

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: STREETWORKS

Report Number: P483655

Luminaire Tested: **IFLD-S-SA3A-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483655
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

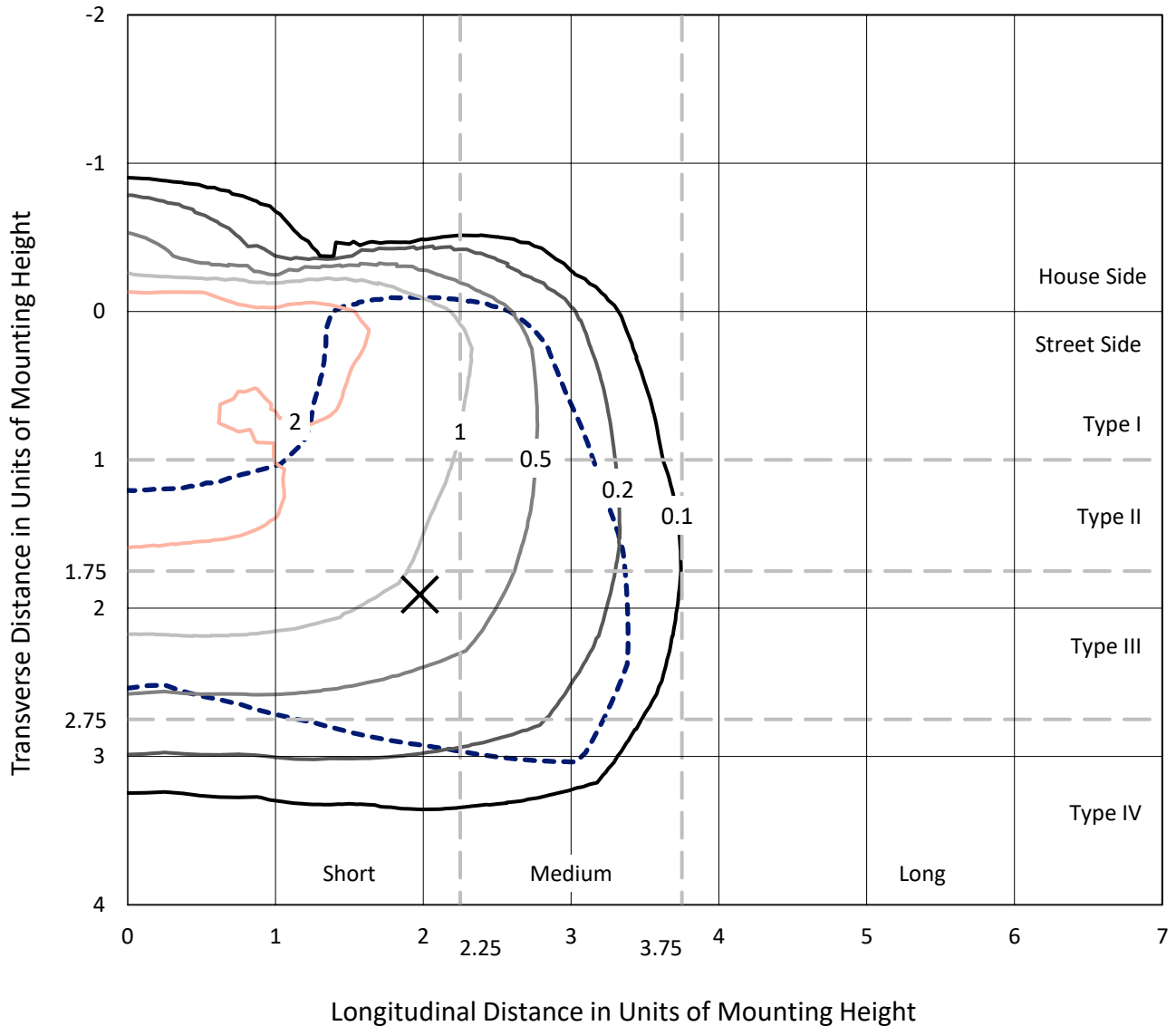
Lumens per Lamp: N/A
Luminaire Lumens: 10384 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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: 24 FT

REPORT NUMBER: P483655
 CATALOG NUMBER: IFLD-S-SA3A-750-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

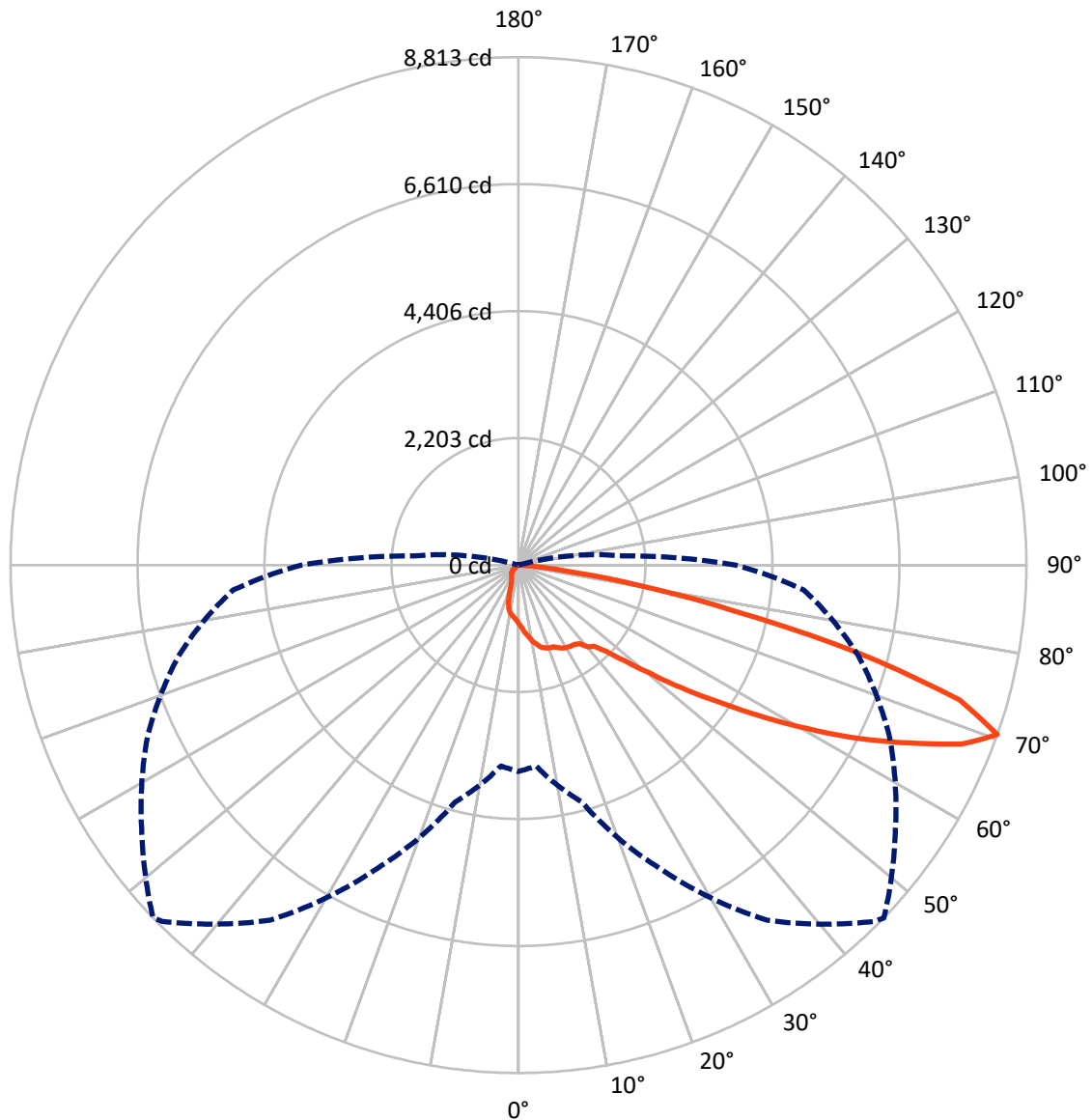
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P483655
CATALOG NUMBER: IFLD-S-SA3A-750-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483655
 CATALOG NUMBER: IFLD-S-SA3A-750-U-T4W-HSS

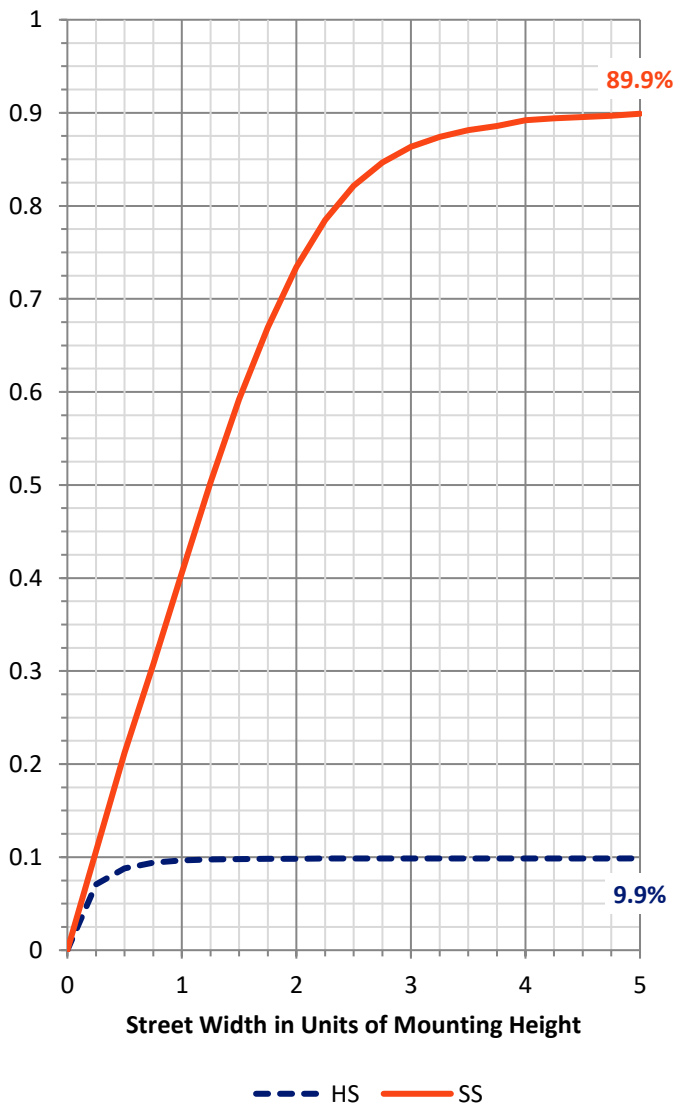
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1033.2 | 0.0 | 1033.2 |
| | % Fixture | 10.0 | 0.0 | 10.0 |
| Street Side | Lumens | 9350.8 | 0.0 | 9350.8 |
| | % Fixture | 90.0 | 0.0 | 90.0 |
| Total | Lumens | 10384.0 | 0.0 | 10384.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 101.6 | 1.0 |
| 10°-20° | 307.0 | 3.0 |
| 20°-30° | 491.7 | 4.7 |
| 30°-40° | 701.8 | 6.8 |
| 40°-50° | 1211.8 | 11.7 |
| 50°-60° | 2320.2 | 22.3 |
| 60°-70° | 3435.8 | 33.1 |
