | 1876.2 | 157.5° | 660.8 | 660.3 | 659.8 |
| 76.5 | 79.6 | 111.8 | 183.5 | 295.3 | 480.6 | 904.7 | 1520.7 | 1985.5 | 160° | 670.0 | 670.0 | 670.0 |
| 71.1 | 74.8 | 109.4 | 180.4 | 288.6 | 492.1 | 984.3 | 1676.9 | 2166.6 | 162.5° | 676.2 | 677.2 | 678.2 |
| 64.4 | 71.7 | 105.7 | 175.5 | 284.4 | 512.8 | 1065.7 | 1834.9 | 2382.2 | 165° | 688.4 | 688.4 | 688.4 |
| 62.0 | 68.6 | 97.2 | 164.1 | 280.1 | 535.3 | 1152.6 | 1986.2 | 2576.1 | 167.5° | 703.8 | 702.3 | 700.7 |
| 60.1 | 66.2 | 89.9 | 155.5 | 276.4 | 546.2 | 1178.6 | 2043.9 | 2650.8 | 170° | 708.9 | 707.9 | 706.9 |
| 58.9 | 65.1 | 85.6 | 148.2 | 272.2 | 546.8 | 1197.5 | 2065.7 | 2661.7 | 172.5° | 705.8 | 705.8 | 705.8 |
| 57.1 | 62.6 | 77.1 | 133.1 | 258.8 | 546.2 | 1199.3 | 2079.7 | 2630.1 | 175° | 706.9 | 706.3 | 705.8 |
| 54.1 | 60.1 | 77.7 | 125.2 | 234.6 | 520.7 | 1124.0 | 2012.2 | 2504.4 | 177.5° | 713.0 | 712.0 | 711.0 |
| 51.7 | 58.3 | 82.0 | 126.9 | 209.0 | 455.1 | 983.1 | 1802.6 | 2235.2 | 180° | 716.1 | 716.1 | 716.1 |
| 48.0 | 57.1 | 85.6 | 131.2 | 201.7 | 377.9 | 743.7 | 1472.1 | 1871.9 | | | | |
| 44.4 | 56.5 | 88.7 | 134.3 | 193.8 | 311.1 | 515.3 | 1043.8 | 1401.0 | | | | |
| 40.1 | 51.7 | 80.8 | 114.3 | 160.4 | 226.0 | 331.7 | 682.9 | 966.1 | | | | |
| 34.7 | 41.3 | 58.9 | 80.2 | 117.8 | 157.9 | 196.2 | 412.6 | 631.9 | | | | |
| 28.5 | 31.0 | 41.9 | 51.7 | 78.4 | 93.6 | 108.7 | 232.7 | 441.7 | | | | |
| 21.3 | 21.9 | 28.5 | 32.8 | 44.4 | 51.7 | 65.1 | 142.8 | 357.8 | | | | |
| 12.2 | 14.0 | 19.4 | 21.9 | 26.7 | 32.8 | 42.6 | 91.1 | 280.7 | | | | |
| 4.9 | 6.0 | 11.6 | 12.8 | 14.6 | 18.2 | 23.7 | 52.9 | 87.5 | | | | |
| 7.2 | 7.2 | 7.2 | 8.2 | 9.2 | 9.2 | 9.2 | 8.2 | 7.2 | | | | |
| 6.1 | 6.6 | 7.2 | 7.2 | 7.2 | 6.6 | 6.1 | 6.1 | 6.1 | | | | |
| 7.2 | 7.2 | 7.2 | 7.7 | 8.2 | 7.7 | 7.2 | 7.2 | 7.2 | | | | |
| 9.2 | 10.7 | 12.3 | 11.3 | 10.2 | 9.7 | 9.2 | 8.7 | 8.2 | | | | |
| 21.5 | 25.6 | 29.7 | 28.1 | 26.6 | 25.1 | 23.5 | 21.5 | 19.4 | | | | |
| 40.9 | 46.0 | 51.1 | 49.6 | 48.1 | 45.5 | 43.0 | 41.4 | 39.9 | | | | |
| 64.4 | 69.0 | 73.7 | 72.6 | 71.6 | 69.0 | 66.5 | 64.4 | 62.4 | | | | |
| 90.0 | 93.6 | 97.2 | 96.7 | 96.2 | 94.1 | 92.1 | 90.5 | 89.0 | | | | |

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SLR-ULG

CANDELA DISTRIBUTION (continued):

| 230° | 235° | 240° | 245° | 250° | 255° | 260° | 265° | | 270° | 275° | 280° | 285° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 119.7 | 122.8 | 123.3 | 123.8 | 122.8 | 121.7 | 120.2 | 118.7 | 0° | 1192.7 | 1192.7 | 1192.7 | 1192.7 |
