

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: P226605

Luminaire Tested: **IST-AF-1200-LED-E1-T4FT-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35943)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-1200-LED-E1-T4FT-7060
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6979.1 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U1 - G2

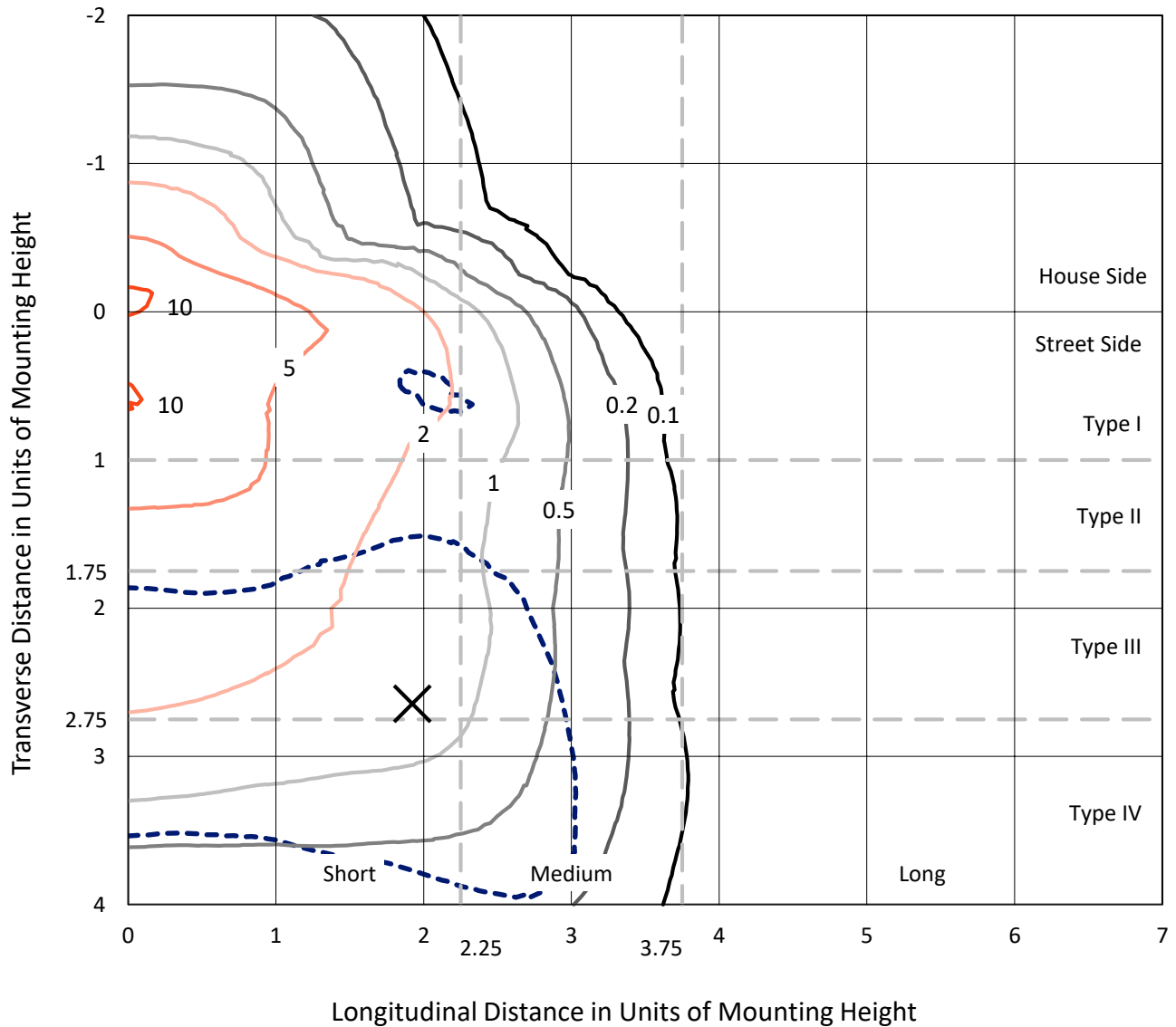
Input Watts (W): 66
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

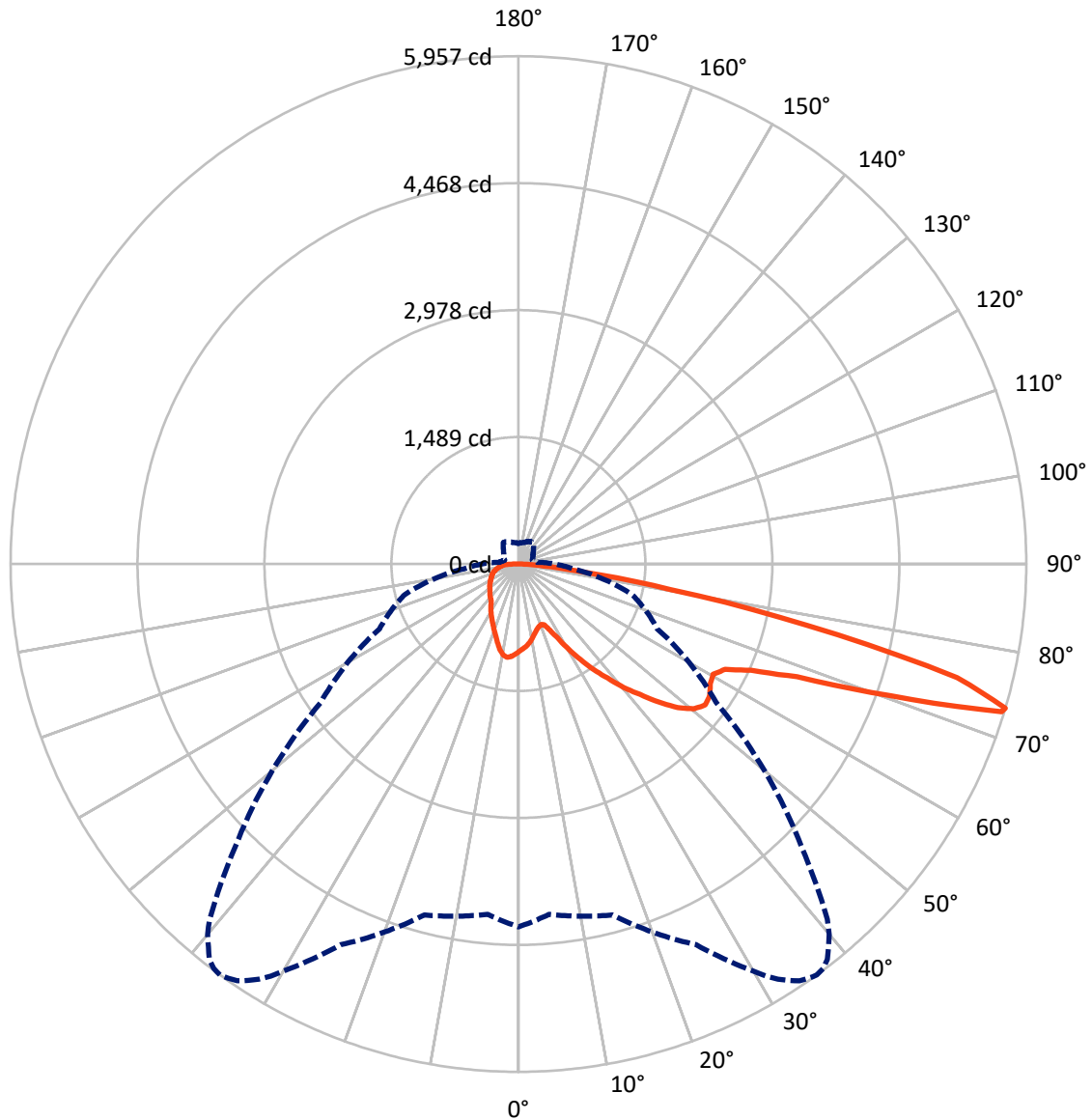
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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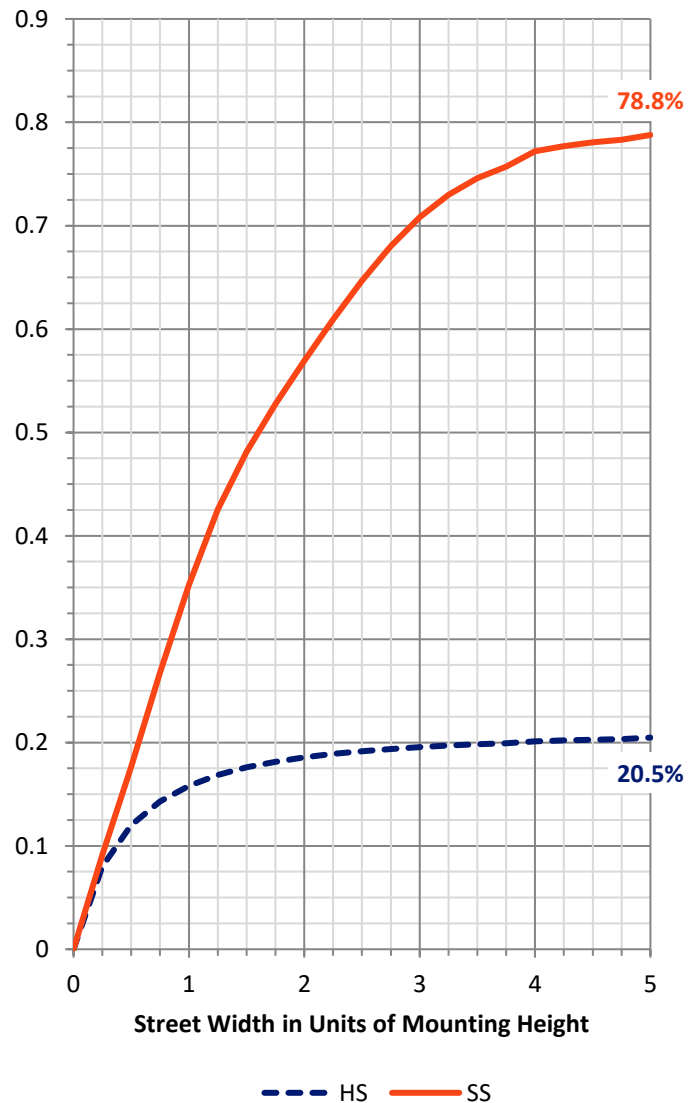
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1471.6 | 1.6 | 1473.2 |
| | % Fixture | 21.1 | 0.0 | 21.1 |
| Street Side | Lumens | 5505.3 | 0.6 | 5505.9 |
| | % Fixture | 78.9 | 0.0 | 78.9 |
| Total | Lumens | 6976.9 | 2.2 | 6979.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 96.5 | 1.4 |
| 10°-20° | 255.7 | 3.7 |
| 20°-30° | 419.0 | 6.0 |
| 30°-40° | 694.2 | 9.9 |
| 40°-50° | 1020.2 | 14.6 |
| 50°-60° | 1286.4 | 18.4 |
| 60°-70° | 1684.5 | 24.1 |
| 70°-80° | 1363.6 | 19.5 |
| 80°-90° | 156.9 | 2.2 |
| 90°-100° | 2.2 | 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° | 6976.9 | 100.0 |
| 0°-180° | 6979.1 | 100.0 |



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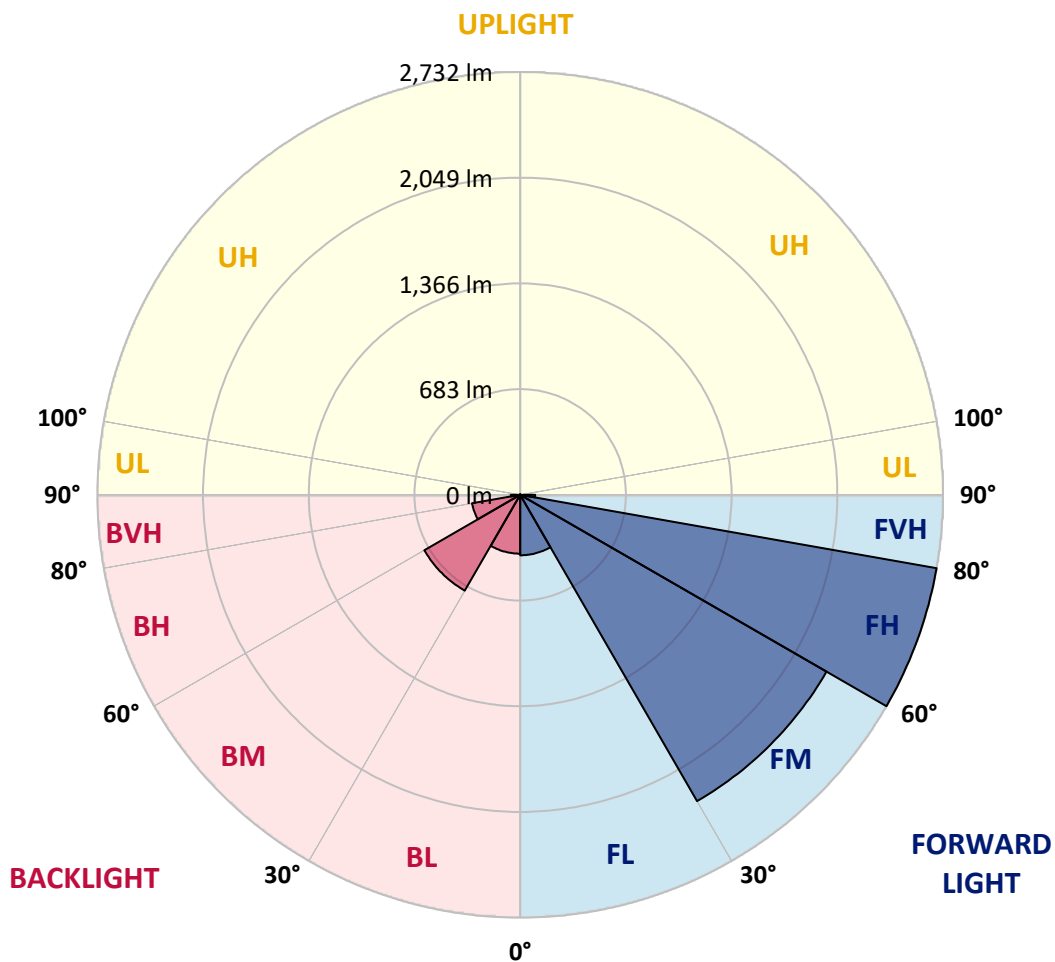
CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 390.7 | 5.6 | | | |
| FM | (30°-60°) | 2285.5 | 32.7 | | | |
| FH | (60°-80°) | 2732.3 | 39.2 | | | G2/5000 |
| FVH | (80°-90°) | 96.7 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 380.4 | 5.5 | B1/500 | | |
| BM | (30°-60°) | 715.3 | 10.2 | B1/1000 | | |
| BH | (60°-80°) | 315.8 | 4.5 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 60.1 | 0.9 | | | G1/100 |
