

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: P476863

Luminaire Tested: **IFLD-L-SA8D-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476863
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

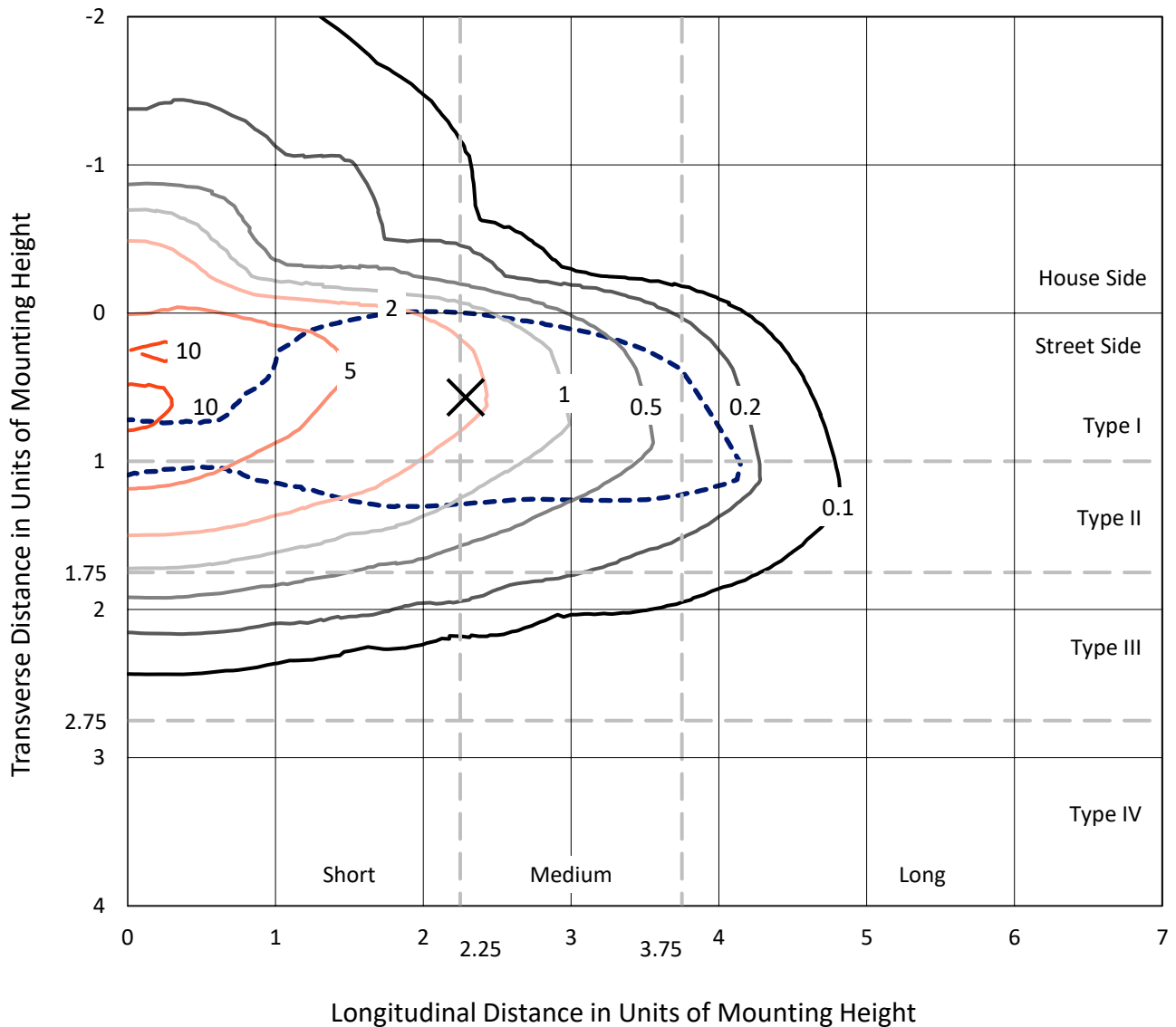
Lumens per Lamp: N/A
Luminaire Lumens: 41294.5 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 488.3
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: P476863
 CATALOG NUMBER: IFLD-L-SA8D-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

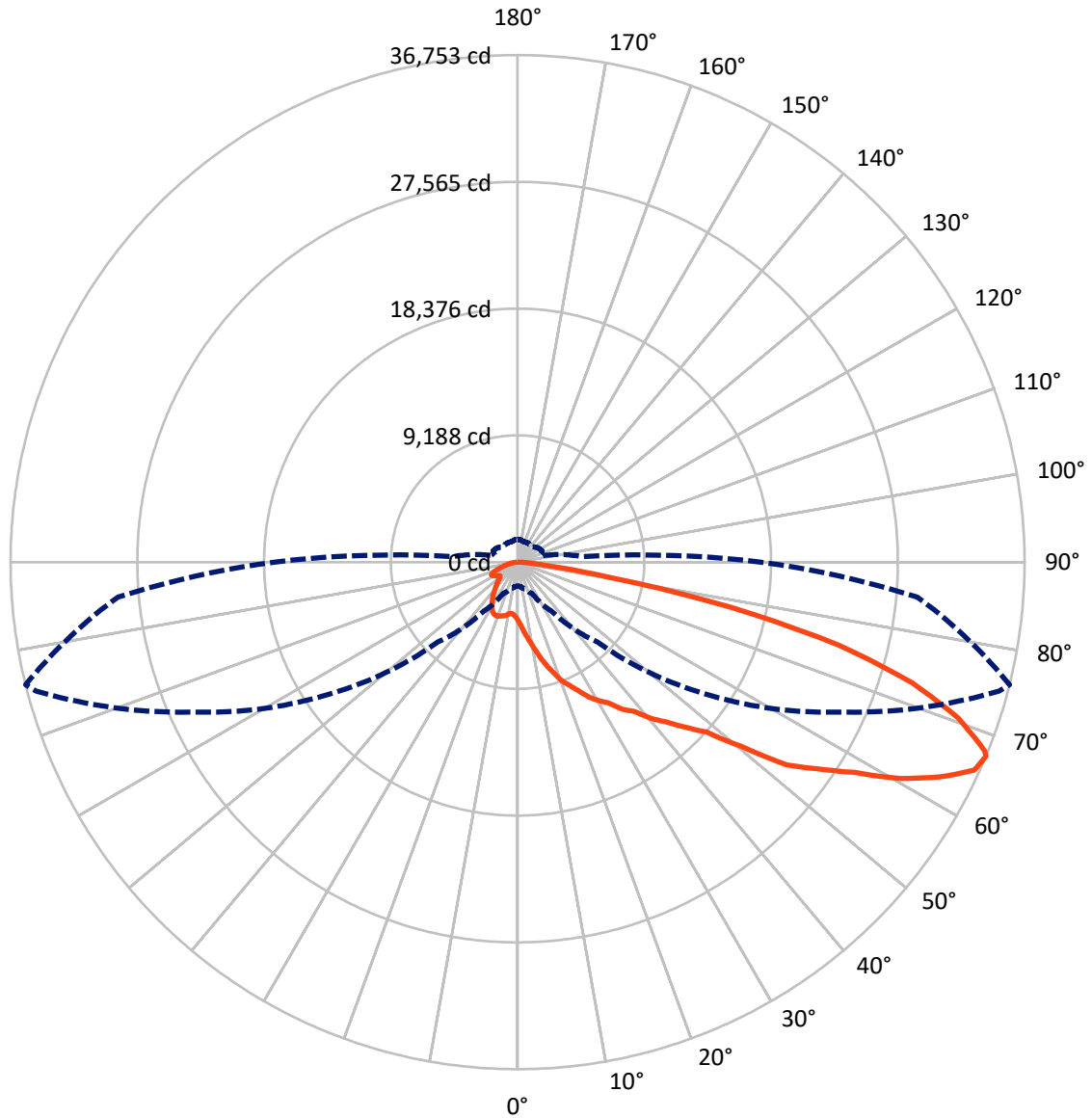
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type II - Medium - N/A

REPORT NUMBER: P476863
CATALOG NUMBER: IFLD-L-SA8D-722-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P476863
 CATALOG NUMBER: IFLD-L-SA8D-722-U-T2R

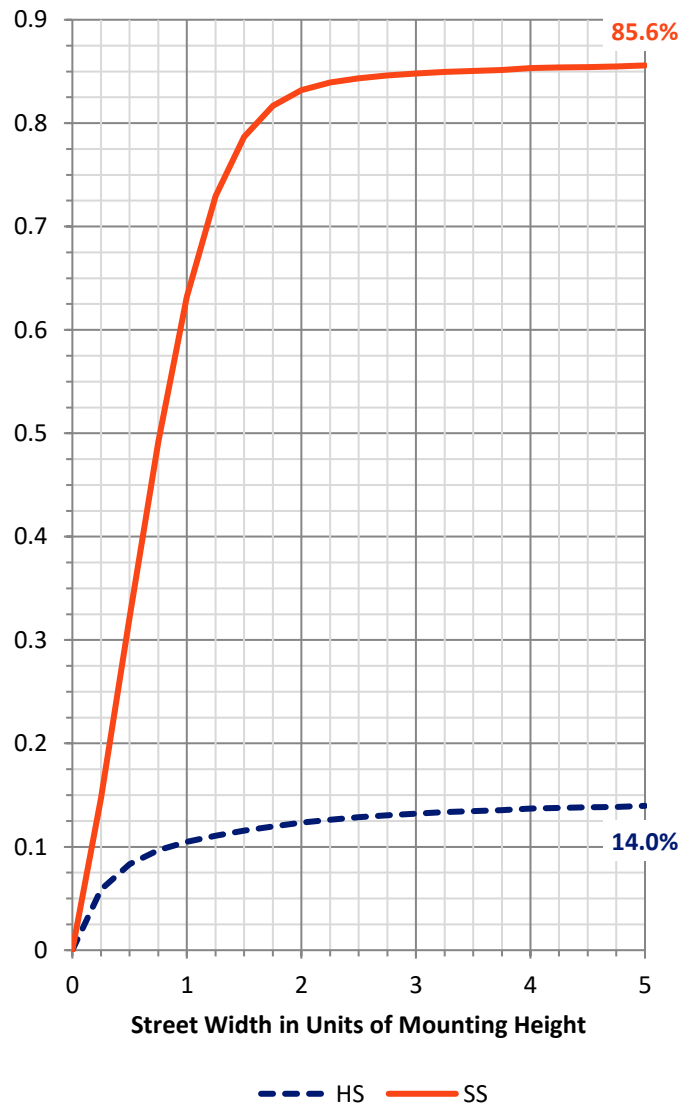
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5874.7 | 0.0 | 5874.7 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 35419.8 | 0.0 | 35419.8 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 41294.5 | 0.0 | 41294.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 489.5 | 1.2 |
| 10°-20° | 1835.9 | 4.4 |
| 20°-30° | 3413.2 | 8.3 |
| 30°-40° | 5410.7 | 13.1 |
| 40°-50° | 7483.4 | 18.1 |
| 50°-60° | 9205.1 | 22.3 |
| 60°-70° | 8565.8 | 20.7 |