| 70°-80° | 1701.7 | 16.4 |
| 80°-90° | 112.5 | 1.1 |
| 90°-100° | 0.0 | 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° | 10384.0 | 100.0 |
| 0°-180° | 10384.0 | 100.0 |



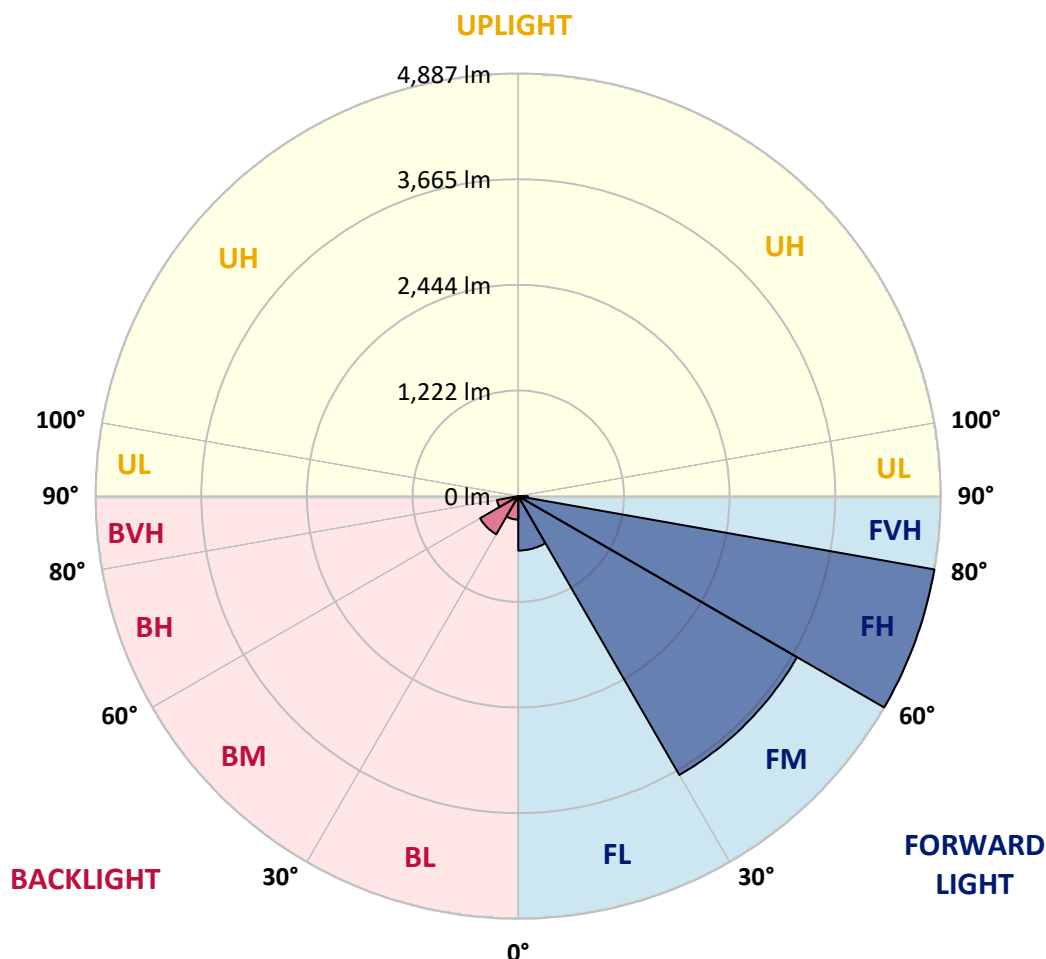
REPORT NUMBER: P483655
 CATALOG NUMBER: IFLD-S-SA3A-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 628.8 | 6.1 | | | |
| FM (30°-60°) | 3723.7 | 35.9 | | | |
| FH (60°-80°) | 4887.2 | 47.1 | | | G2/5000 |
| FVH (80°-90°) | 111.0 | 1.1 | | | G2/225 |
| BL (0°-30°) | 271.5 | 2.6 | B1/500 | | |
| BM (30°-60°) | 510.1 | 4.9 | B1/1000 | | |
| BH (60°-80°) | 250.2 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P483655

CATALOG NUMBER: IFLD-S-SA3A-750-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 |
| 2.5° | 1137.5 | 1130.0 | 1118.0 | 1113.6 | 1101.6 | 1095.6 | 1086.6 | 1082.2 | 1065.7 | 1049.3 | 1038.8 |
| 5° | 1276.5 | 1258.5 | 1264.5 | 1246.6 | 1207.7 | 1176.3 | 1174.8 | 1140.5 | 1103.1 | 1073.2 | 1032.8 |
| 7.5° | 1417.0 | 1402.0 | 1379.6 | 1354.2 | 1310.9 | 1264.5 | 1251.1 | 1218.2 | 1165.9 | 1113.6 | 1059.7 |
| 10° | 1523.1 | 1512.6 | 1493.2 | 1457.3 | 1397.5 | 1345.2 | 1346.7 | 1291.4 | 1236.1 | 1176.3 | 1103.1 |
| 12.5° | 1588.9 | 1593.4 | 1565.0 | 1529.1 | 1476.8 | 1411.0 | 1409.5 | 1372.1 | 1309.4 | 1246.6 | 1159.9 |
