

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: P480597

Luminaire Tested: **IFLD-M-SA4D-760-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480597
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-760-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

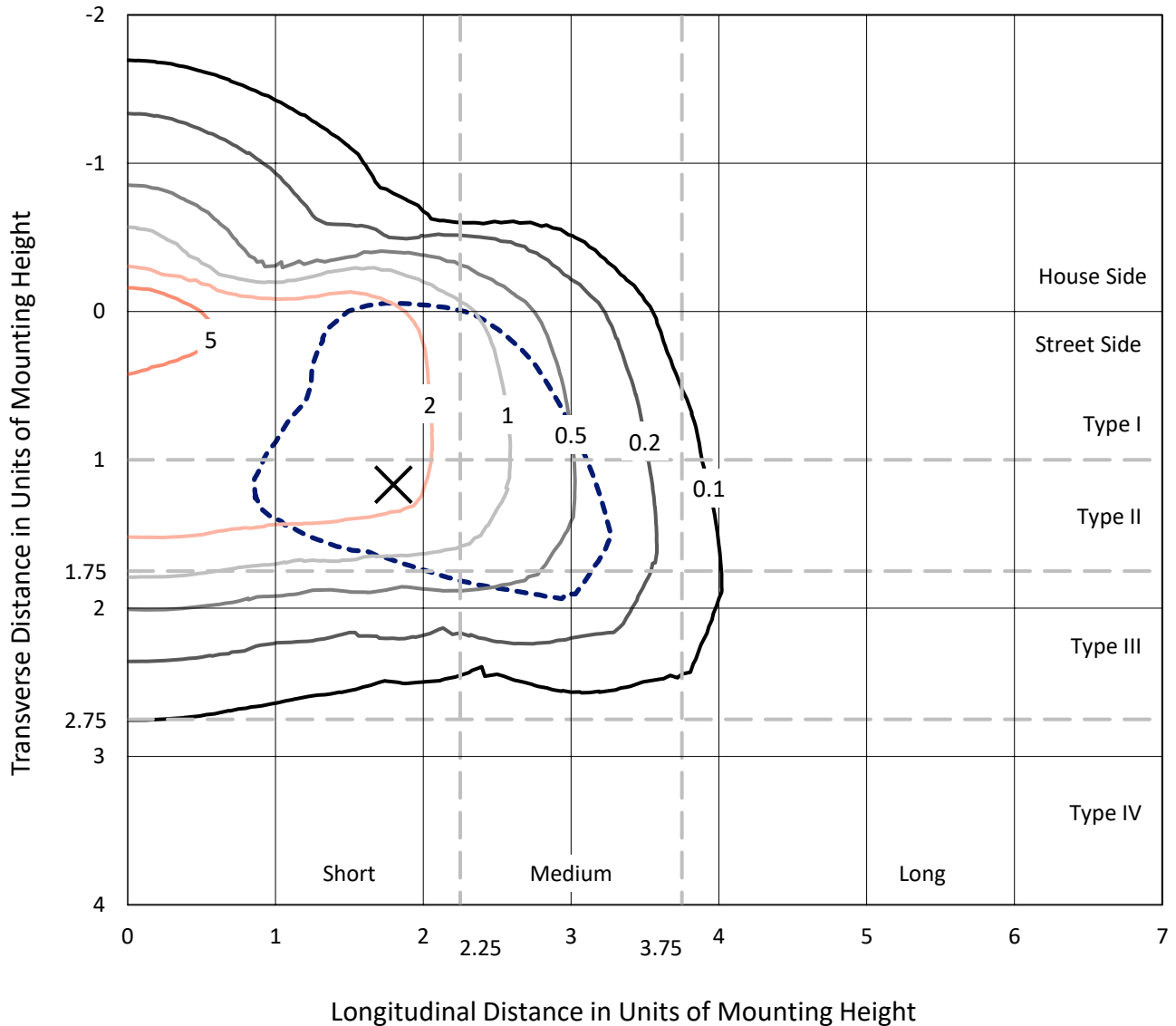
Lumens per Lamp: N/A
Luminaire Lumens: 31575.5 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

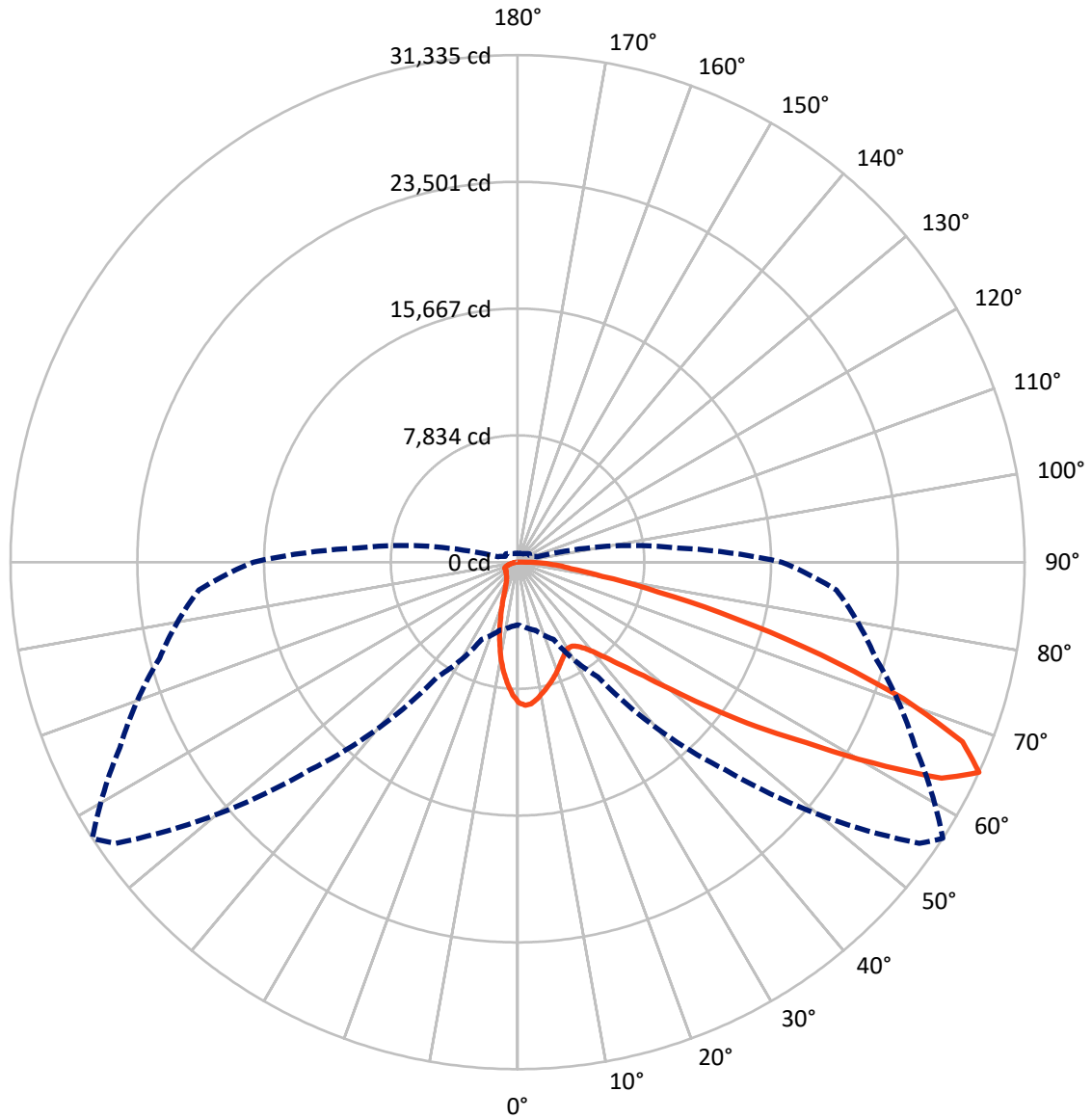
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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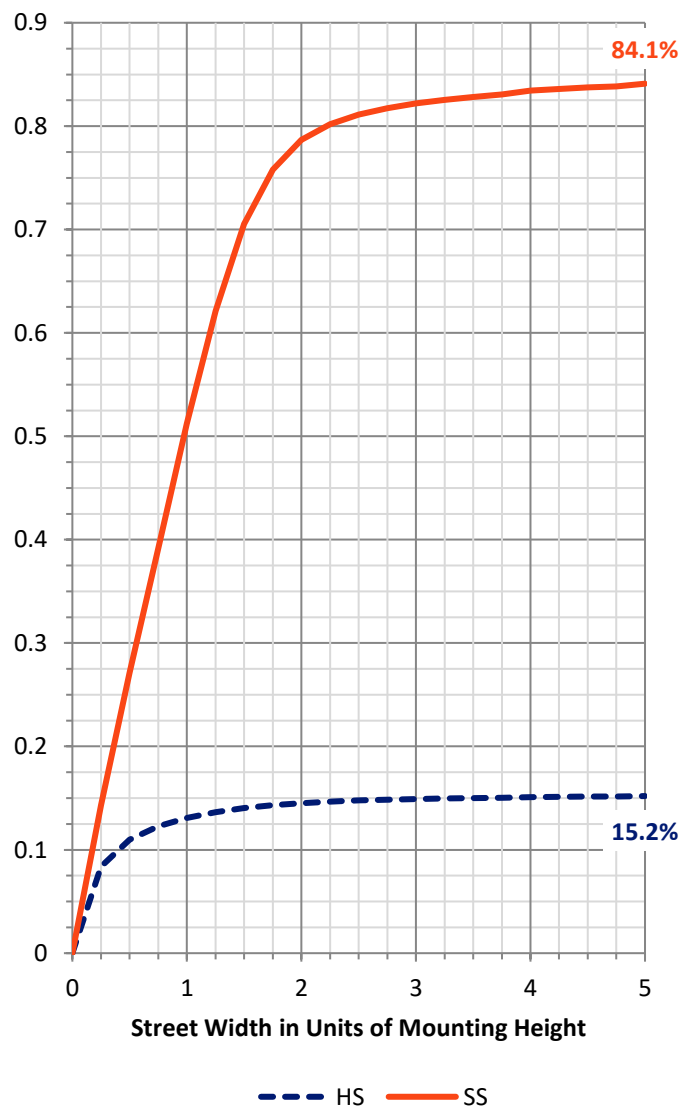
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4842.4 | 0.0 | 4842.4 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 26733.1 | 0.0 | 26733.1 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 31575.5 | 0.0 | 31575.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 727.1 | 2.3 |
| 10°-20° | 1564.9 | 5.0 |
| 20°-30° | 2023.2 | 6.4 |
| 30°-40° | 2722.6 | 8.6 |
| 40°-50° | 4341.3 | 13.7 |
| 50°-60° | 7667.9 | 24.3 |
| 60°-70° | 8435.7 | 26.7 |
| 70°-80° | 3528.8 | 11.2 |
| 80°-90° | 564.0 | 1.8 |
| 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° | 31575.5 | 100.0 |
| 0°-180° | 31575.5 | 100.0 |

Coefficient of Utilization



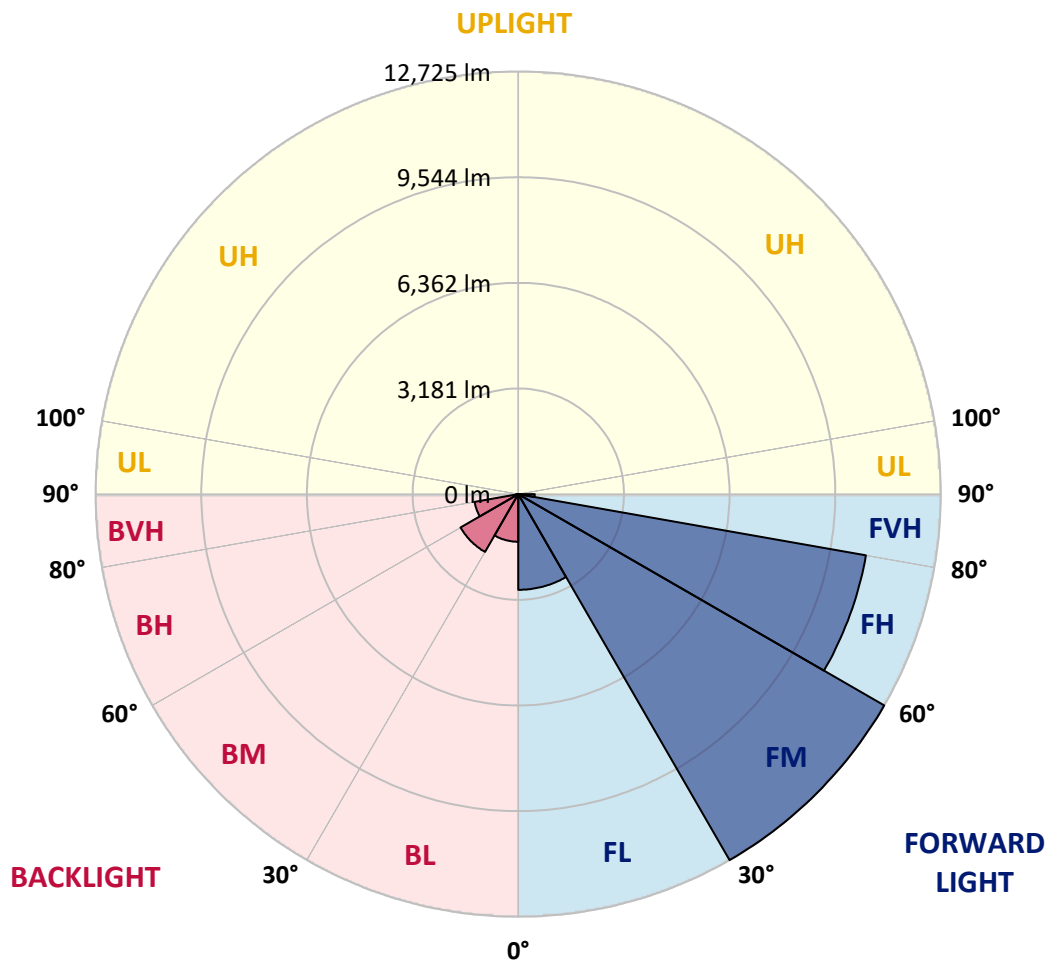
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2881.2 | 9.1 | | | |