| UL | (90°-100°) | 2.2 | 0.0 | | U1/10 | |
| UH | (100°-180°) | 1.6 | 0.0 | | U1/10 | |

BUG Rating: B1-U1-G2

Type IV Short





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CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 30° | 31° | 32° | 33° | 34° | 35° | 36° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 |
| 2.5° | 988.0 | 990.0 | 992.0 | 992.0 | 992.0 | 995.0 | 994.0 | 994.0 | 995.0 | 996.0 | 996.0 |
| 5° | 951.0 | 952.0 | 958.0 | 960.0 | 966.0 | 965.0 | 965.0 | 965.0 | 969.0 | 966.0 | 968.0 |
| 7.5° | 909.0 | 911.0 | 917.0 | 924.0 | 929.0 | 930.0 | 929.0 | 927.0 | 932.0 | 934.0 | 932.0 |
| 10° | 859.0 | 860.0 | 868.0 | 874.0 | 882.0 | 881.0 | 884.0 | 884.0 | 886.0 | 885.0 | 889.0 |
| 12.5° | 834.0 | 832.0 | 828.0 | 831.0 | 833.0 | 833.0 | 833.0 | 836.0 | 835.0 | 837.0 | 840.0 |
| 15° | 831.0 | 826.0 | 806.0 | 799.0 | 797.0 | 797.0 | 796.0 | 795.0 | 798.0 | 801.0 | 801.0 |
| 17.5° | 845.0 | 835.0 | 796.0 | 776.0 | 772.0 | 770.0 | 771.0 | 769.0 | 769.0 | 773.0 | 772.0 |
| 20° | 913.0 | 895.0 | 817.0 | 773.0 | 761.0 | 761.0 | 760.0 | 757.0 | 757.0 | 758.0 | 758.0 |
| 22.5° | 1085.9 | 1062.9 | 927.0 | 836.0 | 794.0 | 793.0 | 790.0 | 787.0 | 779.0 | 777.0 | 773.0 |
| 25° | 1326.9 | 1299.9 | 1066.9 | 969.0 | 910.0 | 908.0 | 893.0 | 891.0 | 872.0 | 873.0 | 860.0 |
| 27.5° | 1513.9 | 1495.9 | 1253.9 | 1123.9 | 1067.9 | 1055.9 | 1048.9 | 1031.0 | 1015.0 | 1002.0 | 986.0 |
| 30° | 1577.9 | 1574.9 | 1442.9 | 1337.9 | 1253.9 | 1239.9 | 1220.9 | 1212.9 | 1189.9 | 1171.9 | 1160.9 |
| 32.5° | 1678.9 | 1681.9 | 1626.9 | 1510.9 | 1437.9 | 1423.9 | 1407.9 | 1388.9 | 1372.9 | 1360.9 | 1334.9 |
| 35° | 1822.9 | 1823.9 | 1785.9 | 1698.9 | 1614.9 | 1595.9 | 1586.9 | 1564.9 | 1549.9 | 1534.9 | 1521.9 |
| 37.5° | 1922.9 | 1927.9 | 1900.9 | 1833.9 | 1783.9 | 1756.9 | 1755.9 | 1739.9 | 1722.9 | 1709.9 | 1697.9 |
