

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: P227506

Luminaire Tested: **IST-AF-800-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29767)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-800-LED-E1-RW-7030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-RECTANGULAR WIDE TYPE I
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4473.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Cutoff
BUG Rating: B2 - U1 - G2

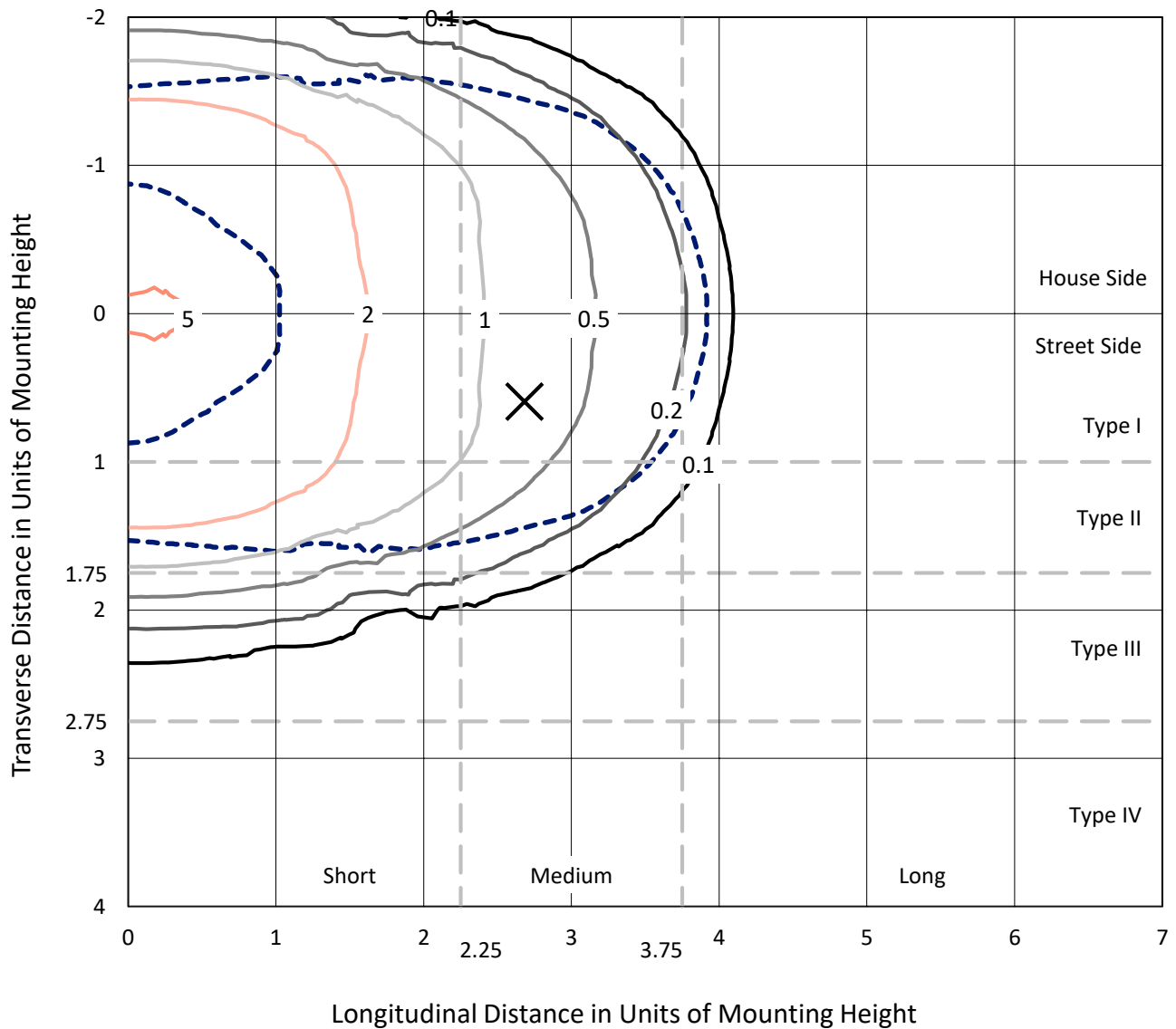
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P227506
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Iso-Footcandle Lines of Horizontal Illumination