| 70°-80° | 4298.3 | 10.4 |
| 80°-90° | 592.7 | 1.4 |
| 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° | 41294.5 | 100.0 |
| 0°-180° | 41294.5 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P476863

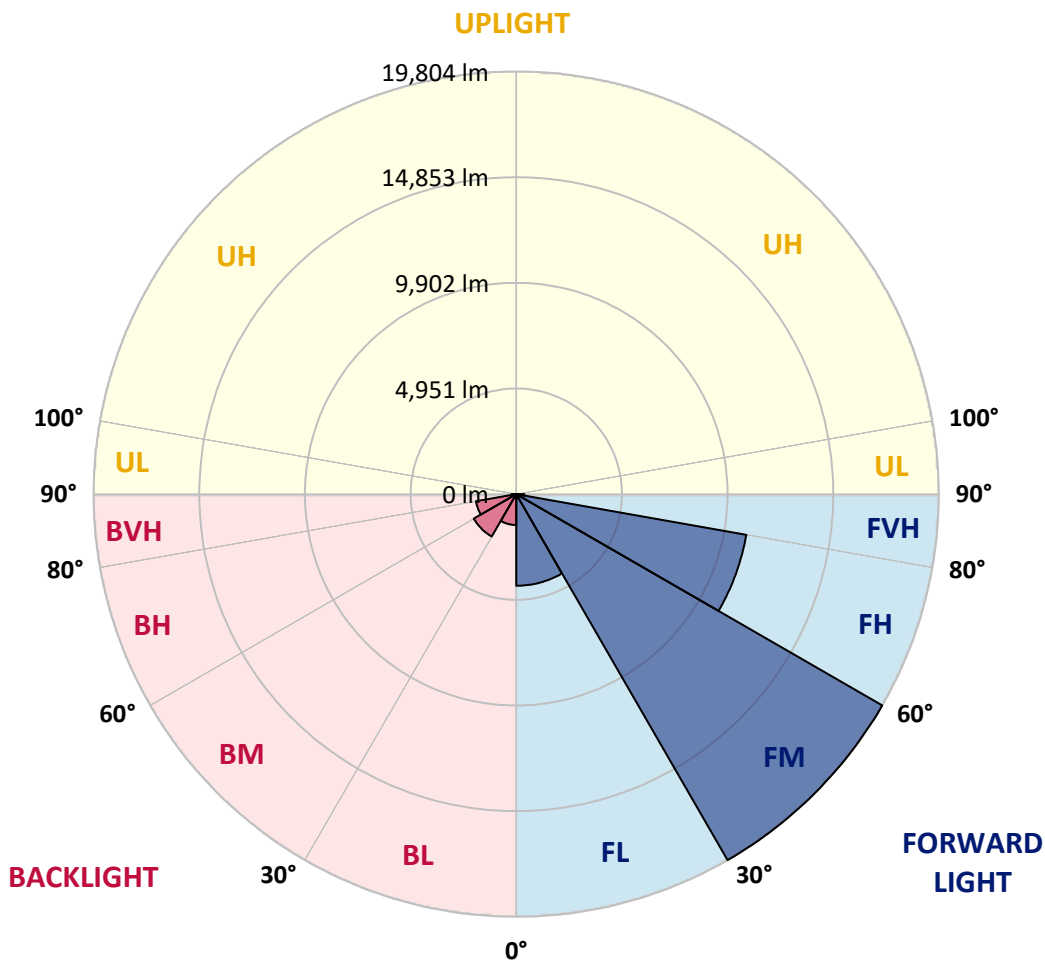
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4291.9 | 10.4 | | | |
| FM (30°-60°) | 19803.5 | 48.0 | | | |
| FH (60°-80°) | 10946.8 | 26.5 | | | G4/12000 |
| FVH (80°-90°) | 377.6 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1446.7 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 2295.7 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1917.2 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 215.1 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P476863

CATALOG NUMBER: IFLD-L-SA8D-722-U-T2R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 |
| 2.5° | 5863.5 | 5792.9 | 5722.3 | 5571.7 | 5520.0 | 5378.8 | 5120.0 | 4832.9 | 4597.6 | 4564.7 | 4400.0 |
| 5° | 7275.3 | 7171.7 | 7148.2 | 7063.5 | 6795.3 | 6522.3 | 6098.8 | 5637.6 | 5063.5 | 5105.9 | 4541.2 |
| 7.5° | 8334.1 | 8272.9 | 8145.8 | 8065.8 | 7905.8 | 7543.5 | 7105.8 | 6494.1 | 5764.7 | 5623.5 | 4856.4 |
| 10° | 9134.1 | 9049.4 | 9044.7 | 8974.1 | 8889.4 | 8517.6 | 8183.5 | 7360.0 | 6423.5 | 6230.6 | 5242.3 |
