

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: P484820

Luminaire Tested: **IFLD-S-SA2A-750-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484820  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-750-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

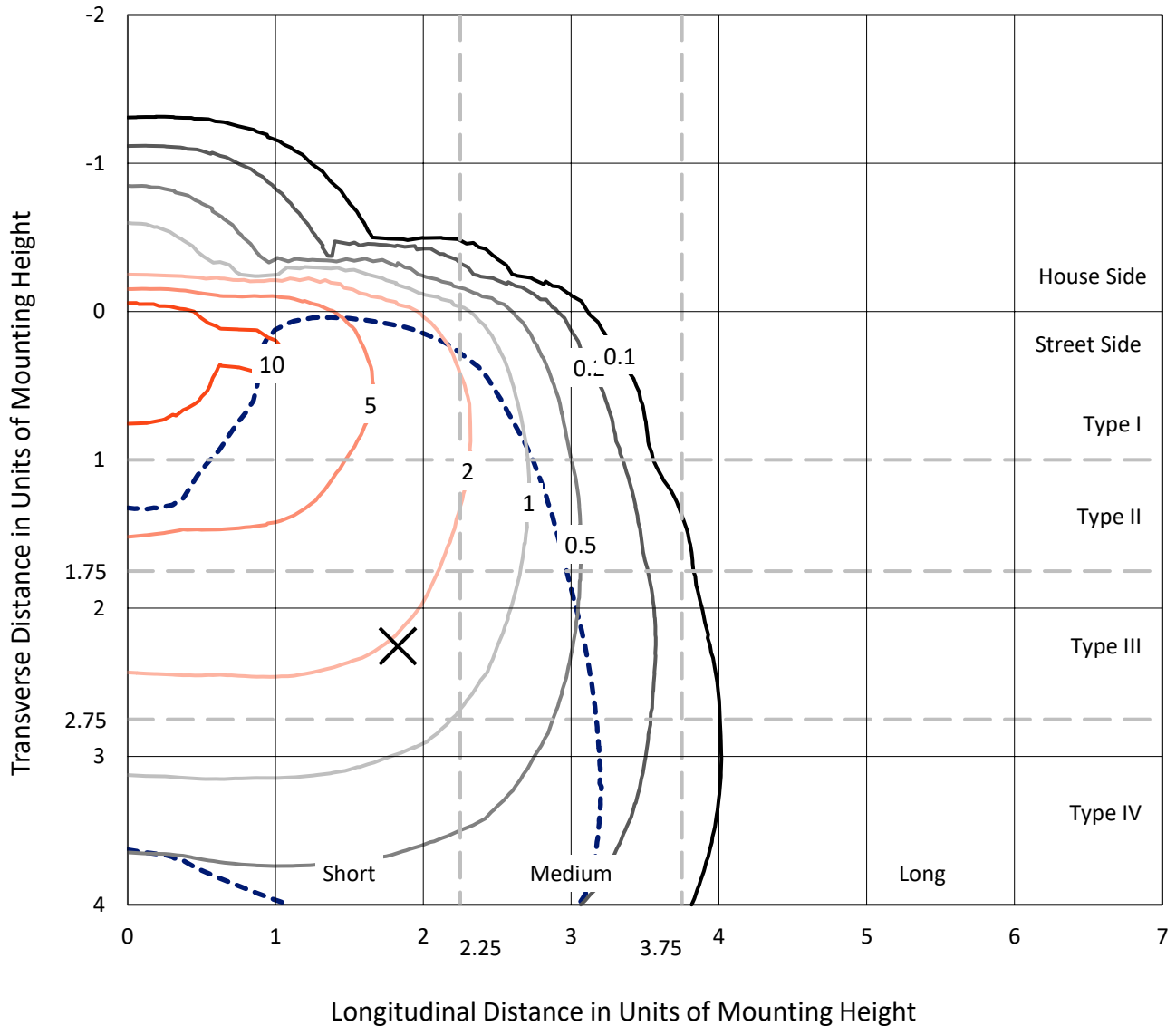
Lumens per Lamp: N/A  
Luminaire Lumens: 7801.6 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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: P484820  
 CATALOG NUMBER: IFLD-S-SA2A-750-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

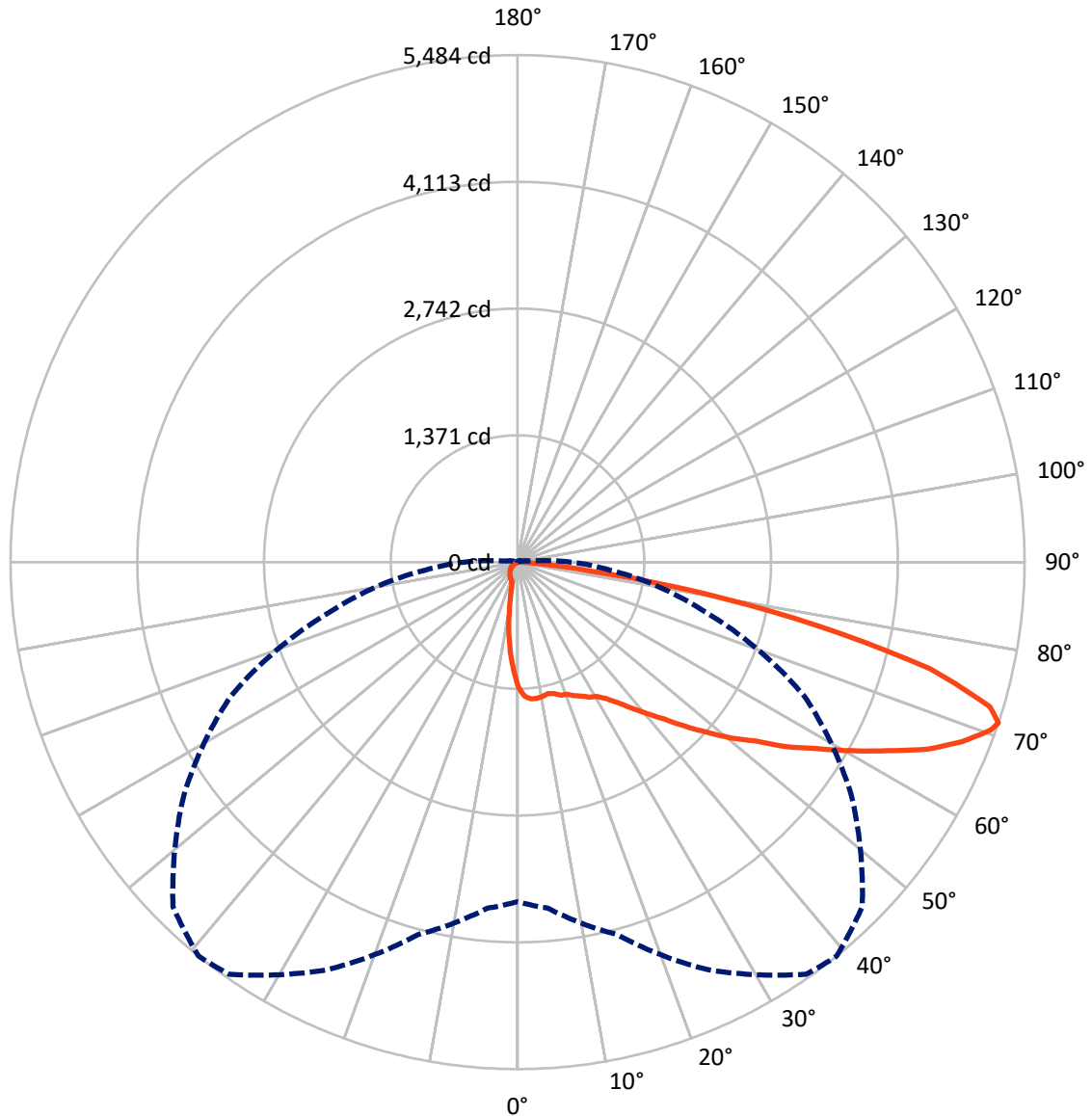
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484820  
CATALOG NUMBER: IFLD-S-SA2A-750-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484820  
 CATALOG NUMBER: IFLD-S-SA2A-750-U-SL4-HSS

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 587.3    | 0.0    | 587.3  |
|                    | % Fixture | 7.5      | 0.0    | 7.5    |
| <b>Street Side</b> | Lumens    | 7214.2   | 0.0    | 7214.2 |
|                    | % Fixture | 92.5     | 0.0    | 92.5   |
| <b>Total</b>       | Lumens    | 7801.6   | 0.0    | 7801.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.5  | 1.5       |
| 10°-20°   | 279.4  | 3.6       |
| 20°-30°   | 448.6  | 5.7       |
| 30°-40°   | 686.7  | 8.8       |
| 40°-50°   | 1102.3 | 14.1      |
| 50°-60°   | 1619.0 | 20.8      |
| 60°-70°   | 2039.1 | 26.1      |
| 70°-80°   | 1360.8 | 17.4      |
| 80°-90°   | 152.1  | 1.9       |