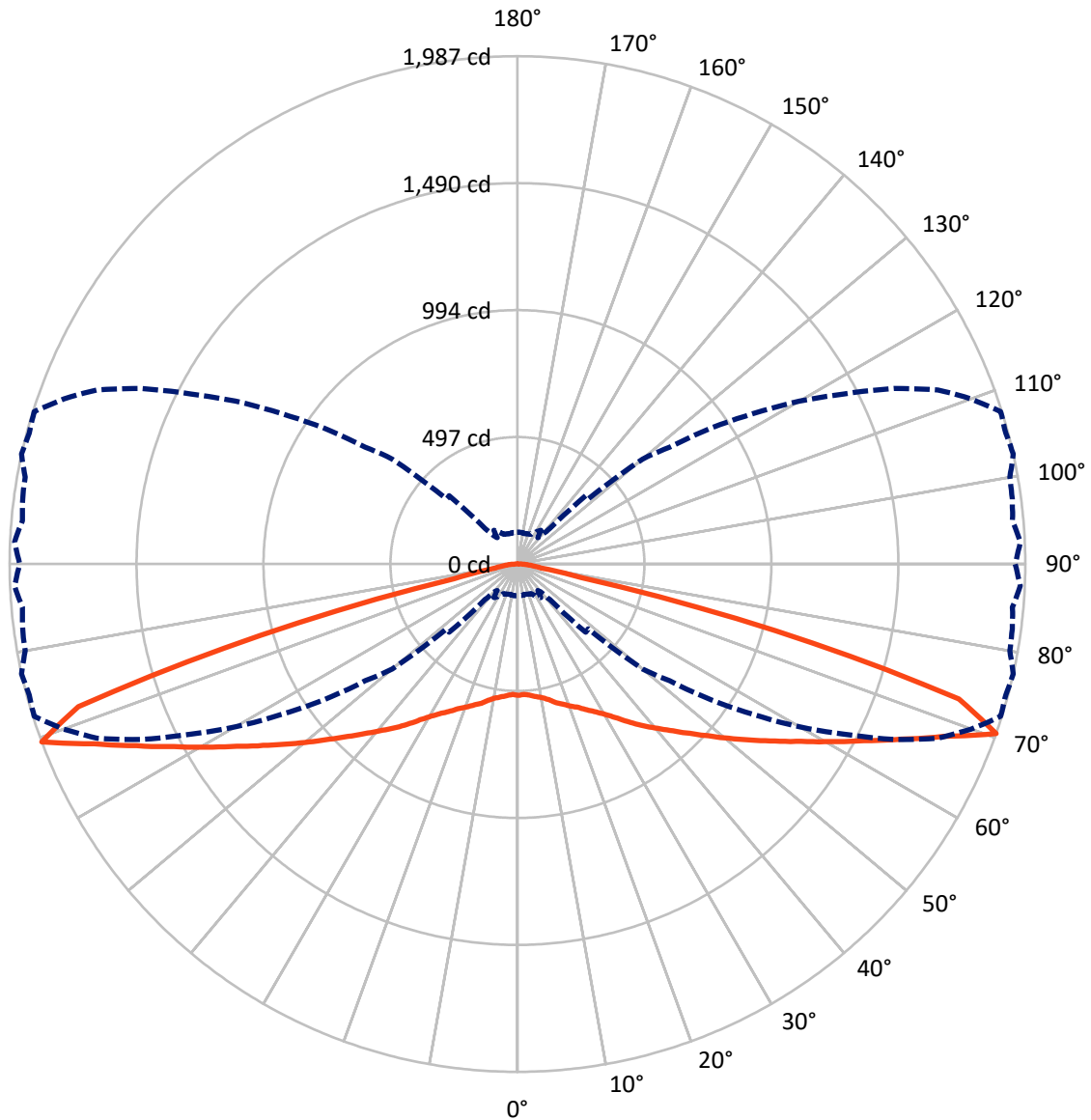
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Cutoff

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Luminous Intensity Polar Plot