| 12.5° | 9538.8 | 9524.7 | 9774.1 | 9774.1 | 9741.1 | 9585.8 | 9011.7 | 8258.8 | 7049.4 | 6983.5 | 5689.4 |
| 15° | 9976.4 | 9858.8 | 10075.2 | 10239.9 | 10324.7 | 10404.7 | 9929.4 | 9134.1 | 7849.4 | 7722.3 | 6169.4 |
| 17.5° | 9976.4 | 9967.0 | 10183.5 | 10456.4 | 10898.8 | 11002.3 | 10743.5 | 9938.8 | 8512.9 | 8418.8 | 6696.4 |
| 20° | 9807.0 | 9943.5 | 10094.1 | 10461.1 | 10941.1 | 11359.9 | 11435.2 | 10762.3 | 9247.0 | 9171.7 | 7294.1 |
| 22.5° | 10597.6 | 10465.8 | 10621.1 | 10762.3 | 11134.1 | 11769.4 | 11976.4 | 11487.0 | 10018.8 | 9731.7 | 7835.3 |
| 25° | 11924.6 | 11835.2 | 11722.3 | 11515.2 | 11670.5 | 11948.2 | 12263.5 | 12023.5 | 10677.6 | 10357.6 | 8357.6 |
| 27.5° | 13218.8 | 13223.5 | 12978.8 | 12527.0 | 12192.9 | 12249.4 | 12621.1 | 12494.1 | 11232.9 | 11091.7 | 8715.3 |
| 30° | 15058.7 | 14945.8 | 14672.9 | 14061.1 | 13407.0 | 12870.5 | 12809.3 | 12931.7 | 11938.8 | 11665.8 | 9228.2 |
| 32.5° | 16437.6 | 16461.1 | 16075.2 | 15195.2 | 14301.1 | 13863.5 | 13327.0 | 13378.8 | 12385.8 | 12183.5 | 9637.6 |
| 35° | 17552.9 | 17524.6 | 17251.7 | 16522.3 | 15463.5 | 14936.4 | 14211.7 | 13915.2 | 13425.8 | 13105.8 | 10263.5 |
| 37.5° | 18757.6 | 18527.0 | 18084.6 | 17261.1 | 16583.4 | 15854.0 | 15148.2 | 14479.9 | 14117.6 | 13731.7 | 10799.9 |