| 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°    | 7801.6 | 100.0     |
| 0°-180°   | 7801.6 | 100.0     |



REPORT NUMBER: P484820

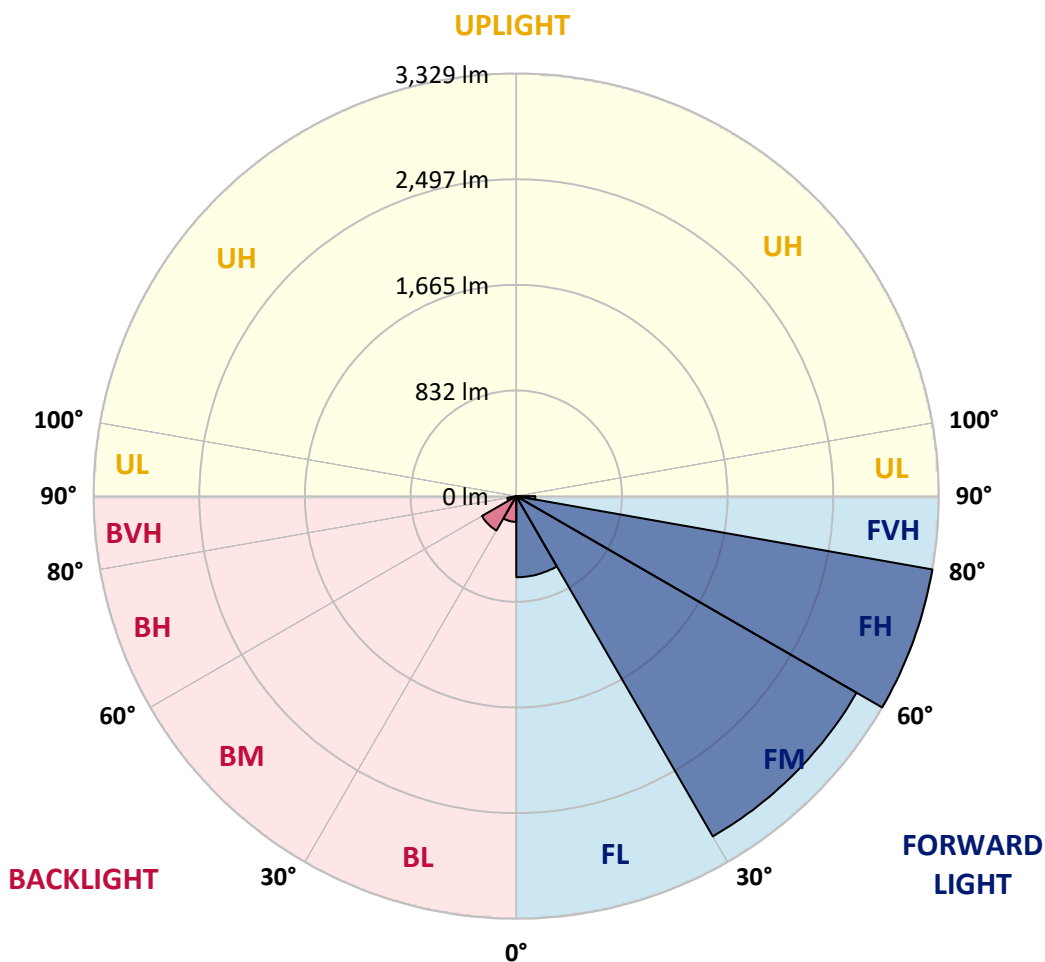
CATALOG NUMBER: IFLD-S-SA2A-750-U-SL4-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 638.8  | 8.2       |                         |      |         |
| FM (30°-60°)   | 3095.8 | 39.7      |                         |      |         |
| FH (60°-80°)   | 3329.3 | 42.7      |                         |      | G2/5000 |
| FVH (80°-90°)  | 150.4  | 1.9       |                         |      | G2/225  |
| BL (0°-30°)    | 202.8  | 2.6       | B1/500                  |      |         |
| BM (30°-60°)   | 312.2  | 4.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 70.7   | 0.9       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 1.7    | 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: P484820

CATALOG NUMBER: IFLD-S-SA2A-750-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 |
| 2.5°  | 1463.3 | 1477.6 | 1463.3 | 1457.2 | 1451.0 | 1452.1 | 1435.7 | 1438.8 | 1419.3 | 1393.7 | 1373.3 |
| 5°    | 1509.4 | 1528.8 | 1513.5 | 1506.3 | 1505.3 | 1485.8 | 1477.6 | 1458.2 | 1434.7 | 1394.7 | 1370.2 |
| 7.5°  | 1505.3 | 1501.2 | 1508.3 | 1502.2 | 1488.9 | 1488.9 | 1479.7 | 1452.1 | 1428.5 | 1383.5 | 1341.5 |
| 10°   | 1474.6 | 1486.8 | 1480.7 | 1473.5 | 1476.6 | 1477.6 | 1460.2 | 1440.8 | 1433.6 | 1388.6 | 1320.0 |
| 12.5° | 1471.5 | 1451.0 | 1473.5 | 1474.6 | 1461.3 | 1460.2 | 1458.2 | 1453.1 | 1430.6 | 1389.6 | 1325.2 |