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

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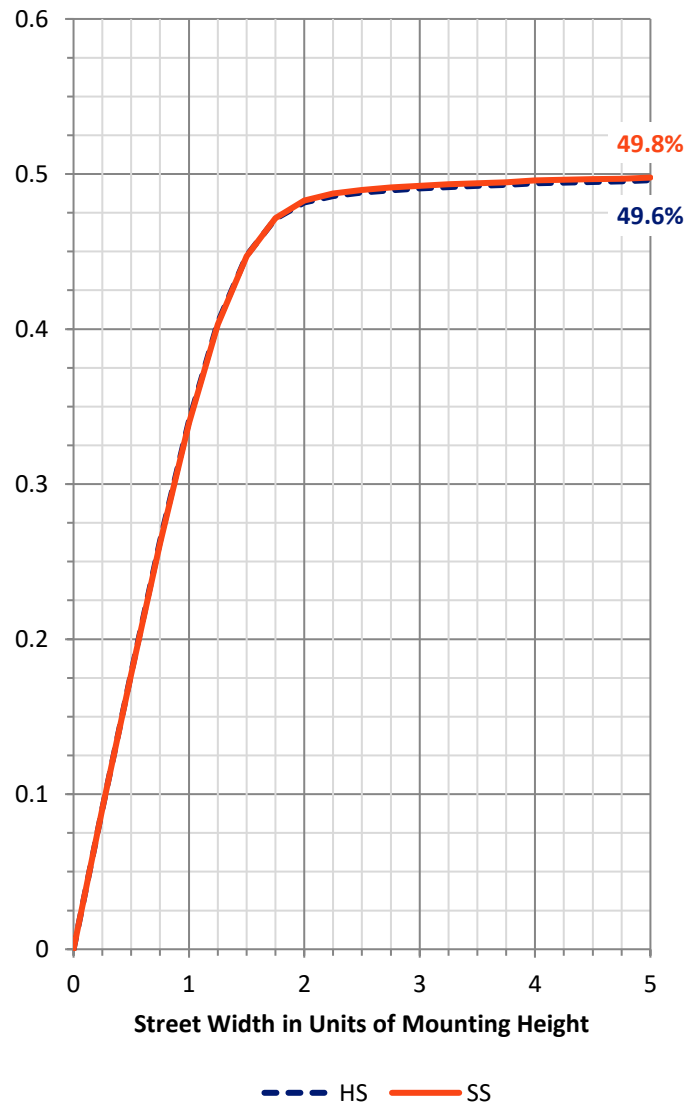
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2236.5 | 0.4 | 2236.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2236.5 | 0.4 | 2236.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4473.0 | 0.7 | 4473.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.7 | 1.1 |
| 10°-20° | 155.3 | 3.5 |
| 20°-30° | 291.6 | 6.5 |
| 30°-40° | 509.5 | 11.4 |
| 40°-50° | 830.6 | 18.6 |
| 50°-60° | 1136.6 | 25.4 |
| 60°-70° | 1045.6 | 23.4 |
| 70°-80° | 408.7 | 9.1 |
| 80°-90° | 45.5 | 1.0 |
| 90°-100° | 0.7 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 4473.0 | 100.0 |
| 0°-180° | 4473.7 | 100.0 |



