

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: P480410

Luminaire Tested: **IFLD-L-SA8B-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480410
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

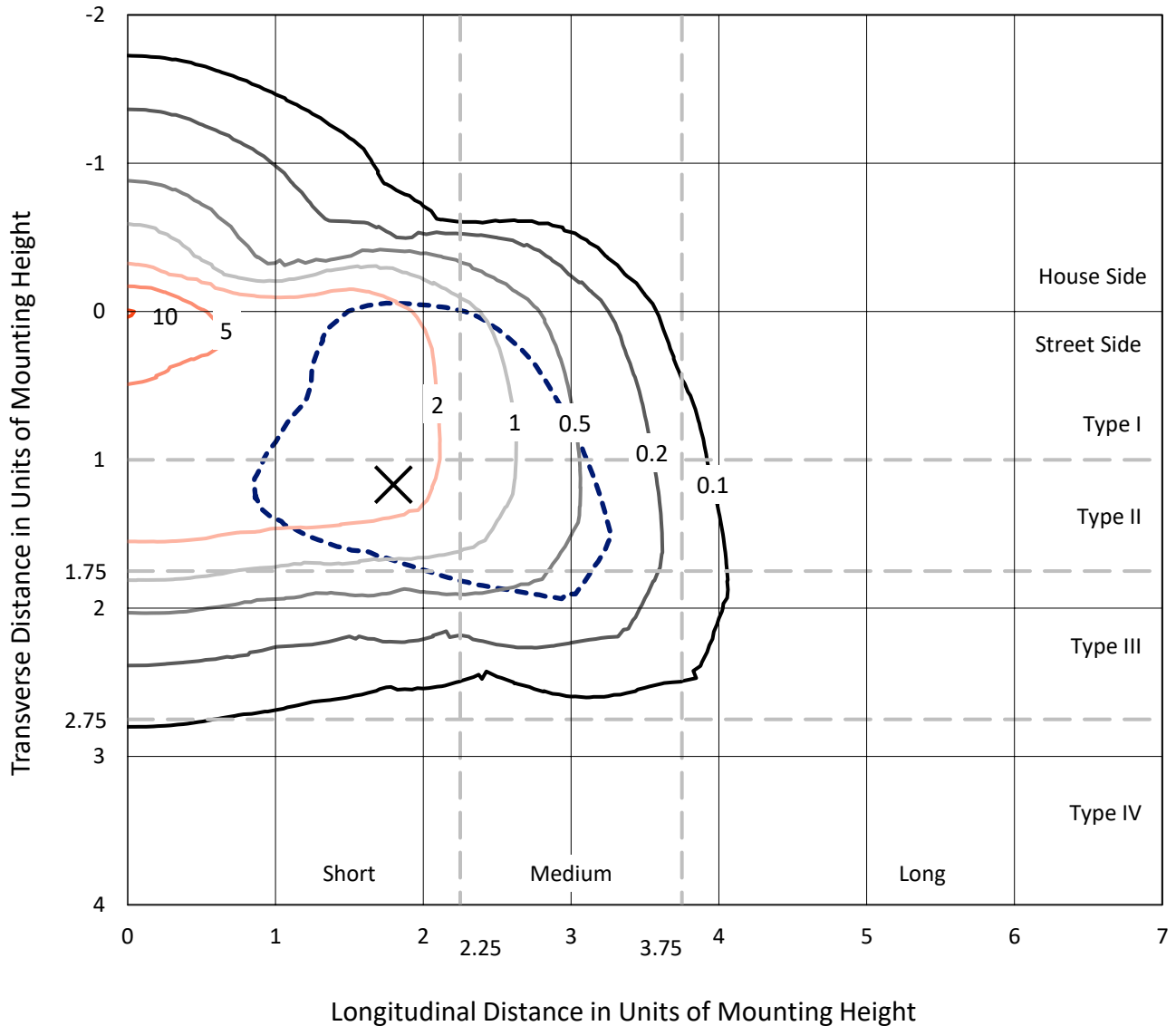
Lumens per Lamp: N/A
Luminaire Lumens: 33584.5 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 320
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: P480410
 CATALOG NUMBER: IFLD-L-SA8B-727-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

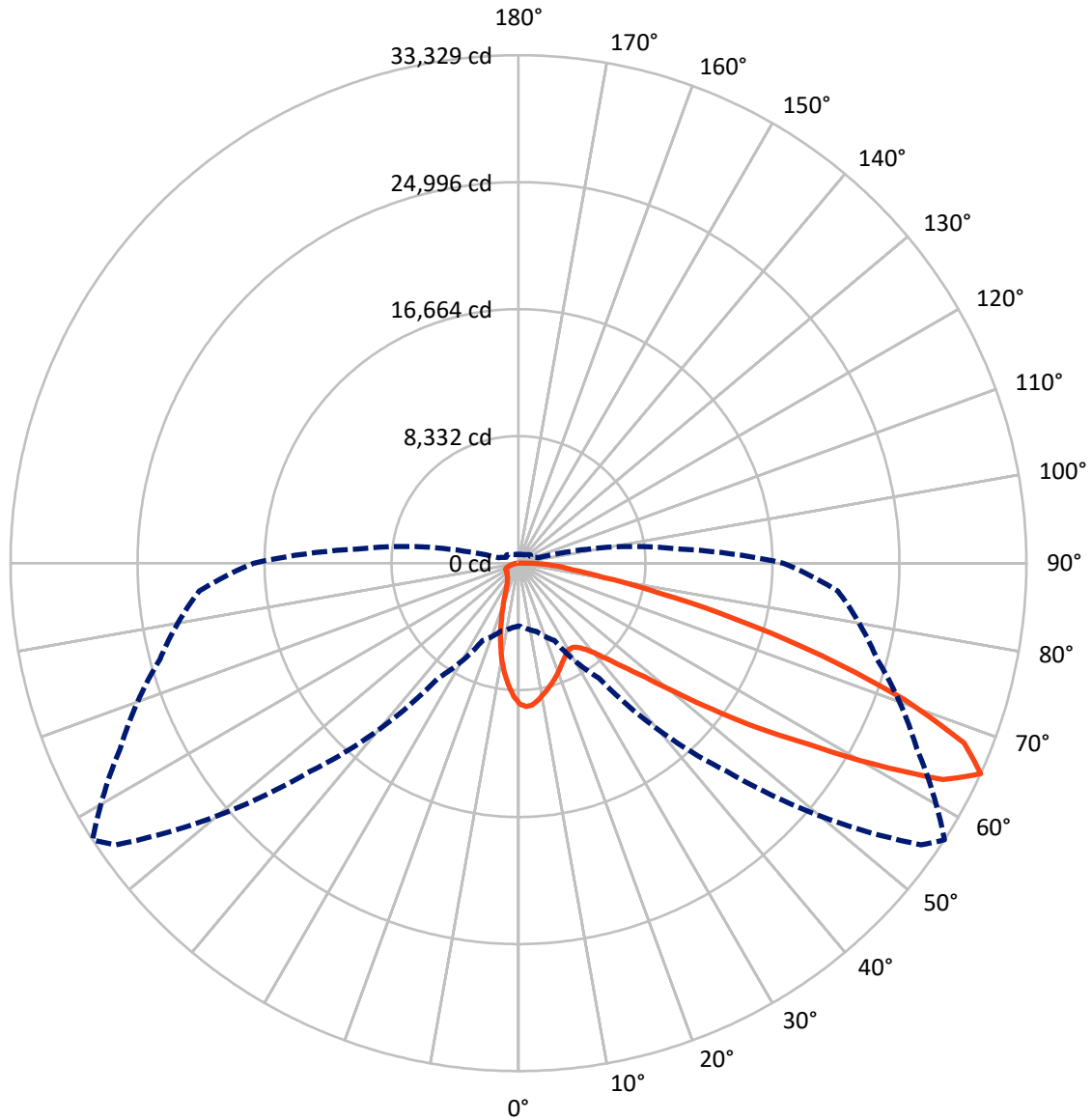
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

REPORT NUMBER: P480410
CATALOG NUMBER: IFLD-L-SA8B-727-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480410
 CATALOG NUMBER: IFLD-L-SA8B-727-U-SL3

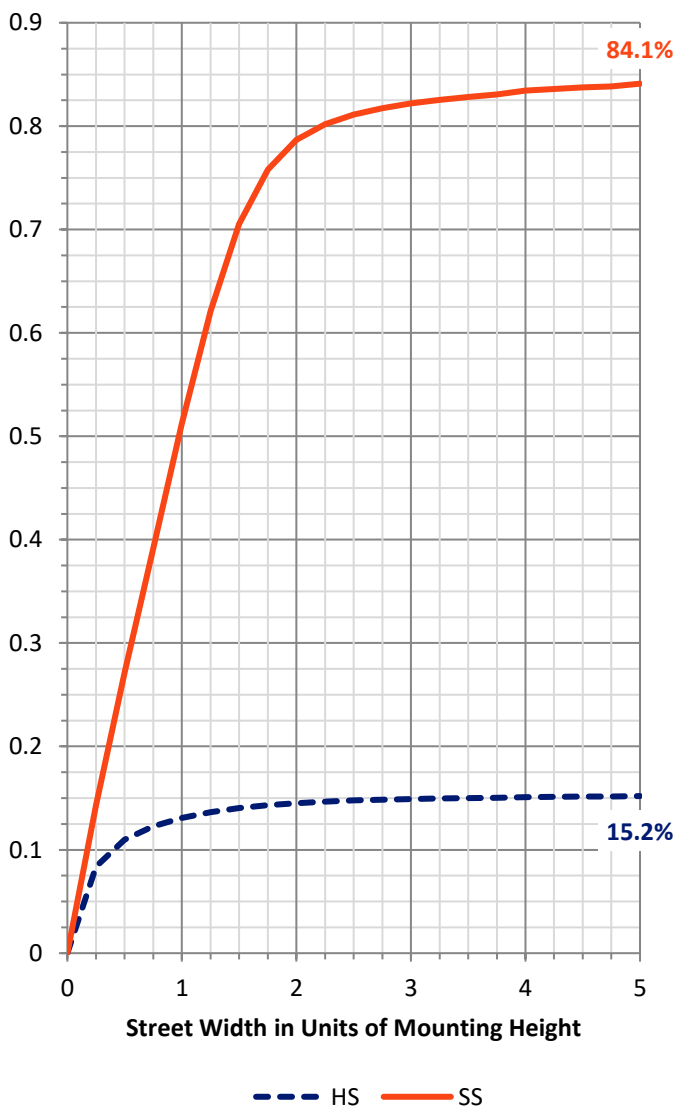
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5150.5 | 0.0 | 5150.5 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 28434.0 | 0.0 | 28434.0 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 33584.5 | 0.0 | 33584.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 773.4 | 2.3 |
| 10°-20° | 1664.4 | 5.0 |
| 20°-30° | 2152.0 | 6.4 |
| 30°-40° | 2895.9 | 8.6 |
| 40°-50° | 4617.6 | 13.7 |
| 50°-60° | 8155.7 | 24.3 |
| 60°-70° | 8972.4 | 26.7 |
| 70°-80° | 3753.3 | 11.2 |
| 80°-90° | 599.8 | 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° | 33584.5 | 100.0 |
| 0°-180° | 33584.5 | 100.0 |