| 148.8 | 151.4 | 152.4 | 153.4 | 152.9 | 152.4 | 151.4 | 150.4 | 2.5° | 1276.5 | 1289.2 | 1300.2 | 1308.7 |
| 180.6 | 183.1 | 184.6 | 186.2 | 184.6 | 183.1 | 182.1 | 181.1 | 5° | 1218.7 | 1248.5 | 1284.4 | 1314.8 |
| 212.8 | 215.8 | 217.9 | 219.9 | 217.4 | 214.8 | 213.8 | 212.8 | 7.5° | 1116.1 | 1153.8 | 1212.1 | 1247.9 |
| 250.1 | 251.6 | 253.7 | 255.7 | 253.2 | 250.6 | 249.6 | 248.6 | 10° | 1018.9 | 1074.2 | 1137.9 | 1189.6 |
| 284.4 | 285.4 | 287.4 | 289.5 | 286.9 | 284.4 | 283.4 | 282.3 | 12.5° | 952.7 | 1021.3 | 1082.1 | 1139.8 |
| 318.6 | 320.2 | 321.2 | 322.2 | 319.7 | 317.1 | 317.1 | 317.1 | 15° | 934.5 | 1004.3 | 1059.0 | 1111.8 |
| 350.4 | 352.9 | 353.4 | 353.9 | 353.9 | 353.9 | 353.4 | 352.9 | 17.5° | 970.9 | 1040.8 | 1087.5 | 1119.7 |
| 383.1 | 385.7 | 387.7 | 389.7 | 389.7 | 389.7 | 388.7 | 387.7 | 20° | 1056.6 | 1131.3 | 1161.0 | 1158.6 |
| 417.4 | 420.4 | 423.0 | 425.5 | 424.5 | 423.5 | 423.5 | 423.5 | 22.5° | 1173.8 | 1252.2 | 1252.2 | 1227.8 |
| 450.1 | 453.2 | 455.7 | 458.3 | 457.8 | 457.3 | 458.8 | 460.3 | 25° | 1328.7 | 1385.3 | 1354.3 | 1308.0 |
| 481.3 | 483.9 | 484.9 | 485.9 | 486.4 | 486.9 | 489.5 | 492.0 | 27.5° | 1438.7 | 1491.6 | 1437.5 | 1361.5 |
| 509.9 | 511.5 | 512.5 | 513.5 | 514.5 | 515.6 | 518.1 | 520.7 | 30° | 1529.8 | 1568.7 | 1500.1 | 1408.3 |
| 538.1 | 539.1 | 542.2 | 545.2 | 545.2 | 545.2 | 545.7 | 546.3 | 32.5° | 1610.0 | 1638.6 | 1548.0 | 1457.5 |
| 566.2 | 568.8 | 571.8 | 574.9 | 574.4 | 573.9 | 572.3 | 570.8 | 35° | 1706.1 | 1716.4 | 1597.8 | 1501.3 |
| 590.8 | 593.3 | 595.9 | 598.4 | 598.9 | 599.4 | 597.9 | 596.4 | 37.5° | 1812.4 | 1820.9 | 1669.6 | 1549.3 |
| 608.7 | 610.7 | 612.2 | 613.8 | 615.3 | 616.8 | 618.4 | 619.9 | 40° | 1937.6 | 1907.2 | 1722.4 | 1593.7 |
| 624.5 | 625.0 | 626.6 | 628.1 | 630.1 | 632.2 | 634.7 | 637.3 | 42.5° | 2014.7 | 1964.9 | 1760.7 | 1616.8 |
| 641.4 | 640.4 | 642.9 | 645.5 | 648.0 | 650.6 | 651.6 | 652.6 | 45° | 2075.5 | 2007.4 | 1778.3 | 1630.1 |
| 659.3 | 658.8 | 660.8 | 662.9 | 663.9 | 664.9 | 664.9 | 664.9 | 47.5° | 2150.1 | 2069.9 | 1809.3 | 1654.4 |
| 671.6 | 673.1 | 676.2 | 679.2 | 677.7 | 676.2 | 675.7 | 675.1 | 50° | 2248.5 | 2156.9 | 1887.8 | 1723.1 |
| 680.3 | 682.3 | 684.4 | 686.4 | 685.9 | 685.4 | 684.4 | 683.3 | 52.5° | 2450.3 | 2336.7 | 2028.6 | 1842.7 |
| 687.9 | 687.4 | 690.0 | 692.5 | 694.1 | 695.6 | 694.6 | 693.6 | 55° | 2682.4 | 2574.9 | 2254.1 | 2040.2 |