| 15°   | 1461.3 | 1453.1 | 1475.6 | 1476.6 | 1479.7 | 1476.6 | 1479.7 | 1475.6 | 1453.1 | 1429.5 | 1347.7 |
| 17.5° | 1469.4 | 1460.2 | 1492.0 | 1507.3 | 1500.1 | 1514.5 | 1509.4 | 1490.9 | 1471.5 | 1443.9 | 1369.2 |
| 20°   | 1471.5 | 1484.8 | 1519.6 | 1525.7 | 1548.2 | 1524.7 | 1523.7 | 1504.2 | 1492.0 | 1462.3 | 1382.5 |
| 22.5° | 1509.4 | 1515.5 | 1558.5 | 1571.8 | 1572.8 | 1569.7 | 1544.1 | 1521.6 | 1516.5 | 1479.7 | 1385.5 |
| 25°   | 1566.7 | 1588.2 | 1607.6 | 1615.8 | 1618.8 | 1604.5 | 1577.9 | 1549.3 | 1537.0 | 1513.5 | 1417.3 |
| 27.5° | 1668.0 | 1654.7 | 1672.1 | 1684.3 | 1649.5 | 1654.7 | 1620.9 | 1596.3 | 1578.9 | 1558.5 | 1454.1 |
| 30°   | 1758.0 | 1745.7 | 1746.8 | 1744.7 | 1715.0 | 1687.4 | 1678.2 | 1635.2 | 1613.7 | 1621.9 | 1511.4 |
| 32.5° | 1838.9 | 1812.3 | 1834.8 | 1824.5 | 1769.3 | 1761.1 | 1753.9 | 1699.7 | 1703.8 | 1741.6 | 1597.4 |
| 35°   | 1913.6 | 1904.3 | 1922.8 | 1904.3 | 1867.5 | 1865.5 | 1858.3 | 1811.2 | 1833.7 | 1888.0 | 1744.7 |
| 37.5° | 1982.1 | 1985.2 | 2007.7 | 1998.5 | 2001.6 | 2003.6 | 1999.5 | 1949.4 | 2013.8 | 2135.6 | 1916.6 |
| 40°   | 2045.6 | 2041.5 | 2096.7 | 2125.4 | 2131.5 | 2154.0 | 2154.0 | 2141.8 | 2241.0 | 2378.1 | 2155.1 |
| 42.5° | 2113.1 | 2123.3 | 2195.0 | 2243.1 | 2301.4 | 2320.8 | 2347.4 | 2353.6 | 2507.1 | 2663.6 | 2398.6 |
| 45°   | 2223.6 | 2206.2 | 2297.3 | 2410.9 | 2462.0 | 2530.6 | 2571.5 | 2606.3 | 2791.5 | 3006.4 | 2642.1 |