Coefficient of Utilization



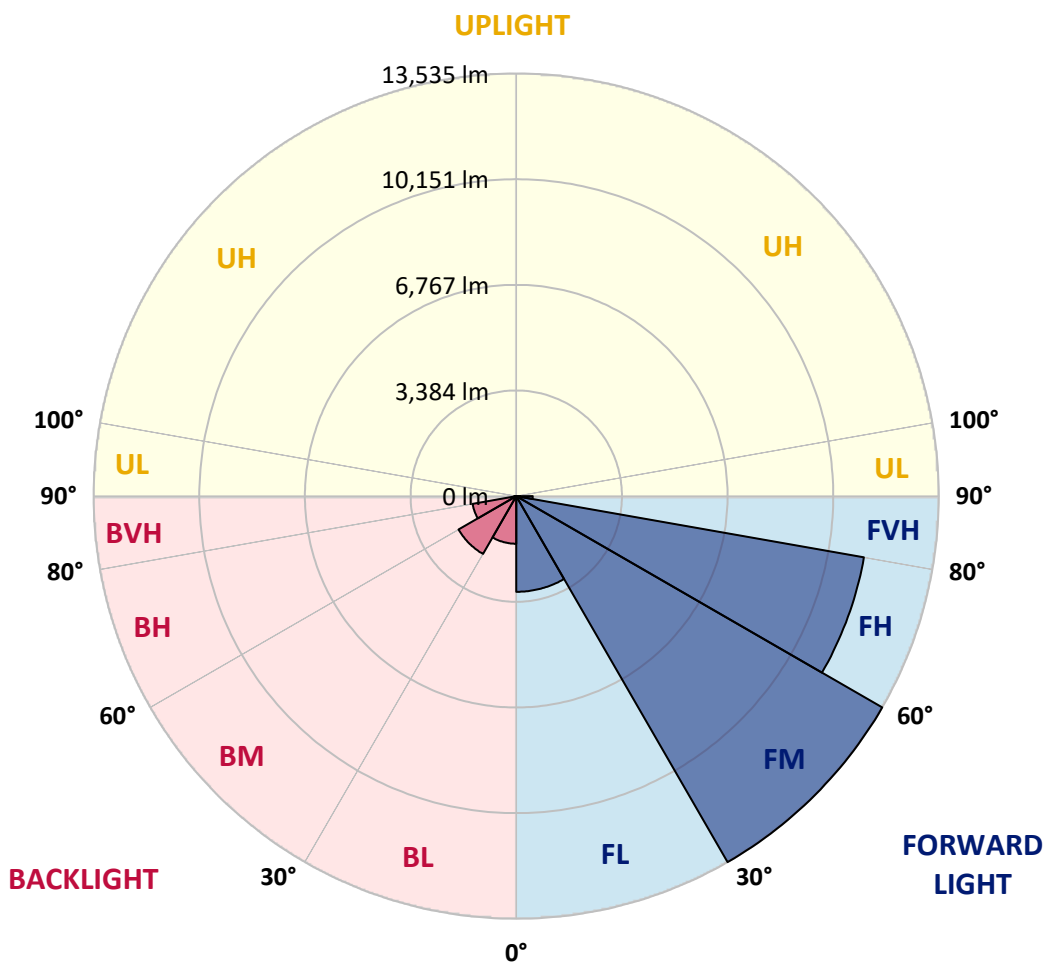
REPORT NUMBER: P480410
 CATALOG NUMBER: IFLD-L-SA8B-727-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3064.5 | 9.1 | | | |
| FM (30°-60°) | 13534.5 | 40.3 | | | |
| FH (60°-80°) | 11305.5 | 33.7 | | | G4/12000 |
| FVH (80°-90°) | 529.5 | 1.6 | | | G4/750 |
| BL (0°-30°) | 1525.3 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 2134.6 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 1420.2 | 4.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 70.4 | 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-G4

Type III Short





REPORT NUMBER: P480410

CATALOG NUMBER: IFLD-L-SA8B-727-U-SL3

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 |
| 2.5° | 9484.7 | 9499.8 | 9499.8 | 9530.0 | 9428.0 | 9477.1 | 9469.5 | 9424.2 | 9439.3 | 9360.0 | 9280.6 |
| 5° | 9216.4 | 9205.0 | 9265.5 | 9273.1 | 9352.4 | 9375.1 | 9394.0 | 9363.7 | 9371.3 | 9197.5 | 9121.9 |
| 7.5° | 8528.6 | 8524.9 | 8626.9 | 8713.8 | 8880.1 | 9035.0 | 9137.0 | 9106.8 | 9148.4 | 9038.8 | 8861.2 |
| 10° | 7712.4 | 7799.3 | 7905.1 | 7992.1 | 8298.1 | 8494.6 | 8759.1 | 8785.6 | 8944.3 | 8917.8 | 8596.7 |
| 12.5° | 7100.3 | 7138.1 | 7217.4 | 7466.8 | 7746.4 | 8071.4 | 8449.3 | 8483.3 | 8638.2 | 8713.8 | 8434.2 |
| 15° | 6597.7 | 6631.7 | 6733.7 | 6918.9 | 7232.5 | 7618.0 | 8097.9 | 8184.8 | 8494.6 | 8521.1 | 8222.6 |