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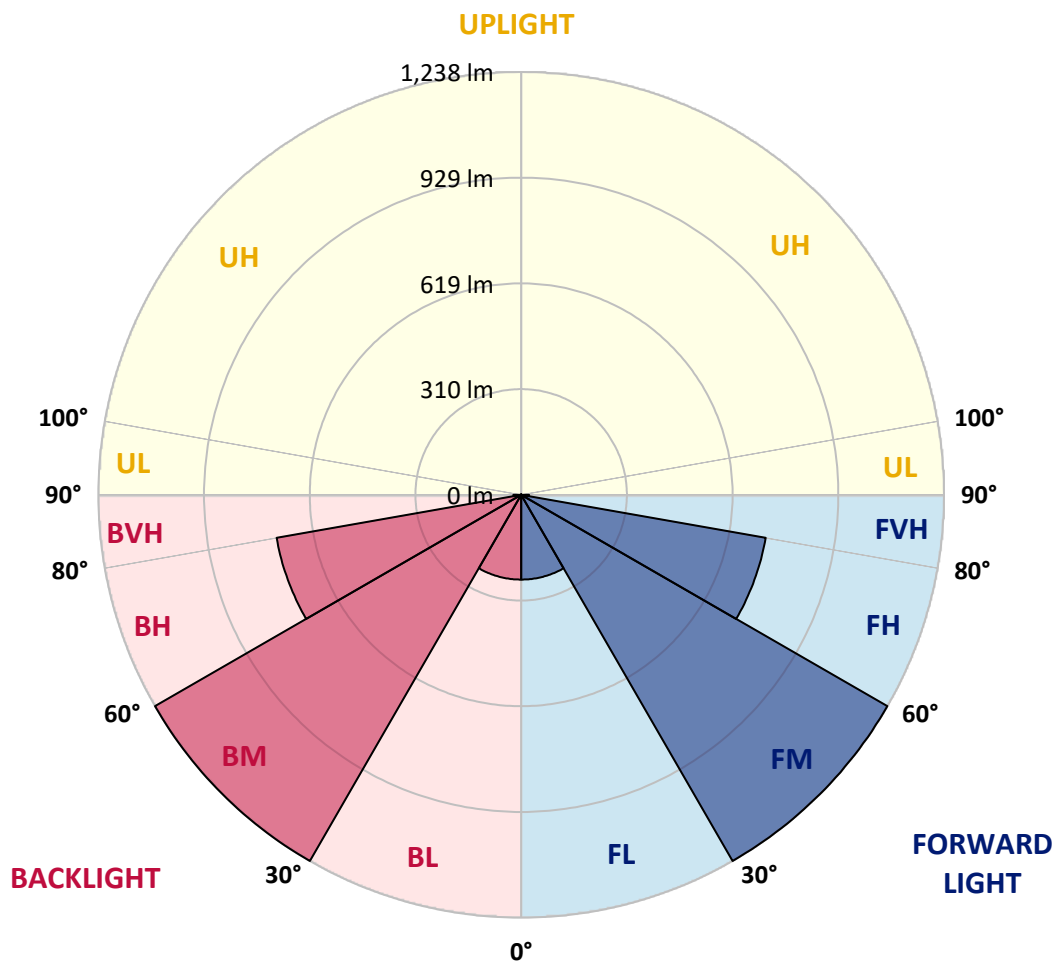
CATALOG NUMBER: IST-AF-800-LED-E1-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 248.3 | 5.5 | | | |
| FM | (30°-60°) | 1238.3 | 27.7 | | | |
| FH | (60°-80°) | 727.1 | 16.3 | | | G1/1800 |
| FVH | (80°-90°) | 22.7 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 248.3 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 1238.3 | 27.7 | B2/2500 | | |
| BH | (60°-80°) | 727.1 | 16.3 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 22.7 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.7 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 0.4 | 0.0 | | U1/10 | |