| 47.5° | 2363.8 | 2329.0 | 2408.8 | 2573.6 | 2692.3 | 2748.6 | 2822.2 | 2868.3 | 3049.4 | 3271.5 | 2872.4 |
| 50°   | 2519.3 | 2483.5 | 2522.4 | 2749.6 | 2887.7 | 2990.1 | 3084.2 | 3142.5 | 3361.5 | 3568.2 | 3040.2 |
| 52.5° | 2695.4 | 2662.6 | 2668.7 | 2932.8 | 3136.4 | 3211.1 | 3334.9 | 3421.9 | 3639.9 | 3747.3 | 3099.6 |
| 55°   | 2882.6 | 2874.4 | 2855.0 | 3111.8 | 3354.4 | 3522.2 | 3596.9 | 3701.3 | 3925.4 | 3844.5 | 3164.0 |
| 57.5° | 3070.9 | 3045.3 | 3072.9 | 3349.2 | 3704.3 | 3804.6 | 3908.0 | 3970.4 | 4084.0 | 3929.4 | 3139.5 |
| 60°   | 3247.9 | 3250.0 | 3288.9 | 3607.1 | 4002.1 | 4144.3 | 4237.5 | 4199.6 | 4246.7 | 3966.3 | 3083.2 |
| 62.5° | 3397.3 | 3393.2 | 3491.5 | 3896.7 | 4396.1 | 4492.3 | 4561.8 | 4393.0 | 4322.4 | 4002.1 | 2984.9 |
| 65°   | 3531.4 | 3577.4 | 3732.0 | 4241.6 | 4766.5 | 4877.0 | 4835.1 | 4576.2 | 4396.1 | 3896.7 | 2708.7 |
| 67.5° | 3632.7 | 3701.3 | 3969.4 | 4565.9 | 5106.2 | 5184.0 | 5125.7 | 4715.3 | 4309.1 | 3483.3 | 2206.2 |
| 70°   | 3692.0 | 3761.6 | 4139.2 | 4836.1 | 5377.4 | 5433.7 | 5296.6 | 4607.9 | 3801.5 | 2522.4 | 1376.3 |
| 71°   | 3673.6 | 3758.6 | 4172.0 | 4864.7 | 5441.9 | 5483.8 | 5271.0 | 4409.4 | 3418.8 | 2112.1 | 1003.9 |
| 72.5° | 3506.8 | 3586.6 | 4035.9 | 4844.3 | 5364.1 | 5338.5 | 5071.4 | 3932.5 | 2691.3 | 1346.7 | 518.8  |
| 75°   | 2576.7 | 2662.6 | 3463.8 | 4190.4 | 4788.0 | 4612.0 | 4104.4 | 2759.8 | 1404.0 | 412.4  | 151.4  |
| 77.5° | 1283.2 | 1297.5 | 2149.9 | 3042.3 | 3511.9 | 3337.0 | 2750.6 | 1539.0 | 524.9  | 121.8  | 75.7   |