| 17.5° | 6231.2 | 6257.6 | 6325.6 | 6510.8 | 6767.7 | 7262.8 | 7716.2 | 7871.1 | 8279.2 | 8407.7 | 8003.4 |
| 20° | 6087.6 | 6030.9 | 6068.7 | 6185.8 | 6442.8 | 6824.4 | 7410.1 | 7546.2 | 8067.6 | 8320.8 | 7795.6 |
| 22.5° | 6023.3 | 5974.2 | 5996.9 | 5989.3 | 6193.4 | 6465.4 | 7081.4 | 7225.0 | 7867.4 | 8218.8 | 7610.4 |
| 25° | 6072.5 | 6072.5 | 6049.8 | 6030.9 | 6053.6 | 6231.2 | 6726.2 | 6949.1 | 7599.1 | 8131.9 | 7421.5 |
| 27.5° | 6337.0 | 6234.9 | 6246.3 | 6166.9 | 6144.2 | 6144.2 | 6567.5 | 6699.7 | 7512.2 | 8082.7 | 7266.5 |
| 30° | 6507.0 | 6556.1 | 6559.9 | 6442.8 | 6325.6 | 6114.0 | 6420.1 | 6548.6 | 7440.4 | 8143.2 | 7175.8 |
| 32.5° | 6941.6 | 6918.9 | 6854.7 | 6832.0 | 6658.2 | 6420.1 | 6491.9 | 6578.8 | 7398.8 | 8279.2 | 7202.3 |
| 35° | 7376.1 | 7364.8 | 7368.6 | 7357.2 | 7175.8 | 6824.4 | 6684.6 | 6801.7 | 7474.4 | 8517.3 | 7293.0 |
| 37.5° | 7825.8 | 7856.0 | 7984.5 | 7984.5 | 7791.8 | 7410.1 | 7225.0 | 7191.0 | 7750.2 | 8906.5 | 7508.4 |
| 40° | 8275.5 | 8351.0 | 8513.5 | 8770.5 | 8498.4 | 8143.2 | 7844.7 | 7791.8 | 8082.7 | 9428.0 | 8026.1 |
| 42.5° | 8706.2 | 8830.9 | 9152.1 | 9533.8 | 9443.1 | 9087.9 | 8691.1 | 8630.7 | 8766.7 | 10202.6 | 8747.8 |
| 45° | 9257.9 | 9363.7 | 9870.1 | 10455.8 | 10580.5 | 10266.9 | 9802.1 | 9753.0 | 9745.4 | 11336.2 | 9741.6 |
| 47.5° | 10096.8 | 10210.2 | 10716.5 | 11306.0 | 11691.5 | 11740.6 | 11219.1 | 11166.2 | 10984.8 | 12866.6 | 11196.4 |