| 15° | 1654.6 | 1671.1 | 1627.7 | 1585.9 | 1518.6 | 1470.8 | 1479.8 | 1434.9 | 1373.6 | 1301.9 | 1206.2 |
| 17.5° | 1665.1 | 1669.6 | 1660.6 | 1599.3 | 1550.0 | 1509.6 | 1511.1 | 1481.2 | 1434.9 | 1357.2 | 1275.0 |
| 20° | 1647.2 | 1644.2 | 1633.7 | 1588.9 | 1556.0 | 1532.1 | 1533.6 | 1526.1 | 1500.7 | 1437.9 | 1325.8 |
| 22.5° | 1594.8 | 1594.8 | 1581.4 | 1551.5 | 1536.6 | 1559.0 | 1541.0 | 1569.4 | 1542.5 | 1505.2 | 1412.5 |
| 25° | 1553.0 | 1569.4 | 1562.0 | 1542.5 | 1548.5 | 1578.4 | 1587.4 | 1614.3 | 1609.8 | 1563.5 | 1472.3 |
| 27.5° | 1597.8 | 1578.4 | 1582.9 | 1560.5 | 1582.9 | 1627.7 | 1632.2 | 1651.6 | 1650.1 | 1612.8 | 1526.1 |
| 30° | 1627.7 | 1645.7 | 1611.3 | 1562.0 | 1585.9 | 1662.1 | 1659.1 | 1684.5 | 1696.5 | 1651.6 | 1576.9 |
| 32.5° | 1723.4 | 1708.4 | 1680.0 | 1614.3 | 1617.3 | 1660.6 | 1674.1 | 1706.9 | 1714.4 | 1687.5 | 1626.2 |
| 35° | 1919.2 | 1896.8 | 1772.7 | 1674.1 | 1659.1 | 1680.0 | 1689.0 | 1753.3 | 1766.7 | 1736.8 | 1678.5 |
| 37.5° | 2221.1 | 2170.3 | 2020.8 | 1802.6 | 1735.3 | 1730.9 | 1730.9 | 1816.1 | 1866.9 | 1798.1 | 1756.3 |
| 40° | 2653.1 | 2581.3 | 2419.9 | 2040.3 | 1835.5 | 1853.4 | 1871.4 | 1917.7 | 1911.7 | 1866.9 | 1857.9 |
| 42.5° | 3203.1 | 3147.8 | 2973.0 | 2439.4 | 2026.8 | 1937.1 | 1922.2 | 1985.0 | 2079.1 | 2061.2 | 2055.2 |