| FM (30°-60°) | 12724.9 | 40.3 | | | |
| FH (60°-80°) | 10629.3 | 33.7 | | | G4/12000 |
| FVH (80°-90°) | 497.8 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1434.1 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 2007.0 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 1335.2 | 4.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 66.2 | 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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 |
| 2.5° | 8917.3 | 8931.5 | 8931.5 | 8959.9 | 8864.0 | 8910.2 | 8903.1 | 8860.5 | 8874.7 | 8800.1 | 8725.5 |
| 5° | 8665.1 | 8654.4 | 8711.3 | 8718.4 | 8793.0 | 8814.3 | 8832.0 | 8803.6 | 8810.7 | 8647.3 | 8576.2 |
| 7.5° | 8018.5 | 8014.9 | 8110.8 | 8192.6 | 8348.9 | 8494.5 | 8590.5 | 8562.0 | 8601.1 | 8498.1 | 8331.1 |
| 10° | 7251.1 | 7332.8 | 7432.3 | 7514.0 | 7801.8 | 7986.5 | 8235.2 | 8260.1 | 8409.3 | 8384.4 | 8082.4 |
| 12.5° | 6675.5 | 6711.1 | 6785.7 | 7020.2 | 7283.1 | 7588.6 | 7943.9 | 7975.8 | 8121.5 | 8192.6 | 7929.7 |
| 15° | 6203.0 | 6235.0 | 6330.9 | 6505.0 | 6799.9 | 7162.3 | 7613.5 | 7695.2 | 7986.5 | 8011.4 | 7730.7 |
| 17.5° | 5858.4 | 5883.3 | 5947.2 | 6121.3 | 6362.9 | 6828.3 | 7254.6 | 7400.3 | 7784.0 | 7904.8 | 7524.6 |
| 20° | 5723.4 | 5670.1 | 5705.7 | 5815.8 | 6057.4 | 6416.2 | 6966.9 | 7094.8 | 7585.0 | 7823.1 | 7329.2 |