| 50° | 11147.3 | 11332.5 | 11759.5 | 12447.2 | 13006.5 | 13531.7 | 13384.3 | 13229.4 | 12874.2 | 14646.4 | 13040.5 |
| 52.5° | 11914.4 | 12141.1 | 12719.3 | 13599.7 | 14586.0 | 15421.1 | 15950.1 | 15950.1 | 15133.9 | 16600.0 | 15258.6 |
| 55° | 12118.4 | 12254.5 | 12983.8 | 14257.2 | 15946.3 | 18058.6 | 19165.8 | 19082.7 | 17824.4 | 18655.7 | 17839.5 |
| 57.5° | 11306.0 | 11483.6 | 12367.8 | 13701.7 | 16660.5 | 20526.2 | 22358.9 | 22377.8 | 20764.2 | 21043.9 | 20386.4 |
| 60° | 9069.0 | 9125.7 | 10168.6 | 11952.2 | 15972.8 | 22513.8 | 26719.5 | 26791.3 | 24108.4 | 23171.3 | 21682.5 |
| 62.5° | 6268.9 | 6450.3 | 7236.3 | 8800.7 | 13233.2 | 22290.8 | 30925.3 | 31280.5 | 26787.6 | 24293.6 | 21886.5 |
| 65° | 4126.4 | 4236.0 | 4655.4 | 5607.7 | 9212.6 | 19320.7 | 32232.7 | 33328.6 | 28835.6 | 24357.8 | 21032.5 |
| 67.5° | 2992.8 | 3011.7 | 3136.4 | 3627.6 | 5535.9 | 13894.5 | 29999.5 | 31545.0 | 29602.7 | 23821.2 | 19029.8 |
| 70° | 2418.4 | 2433.5 | 2478.9 | 2792.5 | 3574.7 | 8694.9 | 24467.4 | 26889.6 | 27301.5 | 21278.1 | 15326.6 |
| 72.5° | 1964.9 | 1983.8 | 2040.5 | 2335.3 | 2947.4 | 4836.8 | 17892.4 | 20843.6 | 22207.7 | 15742.3 | 10187.5 |
| 75° | 1545.5 | 1560.6 | 1696.7 | 1987.6 | 2769.8 | 3321.5 | 11869.1 | 14759.8 | 14945.0 | 9201.3 | 4768.8 |
| 77.5° | 1058.0 | 1084.5 | 1250.8 | 1685.3 | 2607.3 | 2905.9 | 7398.8 | 9454.4 | 8483.3 | 3601.1 | 1640.0 |