| 45° | 3662.0 | 3665.0 | 3552.9 | 2986.4 | 2357.1 | 2129.9 | 2140.4 | 2188.2 | 2346.7 | 2333.2 | 2331.7 |
| 47.5° | 3996.8 | 3955.0 | 3938.5 | 3514.0 | 2838.4 | 2496.1 | 2481.2 | 2514.1 | 2720.4 | 2805.6 | 2844.4 |
| 50° | 4301.7 | 4273.3 | 4234.5 | 4026.7 | 3416.9 | 2955.0 | 2940.1 | 2943.1 | 3258.4 | 3378.0 | 3473.7 |
| 52.5° | 4679.9 | 4715.8 | 4587.2 | 4460.2 | 4165.7 | 3551.4 | 3535.0 | 3476.7 | 3868.3 | 4032.7 | 4146.3 |
| 55° | 5146.3 | 5079.0 | 4934.0 | 4999.8 | 4881.7 | 4195.6 | 4165.7 | 4097.0 | 4563.3 | 4632.1 | 4751.7 |
| 57.5° | 5249.4 | 5198.6 | 5348.0 | 5581.2 | 5694.8 | 4951.9 | 4940.0 | 4815.9 | 5147.7 | 5085.0 | 5422.8 |
| 60° | 5506.5 | 5519.9 | 5727.7 | 6191.0 | 6388.3 | 5824.8 | 5766.6 | 5548.3 | 5714.2 | 5726.2 | 6086.4 |
| 62.5° | 5771.0 | 5739.6 | 6204.5 | 6649.9 | 6953.3 | 6651.4 | 6632.0 | 6198.5 | 6386.9 | 6234.4 | 6711.2 |
| 65° | 5576.7 | 5624.6 | 6289.7 | 7035.6 | 7685.7 | 7460.0 | 7443.6 | 6824.8 | 6927.9 | 6738.1 | 6965.3 |
| 67.5° | 4886.2 | 4789.0 | 5720.2 | 6859.2 | 8062.4 | 8307.5 | 8289.6 | 7507.9 | 7232.9 | 6735.1 | 6437.7 |
| 70° | 3581.3 | 3497.6 | 4256.9 | 5808.4 | 7522.8 | 8741.0 | 8812.8 | 7983.2 | 7108.8 | 6107.3 | 4966.9 |
| 72.5° | 1754.8 | 1756.3 | 2385.5 | 3938.5 | 5951.9 | 7966.8 | 8002.6 | 7319.5 | 6107.3 | 4502.0 | 2813.0 |
| 75° | 518.7 | 524.6 | 883.4 | 1931.2 | 3847.4 | 6050.5 | 6090.9 | 5555.8 | 4233.0 | 2325.8 | 959.6 |