| 22.5° | 5663.0 | 5616.8 | 5638.2 | 5631.0 | 5822.9 | 6078.7 | 6657.8 | 6792.8 | 7396.7 | 7727.2 | 7155.2 |
| 25° | 5709.2 | 5709.2 | 5687.9 | 5670.1 | 5691.4 | 5858.4 | 6323.8 | 6533.4 | 7144.5 | 7645.4 | 6977.5 |
| 27.5° | 5957.9 | 5862.0 | 5872.6 | 5798.0 | 5776.7 | 5776.7 | 6174.6 | 6299.0 | 7062.8 | 7599.3 | 6831.9 |
| 30° | 6117.8 | 6164.0 | 6167.5 | 6057.4 | 5947.2 | 5748.3 | 6036.1 | 6156.9 | 6995.3 | 7656.1 | 6746.6 |
| 32.5° | 6526.3 | 6505.0 | 6444.6 | 6423.3 | 6259.9 | 6036.1 | 6103.6 | 6185.3 | 6956.2 | 7784.0 | 6771.5 |
| 35° | 6934.9 | 6924.2 | 6927.8 | 6917.1 | 6746.6 | 6416.2 | 6284.7 | 6394.9 | 7027.3 | 8007.8 | 6856.7 |
| 37.5° | 7357.7 | 7386.1 | 7506.9 | 7506.9 | 7325.7 | 6966.9 | 6792.8 | 6760.8 | 7286.6 | 8373.7 | 7059.2 |
| 40° | 7780.4 | 7851.5 | 8004.3 | 8245.8 | 7990.1 | 7656.1 | 7375.4 | 7325.7 | 7599.3 | 8864.0 | 7546.0 |
| 42.5° | 8185.5 | 8302.7 | 8604.7 | 8963.5 | 8878.2 | 8544.3 | 8171.2 | 8114.4 | 8242.3 | 9592.3 | 8224.5 |
| 45° | 8704.1 | 8803.6 | 9279.7 | 9830.4 | 9947.6 | 9652.7 | 9215.7 | 9169.6 | 9162.4 | 10658.1 | 9158.9 |
| 47.5° | 9492.8 | 9599.4 | 10075.5 | 10629.7 | 10992.1 | 11038.3 | 10548.0 | 10498.3 | 10327.7 | 12097.0 | 10526.7 |
| 50° | 10480.5 | 10654.6 | 11056.0 | 11702.6 | 12228.4 | 12722.3 | 12583.7 | 12438.0 | 12104.1 | 13770.3 | 12260.4 |