| 40° | 19242.3 | 19242.3 | 18649.3 | 18272.9 | 17468.1 | 16917.6 | 16461.1 | 15223.5 | 14959.9 | 14884.6 | 11487.0 |
| 42.5° | 18898.7 | 19110.5 | 18865.8 | 18437.6 | 18108.1 | 17411.7 | 17289.3 | 15995.2 | 15999.9 | 15849.3 | 12310.5 |
| 45° | 18865.8 | 18574.0 | 18371.7 | 18479.9 | 18324.6 | 18287.0 | 18597.6 | 17063.4 | 17091.7 | 17072.9 | 13416.4 |
| 47.5° | 17919.9 | 17788.1 | 18089.3 | 18268.1 | 18395.2 | 18978.7 | 19872.8 | 18338.7 | 18541.1 | 18399.9 | 14691.7 |
| 50° | 16978.7 | 16955.2 | 17143.4 | 17792.9 | 18343.4 | 19303.4 | 21087.0 | 20305.8 | 20969.3 | 20959.9 | 17002.3 |
| 52.5° | 14399.9 | 14649.3 | 15388.2 | 16762.3 | 18122.3 | 19745.8 | 22004.6 | 22818.7 | 24084.6 | 24428.1 | 18917.6 |
| 55° | 11934.1 | 11802.3 | 12894.1 | 14889.3 | 17157.6 | 19919.9 | 23030.5 | 24329.3 | 26192.8 | 26442.2 | 20884.6 |
| 57.5° | 9284.7 | 9529.4 | 10390.5 | 12305.8 | 15162.3 | 19058.7 | 23783.4 | 25821.0 | 28574.0 | 28766.9 | 23166.9 |
| 60° | 6927.0 | 6960.0 | 7905.8 | 9449.4 | 12508.2 | 17115.2 | 24028.1 | 27350.5 | 31303.4 | 31854.0 | 25557.5 |
| 62.5° | 4357.6 | 4555.3 | 5275.3 | 6795.3 | 9416.4 | 14395.2 | 22931.7 | 28277.5 | 34164.5 | 34310.4 | 27966.9 |
| 65° | 2348.2 | 2475.3 | 3016.5 | 3971.7 | 6578.8 | 10889.4 | 20023.4 | 27722.2 | 35510.4 | 36376.3 | 29039.9 |