| 77.5° | 189.8 | 189.8 | 293.0 | 724.9 | 1919.2 | 3819.0 | 3816.0 | 3410.9 | 2143.4 | 787.7 | 224.2 |
| 80° | 98.7 | 103.1 | 152.5 | 296.0 | 831.1 | 1989.4 | 2064.2 | 1669.6 | 814.6 | 331.8 | 65.8 |
| 82.5° | 40.4 | 44.8 | 83.7 | 152.5 | 399.1 | 698.0 | 763.8 | 654.7 | 354.2 | 231.7 | 29.9 |
| 85° | 12.0 | 13.5 | 40.4 | 85.2 | 156.9 | 174.9 | 194.3 | 219.7 | 222.7 | 179.4 | 13.5 |
| 87.5° | 1.5 | 1.5 | 16.4 | 28.4 | 34.4 | 37.4 | 43.3 | 43.3 | 113.6 | 125.6 | 7.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P483655

CATALOG NUMBER: IFLD-S-SA3A-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 | 1019.4 |
| 2.5° | 1026.9 | 1019.4 | 1007.4 | 980.5 | 974.5 | 955.1 | 953.6 | 935.7 | 941.7 | 929.7 | 925.2 |
| 5° | 1019.4 | 1002.9 | 970.1 | 949.1 | 928.2 | 914.8 | 905.8 | 898.3 | 896.8 | 890.8 | 887.9 |
| 7.5° | 1032.8 | 1010.4 | 959.6 | 926.7 | 890.8 | 878.9 | 859.5 | 858.0 | 847.5 | 837.0 | 837.0 |
| 10° | 1077.7 | 1037.3 | 982.0 | 926.7 | 880.4 | 841.5 | 796.7 | 763.8 | 751.8 | 724.9 | 727.9 |
| 12.5° | 1113.6 | 1077.7 | 997.0 | 940.2 | 869.9 | 781.7 | 683.1 | 606.8 | 571.0 | 536.6 | 550.0 |
| 15° | 1164.4 | 1112.1 | 1025.4 | 943.2 | 829.6 | 677.1 | 515.7 | 430.5 | 397.6 | 390.1 | 388.6 |
