

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: P481628

Luminaire Tested: **IFLD-S-SA3B-735-U-T2-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P481628  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-735-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

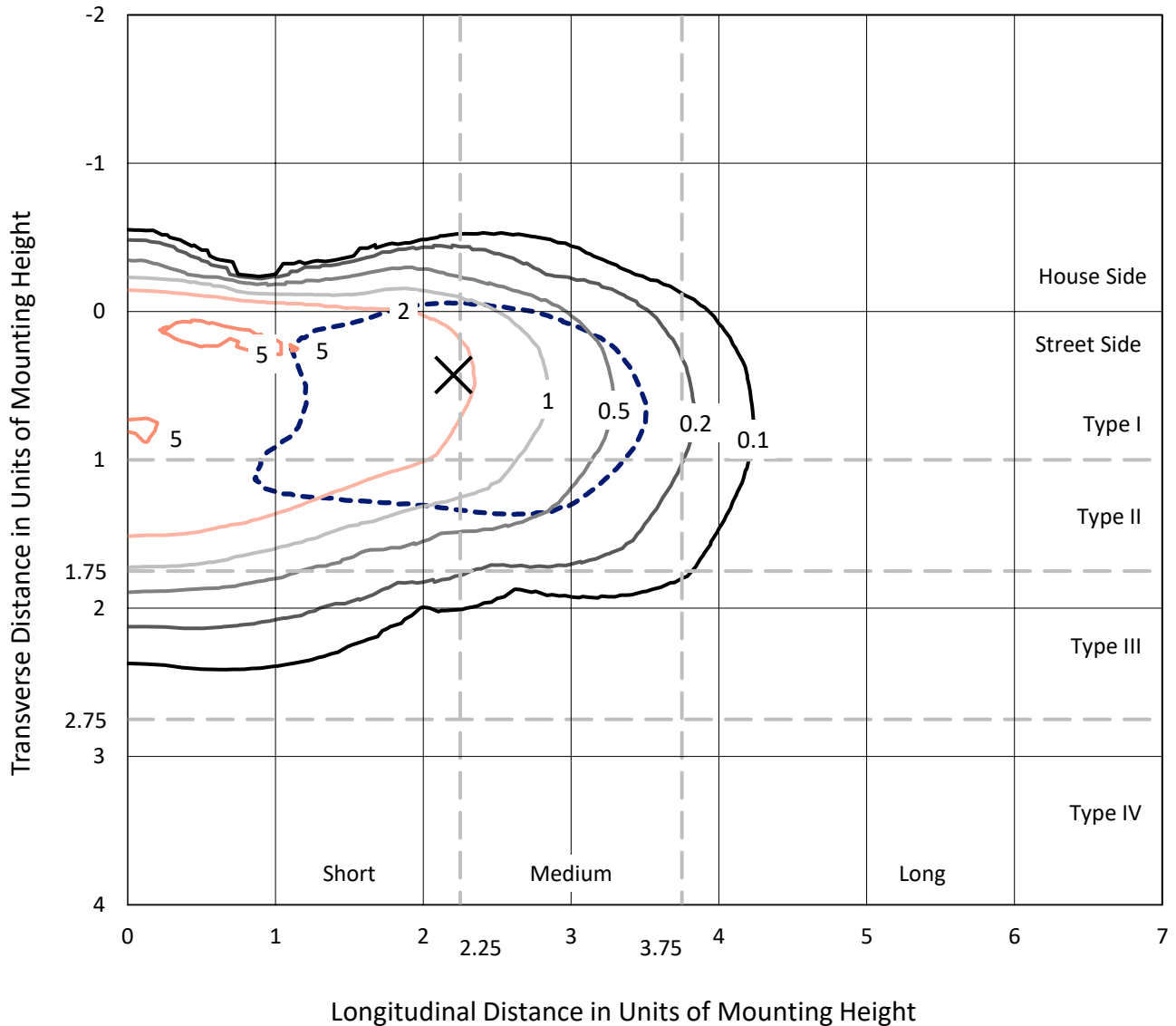
Lumens per Lamp: N/A  
Luminaire Lumens: 12085.9 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4  
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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### Iso-Footcandle Lines of Horizontal Illumination

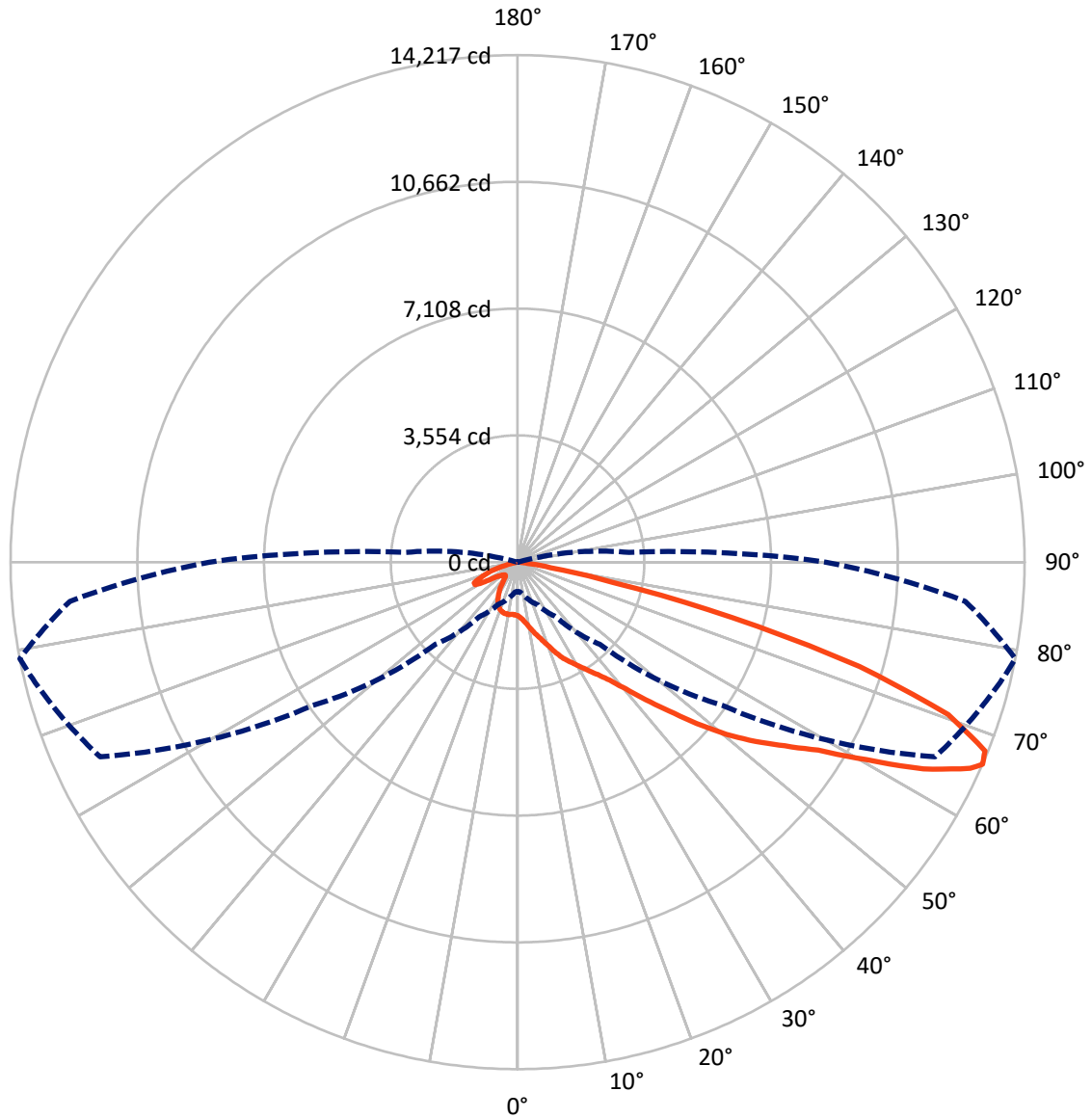
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 907.5    | 0.0    | 907.5   |
|                    | % Fixture | 7.5      | 0.0    | 7.5     |
| <b>Street Side</b> | Lumens    | 11178.4  | 0.0    | 11178.4 |
|                    | % Fixture | 92.5     | 0.0    | 92.5    |
| <b>Total</b>       | Lumens    | 12085.9  | 0.0    | 12085.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 142.2   | 1.2       |
| 10°-20°   | 391.4   | 3.2       |
| 20°-30°   | 650.1   | 5.4       |
| 30°-40°   | 1116.7  | 9.2       |
| 40°-50°   | 2023.1  | 16.7      |
| 50°-60°   | 3197.9  | 26.5      |
| 60°-70°   | 3254.1  | 26.9      |
| 70°-80°   | 1240.9  | 10.3      |
| 80°-90°   | 69.6    | 0.6       |
| 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°    | 12085.9 | 100.0     |
| 0°-180°   | 12085.9 | 100.0     |

**Coefficient of Utilization**

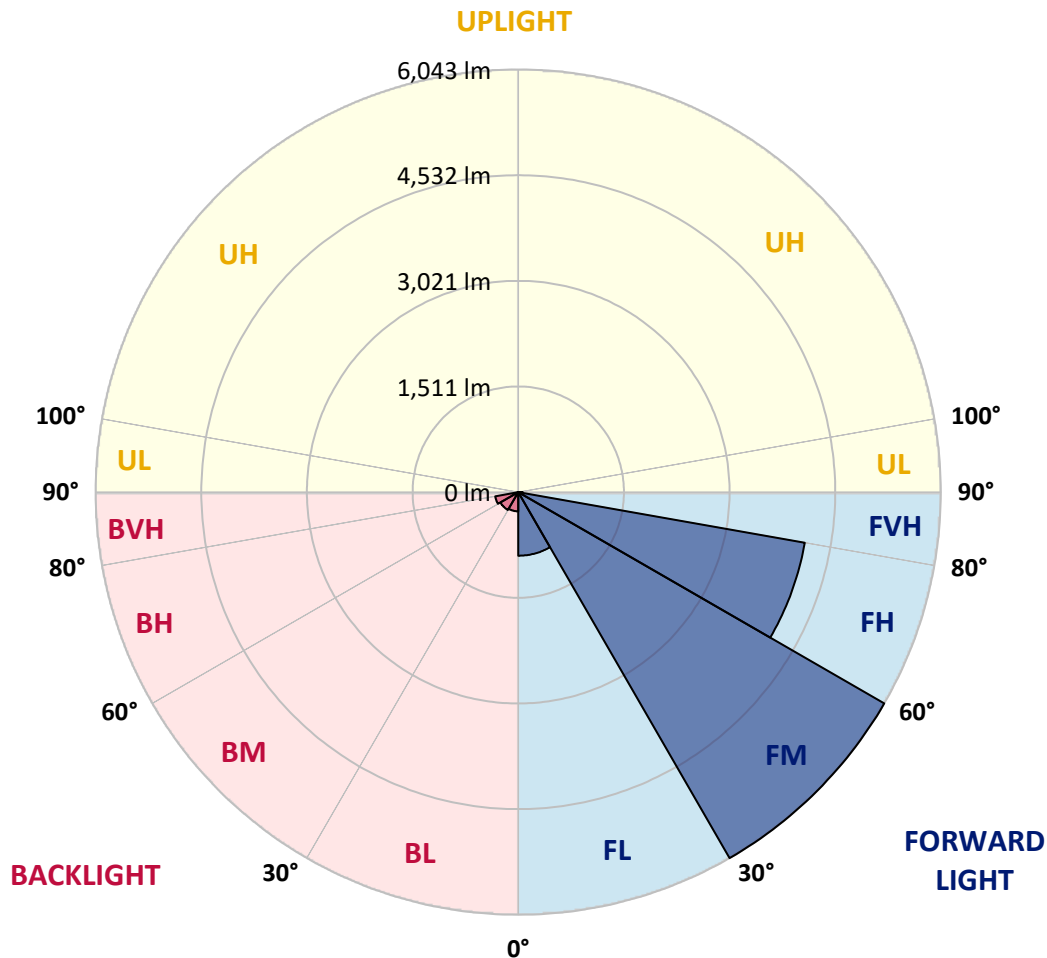


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 909.3  | 7.5       |                         |      |         |