BUG Rating: B2-U1-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 |
| 2.5° | 511.9 | 511.3 | 511.3 | 511.9 | 513.3 | 513.9 | 512.6 | 513.3 | 513.3 | 512.6 | 514.6 |
| 5° | 513.3 | 512.6 | 513.3 | 514.6 | 516.5 | 518.5 | 517.9 | 517.9 | 518.5 | 517.2 | 520.5 |
| 7.5° | 511.9 | 511.3 | 512.6 | 515.9 | 520.5 | 523.1 | 523.1 | 523.1 | 524.4 | 523.8 | 527.7 |
| 10° | 506.0 | 505.4 | 508.6 | 514.6 | 523.1 | 525.1 | 527.1 | 527.7 | 531.7 | 531.7 | 535.6 |
| 12.5° | 500.8 | 501.4 | 506.0 | 515.2 | 529.0 | 529.7 | 532.3 | 535.0 | 540.2 | 537.6 | 544.8 |
| 15° | 502.7 | 504.0 | 510.0 | 521.2 | 539.6 | 538.9 | 540.9 | 543.5 | 552.1 | 546.2 | 558.0 |
| 17.5° | 512.6 | 514.6 | 521.2 | 534.3 | 553.4 | 550.1 | 552.7 | 556.7 | 567.9 | 560.6 | 574.5 |
| 20° | 528.4 | 531.0 | 538.3 | 552.7 | 570.5 | 567.2 | 569.8 | 574.5 | 587.6 | 580.4 | 594.2 |
| 22.5° | 549.4 | 552.1 | 560.0 | 576.4 | 595.5 | 591.6 | 594.2 | 598.1 | 612.6 | 601.4 | 618.5 |
| 25° | 577.7 | 580.4 | 588.9 | 606.0 | 627.8 | 623.1 | 624.5 | 627.1 | 642.2 | 629.1 | 645.5 |
| 27.5° | 617.2 | 619.9 | 627.1 | 643.5 | 664.6 | 660.7 | 662.0 | 664.6 | 680.4 | 667.2 | 681.7 |
| 30° | 667.2 | 669.9 | 676.4 | 692.9 | 710.7 | 706.1 | 708.0 | 710.0 | 724.5 | 711.3 | 723.2 |
| 32.5° | 726.5 | 725.8 | 735.7 | 752.8 | 768.6 | 760.0 | 760.0 | 760.0 | 773.8 | 760.7 | 769.9 |
| 35° | 796.2 | 796.2 | 806.1 | 822.5 | 837.0 | 827.1 | 822.5 | 819.9 | 835.0 | 818.6 | 825.2 |
| 37.5° | 872.5 | 869.2 | 884.4 | 899.5 | 913.3 | 900.8 | 896.9 | 893.6 | 904.8 | 886.4 | 889.6 |
| 40° | 953.5 | 950.8 | 967.3 | 984.4 | 993.6 | 977.2 | 973.9 | 969.9 | 981.8 | 964.0 | 963.3 |
| 42.5° | 1027.2 | 1025.2 | 1046.3 | 1066.0 | 1077.2 | 1056.1 | 1051.5 | 1047.6 | 1060.7 | 1043.0 | 1039.0 |
| 45° | 1089.7 | 1089.0 | 1113.4 | 1140.3 | 1160.1 | 1137.7 | 1134.4 | 1127.8 | 1141.0 | 1119.3 | 1117.3 |
| 47.5° | 1138.4 | 1135.7 | 1165.4 | 1204.8 | 1236.4 | 1213.4 | 1212.7 | 1208.1 | 1221.9 | 1198.3 | 1195.6 |
| 50° | 1171.3 | 1173.3 | 1205.5 | 1251.6 | 1302.9 | 1281.2 | 1283.1 | 1281.2 | 1301.6 | 1277.9 | 1281.2 |
| 52.5° | 1177.2 | 1181.1 | 1222.6 | 1283.1 | 1354.9 | 1328.5 | 1343.7 | 1349.6 | 1375.3 | 1354.9 | 1361.4 |
| 55° | 1106.8 | 1118.0 | 1181.1 | 1286.4 | 1387.1 | 1370.7 | 1389.7 | 1406.8 | 1443.0 | 1425.9 | 1437.8 |
| 57.5° | 949.5 | 972.6 | 1045.6 | 1198.3 | 1383.2 | 1392.4 | 1431.2 | 1457.5 | 1501.6 | 1486.5 | 1514.1 |
| 60° | 733.7 | 749.5 | 830.4 | 1008.7 | 1256.8 | 1269.3 | 1339.7 | 1423.3 | 1524.6 | 1545.7 | 1589.1 |