| 80°   | 591.5  | 595.6  | 806.4  | 1575.9 | 2123.3 | 1998.5 | 1541.1 | 759.3  | 237.4  | 64.5   | 59.4   |
| 82.5° | 403.2  | 409.3  | 486.1  | 652.9  | 922.0  | 777.7  | 624.2  | 486.1  | 136.1  | 38.9   | 58.3   |
| 85°   | 73.7   | 67.5   | 272.2  | 345.9  | 356.1  | 241.5  | 215.9  | 420.6  | 51.2   | 22.5   | 51.2   |
| 87.5° | 0.0    | 1.0    | 37.9   | 141.2  | 126.9  | 56.3   | 73.7   | 102.3  | 5.1    | 7.2    | 9.2    |
| 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: P484820

CATALOG NUMBER: IFLD-S-SA2A-750-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 | 1357.9 |
| 2.5°  | 1355.9 | 1344.6 | 1306.7 | 1264.8 | 1226.9 | 1197.3 | 1159.4 | 1142.0 | 1114.4 | 1099.0 | 1098.0 |
| 5°    | 1336.4 | 1305.7 | 1240.2 | 1169.6 | 1090.8 | 1025.3 | 952.7  | 911.8  | 864.7  | 850.4  | 847.3  |
| 7.5°  | 1303.7 | 1259.7 | 1163.5 | 1064.2 | 943.5  | 827.8  | 738.8  | 643.7  | 585.3  | 560.8  | 551.6  |
| 10°   | 1283.2 | 1230.0 | 1099.0 | 950.6  | 781.8  | 619.1  | 494.3  | 392.9  | 339.7  | 314.2  | 308.0  |
| 12.5° | 1283.2 | 1225.9 | 1046.8 | 842.2  | 618.1  | 423.6  | 306.0  | 247.6  | 230.2  | 224.1  | 224.1  |
| 15°   | 1280.1 | 1217.7 | 996.7  | 730.6  | 457.4  | 284.5  | 228.2  | 215.9  | 213.9  | 212.8  | 211.8  |
| 17.5° | 1295.5 | 1203.4 | 945.5  | 610.9  | 323.4  | 224.1  | 209.8  | 207.7  | 205.7  | 205.7  | 203.6  |
| 20°   | 1306.7 | 1195.2 | 884.1  | 484.0  | 241.5  | 207.7  | 201.6  | 198.5  | 197.5  | 196.5  | 198.5  |