| 697.1 | 693.6 | 696.6 | 699.7 | 701.7 | 703.8 | 703.8 | 703.8 | 57.5° | 2868.4 | 2796.0 | 2455.2 | 2218.8 |
| 704.3 | 701.7 | 703.3 | 704.8 | 707.4 | 709.9 | 711.0 | 712.0 | 59° | 2937.0 | 2906.0 | 2597.4 | 2370.1 |
| 705.3 | 704.8 | 706.3 | 707.9 | 708.9 | 709.9 | 711.0 | 712.0 | 60° | 2962.5 | 2989.3 | 2672.7 | 2462.4 |
| 705.8 | 705.8 | 708.4 | 711.0 | 711.5 | 712.0 | 711.0 | 709.9 | 62.5° | 2980.1 | 3096.2 | 2917.6 | 2738.3 |
| 710.4 | 709.9 | 712.5 | 715.0 | 716.1 | 717.1 | 715.6 | 714.0 | 65° | 2943.6 | 3113.8 | 3016.6 | 2906.6 |
| 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 67.5° | 2785.1 | 2988.7 | 2969.7 | 2873.2 |
| | | | | | | | | 70° | 2460.6 | 2687.3 | 2752.9 | 2615.6 |
| | | | | | | | | 72.5° | 1851.2 | 2132.5 | 2490.4 | 2275.3 |
| | | | | | | | | 75° | 1206.1 | 1466.1 | 2126.5 | 1949.0 |
| | | | | | | | | 77.5° | 755.2 | 915.0 | 1517.1 | 1365.2 |
| | | | | | | | | 80° | 502.5 | 588.1 | 963.0 | 876.7 |
| | | | | | | | | 82.5° | 377.9 | 416.8 | 662.3 | 622.8 |
| | | | | | | | | 85° | 199.3 | 254.0 | 515.3 | 653.2 |
| | | | | | | | | 87.5° | 74.8 | 83.3 | 387.6 | 583.9 |
| | | | | | | | | 90° | 7.2 | 7.2 | 8.8 | 9.2 |
| | | | | | | | | 92.5° | 6.1 | 6.1 | 6.1 | 6.1 |
| | | | | | | | | 95° | 7.2 | 7.2 | 7.2 | 7.2 |
| | | | | | | | | 97.5° | 8.2 | 8.2 | 8.7 | 9.2 |
| | | | | | | | | 100° | 19.4 | 19.4 | 21.5 | 23.5 |
| | | | | | | | | 102.5° | 38.9 | 39.9 | 41.4 | 43.0 |
| | | | | | | | | 105° | 62.4 | 62.4 | 64.4 | 66.5 |
| | | | | | | | | 107.5° | 88.0 | 89.0 | 90.5 | 92.1 |

REPORT NUMBER: P227340

CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

| 290° | 295° | 300° | 305° | 310° | 315° | 320° | | 270° | 275° | 280° | 285° | 290° |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 110° | 119.7 | 118.7 | 120.2 | 121.7 | 122.8 |
| 1316.0 | 1327.0 | 1333.6 | 1328.7 | 1336.7 | 1338.4 | 1329.9 | 112.5° | 150.4 | 150.4 | 151.4 | 152.4 | 152.9 |
| 1340.3 | 1370.7 | 1392.5 | 1407.7 | 1413.8 | 1419.2 | 1416.9 | 115° | 182.1 | 181.1 | 182.1 | 183.1 | 184.6 |
| 1295.4 | 1342.1 | 1382.8 | 1410.8 | 1420.5 | 1427.7 | 1421.1 | 117.5° | 213.8 | 212.8 | 213.8 | 214.8 | 217.4 |
| 1245.5 | 1294.1 | 1332.4 | 1360.3 | 1359.7 | 1367.1 | 1354.3 | 120° | 248.6 | 248.6 | 249.6 | 250.6 | 253.2 |
| 1198.7 | 1246.2 | 1280.1 | 1278.9 | 1270.4 | 1249.1 | 1245.5 | 122.5° | 283.4 | 282.3 | 283.4 | 284.4 | 286.9 |
| 1161.7 | 1186.6 | 1195.1 | 1193.3 | 1168.9 | 1156.9 | 1155.0 | 125° | 317.1 | 317.1 | 317.1 | 317.1 | 319.7 |
