

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: P478970

Luminaire Tested: **IFLD-S-SA2A-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478970
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-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

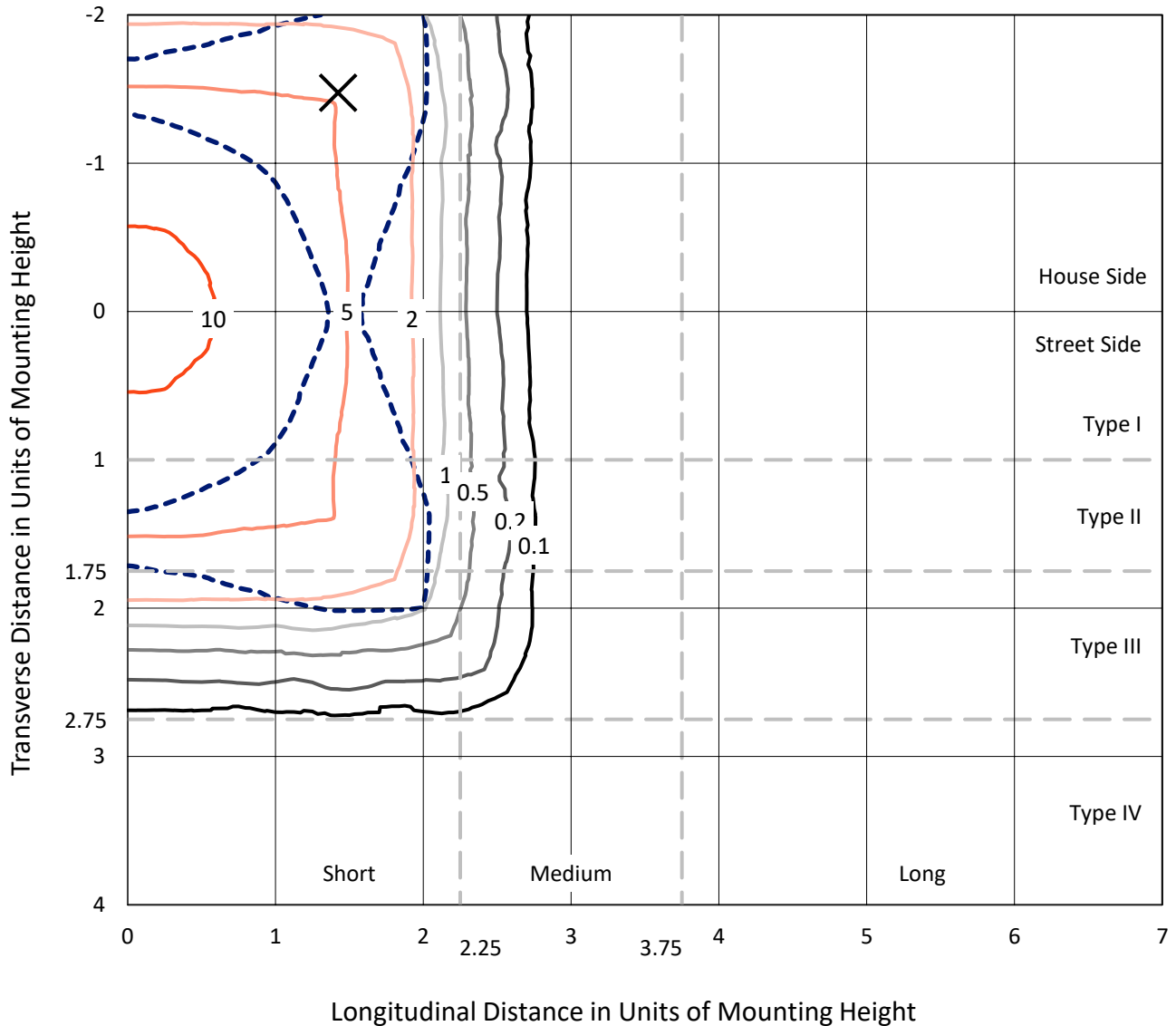
Lumens per Lamp: N/A
Luminaire Lumens: 9418.8 lumens
Efficiency: N/A
Efficacy: 147.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

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

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 CATALOG NUMBER: IFLD-S-SA2A-750-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

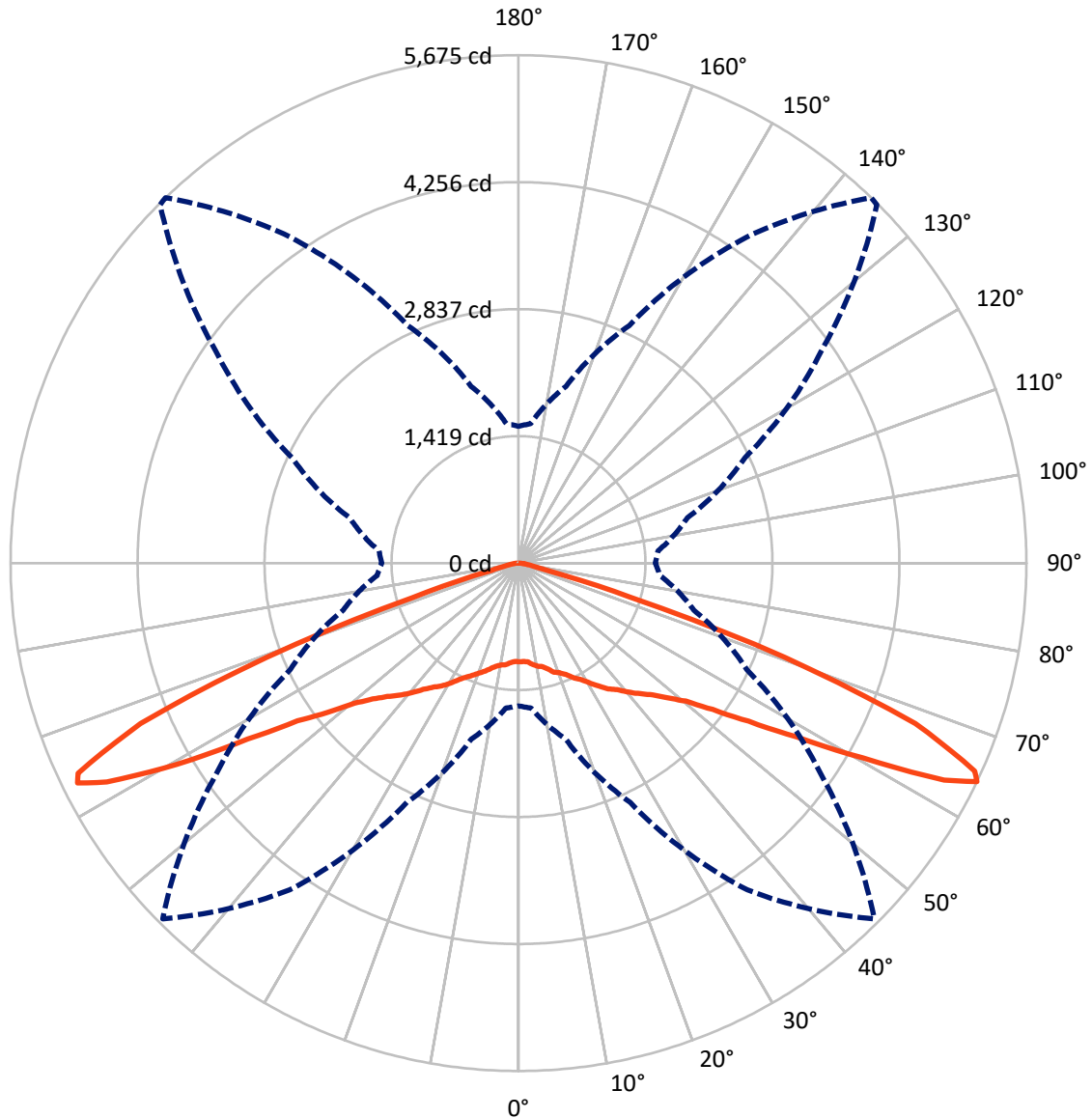
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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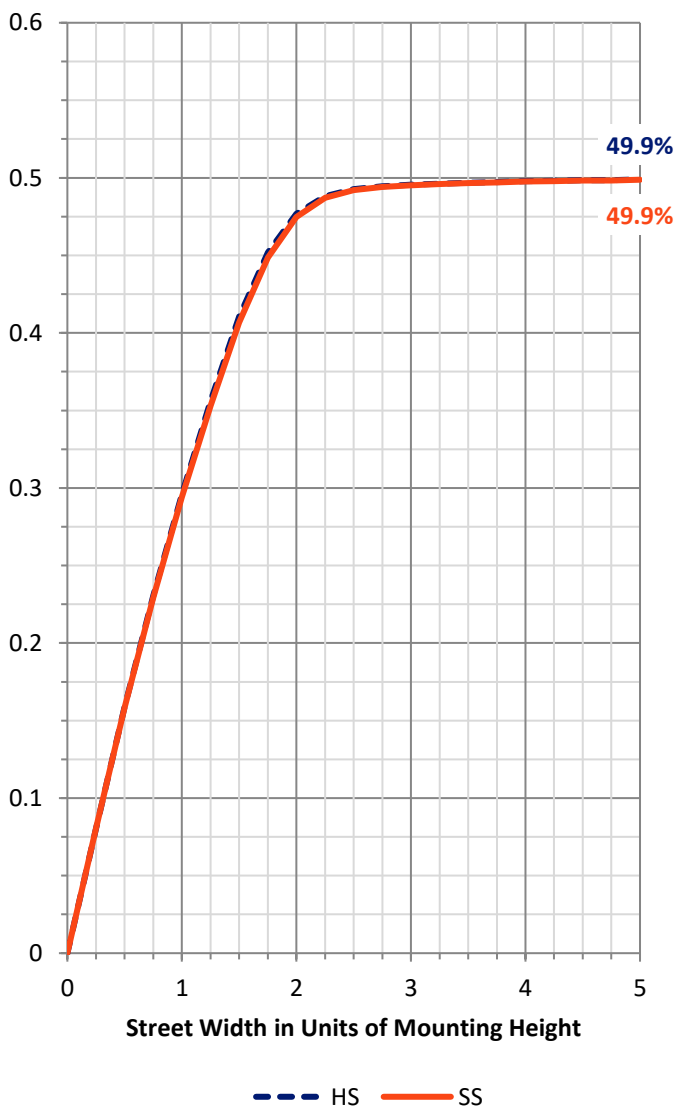
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4713.9 | 0.0 | 4713.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4704.9 | 0.0 | 4704.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9418.8 | 0.0 | 9418.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.4 | 1.2 |
| 10°-20° | 349.2 | 3.7 |
| 20°-30° | 656.3 | 7.0 |
| 30°-40° | 1082.4 | 11.5 |
| 40°-50° | 1692.8 | 18.0 |
| 50°-60° | 2735.2 | 29.0 |
| 60°-70° | 2462.8 | 26.1 |
| 70°-80° | 291.7 | 3.1 |
| 80°-90° | 39.9 | 0.4 |
| 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° | 9418.8 | 100.0 |