| 52.5° | 11201.7 | 11414.9 | 11958.4 | 12786.2 | 13713.5 | 14498.6 | 14996.0 | 14996.0 | 14228.6 | 15607.1 | 14345.9 |
| 55° | 11393.5 | 11521.4 | 12207.1 | 13404.4 | 14992.4 | 16978.4 | 18019.4 | 17941.2 | 16758.1 | 17539.7 | 16772.4 |
| 57.5° | 10629.7 | 10796.7 | 11628.0 | 12882.1 | 15663.9 | 19298.3 | 21021.4 | 21039.2 | 19522.2 | 19785.1 | 19166.9 |
| 60° | 8526.5 | 8579.8 | 9560.3 | 11237.2 | 15017.3 | 21167.1 | 25121.2 | 25188.7 | 22666.3 | 21785.2 | 20385.5 |
| 62.5° | 5894.0 | 6064.5 | 6803.4 | 8274.3 | 12441.6 | 20957.5 | 29075.4 | 29409.4 | 25185.2 | 22840.4 | 20577.3 |
| 65° | 3879.6 | 3982.6 | 4376.9 | 5272.2 | 8661.5 | 18165.0 | 30304.6 | 31334.9 | 27110.8 | 22900.8 | 19774.4 |
| 67.5° | 2813.7 | 2831.5 | 2948.8 | 3410.6 | 5204.7 | 13063.3 | 28205.0 | 29658.0 | 27832.0 | 22396.3 | 17891.5 |
| 70° | 2273.7 | 2287.9 | 2330.6 | 2625.5 | 3360.9 | 8174.8 | 23003.8 | 25281.1 | 25668.3 | 20005.3 | 14409.8 |
| 72.5° | 1847.4 | 1865.2 | 1918.5 | 2195.6 | 2771.1 | 4547.5 | 16822.1 | 19596.8 | 20879.3 | 14800.6 | 9578.1 |
| 75° | 1453.1 | 1467.3 | 1595.2 | 1868.7 | 2604.1 | 3122.8 | 11159.1 | 13876.9 | 14051.0 | 8650.9 | 4483.5 |
| 77.5° | 994.8 | 1019.6 | 1175.9 | 1584.5 | 2451.4 | 2732.0 | 6956.2 | 8888.9 | 7975.8 | 3385.7 | 1541.9 |
| 80° | 632.4 | 667.9 | 760.3 | 1200.8 | 2167.2 | 2607.7 | 4327.2 | 5307.8 | 3492.3 | 1158.2 | 742.5 |