| 17.5° | 1219.7 | 1164.4 | 1061.2 | 935.7 | 747.4 | 523.1 | 379.7 | 330.3 | 336.3 | 345.3 | 343.8 |
| 20° | 1281.0 | 1213.7 | 1088.1 | 910.3 | 617.3 | 379.7 | 310.9 | 309.4 | 318.4 | 331.8 | 334.8 |
| 22.5° | 1345.2 | 1286.9 | 1121.0 | 834.0 | 460.4 | 304.9 | 298.9 | 298.9 | 304.9 | 321.4 | 318.4 |
| 25° | 1417.0 | 1339.3 | 1137.5 | 716.0 | 330.3 | 281.0 | 284.0 | 290.0 | 293.0 | 306.4 | 307.9 |
| 27.5° | 1472.3 | 1397.5 | 1142.0 | 574.0 | 269.0 | 260.1 | 267.6 | 275.0 | 279.5 | 290.0 | 294.5 |
| 30° | 1523.1 | 1470.8 | 1118.0 | 427.5 | 246.6 | 242.1 | 245.1 | 255.6 | 264.6 | 273.5 | 273.5 |
| 32.5° | 1587.4 | 1512.6 | 1062.7 | 303.4 | 233.2 | 225.7 | 224.2 | 228.7 | 239.2 | 249.6 | 249.6 |
| 35° | 1653.1 | 1582.9 | 974.5 | 243.6 | 221.2 | 210.8 | 204.8 | 200.3 | 204.8 | 212.2 | 218.2 |
| 37.5° | 1748.8 | 1689.0 | 863.9 | 224.2 | 212.2 | 197.3 | 185.3 | 174.9 | 167.4 | 165.9 | 170.4 |
| 40° | 1884.8 | 1808.6 | 721.9 | 210.8 | 201.8 | 183.8 | 165.9 | 148.0 | 131.5 | 121.1 | 122.6 |
| 42.5° | 2091.1 | 1985.0 | 568.0 | 203.3 | 194.3 | 168.9 | 143.5 | 118.1 | 97.2 | 86.7 | 86.7 |
| 45° | 2385.5 | 2218.1 | 417.0 | 195.8 | 185.3 | 151.0 | 118.1 | 88.2 | 67.3 | 61.3 | 62.8 |
| 47.5° | 2829.5 | 2499.1 | 298.9 | 183.8 | 173.4 | 131.5 | 92.7 | 62.8 | 49.3 | 46.3 | 47.8 |
| 50° | 3409.4 | 2832.5 | 233.2 | 170.4 | 158.4 | 110.6 | 68.8 | 46.3 | 38.9 | 37.4 | 38.9 |