| 0°-180° | 9418.8 | 100.0 |

Coefficient of Utilization



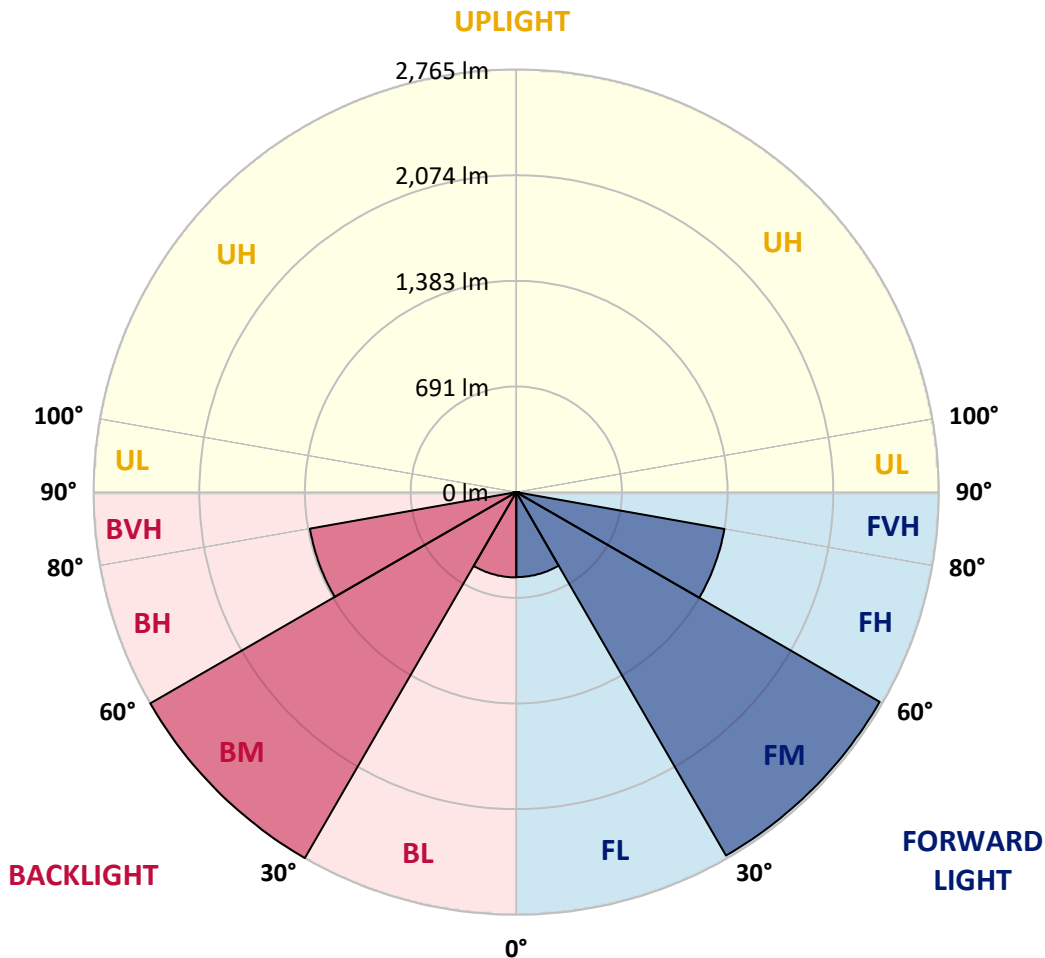
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 555.9 | 5.9 | | | |
| FM (30°-60°) | 2745.3 | 29.1 | | | |
| FH (60°-80°) | 1383.3 | 14.7 | | | G1/1800 |
| FVH (80°-90°) | 20.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 558.0 | 5.9 | B2/1000 | | |
| BM (30°-60°) | 2765.1 | 29.4 | B3/5000 | | |
| BH (60°-80°) | 1371.3 | 14.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 19.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 |
| 2.5° | 1089.8 | 1092.0 | 1111.4 | 1103.8 | 1110.3 | 1098.4 | 1107.1 | 1125.4 | 1103.8 | 1120.0 | 1125.4 |
| 5° | 1101.7 | 1104.9 | 1104.9 | 1112.5 | 1116.8 | 1114.6 | 1120.0 | 1112.5 | 1133.0 | 1124.4 | 1137.3 |
| 7.5° | 1144.9 | 1139.5 | 1130.8 | 1137.3 | 1138.4 | 1143.8 | 1149.2 | 1158.9 | 1155.7 | 1148.1 | 1161.1 |
| 10° | 1152.4 | 1148.1 | 1161.1 | 1162.2 | 1156.8 | 1152.4 | 1157.8 | 1157.8 | 1167.6 | 1169.7 | 1169.7 |
| 12.5° | 1165.4 | 1169.7 | 1168.6 | 1177.3 | 1178.4 | 1175.1 | 1183.8 | 1200.0 | 1195.6 | 1198.9 | 1191.3 |
| 15° | 1215.1 | 1209.7 | 1208.6 | 1217.2 | 1231.3 | 1210.8 | 1225.9 | 1224.8 | 1220.5 | 1227.0 | 1209.7 |
| 17.5° | 1258.3 | 1241.0 | 1248.6 | 1262.6 | 1257.2 | 1261.5 | 1281.0 | 1263.7 | 1268.0 | 1260.4 | 1255.0 |
| 20° | 1296.1 | 1282.0 | 1283.1 | 1288.5 | 1288.5 | 1301.5 | 1309.0 | 1302.6 | 1298.2 | 1297.2 | 1299.3 |