| 82.5° | 373.0 | 408.6 | 500.9 | 778.0 | 1701.7 | 2419.4 | 3048.2 | 3321.8 | 1637.8 | 593.3 | 447.6 |
| 85° | 206.1 | 230.9 | 302.0 | 469.0 | 998.3 | 2149.4 | 2440.7 | 2383.9 | 937.9 | 316.2 | 280.7 |
| 87.5° | 67.5 | 78.2 | 110.1 | 188.3 | 412.1 | 1012.5 | 1463.7 | 1374.9 | 486.7 | 145.7 | 110.1 |
| 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-M-SA4D-760-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 | 8682.8 |
| 2.5° | 8675.7 | 8665.1 | 8505.2 | 8384.4 | 8178.3 | 8007.8 | 7940.3 | 7847.9 | 7844.4 | 7776.9 | 7759.1 |
| 5° | 8466.1 | 8356.0 | 8110.8 | 7876.4 | 7510.4 | 7265.3 | 7041.5 | 6885.2 | 6821.2 | 6682.7 | 6650.7 |
| 7.5° | 8196.1 | 8050.4 | 7673.9 | 7233.3 | 6803.4 | 6419.8 | 6071.6 | 5723.4 | 5528.0 | 5460.5 | 5385.9 |
| 10° | 7915.4 | 7659.6 | 7101.9 | 6608.0 | 6007.6 | 5417.9 | 4870.8 | 4380.5 | 4114.0 | 3925.7 | 3844.0 |
| 12.5° | 7691.6 | 7350.6 | 6640.0 | 5901.1 | 5108.8 | 4320.1 | 3684.2 | 3169.0 | 2867.0 | 2724.9 | 2661.0 |
| 15° | 7439.4 | 6988.2 | 6135.5 | 5201.2 | 4213.5 | 3318.2 | 2696.5 | 2291.5 | 2170.7 | 2103.2 | 2092.5 |
| 17.5° | 7172.9 | 6650.7 | 5588.4 | 4511.9 | 3339.5 | 2497.6 | 2096.1 | 1932.7 | 1879.4 | 1851.0 | 1836.8 |
| 20° | 6924.2 | 6348.7 | 5027.1 | 3744.6 | 2614.8 | 2003.7 | 1815.4 | 1730.2 | 1726.6 | 1740.8 | 1737.3 |
| 22.5° | 6572.5 | 5954.3 | 4472.9 | 3034.0 | 2089.0 | 1744.4 | 1623.6 | 1602.3 | 1623.6 | 1641.4 | 1648.5 |