| 1143.5 | 1142.2 | 1122.8 | 1101.5 | 1078.4 | 1077.2 | 1061.4 | 127.5° | 355.0 | 352.9 | 353.4 | 353.9 | 353.9 |
| 1146.5 | 1106.9 | 1071.1 | 1034.7 | 1009.8 | 1004.3 | 1006.2 | 130° | 388.7 | 387.7 | 388.7 | 389.7 | 389.7 |
| 1184.8 | 1114.9 | 1047.4 | 1010.4 | 981.2 | 972.7 | 976.4 | 132.5° | 424.5 | 423.5 | 423.5 | 423.5 | 424.5 |
| 1232.8 | 1139.2 | 1055.4 | 998.8 | 975.2 | 964.8 | 966.6 | 135° | 461.4 | 460.3 | 458.8 | 457.3 | 457.8 |
| 1265.0 | 1167.1 | 1081.5 | 1011.6 | 979.4 | 969.7 | 975.8 | 137.5° | 493.1 | 492.0 | 489.5 | 486.9 | 486.4 |
| 1306.3 | 1205.4 | 1116.8 | 1044.4 | 996.5 | 983.7 | 987.9 | 140° | 522.7 | 520.7 | 518.1 | 515.6 | 514.5 |
| 1347.0 | 1246.8 | 1166.6 | 1084.5 | 1026.2 | 1002.5 | 1009.1 | 142.5° | 548.3 | 546.3 | 545.7 | 545.2 | 545.2 |
| 1390.7 | 1294.7 | 1213.9 | 1139.2 | 1070.5 | 1033.5 | 1042.0 | 145° | 572.9 | 570.8 | 572.3 | 573.9 | 574.4 |
| 1441.7 | 1350.6 | 1281.3 | 1212.7 | 1142.2 | 1111.2 | 1114.9 | 147.5° | 598.4 | 596.4 | 597.9 | 599.4 | 598.9 |
| 1491.0 | 1405.3 | 1360.9 | 1309.9 | 1268.6 | 1221.2 | 1221.2 | 150° | 624.0 | 619.9 | 618.4 | 616.8 | 615.3 |
| 1520.1 | 1476.4 | 1464.3 | 1449.6 | 1425.4 | 1391.3 | 1384.1 | 152.5° | 642.4 | 637.3 | 634.7 | 632.2 | 630.1 |
| 1556.0 | 1560.8 | 1588.7 | 1617.9 | 1625.3 | 1591.8 | 1581.5 | 155° | 655.7 | 652.6 | 651.6 | 650.6 | 648.0 |
| 1623.4 | 1674.5 | 1766.2 | 1845.8 | 1861.6 | 1888.9 | 1857.4 | 157.5° | 670.0 | 664.9 | 664.9 | 664.9 | 663.9 |
| 1718.1 | 1812.4 | 1967.3 | 2097.4 | 2134.4 | 2136.8 | 2139.2 | 160° | 681.3 | 675.1 | 675.7 | 676.2 | 677.7 |
| 1826.4 | 1961.2 | 2166.0 | 2320.9 | 2387.2 | 2404.8 | 2392.0 | 162.5° | 689.5 | 683.3 | 684.4 | 685.4 | 685.9 |
| 2011.6 | 2133.8 | 2358.0 | 2525.1 | 2610.1 | 2651.4 | 2640.4 | 165° | 697.7 | 693.6 | 694.6 | 695.6 | 694.1 |
| 2195.2 | 2347.1 | 2544.5 | 2709.2 | 2799.6 | 2845.8 | 2855.6 | 167.5° | 709.9 | 703.8 | 703.8 | 703.8 | 701.7 |
| 2320.3 | 2462.4 | 2644.7 | 2796.6 | 2885.9 | 2941.2 | 2946.1 | 170° | 717.1 | 712.0 | 711.0 | 709.9 | 707.4 |
| 2396.9 | 2526.9 | 2704.9 | 2838.6 | 2927.9 | 2974.6 | 2991.6 | 172.5° | 717.1 | 712.0 | 711.0 | 709.9 | 708.9 |
| 2629.0 | 2652.6 | 2774.1 | 2862.2 | 2924.8 | 2946.1 | 2958.9 | 175° | 715.0 | 709.9 | 711.0 | 712.0 | 711.5 |
| 2737.7 | 2638.7 | 2624.7 | 2679.3 | 2684.8 | 2670.8 | 2653.2 | 177.5° | 718.1 | 714.0 | 715.6 | 717.1 | 716.1 |