| 22.5° | 1338.2 | 1322.0 | 1323.1 | 1345.8 | 1353.3 | 1349.0 | 1343.6 | 1354.4 | 1356.6 | 1347.9 | 1357.6 |
| 25° | 1369.5 | 1386.8 | 1392.2 | 1403.0 | 1386.8 | 1398.7 | 1394.4 | 1414.9 | 1427.9 | 1410.6 | 1422.5 |
| 27.5° | 1451.6 | 1444.1 | 1458.1 | 1457.0 | 1470.0 | 1458.1 | 1465.7 | 1472.1 | 1477.5 | 1478.6 | 1473.2 |
| 30° | 1525.1 | 1528.3 | 1514.3 | 1552.1 | 1521.8 | 1541.3 | 1554.2 | 1557.5 | 1563.9 | 1563.9 | 1547.7 |
| 32.5° | 1602.8 | 1596.3 | 1619.0 | 1610.4 | 1605.0 | 1620.1 | 1606.1 | 1650.3 | 1624.4 | 1639.5 | 1621.2 |
| 35° | 1690.3 | 1690.3 | 1699.0 | 1722.7 | 1690.3 | 1680.6 | 1706.5 | 1724.9 | 1724.9 | 1697.9 | 1704.4 |
| 37.5° | 1788.6 | 1780.0 | 1790.8 | 1821.0 | 1796.2 | 1763.8 | 1811.3 | 1818.8 | 1813.4 | 1805.9 | 1792.9 |
| 40° | 1857.7 | 1855.6 | 1877.2 | 1917.1 | 1881.5 | 1875.0 | 1883.6 | 1904.2 | 1910.6 | 1918.2 | 1900.9 |
| 42.5° | 1974.4 | 1984.1 | 2046.7 | 2037.0 | 2007.9 | 1985.2 | 1983.0 | 2059.7 | 2041.3 | 2021.9 | 2012.2 |
| 45° | 2147.2 | 2138.5 | 2170.9 | 2172.0 | 2134.2 | 2084.5 | 2095.3 | 2165.5 | 2196.9 | 2153.7 | 2169.9 |
| 47.5° | 2284.3 | 2288.7 | 2311.4 | 2357.8 | 2270.3 | 2218.5 | 2258.4 | 2371.8 | 2362.1 | 2345.9 | 2361.0 |
| 50° | 2468.0 | 2487.4 | 2558.7 | 2542.5 | 2464.7 | 2401.0 | 2488.5 | 2595.4 | 2607.3 | 2547.9 | 2537.1 |