| 40° | 2114.9 | 2087.9 | 1998.9 | 1955.9 | 1914.9 | 1911.9 | 1902.9 | 1893.9 | 1897.9 | 1890.9 | 1903.9 |
| 42.5° | 2308.9 | 2274.9 | 2150.9 | 2089.9 | 2064.9 | 2069.9 | 2066.9 | 2067.9 | 2079.9 | 2076.9 | 2090.9 |
| 45° | 2474.9 | 2435.9 | 2317.9 | 2245.9 | 2265.9 | 2271.9 | 2288.9 | 2298.9 | 2293.9 | 2311.9 | 2311.9 |
| 47.5° | 2640.9 | 2549.9 | 2409.9 | 2442.9 | 2456.9 | 2502.9 | 2514.9 | 2511.9 | 2528.9 | 2536.9 | 2514.9 |
| 50° | 2523.9 | 2499.9 | 2488.9 | 2589.9 | 2652.9 | 2667.9 | 2684.9 | 2693.9 | 2701.9 | 2690.9 | 2668.9 |
| 52.5° | 2276.9 | 2274.9 | 2429.9 | 2676.9 | 2729.9 | 2749.9 | 2765.9 | 2772.9 | 2769.9 | 2763.9 | 2745.9 |
| 55° | 2193.9 | 2177.9 | 2311.9 | 2586.9 | 2667.9 | 2686.9 | 2709.9 | 2723.9 | 2737.9 | 2735.9 | 2721.9 |
| 57.5° | 2306.9 | 2293.9 | 2294.9 | 2507.9 | 2586.9 | 2603.9 | 2618.9 | 2634.9 | 2638.9 | 2651.9 | 2652.9 |
| 60° | 2634.9 | 2617.9 | 2480.9 | 2504.9 | 2584.9 | 2603.9 | 2605.9 | 2614.9 | 2615.9 | 2622.9 | 2623.9 |
| 62.5° | 3107.9 | 3076.9 | 2867.9 | 2687.9 | 2715.9 | 2724.9 | 2731.9 | 2729.9 | 2725.9 | 2720.9 | 2720.9 |
| 65° | 3625.8 | 3596.8 | 3327.8 | 3117.9 | 3036.9 | 3058.9 | 3023.9 | 3016.9 | 3008.9 | 3008.9 | 2999.9 |
| 67.5° | 4241.8 | 4186.8 | 3978.8 | 3742.8 | 3625.8 | 3636.8 | 3652.8 | 3591.8 | 3569.8 | 3571.8 | 3524.8 |
| 70° | 4869.8 | 4811.8 | 4720.8 | 4717.8 | 4776.8 | 4750.8 | 4676.8 | 4774.8 | 4658.8 | 4630.8 | 4620.8 |
| 72.5° | 4522.8 | 4453.8 | 4472.8 | 5037.8 | 5567.7 | 5653.7 | 5735.7 | 5811.7 | 5879.7 | 5920.7 | 5926.7 |
| 73° | 4256.8 | 4125.8 | 4261.8 | 4925.8 | 5513.7 | 5640.7 | 5742.7 | 5823.7 | 5896.7 | 5933.7 | 5956.7 |
| 75° | 2125.9 | 2132.9 | 2802.9 | 4063.8 | 4818.8 | 4927.8 | 5086.8 | 5175.8 | 5307.7 | 5375.7 | 5315.7 |
| 77.5° | 493.0 | 511.0 | 849.0 | 1928.9 | 2888.9 | 3044.9 | 3171.8 | 3301.8 | 3454.8 | 3511.8 | 3461.8 |