| 2586.4 | 2354.9 | 2269.2 | 2261.9 | 2239.4 | 2230.3 | 2174.5 | 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |
| 2246.2 | 1912.6 | 1761.3 | 1679.3 | 1729.1 | 1727.4 | 1670.2 | | | | | | |
| 1892.6 | 1552.9 | 1356.7 | 1238.8 | 1224.3 | 1221.8 | 1172.0 | | | | | | |
| 1537.2 | 1218.7 | 1046.8 | 989.7 | 921.1 | 900.4 | 908.9 | | | | | | |
| 1108.2 | 870.0 | 833.6 | 877.3 | 882.8 | 867.0 | 856.1 | | | | | | |
| 698.1 | 654.4 | 689.6 | 769.2 | 816.0 | 795.3 | 803.2 | | | | | | |
| 582.1 | 515.3 | 517.6 | 601.5 | 633.1 | 637.9 | 621.5 | | | | | | |
| 645.9 | 515.8 | 422.9 | 412.6 | 401.6 | 252.8 | 351.8 | | | | | | |
| 582.1 | 399.2 | 235.2 | 193.8 | 119.1 | 68.6 | 71.1 | | | | | | |
| 9.2 | 9.2 | 8.2 | 7.2 | 7.2 | 7.2 | 7.7 | | | | | | |
| 6.6 | 7.2 | 7.2 | 7.2 | 6.6 | 6.1 | 6.1 | | | | | | |
| 7.7 | 8.2 | 7.7 | 7.2 | 7.2 | 7.2 | 7.2 | | | | | | |
| 9.7 | 10.2 | 11.3 | 12.3 | 10.7 | 9.2 | 9.2 | | | | | | |
| 25.1 | 26.6 | 28.1 | 29.7 | 25.6 | 21.5 | 16.9 | | | | | | |
| 45.5 | 48.1 | 49.6 | 51.1 | 46.0 | 40.9 | 34.3 | | | | | | |
| 69.0 | 71.6 | 72.6 | 73.7 | 69.0 | 64.4 | 56.8 | | | | | | |
| 94.1 | 96.2 | 96.7 | 97.2 | 93.6 | 90.0 | 82.3 | | | | | | |



REPORT NUMBER: P227340

CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

| 295° | 300° | 305° | 310° | 315° | 320° | | 325° | 330° | 335° | 340° | 345° | 350° |
|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 123.8 | 123.3 | 122.8 | 119.7 | 116.6 | 110.5 | 0° | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 | 1192.7 |
| 153.4 | 152.4 | 151.4 | 148.8 | 146.3 | 141.7 | 2.5° | 1328.1 | 1316.6 | 1303.9 | 1286.9 | 1289.8 | 1269.2 |
| 186.2 | 184.6 | 183.1 | 180.6 | 178.0 | 174.9 | 5° | 1398.0 | 1377.9 | 1350.6 | 1316.0 | 1283.8 | 1242.5 |
| 219.9 | 217.9 | 215.8 | 212.8 | 209.7 | 208.2 | 7.5° | 1390.7 | 1358.5 | 1313.0 | 1260.7 | 1218.1 | 1158.6 |
| 255.7 | 253.7 | 251.6 | 250.1 | 248.6 | 245.5 | 10° | 1328.1 | 1286.3 | 1249.1 | 1195.1 | 1139.8 | 1087.5 |
| 289.5 | 287.4 | 285.4 | 284.4 | 283.4 | 280.3 | 12.5° | 1240.6 | 1216.9 | 1184.8 | 1144.1 | 1090.6 | 1037.1 |
| 322.2 | 321.2 | 320.2 | 318.6 | 317.1 | 314.6 | 15° | 1145.3 | 1147.0 | 1127.6 | 1116.8 | 1090.0 | 1047.4 |
| 353.9 | 353.4 | 352.9 | 350.4 | 347.8 | 347.3 | 17.5° | 1066.8 | 1085.1 | 1095.5 | 1112.5 | 1115.5 | 1094.9 |
| 389.7 | 387.7 | 385.7 | 383.1 | 380.5 | 379.5 | 20° | 1014.7 | 1040.1 | 1072.4 | 1119.1 | 1168.3 | 1189.6 |
| 425.5 | 423.0 | 420.4 | 417.4 | 414.3 | 413.8 | 22.5° | 985.5 | 1017.0 | 1068.7 | 1153.8 | 1243.7 | 1297.7 |