| FM (30°-60°)   | 6042.7 | 50.0      |                         |      |         |
| FH (60°-80°)   | 4160.5 | 34.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 66.0   | 0.5       |                         |      | G1/100  |
| BL (0°-30°)    | 274.4  | 2.3       | B1/500                  |      |         |
| BM (30°-60°)   | 294.9  | 2.4       | B1/1000                 |      |         |
| BH (60°-80°)   | 334.5  | 2.8       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.6    | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 79°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6  | 1503.6  | 1503.6  | 1503.6  |
| 2.5°  | 1703.0 | 1701.1 | 1693.7 | 1680.6 | 1663.9 | 1658.3 | 1634.1 | 1600.5  | 1581.9  | 1561.4  | 1552.1  |
| 5°    | 1820.4 | 1811.1 | 1833.4 | 1824.1 | 1827.8 | 1783.1 | 1753.3 | 1729.1  | 1658.3  | 1630.3  | 1585.6  |
| 7.5°  | 1846.5 | 1855.8 | 1853.9 | 1868.8 | 1883.7 | 1900.5 | 1880.0 | 1844.6  | 1773.8  | 1732.8  | 1684.4  |
| 10°   | 1846.5 | 1842.7 | 1857.6 | 1878.1 | 1921.0 | 1958.3 | 2014.2 | 1967.6  | 1913.5  | 1865.1  | 1777.5  |
| 12.5° | 1812.9 | 1807.3 | 1822.2 | 1865.1 | 1941.5 | 2017.9 | 2079.4 | 2124.1  | 2047.7  | 2008.6  | 1894.9  |
| 15°   | 1710.4 | 1704.9 | 1766.3 | 1842.7 | 1943.4 | 2068.2 | 2196.8 | 2269.4  | 2217.2  | 2155.8  | 2029.1  |
| 17.5° | 1583.7 | 1591.2 | 1656.4 | 1783.1 | 1943.4 | 2092.4 | 2256.4 | 2414.8  | 2407.3  | 2329.0  | 2196.8  |
| 20°   | 1540.9 | 1546.5 | 1611.7 | 1703.0 | 1885.6 | 2109.2 | 2349.5 | 2573.1  | 2617.8  | 2524.7  | 2351.4  |
| 22.5° | 1622.9 | 1617.3 | 1622.9 | 1678.8 | 1846.5 | 2094.3 | 2411.0 | 2753.9  | 2834.0  | 2761.3  | 2554.5  |