| 80° | 174.0 | 182.0 | 299.0 | 733.0 | 1205.9 | 1291.9 | 1400.9 | 1543.9 | 1685.9 | 1720.9 | 1808.9 |
| 82.5° | 92.0 | 101.0 | 158.0 | 318.0 | 515.0 | 563.0 | 591.0 | 650.0 | 700.0 | 730.0 | 746.0 |
| 85° | 53.0 | 54.0 | 90.0 | 176.0 | 236.0 | 255.0 | 273.0 | 287.0 | 303.0 | 292.0 | 292.0 |
| 87.5° | 21.0 | 23.0 | 46.0 | 83.0 | 114.0 | 127.0 | 127.0 | 127.0 | 126.0 | 111.0 | 101.0 |
| 90° | 4.0 | 6.0 | 9.0 | 17.0 | 15.0 | 15.0 | 14.0 | 12.0 | 11.0 | 12.0 | 7.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 30° | 31° | 32° | 33° | 34° | 35° | 36° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 37° | 38° | 39° | 40° | 41° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 |
| 2.5° | 998.0 | 999.0 | 997.0 | 1001.0 | 998.0 | 998.0 | 1003.0 | 1012.0 | 1019.0 | 1021.0 | 1027.0 |
| 5° | 970.0 | 971.0 | 971.0 | 972.0 | 971.0 | 973.0 | 982.0 | 990.0 | 1004.0 | 1011.0 | 1020.0 |
| 7.5° | 934.0 | 937.0 | 936.0 | 938.0 | 938.0 | 940.0 | 954.0 | 967.0 | 981.0 | 994.0 | 1005.0 |
| 10° | 891.0 | 893.0 | 897.0 | 895.0 | 895.0 | 901.0 | 916.0 | 935.0 | 952.0 | 971.0 | 984.0 |
| 12.5° | 840.0 | 845.0 | 844.0 | 848.0 | 850.0 | 854.0 | 879.0 | 900.0 | 921.0 | 943.0 | 960.0 |
| 15° | 800.0 | 803.0 | 805.0 | 806.0 | 806.0 | 815.0 | 840.0 | 866.0 | 894.0 | 920.0 | 938.0 |
| 17.5° | 774.0 | 774.0 | 776.0 | 777.0 | 779.0 | 785.0 | 811.0 | 840.0 | 872.0 | 904.0 | 924.0 |
| 20° | 759.0 | 759.0 | 760.0 | 761.0 | 761.0 | 768.0 | 792.0 | 825.0 | 860.0 | 901.0 | 925.0 |
| 22.5° | 771.0 | 768.0 | 767.0 | 767.0 | 763.0 | 763.0 | 786.0 | 821.0 | 865.0 | 918.0 | 949.0 |
| 25° | 853.0 | 844.0 | 830.0 | 827.0 | 822.0 | 798.0 | 795.0 | 835.0 | 889.0 | 955.0 | 1002.0 |
| 27.5° | 976.0 | 967.0 | 958.0 | 947.0 | 939.0 | 895.0 | 835.0 | 871.0 | 935.0 | 1029.0 | 1086.9 |
| 30° | 1136.9 | 1118.9 | 1105.9 | 1093.9 | 1058.9 | 1011.0 | 918.0 | 927.0 | 1006.0 | 1131.9 | 1204.9 |