| 52.5° | 2721.8 | 2752.0 | 2790.9 | 2803.9 | 2729.3 | 2706.7 | 2712.1 | 2844.9 | 2815.7 | 2758.5 | 2721.8 |
| 55° | 2944.3 | 2958.3 | 3029.6 | 3136.5 | 3131.1 | 3022.0 | 3084.7 | 3134.4 | 3015.6 | 2897.8 | 2907.5 |
| 57.5° | 3039.3 | 3045.8 | 3244.5 | 3458.4 | 3585.8 | 3610.7 | 3539.4 | 3372.0 | 3089.0 | 2862.2 | 2848.1 |
| 60° | 2802.8 | 2864.3 | 3104.1 | 3586.9 | 4169.1 | 4456.4 | 3982.2 | 3399.0 | 2917.3 | 2641.9 | 2621.3 |
| 62.5° | 2240.1 | 2243.3 | 2599.7 | 3332.0 | 4532.0 | 5284.8 | 4151.8 | 3145.2 | 2459.3 | 2147.2 | 2065.1 |
| 64° | 1595.3 | 1625.5 | 2034.9 | 2949.7 | 4456.4 | 5621.8 | 4131.3 | 2813.6 | 2027.3 | 1584.5 | 1527.2 |
| 65° | 1144.9 | 1187.0 | 1582.3 | 2560.8 | 4279.2 | 5581.8 | 4069.7 | 2528.4 | 1639.5 | 1209.7 | 1151.4 |
| 67.5° | 421.2 | 438.5 | 621.0 | 1281.0 | 3072.8 | 4756.6 | 3225.1 | 1390.1 | 720.4 | 513.0 | 461.2 |
| 70° | 195.5 | 196.6 | 230.1 | 423.4 | 1343.6 | 3180.8 | 1539.1 | 521.7 | 271.1 | 214.9 | 199.8 |
| 72.5° | 143.6 | 146.9 | 160.9 | 195.5 | 395.3 | 1346.8 | 505.5 | 213.9 | 158.8 | 140.4 | 137.2 |
| 75° | 116.6 | 118.8 | 123.1 | 141.5 | 182.5 | 360.7 | 205.2 | 148.0 | 126.4 | 113.4 | 109.1 |
| 77.5° | 89.6 | 89.6 | 99.4 | 108.0 | 121.0 | 168.5 | 136.1 | 117.7 | 102.6 | 89.6 | 86.4 |
| 80° | 64.8 | 65.9 | 77.8 | 84.2 | 82.1 | 111.2 | 98.3 | 97.2 | 84.2 | 70.2 | 64.8 |
| 82.5° | 37.8 | 41.0 | 56.2 | 60.5 | 58.3 | 65.9 | 71.3 | 75.6 | 65.9 | 48.6 | 44.3 |