| 80° | 672.6 | 710.4 | 808.7 | 1277.2 | 2305.0 | 2773.6 | 4602.5 | 5645.5 | 3714.5 | 1231.9 | 789.8 |
| 82.5° | 396.8 | 434.6 | 532.8 | 827.5 | 1810.0 | 2573.3 | 3242.2 | 3533.1 | 1742.0 | 631.1 | 476.1 |
| 85° | 219.2 | 245.6 | 321.2 | 498.8 | 1061.8 | 2286.1 | 2596.0 | 2535.5 | 997.6 | 336.3 | 298.5 |
| 87.5° | 71.8 | 83.1 | 117.1 | 200.3 | 438.3 | 1076.9 | 1556.8 | 1462.4 | 517.7 | 154.9 | 117.1 |
| 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: P480410
 CATALOG NUMBER: IFLD-L-SA8B-727-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 | 9235.3 |
| 2.5° | 9227.7 | 9216.4 | 9046.3 | 8917.8 | 8698.7 | 8517.3 | 8445.5 | 8347.3 | 8343.5 | 8271.7 | 8252.8 |
| 5° | 9004.8 | 8887.6 | 8626.9 | 8377.5 | 7988.3 | 7727.5 | 7489.5 | 7323.2 | 7255.2 | 7107.8 | 7073.8 |
| 7.5° | 8717.6 | 8562.6 | 8162.1 | 7693.5 | 7236.3 | 6828.2 | 6457.9 | 6087.6 | 5879.7 | 5807.9 | 5728.6 |
| 10° | 8419.1 | 8147.0 | 7553.7 | 7028.5 | 6389.9 | 5762.6 | 5180.7 | 4659.2 | 4375.8 | 4175.5 | 4088.6 |
| 12.5° | 8181.0 | 7818.2 | 7062.5 | 6276.5 | 5433.8 | 4595.0 | 3918.6 | 3370.6 | 3049.5 | 2898.3 | 2830.3 |
| 15° | 7912.7 | 7432.8 | 6525.9 | 5532.1 | 4481.6 | 3529.4 | 2868.1 | 2437.3 | 2308.8 | 2237.0 | 2225.7 |
| 17.5° | 7629.3 | 7073.8 | 5944.0 | 4799.0 | 3552.0 | 2656.5 | 2229.5 | 2055.6 | 1999.0 | 1968.7 | 1953.6 |
| 20° | 7364.8 | 6752.6 | 5346.9 | 3982.8 | 2781.2 | 2131.2 | 1930.9 | 1840.3 | 1836.5 | 1851.6 | 1847.8 |