| 32.5° | 1316.9 | 1297.9 | 1277.9 | 1249.9 | 1240.9 | 1162.9 | 1044.0 | 1020.0 | 1095.9 | 1251.9 | 1327.9 |
| 35° | 1490.9 | 1481.9 | 1467.9 | 1456.9 | 1435.9 | 1370.9 | 1207.9 | 1131.9 | 1199.9 | 1392.9 | 1451.9 |
| 37.5° | 1692.9 | 1675.9 | 1676.9 | 1667.9 | 1655.9 | 1600.9 | 1377.9 | 1266.9 | 1311.9 | 1527.9 | 1564.9 |
| 40° | 1891.9 | 1887.9 | 1893.9 | 1878.9 | 1858.9 | 1784.9 | 1502.9 | 1365.9 | 1428.9 | 1657.9 | 1648.9 |
| 42.5° | 2079.9 | 2082.9 | 2075.9 | 2058.9 | 2036.9 | 1912.9 | 1582.9 | 1449.9 | 1533.9 | 1771.9 | 1715.9 |
| 45° | 2294.9 | 2283.9 | 2254.9 | 2224.9 | 2197.9 | 2022.9 | 1625.9 | 1543.9 | 1634.9 | 1894.9 | 1783.9 |
| 47.5° | 2497.9 | 2454.9 | 2429.9 | 2383.9 | 2330.9 | 2122.9 | 1683.9 | 1642.9 | 1746.9 | 2010.9 | 1848.9 |
| 50° | 2646.9 | 2606.9 | 2564.9 | 2508.9 | 2452.9 | 2209.9 | 1760.9 | 1754.9 | 1873.9 | 2140.9 | 1937.9 |
| 52.5° | 2714.9 | 2677.9 | 2636.9 | 2579.9 | 2523.9 | 2272.9 | 1863.9 | 1863.9 | 2023.9 | 2312.9 | 2060.9 |
| 55° | 2703.9 | 2676.9 | 2640.9 | 2588.9 | 2545.9 | 2306.9 | 1969.9 | 1983.9 | 2211.9 | 2498.9 | 2202.9 |
| 57.5° | 2645.9 | 2630.9 | 2609.9 | 2573.9 | 2538.9 | 2332.9 | 2094.9 | 2103.9 | 2463.9 | 2677.9 | 2336.9 |
| 60° | 2625.9 | 2619.9 | 2607.9 | 2586.9 | 2559.9 | 2389.9 | 2227.9 | 2247.9 | 2745.9 | 2841.9 | 2412.9 |
| 62.5° | 2714.9 | 2702.9 | 2693.9 | 2672.9 | 2647.9 | 2529.9 | 2394.9 | 2400.9 | 3010.9 | 2861.9 | 2338.9 |
| 65° | 2964.9 | 2942.9 | 2927.9 | 2899.9 | 2871.9 | 2740.9 | 2607.9 | 2542.9 | 3140.8 | 2674.9 | 2087.9 |
| 67.5° | 3488.8 | 3452.8 | 3409.8 | 3356.8 | 3279.8 | 3161.8 | 2818.9 | 2562.9 | 3022.9 | 2265.9 | 1646.9 |
| 70° | 4524.8 | 4446.8 | 4347.8 | 4234.8 | 4205.8 | 3861.8 | 2950.9 | 2414.9 | 2512.9 | 1582.9 | 1091.9 |
| 72.5° | 5916.7 | 5835.7 | 5747.7 | 5654.7 | 5470.7 | 4714.8 | 2892.9 | 1947.9 | 1562.9 | 814.0 | 520.0 |