| 458.3 | 455.7 | 453.2 | 450.1 | 447.0 | 446.0 | 25° | 980.0 | 1021.9 | 1094.3 | 1198.1 | 1314.8 | 1390.7 |
| 485.9 | 484.9 | 483.9 | 481.3 | 478.7 | 476.7 | 27.5° | 989.1 | 1043.8 | 1129.4 | 1247.9 | 1362.8 | 1472.7 |
| 513.5 | 512.5 | 511.5 | 509.9 | 508.4 | 505.3 | 30° | 1018.2 | 1082.1 | 1175.7 | 1303.2 | 1422.3 | 1531.7 |
| 545.2 | 542.2 | 539.1 | 538.1 | 537.0 | 535.0 | 32.5° | 1046.3 | 1125.2 | 1228.5 | 1353.1 | 1472.7 | 1581.5 |
| 574.9 | 571.8 | 568.8 | 566.2 | 563.6 | 563.1 | 35° | 1091.2 | 1170.8 | 1276.5 | 1391.3 | 1507.3 | 1630.7 |
| 598.4 | 595.9 | 593.3 | 590.8 | 588.2 | 587.7 | 37.5° | 1159.8 | 1229.7 | 1314.2 | 1421.1 | 1542.0 | 1669.6 |
| 613.8 | 612.2 | 610.7 | 608.7 | 606.6 | 606.6 | 40° | 1257.6 | 1303.9 | 1358.5 | 1443.0 | 1559.0 | 1695.7 |
| 628.1 | 626.6 | 625.0 | 624.5 | 624.0 | 624.0 | 42.5° | 1404.1 | 1413.8 | 1432.6 | 1476.4 | 1574.2 | 1726.1 |
| 645.5 | 642.9 | 640.4 | 641.4 | 642.4 | 643.4 | 45° | 1593.0 | 1563.9 | 1547.4 | 1541.4 | 1608.2 | 1745.6 |
| 662.9 | 660.8 | 658.8 | 659.3 | 659.8 | 660.3 | 47.5° | 1812.4 | 1755.3 | 1689.6 | 1658.0 | 1673.9 | 1776.6 |
| 679.2 | 676.2 | 673.1 | 671.6 | 670.0 | 670.0 | 50° | 2098.0 | 2005.0 | 1876.2 | 1785.0 | 1777.2 | 1867.7 |
| 686.4 | 684.4 | 682.3 | 680.3 | 678.2 | 677.2 | 52.5° | 2359.7 | 2238.3 | 2076.1 | 1968.5 | 1924.8 | 2037.8 |
| 692.5 | 690.0 | 687.4 | 687.9 | 688.4 | 688.4 | 55° | 2607.1 | 2513.5 | 2330.0 | 2196.4 | 2181.1 | 2263.2 |
| 699.7 | 696.6 | 693.6 | 697.1 | 700.7 | 702.3 | 57.5° | 2824.0 | 2743.1 | 2593.1 | 2418.8 | 2424.8 | 2504.4 |
| 704.8 | 703.3 | 701.7 | 704.3 | 706.9 | 707.9 | 59° | 2936.4 | 2869.0 | 2729.7 | 2552.4 | 2565.8 | 2675.1 |
| 707.9 | 706.3 | 704.8 | 705.3 | 705.8 | 705.8 | 60° | 2976.5 | 2919.9 | 2787.5 | 2638.1 | 2655.1 | 2768.7 |
| 711.0 | 708.4 | 705.8 | 705.8 | 705.8 | 706.3 | 62.5° | 2973.4 | 2937.0 | 2840.9 | 2770.5 | 2857.4 | 2940.6 |
| 715.0 | 712.5 | 709.9 | 710.4 | 711.0 | 712.0 | 65° | 2689.6 | 2634.4 | 2623.5 | 2746.8 | 2914.5 | 2994.7 |
| 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 67.5° | 2139.2 | 2165.4 | 2269.2 | 2481.3 | 2762.6 | 2879.3 |
| | | | | | | 70° | 1588.7 | 1635.0 | 1773.5 | 2039.6 | 2426.0 | 2627.8 |
| | | | | | | 72.5° | 1168.3 | 1214.5 | 1342.1 | 1633.8 | 1995.9 | 2174.5 |
| | | | | | | 75° | 916.8 | 930.8 | 1022.5 | 1251.6 | 1573.0 | 1719.4 |
| | | | | | | 77.5° | 846.9 | 805.1 | 767.3 | 890.1 | 1060.8 | 1186.6 |