| 85° | 21.6 | 22.7 | 32.4 | 33.5 | 33.5 | 31.3 | 41.0 | 45.4 | 44.3 | 30.2 | 27.0 |
| 87.5° | 6.5 | 6.5 | 8.6 | 8.6 | 9.7 | 10.8 | 16.2 | 19.4 | 21.6 | 15.1 | 14.0 |
| 90° | 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: IFLD-S-SA2A-750-U-5NQ

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 136° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 | 1102.8 |
| 2.5° | 1120.0 | 1103.8 | 1104.9 | 1109.2 | 1095.2 | 1100.6 | 1116.8 | 1104.9 | 1101.7 | 1095.2 | 1092.0 |
| 5° | 1114.6 | 1131.9 | 1125.4 | 1127.6 | 1124.4 | 1109.2 | 1107.1 | 1116.8 | 1122.2 | 1112.5 | 1131.9 |
| 7.5° | 1152.4 | 1144.9 | 1136.2 | 1139.5 | 1131.9 | 1144.9 | 1153.5 | 1134.1 | 1143.8 | 1138.4 | 1127.6 |
| 10° | 1174.0 | 1160.0 | 1166.5 | 1164.3 | 1158.9 | 1171.9 | 1163.2 | 1161.1 | 1152.4 | 1140.6 | 1157.8 |
| 12.5° | 1181.6 | 1197.8 | 1208.6 | 1190.2 | 1193.5 | 1187.0 | 1181.6 | 1181.6 | 1171.9 | 1168.6 | 1171.9 |
| 15° | 1215.1 | 1229.1 | 1224.8 | 1238.8 | 1220.5 | 1227.0 | 1233.4 | 1217.2 | 1225.9 | 1202.1 | 1220.5 |
| 17.5° | 1276.6 | 1264.8 | 1279.9 | 1261.5 | 1268.0 | 1281.0 | 1260.4 | 1260.4 | 1266.9 | 1254.0 | 1237.8 |
| 20° | 1315.5 | 1310.1 | 1304.7 | 1305.8 | 1295.0 | 1306.9 | 1300.4 | 1297.2 | 1287.4 | 1291.8 | 1300.4 |
| 22.5° | 1352.2 | 1344.7 | 1346.8 | 1350.1 | 1357.6 | 1352.2 | 1349.0 | 1352.2 | 1328.5 | 1350.1 | 1319.8 |
| 25° | 1397.6 | 1418.1 | 1411.7 | 1425.7 | 1404.1 | 1418.1 | 1417.1 | 1396.5 | 1409.5 | 1400.9 | 1394.4 |