| 52.5° | 4017.8 | 3168.8 | 204.8 | 158.4 | 136.0 | 88.2 | 50.8 | 37.4 | 32.9 | 31.4 | 32.9 |
| 55° | 4537.9 | 3385.5 | 177.9 | 140.5 | 109.1 | 65.8 | 40.4 | 32.9 | 28.4 | 23.9 | 23.9 |
| 57.5° | 5064.0 | 3494.6 | 140.5 | 116.6 | 80.7 | 49.3 | 34.4 | 28.4 | 23.9 | 19.4 | 17.9 |
| 60° | 5491.5 | 3572.3 | 100.1 | 86.7 | 56.8 | 38.9 | 29.9 | 25.4 | 19.4 | 14.9 | 13.5 |
| 62.5° | 5772.5 | 3349.6 | 73.2 | 65.8 | 41.9 | 32.9 | 25.4 | 20.9 | 14.9 | 10.5 | 10.5 |
| 65° | 5633.5 | 3041.7 | 56.8 | 46.3 | 31.4 | 25.4 | 20.9 | 14.9 | 10.5 | 6.0 | 4.5 |
| 67.5° | 5055.1 | 2478.2 | 46.3 | 34.4 | 23.9 | 19.4 | 16.4 | 12.0 | 6.0 | 1.5 | 1.5 |
| 70° | 3771.1 | 1816.1 | 37.4 | 25.4 | 19.4 | 14.9 | 12.0 | 7.5 | 3.0 | 1.5 | 0.0 |
| 72.5° | 2062.7 | 994.0 | 29.9 | 20.9 | 14.9 | 12.0 | 9.0 | 6.0 | 3.0 | 0.0 | 0.0 |
| 75° | 681.6 | 264.6 | 22.4 | 14.9 | 9.0 | 7.5 | 6.0 | 4.5 | 1.5 | 0.0 | 0.0 |
| 77.5° | 164.4 | 68.8 | 17.9 | 13.5 | 7.5 | 4.5 | 3.0 | 1.5 | 1.5 | 0.0 | 0.0 |
| 80° | 50.8 | 28.4 | 13.5 | 9.0 | 6.0 | 4.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 20.9 | 13.5 | 6.0 | 6.0 | 4.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.5 | 7.5 | 4.5 | 3.0 | 3.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.5 | 3.0 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)