| | | | | | | 80° | 788.6 | 709.0 | 620.3 | 657.3 | 698.7 | 832.4 |
| | | | | | | 82.5° | 612.4 | 559.6 | 490.3 | 537.7 | 557.1 | 561.4 |
| | | | | | | 85° | 358.4 | 319.0 | 404.1 | 572.3 | 566.2 | 495.8 |
| | | | | | | 87.5° | 126.3 | 164.1 | 184.7 | 317.1 | 383.4 | 331.7 |
| | | | | | | 90° | 8.2 | 10.0 | 13.6 | 13.7 | 16.3 | 9.2 |
| | | | | | | 92.5° | 6.1 | 6.1 | 6.1 | 5.6 | 5.1 | 4.6 |
| | | | | | | 95° | 7.2 | 7.2 | 7.2 | 6.6 | 6.1 | 5.6 |
| | | | | | | 97.5° | 9.2 | 8.7 | 8.2 | 8.2 | 8.2 | 7.7 |
| | | | | | | 100° | 12.3 | 11.3 | 10.2 | 9.7 | 9.2 | 8.7 |
| | | | | | | 102.5° | 27.6 | 23.0 | 18.4 | 15.9 | 13.3 | 12.3 |
| | | | | | | 105° | 49.1 | 43.0 | 36.8 | 32.2 | 27.6 | 25.1 |
| | | | | | | 107.5° | 74.7 | 67.0 | 59.3 | 54.7 | 50.1 | 46.5 |



REPORT NUMBER: P227340

CATALOG NUMBER: IST-AF-600-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

| 355° | 359° | 360° | | 325° | 330° | 335° | 340° | 345° | 350° | 355° |
|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 1192.7 | 1192.7 | 1192.7 | 110° | 104.3 | 96.7 | 89.0 | 82.3 | 75.7 | 72.6 | 69.6 |
| 1252.8 | 1235.8 | 1234.6 | 112.5° | 137.1 | 130.4 | 123.8 | 116.1 | 108.4 | 104.9 | 101.3 |
| 1209.6 | 1171.4 | 1159.2 | 115° | 171.9 | 167.3 | 162.6 | 156.5 | 150.4 | 146.3 | 142.2 |
| 1106.9 | 1062.6 | 1053.5 | 117.5° | 206.6 | 204.1 | 201.5 | 197.4 | 193.3 | 190.8 | 188.2 |
| 1020.7 | 971.5 | 963.0 | 120° | 242.4 | 240.4 | 238.3 | 234.8 | 231.2 | 229.7 | 228.1 |
| 976.4 | 929.6 | 919.2 | 122.5° | 277.2 | 275.2 | 273.1 | 270.1 | 267.0 | 266.5 | 266.0 |
| 993.4 | 941.7 | 936.3 | 125° | 312.0 | 308.9 | 305.9 | 304.3 | 302.8 | 301.8 | 300.7 |
| 1057.1 | 1002.5 | 1004.9 | 127.5° | 346.8 | 343.7 | 340.6 | 338.6 | 336.6 | 336.6 | 336.6 |
| 1166.6 | 1131.3 | 1122.8 | 130° | 378.5 | 376.4 | 374.4 | 372.4 | 370.3 | 369.8 | 369.3 |
| 1309.9 | 1271.6 | 1260.7 | 132.5° | 413.3 | 411.7 | 410.2 | 406.1 | 402.0 | 402.5 | 403.0 |
| 1432.0 | 1412.6 | 1405.3 | 135° | 445.0 | 443.4 | 441.9 | 438.8 | 435.8 | 435.8 | 435.8 |
| 1520.1 | 1529.2 | 1521.9 | 137.5° | 474.6 | 472.6 | 470.6 | 470.0 | 469.5 | 468.5 | 467.5 |
| 1590.6 | 1621.0 | 1617.4 | 140° | 502.3 | 501.2 | 500.2 | 499.2 | 498.2 | 497.2 | 496.1 |
| 1662.9 | 1721.8 | 1724.3 | 142.5° | 533.0 | 531.4 | 529.9 | 529.4 | 528.9 | 527.8 | 526.8 |
| 1716.4 | 1820.2 | 1841.5 | 145° | 562.6 | 561.1 | 559.6 | 558.0 | 556.5 | 557.5 | 558.5 |
| 1785.0 | 1924.2 | 1946.1 | 147.5° | 587.2 | 587.2 | 587.2 | 585.6 | 584.1 | 584.6 | 585.1 |