| 25°   | 1902.4 | 1898.6 | 1852.1 | 1766.3 | 1824.1 | 2060.7 | 2442.7 | 2873.1  | 3057.6  | 2990.5  | 2718.5  |
| 27.5° | 2312.3 | 2297.4 | 2224.7 | 2045.8 | 1928.4 | 2081.2 | 2494.9 | 2988.6  | 3253.2  | 3176.8  | 2865.7  |
| 30°   | 2752.0 | 2716.6 | 2621.6 | 2398.0 | 2198.6 | 2157.6 | 2524.7 | 3074.3  | 3471.2  | 3374.3  | 2994.2  |
| 32.5° | 3055.7 | 3102.3 | 3072.5 | 2845.2 | 2539.6 | 2334.6 | 2573.1 | 3182.4  | 3672.4  | 3609.1  | 3214.1  |
| 35°   | 3525.2 | 3579.3 | 3454.4 | 3253.2 | 2945.8 | 2616.0 | 2675.6 | 3270.0  | 3981.7  | 3875.5  | 3419.0  |
| 37.5° | 4117.7 | 4158.7 | 4069.3 | 3687.3 | 3363.1 | 2962.5 | 2886.2 | 3452.6  | 4248.2  | 4197.9  | 3681.8  |
| 40°   | 4415.9 | 4613.4 | 4486.7 | 4142.0 | 3793.5 | 3447.0 | 3234.6 | 3666.8  | 4712.1  | 4671.1  | 4045.1  |
| 42.5° | 4827.6 | 4926.4 | 4861.2 | 4605.9 | 4242.6 | 3965.0 | 3665.0 | 4084.2  | 5274.8  | 5274.8  | 4537.0  |
| 45°   | 5263.6 | 5267.4 | 5263.6 | 5055.0 | 4732.6 | 4589.1 | 4246.3 | 4607.8  | 5880.4  | 5947.4  | 5125.8  |
| 47.5° | 5621.4 | 5733.2 | 5723.9 | 5599.0 | 5349.3 | 5295.3 | 4827.6 | 5204.0  | 6640.6  | 6758.0  | 5699.6  |
| 50°   | 5805.8 | 5930.7 | 5967.9 | 6033.2 | 6022.0 | 6135.6 | 5463.0 | 5895.3  | 7296.4  | 7585.2  | 6437.5  |
| 52.5° | 5755.5 | 5764.8 | 5994.0 | 6251.2 | 6661.1 | 6979.7 | 6228.8 | 6679.7  | 8064.1  | 8349.2  | 7007.6  |
| 55°   | 5343.8 | 5308.4 | 5779.8 | 6074.1 | 6921.9 | 7495.8 | 7289.0 | 7657.9  | 8662.2  | 9096.3  | 7596.4  |
| 57.5° | 4440.1 | 4449.4 | 4885.4 | 5483.5 | 6728.1 | 7700.8 | 8421.8 | 8936.1  | 9500.6  | 9938.5  | 8423.7  |
| 60°   | 3065.0 | 3053.8 | 3542.0 | 4233.3 | 5589.7 | 7318.8 | 9074.0 | 10592.5 | 10622.3 | 11242.8 | 9908.7  |