| 67° | 1736.5 | 1760.0 | 2009.4 | 2536.5 | 4400.0 | 8197.6 | 16696.4 | 25712.8 | 36122.2 | 36752.8 | 29082.2 |
| 67.5° | 1628.2 | 1661.2 | 1858.8 | 2277.6 | 3901.2 | 7548.2 | 15825.8 | 24997.5 | 35849.2 | 36526.9 | 28752.8 |
| 70° | 1392.9 | 1402.3 | 1449.4 | 1567.1 | 2188.2 | 4541.2 | 10776.4 | 20484.6 | 33228.1 | 33877.5 | 26442.2 |
| 72.5° | 1237.6 | 1247.1 | 1265.9 | 1289.4 | 1482.3 | 2625.9 | 6555.3 | 15764.6 | 28879.9 | 29915.1 | 22814.0 |
| 75° | 1087.1 | 1120.0 | 1129.4 | 1110.6 | 1261.2 | 1708.2 | 3487.0 | 11585.8 | 23557.5 | 24061.1 | 17741.1 |
| 77.5° | 922.3 | 936.5 | 955.3 | 974.1 | 1124.7 | 1275.3 | 1675.3 | 7821.1 | 16169.3 | 15863.5 | 9595.2 |
| 80° | 776.5 | 781.2 | 795.3 | 809.4 | 974.1 | 974.1 | 950.6 | 4225.9 | 7063.5 | 6752.9 | 3242.3 |
| 82.5° | 555.3 | 588.2 | 621.2 | 658.8 | 809.4 | 654.1 | 621.2 | 1882.3 | 2235.3 | 2127.0 | 1096.5 |
| 85° | 216.5 | 263.5 | 409.4 | 451.8 | 512.9 | 352.9 | 414.1 | 814.1 | 931.8 | 922.3 | 409.4 |
| 87.5° | 37.6 | 42.4 | 112.9 | 174.1 | 188.2 | 122.4 | 197.6 | 291.8 | 348.2 | 376.5 | 150.6 |
| 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: P476863
 CATALOG NUMBER: IFLD-L-SA8D-722-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 | 4225.9 |
| 2.5° | 4263.5 | 4117.6 | 3943.5 | 3769.4 | 3656.5 | 3477.6 | 3463.5 | 3355.3 | 3341.2 | 3303.5 | 3322.3 |