| 73° | 5939.7 | 5884.7 | 5778.7 | 5670.7 | 5520.7 | 4699.8 | 2829.9 | 1795.9 | 1377.9 | 641.0 | 426.0 |
| 75° | 5326.7 | 5304.7 | 5200.8 | 4992.8 | 4865.8 | 3969.8 | 2083.9 | 1041.0 | 603.0 | 396.0 | 277.0 |
| 77.5° | 3456.8 | 3432.8 | 3373.8 | 3353.8 | 3119.9 | 2573.9 | 933.0 | 405.0 | 328.0 | 263.0 | 196.0 |
| 80° | 1841.9 | 1729.9 | 1709.9 | 1629.9 | 1458.9 | 991.0 | 319.0 | 248.0 | 218.0 | 176.0 | 137.0 |
| 82.5° | 747.0 | 699.0 | 681.0 | 617.0 | 580.0 | 297.0 | 160.0 | 172.0 | 146.0 | 104.0 | 84.0 |
| 85° | 275.0 | 253.0 | 247.0 | 201.0 | 177.0 | 88.0 | 98.0 | 121.0 | 91.0 | 58.0 | 42.0 |
| 87.5° | 95.0 | 82.0 | 71.0 | 55.0 | 51.0 | 36.0 | 54.0 | 66.0 | 58.0 | 35.0 | 20.0 |
| 90° | 7.0 | 6.0 | 5.0 | 4.0 | 5.0 | 4.0 | 6.0 | 9.0 | 10.0 | 6.0 | 4.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P226605

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 37° | 38° | 39° | 40° | 41° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P226605

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 | 1025.0 |
| 2.5° | 1029.0 | 1033.0 | 1041.0 | 1046.9 | 1051.9 | 1058.9 | 1060.9 | 1064.9 | 1059.9 | 1065.9 |
| 5° | 1025.0 | 1037.0 | 1051.9 | 1065.9 | 1078.9 | 1089.9 | 1094.9 | 1095.9 | 1096.9 | 1100.9 |
| 7.5° | 1015.0 | 1033.0 | 1056.9 | 1075.9 | 1095.9 | 1102.9 | 1105.9 | 1106.9 | 1099.9 | 1102.9 |
| 10° | 995.0 | 1024.0 | 1053.9 | 1076.9 | 1086.9 | 1081.9 | 1073.9 | 1060.9 | 1054.9 | 1054.9 |
| 12.5° | 973.0 | 1010.0 | 1045.0 | 1057.9 | 1048.9 | 1030.0 | 1008.0 | 984.0 | 975.0 | 975.0 |
| 15° | 955.0 | 1002.0 | 1031.0 | 1022.0 | 996.0 | 960.0 | 930.0 | 905.0 | 897.0 | 894.0 |
| 17.5° | 945.0 | 998.0 | 1009.0 | 981.0 | 937.0 | 892.0 | 862.0 | 841.0 | 834.0 | 834.0 |
| 20° | 953.0 | 1002.0 | 984.0 | 932.0 | 877.0 | 836.0 | 810.0 | 796.0 | 789.0 | 792.0 |
| 22.5° | 987.0 | 1017.0 | 962.0 | 884.0 | 817.0 | 782.0 | 770.0 | 761.0 | 760.0 | 762.0 |