| 27.5° | 1473.2 | 1462.4 | 1472.1 | 1454.9 | 1470.0 | 1471.1 | 1458.1 | 1492.7 | 1477.5 | 1475.4 | 1471.1 |
| 30° | 1570.4 | 1562.9 | 1556.4 | 1546.7 | 1558.5 | 1548.8 | 1559.6 | 1562.9 | 1548.8 | 1538.0 | 1517.5 |
| 32.5° | 1625.5 | 1646.0 | 1653.6 | 1629.8 | 1630.9 | 1636.3 | 1626.6 | 1616.9 | 1625.5 | 1628.7 | 1625.5 |
| 35° | 1703.3 | 1722.7 | 1727.0 | 1708.7 | 1699.0 | 1726.0 | 1706.5 | 1738.9 | 1710.8 | 1711.9 | 1682.7 |
| 37.5° | 1794.0 | 1799.4 | 1836.1 | 1815.6 | 1807.0 | 1794.0 | 1829.6 | 1825.3 | 1831.8 | 1780.0 | 1805.9 |
| 40° | 1896.6 | 1916.0 | 1936.6 | 1884.7 | 1883.6 | 1895.5 | 1893.4 | 1918.2 | 1906.3 | 1898.8 | 1880.4 |
| 42.5° | 2008.9 | 2050.0 | 2053.2 | 2018.7 | 1997.0 | 1994.9 | 2005.7 | 2060.8 | 2061.9 | 2012.2 | 1990.6 |
| 45° | 2158.0 | 2203.3 | 2191.5 | 2124.5 | 2100.7 | 2097.5 | 2150.4 | 2174.2 | 2194.7 | 2175.3 | 2156.9 |
| 47.5° | 2343.8 | 2374.0 | 2365.4 | 2303.8 | 2227.1 | 2248.7 | 2300.5 | 2375.1 | 2353.5 | 2327.6 | 2305.9 |
| 50° | 2542.5 | 2578.1 | 2559.8 | 2498.2 | 2424.8 | 2424.8 | 2488.5 | 2583.5 | 2577.0 | 2526.3 | 2506.8 |
| 52.5° | 2762.8 | 2814.7 | 2856.8 | 2769.3 | 2707.7 | 2717.5 | 2817.9 | 2852.5 | 2836.3 | 2800.6 | 2784.4 |
| 55° | 2927.0 | 3026.4 | 3112.8 | 3117.1 | 3120.3 | 3119.2 | 3145.2 | 3179.7 | 3064.2 | 3006.9 | 2948.6 |