| 5° | 4296.4 | 4122.3 | 3769.4 | 3491.7 | 3364.7 | 3261.2 | 3284.7 | 3237.6 | 3223.5 | 3200.0 | 3162.3 |
| 7.5° | 4555.3 | 4211.7 | 3684.7 | 3444.7 | 3350.6 | 3303.5 | 3303.5 | 3247.0 | 3204.7 | 3232.9 | 3261.2 |
| 10° | 4724.7 | 4254.1 | 3750.6 | 3510.6 | 3435.3 | 3331.7 | 3369.4 | 3298.8 | 3322.3 | 3265.9 | 3265.9 |
| 12.5° | 4997.6 | 4494.1 | 3887.0 | 3609.4 | 3487.0 | 3392.9 | 3430.6 | 3350.6 | 3331.7 | 3336.5 | 3322.3 |
| 15° | 5364.7 | 4654.1 | 3948.2 | 3665.9 | 3581.2 | 3463.5 | 3435.3 | 3364.7 | 3294.1 | 3270.6 | 3298.8 |
| 17.5° | 5708.2 | 4851.7 | 3990.6 | 3698.8 | 3562.3 | 3430.6 | 3397.6 | 3308.2 | 3284.7 | 3214.1 | 3157.6 |
| 20° | 6117.6 | 5087.0 | 4047.0 | 3727.0 | 3491.7 | 3360.0 | 3275.3 | 3185.9 | 3105.9 | 3063.5 | 3082.3 |
| 22.5° | 6390.6 | 5209.4 | 4075.3 | 3670.6 | 3388.2 | 3265.9 | 3087.0 | 3025.9 | 2912.9 | 2865.9 | 2828.2 |
| 25° | 6837.6 | 5360.0 | 4004.7 | 3515.3 | 3204.7 | 3007.0 | 2847.0 | 2762.3 | 2682.3 | 2621.2 | 2602.3 |
| 27.5° | 6950.6 | 5472.9 | 3840.0 | 3251.7 | 2912.9 | 2705.9 | 2569.4 | 2465.9 | 2414.1 | 2320.0 | 2301.2 |
| 30° | 7280.0 | 5360.0 | 3595.3 | 2931.8 | 2635.3 | 2423.5 | 2287.0 | 2211.8 | 2089.4 | 2065.9 | 2014.1 |
| 32.5° | 7491.7 | 5392.9 | 3284.7 | 2621.2 | 2315.3 | 2127.0 | 2037.6 | 1962.3 | 1929.4 | 1816.5 | 1788.2 |