| 1837.3 | 2000.7 | 2027.5 | 150° | 606.6 | 606.6 | 606.6 | 606.6 | 606.6 | 606.1 | 605.6 |
| 1888.3 | 2063.9 | 2093.1 | 152.5° | 624.0 | 623.5 | 623.0 | 622.5 | 622.0 | 622.0 | 622.0 |
| 1930.2 | 2126.5 | 2156.3 | 155° | 644.5 | 642.9 | 641.4 | 640.4 | 639.3 | 639.3 | 639.3 |
| 1977.7 | 2187.3 | 2216.4 | 157.5° | 660.8 | 659.8 | 658.8 | 658.3 | 657.8 | 657.8 | 657.8 |
| 2062.7 | 2282.6 | 2317.3 | 160° | 670.0 | 670.5 | 671.1 | 672.6 | 674.1 | 674.6 | 675.1 |
| 2245.6 | 2459.4 | 2508.7 | 162.5° | 676.2 | 678.2 | 680.3 | 682.3 | 684.4 | 684.4 | 684.4 |
| 2509.8 | 2703.7 | 2742.5 | 165° | 688.4 | 690.0 | 691.5 | 691.5 | 691.5 | 692.5 | 693.6 |
| 2748.1 | 2869.5 | 2879.8 | 167.5° | 703.8 | 702.8 | 701.7 | 700.7 | 699.7 | 701.2 | 702.8 |
| 2845.8 | 2915.1 | 2912.0 | 170° | 708.9 | 708.4 | 707.9 | 707.9 | 707.9 | 709.4 | 711.0 |
| 2917.6 | 2926.0 | 2909.1 | 172.5° | 705.8 | 707.4 | 708.9 | 709.9 | 711.0 | 712.0 | 713.0 |
| 2956.4 | 2875.6 | 2846.5 | 175° | 706.9 | 708.9 | 711.0 | 712.0 | 713.0 | 713.5 | 714.0 |
| 2855.0 | 2742.5 | 2704.3 | 177.5° | 713.0 | 714.0 | 715.0 | 715.6 | 716.1 | 718.6 | 721.2 |
| 2562.1 | 2502.5 | 2458.9 | 180° | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 | 716.1 |
| 2179.3 | 2028.6 | 2000.1 | | | | | | | | |
| 1652.0 | 1453.3 | 1410.8 | | | | | | | | |
| 1154.4 | 916.3 | 858.5 | | | | | | | | |
| 758.8 | 588.1 | 566.2 | | | | | | | | |
| 492.1 | 390.7 | 384.0 | | | | | | | | |
| 343.3 | 256.4 | 236.3 | | | | | | | | |
| 210.8 | 85.6 | 82.0 | | | | | | | | |
| 65.6 | 39.5 | 35.2 | | | | | | | | |
| 7.0 | 7.6 | 7.6 | | | | | | | | |
| 4.1 | 4.1 | 4.1 | | | | | | | | |
| 5.1 | 5.1 | 5.1 | | | | | | | | |
| 7.2 | 7.2 | 7.2 | | | | | | | | |
| 8.2 | 8.2 | 8.2 | | | | | | | | |
| 11.3 | 11.3 | 11.3 | | | | | | | | |
| 22.5 | 21.7 | 21.5 | | | | | | | | |
| 43.0 | 42.1 | 41.9 | | | | | | | | |



| 359° | 360° |
|-------|-------|
| 67.9 | 67.5 |
| 101.3 | 101.3 |
| 143.0 | 143.2 |
| 188.2 | 188.2 |
| 229.8 | 230.2 |
| 268.4 | 269.0 |
| 304.0 | 304.8 |
| 337.4 | 337.6 |
| 370.9 | 371.3 |
| 404.7 | 405.1 |
| 438.2 | 438.8 |
| 469.9 | 470.6 |
| 498.6 | 499.2 |
| 529.3 | 529.9 |
| 561.8 | 562.6 |
| 587.6 | 588.2 |
| 608.0 | 608.7 |
| 624.4 | 625.0 |
| 642.6 | 643.4 |
| 660.2 | 660.8 |
| 677.6 | 678.2 |
| 687.6 | 688.4 |
| 696.0 | 696.6 |
| 705.2 | 705.8 |
| 713.4 | 714.0 |
| 714.6 | 715.0 |
| 715.7 | 716.1 |
| 722.8 | 723.2 |
| 716.1 | 716.1 |

(END OF REPORT)