| 62.5° | 480.4 | 489.6 | 568.5 | 749.5 | 1039.0 | 1043.0 | 1130.5 | 1239.1 | 1414.7 | 1460.8 | 1582.5 |
| 65° | 238.2 | 250.7 | 292.8 | 431.7 | 727.8 | 722.5 | 818.6 | 945.6 | 1173.3 | 1223.9 | 1422.0 |
| 67.5° | 148.7 | 150.7 | 159.2 | 200.0 | 364.5 | 323.7 | 402.7 | 535.6 | 811.3 | 856.7 | 1108.1 |
| 70° | 125.0 | 124.4 | 122.4 | 128.3 | 160.6 | 130.3 | 144.1 | 188.2 | 377.7 | 375.7 | 638.9 |
| 72.5° | 115.2 | 113.2 | 107.9 | 107.3 | 111.9 | 102.7 | 104.0 | 106.6 | 151.3 | 127.0 | 246.1 |
| 75° | 105.9 | 102.0 | 95.4 | 93.4 | 93.4 | 86.2 | 86.2 | 86.9 | 98.0 | 92.1 | 111.9 |
| 77.5° | 94.8 | 90.1 | 83.6 | 80.9 | 78.3 | 70.4 | 69.8 | 70.4 | 79.0 | 73.7 | 83.6 |
| 80° | 81.6 | 77.0 | 72.4 | 68.4 | 64.5 | 57.2 | 55.3 | 55.3 | 62.5 | 57.2 | 65.1 |
| 82.5° | 71.1 | 65.1 | 63.8 | 57.2 | 51.3 | 44.7 | 42.8 | 39.5 | 46.1 | 40.1 | 48.7 |
| 85° | 52.6 | 48.0 | 60.5 | 50.7 | 40.8 | 36.2 | 29.0 | 24.3 | 29.0 | 23.7 | 30.9 |
| 87.5° | 30.3 | 28.3 | 53.3 | 40.1 | 36.2 | 38.8 | 23.7 | 17.1 | 16.5 | 14.5 | 17.1 |
| 90° | 5.9 | 6.6 | 8.6 | 5.9 | 7.9 | 3.9 | 2.0 | 2.0 | 3.9 | 2.6 | 4.6 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: IST-AF-800-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° |
|--------|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: IST-AF-800-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 |
| 2.5° | 512.6 | 514.6 | 511.9 | 514.6 | 510.0 | 513.9 | 510.6 | 514.6 | 511.3 | 514.6 | 510.6 |
| 5° | 515.9 | 521.2 | 515.2 | 522.5 | 513.9 | 522.5 | 515.2 | 523.1 | 516.5 | 523.1 | 515.9 |
| 7.5° | 521.2 | 530.4 | 522.5 | 531.7 | 521.2 | 533.0 | 523.1 | 534.3 | 524.4 | 535.0 | 523.8 |
| 10° | 527.7 | 539.6 | 529.0 | 540.9 | 528.4 | 542.2 | 529.7 | 544.2 | 531.0 | 545.5 | 531.7 |
| 12.5° | 533.7 | 548.8 | 536.9 | 552.7 | 538.9 | 555.4 | 540.9 | 559.3 | 543.5 | 562.6 | 544.8 |
| 15° | 544.8 | 564.6 | 549.4 | 568.5 | 552.7 | 571.8 | 556.0 | 577.1 | 559.3 | 581.0 | 562.6 |
| 17.5° | 559.3 | 581.0 | 565.2 | 584.3 | 567.2 | 588.3 | 571.2 | 592.2 | 574.5 | 596.8 | 576.4 |
| 20° | 579.1 | 600.8 | 584.3 | 602.7 | 586.3 | 605.4 | 588.3 | 607.4 | 592.2 | 611.3 | 593.5 |
| 22.5° | 601.4 | 621.8 | 604.1 | 622.5 | 604.1 | 621.8 | 605.4 | 622.5 | 607.4 | 625.1 | 609.3 |
| 25° | 628.4 | 647.5 | 629.7 | 645.5 | 627.1 | 642.9 | 627.1 | 642.9 | 629.1 | 644.2 | 632.4 |
| 27.5° | 665.9 | 680.4 | 662.0 | 675.8 | 656.0 | 669.9 | 653.4 | 667.2 | 654.1 | 667.2 | 655.4 |
| 30° | 708.0 | 721.2 | 700.1 | 711.3 | 689.6 | 700.1 | 682.4 | 694.2 | 680.4 | 692.9 | 683.7 |