| 25° | 6373.6 | 5631.0 | 3854.7 | 2408.7 | 1726.6 | 1549.0 | 1509.9 | 1502.8 | 1534.8 | 1556.1 | 1552.5 |
| 27.5° | 6167.5 | 5297.1 | 3279.2 | 1929.1 | 1513.5 | 1410.4 | 1403.3 | 1410.4 | 1442.4 | 1474.4 | 1470.8 |
| 30° | 6007.6 | 5030.6 | 2739.1 | 1612.9 | 1350.0 | 1311.0 | 1303.8 | 1311.0 | 1328.7 | 1332.3 | 1332.3 |
| 32.5° | 5876.2 | 4714.4 | 2280.8 | 1399.8 | 1250.6 | 1218.6 | 1225.7 | 1222.1 | 1225.7 | 1229.2 | 1232.8 |
| 35° | 5798.0 | 4526.2 | 1904.3 | 1268.3 | 1168.8 | 1144.0 | 1140.4 | 1129.8 | 1133.3 | 1136.9 | 1133.3 |
| 37.5° | 5965.0 | 4433.8 | 1605.8 | 1175.9 | 1112.0 | 1090.7 | 1083.6 | 1076.5 | 1065.8 | 1065.8 | 1065.8 |
| 40° | 6217.2 | 4384.0 | 1424.6 | 1115.6 | 1069.4 | 1044.5 | 1023.2 | 1016.1 | 1016.1 | 1019.6 | 1023.2 |
| 42.5° | 6718.2 | 4465.8 | 1300.3 | 1069.4 | 1016.1 | 987.7 | 966.3 | 969.9 | 980.5 | 991.2 | 984.1 |
| 45° | 7442.9 | 4714.4 | 1243.4 | 1033.8 | 984.1 | 945.0 | 930.8 | 927.3 | 937.9 | 955.7 | 969.9 |
| 47.5° | 8391.5 | 5101.7 | 1222.1 | 1001.9 | 962.8 | 909.5 | 891.7 | 902.4 | 916.6 | 941.5 | 930.8 |
| 50° | 9944.0 | 5972.1 | 1239.9 | 973.4 | 930.8 | 891.7 | 870.4 | 859.8 | 870.4 | 888.2 | 895.3 |
| 52.5° | 11972.6 | 7553.1 | 1307.4 | 959.2 | 909.5 | 877.5 | 842.0 | 824.2 | 834.9 | 849.1 | 849.1 |
| 55° | 14399.1 | 9713.1 | 1495.7 | 941.5 | 874.0 | 856.2 | 817.1 | 781.6 | 788.7 | 788.7 | 785.1 |