| 25° | 1044.0 | 1037.0 | 943.0 | 834.0 | 761.0 | 736.0 | 735.0 | 732.0 | 731.0 | 730.0 |
| 27.5° | 1117.9 | 1061.9 | 920.0 | 778.0 | 705.0 | 693.0 | 699.0 | 698.0 | 697.0 | 698.0 |
| 30° | 1215.9 | 1083.9 | 886.0 | 717.0 | 652.0 | 652.0 | 661.0 | 658.0 | 654.0 | 655.0 |
| 32.5° | 1306.9 | 1099.9 | 834.0 | 649.0 | 610.0 | 612.0 | 615.0 | 607.0 | 597.0 | 599.0 |
| 35° | 1384.9 | 1099.9 | 764.0 | 588.0 | 567.0 | 567.0 | 569.0 | 562.0 | 554.0 | 551.0 |
| 37.5° | 1449.9 | 1077.9 | 676.0 | 542.0 | 532.0 | 532.0 | 540.0 | 533.0 | 518.0 | 515.0 |
| 40° | 1488.9 | 1030.0 | 595.0 | 508.0 | 515.0 | 516.0 | 505.0 | 493.0 | 479.0 | 476.0 |
| 42.5° | 1513.9 | 960.0 | 531.0 | 484.0 | 504.0 | 496.0 | 470.0 | 451.0 | 450.0 | 454.0 |
| 45° | 1535.9 | 881.0 | 480.0 | 460.0 | 492.0 | 475.0 | 440.0 | 422.0 | 428.0 | 432.0 |
| 47.5° | 1557.9 | 802.0 | 439.0 | 433.0 | 470.0 | 458.0 | 421.0 | 401.0 | 398.0 | 404.0 |
| 50° | 1609.9 | 692.0 | 392.0 | 401.0 | 443.0 | 439.0 | 404.0 | 381.0 | 362.0 | 361.0 |
| 52.5° | 1679.9 | 545.0 | 352.0 | 373.0 | 422.0 | 428.0 | 385.0 | 363.0 | 337.0 | 333.0 |
| 55° | 1757.9 | 418.0 | 319.0 | 351.0 | 402.0 | 412.0 | 378.0 | 345.0 | 317.0 | 313.0 |
| 57.5° | 1780.9 | 330.0 | 288.0 | 320.0 | 375.0 | 397.0 | 367.0 | 324.0 | 303.0 | 299.0 |
| 60° | 1701.9 | 274.0 | 262.0 | 294.0 | 348.0 | 382.0 | 350.0 | 308.0 | 289.0 | 286.0 |
| 62.5° | 1460.9 | 242.0 | 248.0 | 277.0 | 328.0 | 368.0 | 337.0 | 296.0 | 281.0 | 279.0 |
| 65° | 1114.9 | 220.0 | 236.0 | 263.0 | 310.0 | 355.0 | 328.0 | 291.0 | 279.0 | 277.0 |
| 67.5° | 700.0 | 204.0 | 224.0 | 248.0 | 292.0 | 341.0 | 321.0 | 285.0 | 276.0 | 273.0 |
| 70° | 388.0 | 187.0 | 208.0 | 231.0 | 274.0 | 328.0 | 312.0 | 276.0 | 275.0 | 269.0 |
| 72.5° | 236.0 | 169.0 | 191.0 | 213.0 | 254.0 | 312.0 | 296.0 | 265.0 | 255.0 | 243.0 |
| 73° | 225.0 | 167.0 | 187.0 | 209.0 | 249.0 | 308.0 | 293.0 | 261.0 | 251.0 | 239.0 |