| 22.5° | 6990.7 | 6333.2 | 4757.4 | 3227.1 | 2221.9 | 1855.4 | 1726.9 | 1704.2 | 1726.9 | 1745.8 | 1753.3 |
| 25° | 6779.1 | 5989.3 | 4099.9 | 2562.0 | 1836.5 | 1647.5 | 1606.0 | 1598.4 | 1632.4 | 1655.1 | 1651.3 |
| 27.5° | 6559.9 | 5634.1 | 3487.8 | 2051.9 | 1609.7 | 1500.2 | 1492.6 | 1500.2 | 1534.2 | 1568.2 | 1564.4 |
| 30° | 6389.9 | 5350.7 | 2913.4 | 1715.6 | 1435.9 | 1394.4 | 1386.8 | 1394.4 | 1413.3 | 1417.0 | 1417.0 |
| 32.5° | 6250.1 | 5014.4 | 2426.0 | 1488.8 | 1330.1 | 1296.1 | 1303.7 | 1299.9 | 1303.7 | 1307.4 | 1311.2 |
| 35° | 6166.9 | 4814.1 | 2025.4 | 1349.0 | 1243.2 | 1216.8 | 1213.0 | 1201.6 | 1205.4 | 1209.2 | 1205.4 |
| 37.5° | 6344.5 | 4715.9 | 1708.0 | 1250.8 | 1182.7 | 1160.1 | 1152.5 | 1145.0 | 1133.6 | 1133.6 | 1133.6 |
| 40° | 6612.8 | 4663.0 | 1515.3 | 1186.5 | 1137.4 | 1111.0 | 1088.3 | 1080.7 | 1080.7 | 1084.5 | 1088.3 |
| 42.5° | 7145.6 | 4749.9 | 1383.0 | 1137.4 | 1080.7 | 1050.5 | 1027.8 | 1031.6 | 1042.9 | 1054.3 | 1046.7 |
| 45° | 7916.5 | 5014.4 | 1322.6 | 1099.6 | 1046.7 | 1005.1 | 990.0 | 986.3 | 997.6 | 1016.5 | 1031.6 |
| 47.5° | 8925.4 | 5426.3 | 1299.9 | 1065.6 | 1024.0 | 967.4 | 948.5 | 959.8 | 974.9 | 1001.4 | 990.0 |
| 50° | 10576.7 | 6352.1 | 1318.8 | 1035.4 | 990.0 | 948.5 | 925.8 | 914.5 | 925.8 | 944.7 | 952.2 |
| 52.5° | 12734.4 | 8033.6 | 1390.6 | 1020.3 | 967.4 | 933.4 | 895.6 | 876.7 | 888.0 | 903.1 | 903.1 |