| 32.5° | 754.1 | 764.6 | 743.6 | 752.8 | 730.4 | 739.6 | 720.5 | 728.4 | 716.6 | 724.5 | 718.6 |
| 35° | 805.4 | 815.9 | 794.2 | 802.8 | 780.4 | 788.3 | 769.2 | 773.2 | 761.3 | 766.6 | 761.3 |
| 37.5° | 866.6 | 875.8 | 850.8 | 858.7 | 834.4 | 844.2 | 821.2 | 825.2 | 810.7 | 814.0 | 803.4 |
| 40° | 932.4 | 942.3 | 912.7 | 920.6 | 890.3 | 901.5 | 875.8 | 878.5 | 858.7 | 862.0 | 845.6 |
| 42.5° | 1003.5 | 1012.7 | 975.8 | 982.4 | 946.9 | 958.7 | 928.5 | 933.7 | 910.0 | 913.3 | 892.3 |
| 45° | 1081.8 | 1087.1 | 1046.3 | 1050.9 | 1008.1 | 1019.9 | 981.8 | 991.6 | 963.3 | 969.9 | 945.6 |
| 47.5° | 1154.8 | 1165.4 | 1120.6 | 1124.6 | 1078.5 | 1085.7 | 1041.6 | 1054.8 | 1024.5 | 1034.4 | 1004.8 |
| 50° | 1238.4 | 1246.3 | 1203.5 | 1204.2 | 1159.4 | 1162.1 | 1112.7 | 1125.9 | 1093.0 | 1103.5 | 1071.9 |
| 52.5° | 1323.9 | 1329.2 | 1283.1 | 1287.7 | 1243.7 | 1248.3 | 1198.9 | 1204.2 | 1166.0 | 1175.2 | 1144.3 |
| 55° | 1406.8 | 1408.2 | 1370.0 | 1368.7 | 1327.2 | 1335.8 | 1281.2 | 1293.0 | 1247.6 | 1257.5 | 1222.6 |
| 57.5° | 1489.8 | 1494.4 | 1458.8 | 1460.1 | 1418.7 | 1424.6 | 1375.3 | 1383.8 | 1341.0 | 1352.9 | 1309.5 |
| 60° | 1577.3 | 1591.8 | 1556.9 | 1561.5 | 1522.0 | 1533.8 | 1474.0 | 1485.2 | 1438.4 | 1457.5 | 1410.8 |
| 62.5° | 1633.2 | 1687.2 | 1680.6 | 1687.8 | 1650.3 | 1656.2 | 1594.4 | 1612.2 | 1556.2 | 1570.0 | 1522.0 |
| 65° | 1526.6 | 1658.9 | 1726.0 | 1799.7 | 1801.7 | 1820.7 | 1760.9 | 1767.4 | 1711.5 | 1708.2 | 1651.6 |
| 67.5° | 1244.3 | 1407.5 | 1520.7 | 1672.0 | 1778.0 | 1880.0 | 1916.8 | 1926.0 | 1895.8 | 1863.5 | 1799.7 |
| 70° | 750.8 | 929.1 | 1095.6 | 1273.9 | 1441.1 | 1624.7 | 1780.6 | 1888.5 | 1982.6 | 1978.0 | 1987.2 |
| 72.5° | 296.8 | 444.8 | 556.0 | 723.2 | 889.0 | 1092.3 | 1264.7 | 1416.7 | 1578.6 | 1678.0 | 1806.9 |
| 75° | 117.1 | 154.6 | 181.0 | 274.4 | 353.4 | 504.7 | 656.7 | 739.0 | 866.0 | 952.8 | 1042.3 |
| 77.5° | 84.2 | 92.1 | 93.4 | 108.6 | 114.5 | 158.6 | 185.6 | 213.9 | 240.8 | 257.9 | 254.7 |
| 80° | 65.1 | 70.4 | 70.4 | 77.0 | 76.3 | 84.9 | 82.9 | 90.8 | 90.1 | 96.7 | 92.1 |
| 82.5° | 48.7 | 52.0 | 52.0 | 57.2 | 57.2 | 62.5 | 61.2 | 66.5 | 64.5 | 69.1 | 64.5 |
| 85° | 31.6 | 34.9 | 34.9 | 37.5 | 36.2 | 41.5 | 40.8 | 44.7 | 42.8 | 44.7 | 41.5 |
| 87.5° | 17.8 | 19.7 | 20.4 | 22.4 | 20.4 | 24.3 | 23.7 | 25.7 | 23.7 | 25.7 | 24.3 |
| 90° | 2.6 | 3.9 | 2.6 | 3.9 | 2.0 | 5.9 | 3.3 | 6.6 | 2.0 | 7.9 | 3.3 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227506