| 62.5° | 1723.5 | 1727.2 | 2098.0 | 2688.6 | 3910.9 | 5981.0 | 9042.3 | 12351.4 | 12224.7 | 12768.8 | 11596.8 |
| 65°   | 976.3  | 1000.6 | 1255.8 | 1593.1 | 2342.1 | 4015.3 | 7777.1 | 13052.0 | 13460.0 | 13944.5 | 12621.6 |
| 66°   | 825.4  | 842.2  | 1060.2 | 1315.4 | 1868.8 | 3256.9 | 7000.2 | 12915.9 | 13847.6 | 14216.5 | 12601.1 |
| 67.5° | 639.1  | 661.4  | 844.0  | 1043.4 | 1371.3 | 2254.5 | 5634.4 | 12239.6 | 13918.4 | 14134.5 | 12245.2 |
| 70°   | 437.9  | 452.8  | 592.5  | 791.9  | 937.2  | 1153.3 | 3368.7 | 10119.2 | 12629.0 | 12811.6 | 10642.8 |
| 72.5° | 307.4  | 314.9  | 415.5  | 600.0  | 721.1  | 659.6  | 1671.3 | 7199.5  | 9664.6  | 10020.5 | 8278.4  |
| 75°   | 221.7  | 229.2  | 285.1  | 430.4  | 562.7  | 432.3  | 765.8  | 4598.5  | 5927.0  | 6206.4  | 4986.0  |
| 77.5° | 160.2  | 169.6  | 193.8  | 277.6  | 408.0  | 303.7  | 376.4  | 2401.7  | 2794.9  | 2746.4  | 2144.6  |
| 80°   | 96.9   | 106.2  | 143.5  | 178.9  | 298.1  | 214.3  | 206.8  | 1002.4  | 991.2   | 940.9   | 674.5   |
| 82.5° | 44.7   | 52.2   | 76.4   | 121.1  | 208.7  | 149.1  | 98.8   | 357.7   | 313.0   | 286.9   | 190.0   |
| 85°   | 13.0   | 16.8   | 44.7   | 91.3   | 106.2  | 72.7   | 59.6   | 123.0   | 128.6   | 109.9   | 63.3    |
| 87.5° | 0.0    | 1.9    | 20.5   | 22.4   | 31.7   | 24.2   | 22.4   | 31.7    | 59.6    | 48.4    | 20.5    |
| 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-SA3B-735-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 | 1503.6 |
| 2.5°  | 1518.5 | 1505.5 | 1473.8 | 1425.4 | 1382.5 | 1360.2 | 1328.5 | 1300.5 | 1285.6 | 1283.8 | 1281.9 |