| 22.5° | 1297.5 | 1182.9 | 808.4  | 362.2  | 210.8  | 197.5  | 193.4  | 190.3  | 188.3  | 188.3  | 189.3  |
| 25°   | 1314.9 | 1171.7 | 732.7  | 273.2  | 197.5  | 188.3  | 184.2  | 182.1  | 181.1  | 180.1  | 178.1  |
| 27.5° | 1338.5 | 1176.8 | 642.6  | 220.0  | 186.2  | 179.1  | 175.0  | 172.9  | 171.9  | 169.9  | 171.9  |
| 30°   | 1367.1 | 1175.8 | 543.4  | 192.4  | 176.0  | 168.8  | 164.8  | 163.7  | 161.7  | 160.7  | 161.7  |
| 32.5° | 1416.2 | 1202.4 | 441.0  | 178.1  | 164.8  | 158.6  | 154.5  | 153.5  | 152.5  | 151.4  | 150.4  |
| 35°   | 1521.6 | 1235.1 | 344.8  | 166.8  | 154.5  | 147.4  | 144.3  | 142.2  | 141.2  | 140.2  | 139.2  |
| 37.5° | 1651.6 | 1307.8 | 263.0  | 156.6  | 144.3  | 137.1  | 134.1  | 133.0  | 128.9  | 127.9  | 126.9  |
| 40°   | 1814.3 | 1385.5 | 202.6  | 145.3  | 135.1  | 127.9  | 124.8  | 121.8  | 116.7  | 114.6  | 112.6  |
| 42.5° | 2016.9 | 1461.3 | 166.8  | 135.1  | 124.8  | 119.7  | 114.6  | 109.5  | 105.4  | 101.3  | 99.3   |
| 45°   | 2219.5 | 1549.3 | 146.3  | 125.9  | 116.7  | 110.5  | 106.4  | 99.3   | 92.1   | 86.0   | 84.9   |
| 47.5° | 2388.4 | 1581.0 | 134.1  | 115.6  | 108.5  | 103.4  | 97.2   | 88.0   | 77.8   | 71.6   | 70.6   |
| 50°   | 2514.2 | 1562.6 | 121.8  | 105.4  | 99.3   | 94.1   | 86.0   | 74.7   | 64.5   | 58.3   | 56.3   |
| 52.5° | 2538.8 | 1481.7 | 110.5  | 97.2   | 90.0   | 83.9   | 74.7   | 62.4   | 51.2   | 45.0   | 44.0   |
| 55°   | 2521.4 | 1347.7 | 101.3  | 90.0   | 81.9   | 72.7   | 62.4   | 50.1   | 39.9   | 33.8   | 32.7   |