| 75° | 182.0 | 150.0 | 171.0 | 190.0 | 231.0 | 292.0 | 276.0 | 247.0 | 231.0 | 222.0 |
| 77.5° | 134.0 | 128.0 | 148.0 | 166.0 | 208.0 | 270.0 | 252.0 | 226.0 | 207.0 | 202.0 |
| 80° | 99.0 | 106.0 | 125.0 | 141.0 | 183.0 | 248.0 | 227.0 | 202.0 | 190.0 | 184.0 |
| 82.5° | 67.0 | 82.0 | 100.0 | 113.0 | 162.0 | 224.0 | 201.0 | 177.0 | 185.0 | 154.0 |
| 85° | 39.0 | 57.0 | 72.0 | 88.0 | 130.0 | 200.0 | 175.0 | 151.0 | 132.0 | 119.0 |
| 87.5° | 26.0 | 32.0 | 44.0 | 60.0 | 94.0 | 157.0 | 139.0 | 118.0 | 86.0 | 86.0 |
| 90° | 3.0 | 4.0 | 6.0 | 7.0 | 13.0 | 67.0 | 46.0 | 55.0 | 10.0 | 9.0 |
| 92.5° | 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 |
| 97.5° | 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 |
| 102.5° | 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 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P226605

CATALOG NUMBER: IST-AF-1200-LED-E1-T4FT-7060

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 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 |
| 120° | 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 |
| 125° | 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 |
| 130° | 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 |
| 135° | 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 |
| 140° | 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 |
| 145° | 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 |
| 150° | 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 |
| 155° | 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 |
| 160° | 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 |
| 165° | 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 |
| 170° | 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 |
| 175° | 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 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)