| 5°    | 1555.8 | 1520.4 | 1444.0 | 1356.4 | 1291.2 | 1220.4 | 1172.0 | 1136.6 | 1103.0 | 1071.4 | 1090.0 |
| 7.5°  | 1606.1 | 1550.2 | 1425.4 | 1311.7 | 1170.1 | 1078.8 | 993.1  | 942.8  | 913.0  | 885.0  | 881.3  |
| 10°   | 1684.4 | 1613.6 | 1412.3 | 1207.4 | 1045.3 | 911.1  | 823.5  | 750.9  | 709.9  | 661.4  | 680.1  |
| 12.5° | 1790.6 | 1663.9 | 1363.9 | 1112.4 | 903.7  | 762.1  | 637.2  | 519.8  | 454.6  | 404.3  | 406.2  |
| 15°   | 1896.8 | 1730.9 | 1319.2 | 996.8  | 775.1  | 588.8  | 406.2  | 326.1  | 307.4  | 296.3  | 300.0  |
| 17.5° | 2001.1 | 1785.0 | 1250.2 | 879.4  | 627.9  | 374.5  | 296.3  | 279.5  | 270.2  | 259.0  | 259.0  |
| 20°   | 2127.8 | 1820.4 | 1164.5 | 771.4  | 432.3  | 277.6  | 253.4  | 242.2  | 227.3  | 212.4  | 214.3  |
| 22.5° | 2250.8 | 1850.2 | 1065.8 | 633.5  | 290.7  | 240.4  | 212.4  | 197.5  | 184.5  | 169.6  | 169.6  |
| 25°   | 2373.8 | 1859.5 | 937.2  | 454.6  | 234.8  | 191.9  | 165.8  | 145.3  | 132.3  | 119.2  | 121.1  |
| 27.5° | 2457.6 | 1801.7 | 816.1  | 290.7  | 188.2  | 145.3  | 115.5  | 98.8   | 87.6   | 74.5   | 74.5   |
| 30°   | 2506.1 | 1695.5 | 685.7  | 205.0  | 141.6  | 98.8   | 68.9   | 52.2   | 41.0   | 31.7   | 29.8   |
| 32.5° | 2554.5 | 1609.8 | 538.5  | 156.5  | 93.2   | 52.2   | 26.1   | 9.3    | 0.0    | 0.0    | 0.0    |
| 35°   | 2651.4 | 1512.9 | 361.5  | 87.6   | 31.7   | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5° | 2712.9 | 1378.8 | 165.8  | 13.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 40°   | 2867.5 | 1311.7 | 41.0   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 42.5° | 3119.1 | 1265.1 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 45°   | 3394.8 | 1246.5 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 47.5° | 3761.9 | 1296.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°   | 4149.4 | 1432.8 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 52.5° | 4574.2 | 1561.4 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°   | 4945.0 | 1716.0 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 57.5° | 5627.0 | 2081.2 | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°   | 6851.1 | 2798.6 | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 62.5° | 8229.9 | 3331.5 | 20.5   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°   | 8734.8 | 3318.4 | 35.4   | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 66°   | 8645.4 | 3135.8 | 35.4   | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 67.5° | 8181.5 | 2785.5 | 31.7   | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°   | 7026.3 | 2301.1 | 31.7   | 5.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 72.5° | 5356.8 | 1792.4 | 29.8   | 7.5    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 3232.7 | 954.0  | 24.2   | 9.3    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 1287.5 | 335.4  | 18.6   | 7.5    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 348.4  | 100.6  | 11.2   | 7.5    | 5.6    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 91.3   | 37.3   | 9.3    | 7.5    | 3.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 35.4   | 14.9   | 7.5    | 5.6    | 5.6    | 3.7    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 11.2   | 5.6    | 5.6    | 3.7    | 3.7    | 1.9    | 1.9    | 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)