CATALOG NUMBER: IST-AF-800-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

| | 52.5° | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227506

CATALOG NUMBER: IST-AF-800-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

| | 80° | 82.5° | 85° | 87.5° | 90° |
|--------|--------|--------|--------|--------|--------|
| 0° | 513.9 | 513.9 | 513.9 | 513.9 | 513.9 |
| 2.5° | 513.9 | 512.6 | 515.2 | 511.3 | 514.6 |
| 5° | 523.1 | 517.2 | 524.4 | 517.2 | 523.8 |
| 7.5° | 535.6 | 525.8 | 536.3 | 525.8 | 536.3 |
| 10° | 547.5 | 531.0 | 548.1 | 532.3 | 548.8 |
| 12.5° | 565.2 | 545.5 | 567.9 | 546.2 | 567.9 |
| 15° | 585.0 | 562.6 | 587.6 | 563.3 | 588.9 |
| 17.5° | 600.8 | 579.1 | 603.4 | 579.1 | 604.1 |
| 20° | 613.9 | 596.8 | 617.2 | 596.8 | 619.2 |
| 22.5° | 629.1 | 616.6 | 633.0 | 616.6 | 637.0 |
| 25° | 648.8 | 640.3 | 653.4 | 641.6 | 656.0 |
| 27.5° | 671.8 | 665.9 | 676.4 | 667.9 | 679.1 |
| 30° | 698.8 | 696.8 | 702.1 | 698.2 | 704.7 |
| 32.5° | 729.1 | 733.7 | 733.7 | 733.7 | 736.3 |
| 35° | 773.2 | 777.1 | 777.1 | 778.4 | 779.1 |
| 37.5° | 815.3 | 821.9 | 821.2 | 823.2 | 823.2 |
| 40° | 859.4 | 867.9 | 867.9 | 867.9 | 869.2 |
| 42.5° | 908.1 | 917.3 | 918.6 | 914.6 | 917.3 |
| 45° | 962.7 | 966.0 | 969.3 | 967.3 | 971.9 |
| 47.5° | 1021.2 | 1024.5 | 1027.2 | 1024.5 | 1031.8 |
| 50° | 1090.3 | 1089.7 | 1096.9 | 1089.7 | 1100.2 |
| 52.5° | 1162.7 | 1168.6 | 1173.3 | 1166.0 | 1173.3 |
| 55° | 1244.3 | 1242.3 | 1257.5 | 1247.6 | 1257.5 |
| 57.5° | 1333.8 | 1333.8 | 1348.9 | 1339.7 | 1350.9 |
| 60° | 1439.7 | 1431.2 | 1452.3 | 1437.1 | 1452.3 |
| 62.5° | 1547.0 | 1531.9 | 1555.6 | 1542.4 | 1562.1 |
| 65° | 1670.7 | 1649.0 | 1671.4 | 1654.3 | 1672.0 |
| 67.5° | 1795.7 | 1770.7 | 1778.0 | 1769.4 | 1779.3 |
| 70° | 1956.3 | 1953.0 | 1944.5 | 1969.5 | 1947.7 |
| 72.5° | 1786.5 | 1824.7 | 1793.8 | 1853.6 | 1812.8 |
| 75° | 1097.6 | 1168.0 | 1206.8 | 1268.0 | 1258.1 |
| 77.5° | 259.9 | 231.0 | 254.7 | 228.3 | 257.3 |
| 80° | 96.1 | 87.5 | 91.5 | 79.6 | 88.8 |
| 82.5° | 65.8 | 57.2 | 55.3 | 44.1 | 47.4 |
| 85° | 42.1 | 34.2 | 31.6 | 26.3 | 29.0 |
| 87.5° | 25.0 | 19.1 | 17.8 | 15.1 | 15.8 |
| 90° | 7.2 | 2.6 | 5.3 | 1.3 | 4.6 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P227506

CATALOG NUMBER: IST-AF-800-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

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

(END OF REPORT)