| 55° | 15315.3 | 10331.1 | 1590.9 | 1001.4 | 929.6 | 910.7 | 869.1 | 831.3 | 838.9 | 838.9 | 835.1 |
| 57.5° | 17590.1 | 12065.5 | 1828.9 | 974.9 | 906.9 | 880.4 | 827.5 | 782.2 | 774.6 | 778.4 | 782.2 |
| 60° | 18610.3 | 12526.6 | 1942.3 | 967.4 | 906.9 | 842.7 | 770.9 | 725.5 | 714.2 | 706.6 | 706.6 |
| 62.5° | 18432.7 | 11729.2 | 1711.8 | 933.4 | 929.6 | 812.4 | 718.0 | 668.8 | 653.7 | 638.6 | 642.4 |
| 65° | 17359.6 | 10591.8 | 1349.0 | 888.0 | 933.4 | 793.5 | 665.1 | 615.9 | 589.5 | 570.6 | 566.8 |
| 67.5° | 15398.4 | 9042.5 | 1069.4 | 854.0 | 895.6 | 759.5 | 619.7 | 563.0 | 540.4 | 521.5 | 513.9 |
| 70° | 12046.7 | 7088.9 | 929.6 | 808.7 | 804.9 | 676.4 | 566.8 | 517.7 | 483.7 | 461.0 | 461.0 |
| 72.5° | 7810.7 | 4481.6 | 797.3 | 718.0 | 695.3 | 566.8 | 491.2 | 461.0 | 434.6 | 415.7 | 415.7 |
| 75° | 3536.9 | 2082.1 | 642.4 | 600.8 | 566.8 | 453.4 | 415.7 | 400.5 | 377.9 | 359.0 | 359.0 |
| 77.5° | 1269.7 | 888.0 | 479.9 | 472.3 | 423.2 | 351.4 | 336.3 | 325.0 | 309.9 | 291.0 | 291.0 |
| 80° | 710.4 | 563.0 | 359.0 | 343.9 | 294.7 | 260.7 | 241.8 | 241.8 | 234.3 | 222.9 | 219.2 |
| 82.5° | 449.7 | 366.5 | 264.5 | 230.5 | 192.7 | 173.8 | 166.3 | 162.5 | 158.7 | 143.6 | 139.8 |
| 85° | 283.4 | 249.4 | 173.8 | 136.0 | 113.4 | 86.9 | 83.1 | 79.4 | 71.8 | 64.2 | 64.2 |
| 87.5° | 128.5 | 143.6 | 68.0 | 41.6 | 30.2 | 18.9 | 11.3 | 3.8 | 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)