| 57.5° | 2887.0 | 3075.0 | 3370.9 | 3571.8 | 3631.2 | 3662.5 | 3653.9 | 3494.0 | 3220.8 | 3032.8 | 3052.3 |
| 60° | 2601.9 | 2908.6 | 3386.0 | 4030.8 | 4462.8 | 4419.6 | 4262.0 | 3630.1 | 3134.4 | 2816.8 | 2776.9 |
| 62.5° | 2075.9 | 2445.3 | 3132.2 | 4160.4 | 5350.7 | 5337.7 | 4512.5 | 3315.8 | 2611.6 | 2209.8 | 2185.0 |
| 64° | 1563.9 | 1952.8 | 2794.1 | 4126.9 | 5661.7 | 5674.7 | 4448.8 | 2929.2 | 2043.5 | 1563.9 | 1526.1 |
| 65° | 1196.7 | 1557.5 | 2462.6 | 4057.8 | 5594.8 | 5602.3 | 4271.7 | 2529.5 | 1553.1 | 1110.3 | 1069.3 |
| 67.5° | 476.3 | 663.2 | 1336.0 | 3077.1 | 4804.2 | 4783.6 | 3048.0 | 1223.7 | 594.0 | 386.7 | 379.1 |
| 70° | 203.1 | 252.7 | 468.8 | 1458.1 | 3216.4 | 3157.0 | 1312.3 | 397.5 | 220.3 | 184.7 | 183.6 |
| 72.5° | 139.3 | 154.5 | 200.9 | 450.4 | 1337.1 | 1305.8 | 373.7 | 184.7 | 150.1 | 138.2 | 138.2 |
| 75° | 112.3 | 123.1 | 145.8 | 189.0 | 354.3 | 341.3 | 176.1 | 136.1 | 119.9 | 111.2 | 110.2 |
| 77.5° | 87.5 | 98.3 | 114.5 | 130.7 | 162.0 | 160.9 | 117.7 | 102.6 | 92.9 | 86.4 | 84.2 |
| 80° | 69.1 | 79.9 | 90.7 | 92.9 | 105.8 | 103.7 | 79.9 | 81.0 | 75.6 | 62.6 | 61.6 |
| 82.5° | 47.5 | 64.8 | 72.4 | 65.9 | 62.6 | 62.6 | 57.2 | 57.2 | 52.9 | 38.9 | 35.6 |
| 85° | 29.2 | 43.2 | 45.4 | 38.9 | 29.2 | 29.2 | 31.3 | 30.2 | 28.1 | 20.5 | 19.4 |
| 87.5° | 15.1 | 20.5 | 18.4 | 15.1 | 9.7 | 9.7 | 8.6 | 6.5 | 6.5 | 5.4 | 5.4 |
| 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)