| 57.5° | 16537.9 | 11343.8 | 1719.5 | 916.6 | 852.7 | 827.8 | 778.0 | 735.4 | 728.3 | 731.9 | 735.4 |
| 60° | 17497.1 | 11777.2 | 1826.1 | 909.5 | 852.7 | 792.3 | 724.8 | 682.1 | 671.5 | 664.4 | 664.4 |
| 62.5° | 17330.1 | 11027.6 | 1609.4 | 877.5 | 874.0 | 763.8 | 675.0 | 628.8 | 614.6 | 600.4 | 604.0 |
| 65° | 16321.2 | 9958.3 | 1268.3 | 834.9 | 877.5 | 746.1 | 625.3 | 579.1 | 554.2 | 536.5 | 532.9 |
| 67.5° | 14477.3 | 8501.6 | 1005.4 | 802.9 | 842.0 | 714.1 | 582.6 | 529.4 | 508.0 | 490.3 | 483.2 |
| 70° | 11326.0 | 6664.9 | 874.0 | 760.3 | 756.7 | 635.9 | 532.9 | 486.7 | 454.7 | 433.4 | 433.4 |
| 72.5° | 7343.5 | 4213.5 | 749.6 | 675.0 | 653.7 | 532.9 | 461.9 | 433.4 | 408.6 | 390.8 | 390.8 |
| 75° | 3325.3 | 1957.5 | 604.0 | 564.9 | 532.9 | 426.3 | 390.8 | 376.6 | 355.3 | 337.5 | 337.5 |
| 77.5° | 1193.7 | 834.9 | 451.2 | 444.1 | 397.9 | 330.4 | 316.2 | 305.5 | 291.3 | 273.6 | 273.6 |
| 80° | 667.9 | 529.4 | 337.5 | 323.3 | 277.1 | 245.1 | 227.4 | 227.4 | 220.3 | 209.6 | 206.1 |
| 82.5° | 422.8 | 344.6 | 248.7 | 216.7 | 181.2 | 163.4 | 156.3 | 152.8 | 149.2 | 135.0 | 131.5 |
| 85° | 266.5 | 234.5 | 163.4 | 127.9 | 106.6 | 81.7 | 78.2 | 74.6 | 67.5 | 60.4 | 60.4 |
| 87.5° | 120.8 | 135.0 | 63.9 | 39.1 | 28.4 | 17.8 | 10.7 | 3.6 | 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)