| 57.5° | 2485.6 | 1189.1 | 91.1   | 80.8   | 71.6   | 62.4   | 51.2   | 40.9   | 29.7   | 23.5   | 23.5   |
| 60°   | 2363.8 | 973.2  | 80.8   | 70.6   | 61.4   | 53.2   | 42.0   | 29.7   | 20.5   | 15.3   | 14.3   |
| 62.5° | 2193.9 | 748.0  | 70.6   | 60.4   | 53.2   | 44.0   | 32.7   | 21.5   | 12.3   | 8.2    | 8.2    |
| 65°   | 1883.9 | 523.9  | 59.4   | 50.1   | 44.0   | 35.8   | 24.6   | 13.3   | 7.2    | 3.1    | 3.1    |
| 67.5° | 1431.6 | 324.4  | 49.1   | 42.0   | 37.9   | 28.7   | 17.4   | 8.2    | 3.1    | 1.0    | 0.0    |
| 70°   | 821.7  | 168.8  | 38.9   | 33.8   | 29.7   | 21.5   | 12.3   | 4.1    | 2.0    | 0.0    | 0.0    |
| 71°   | 574.1  | 124.8  | 34.8   | 29.7   | 26.6   | 19.4   | 10.2   | 3.1    | 1.0    | 0.0    | 0.0    |
| 72.5° | 287.5  | 82.9   | 29.7   | 24.6   | 21.5   | 15.3   | 8.2    | 3.1    | 1.0    | 0.0    | 0.0    |
| 75°   | 102.3  | 53.2   | 20.5   | 16.4   | 15.3   | 11.3   | 5.1    | 2.0    | 1.0    | 0.0    | 0.0    |
| 77.5° | 70.6   | 43.0   | 14.3   | 10.2   | 10.2   | 7.2    | 3.1    | 1.0    | 1.0    | 0.0    | 0.0    |
| 80°   | 64.5   | 23.5   | 9.2    | 6.1    | 5.1    | 4.1    | 2.0    | 1.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 64.5   | 17.4   | 5.1    | 4.1    | 3.1    | 2.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 45.0   | 9.2    | 3.1    | 3.1    | 2.0    | 1.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 7.2    | 3.1    | 2.0    | 1.0    | 1.0    | 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)