| 35° | 7844.7 | 5280.0 | 2969.4 | 2334.1 | 2051.8 | 1905.9 | 1830.6 | 1807.0 | 1698.8 | 1647.1 | 1600.0 |
| 37.5° | 8070.5 | 5214.1 | 2654.1 | 2009.4 | 1764.7 | 1703.5 | 1727.1 | 1628.2 | 1496.5 | 1397.6 | 1364.7 |
| 40° | 8465.8 | 5190.6 | 2296.5 | 1741.2 | 1567.1 | 1552.9 | 1628.2 | 1440.0 | 1200.0 | 1115.3 | 1068.2 |
| 42.5° | 9035.2 | 5030.6 | 2018.8 | 1501.2 | 1411.8 | 1472.9 | 1487.1 | 1200.0 | 1063.5 | 992.9 | 960.0 |
| 45° | 9581.1 | 5063.5 | 1745.9 | 1242.3 | 1228.2 | 1317.6 | 1284.7 | 1016.5 | 936.5 | 884.7 | 912.9 |
| 47.5° | 10630.5 | 5228.2 | 1477.6 | 1035.3 | 1105.9 | 1190.6 | 997.6 | 908.2 | 832.9 | 795.3 | 800.0 |
| 50° | 12254.1 | 5388.2 | 1242.3 | 945.9 | 1044.7 | 1077.6 | 856.5 | 823.5 | 818.8 | 743.5 | 738.8 |
| 52.5° | 13228.2 | 5327.0 | 1200.0 | 1058.8 | 1120.0 | 1077.6 | 931.8 | 908.2 | 870.6 | 837.6 | 800.0 |
| 55° | 14776.4 | 5505.9 | 1289.4 | 1237.6 | 1270.6 | 1035.3 | 1044.7 | 1035.3 | 1007.1 | 922.3 | 945.9 |
| 57.5° | 16009.3 | 5623.5 | 1407.1 | 1383.5 | 1364.7 | 1077.6 | 1091.8 | 1096.5 | 1077.6 | 1040.0 | 1072.9 |
| 60° | 17703.4 | 5858.8 | 1529.4 | 1534.1 | 1538.8 | 1171.8 | 1195.3 | 1223.5 | 1218.8 | 1204.7 | 1214.1 |
| 62.5° | 18743.4 | 5750.6 | 1665.9 | 1741.2 | 1717.6 | 1364.7 | 1360.0 | 1378.8 | 1378.8 | 1402.3 | 1416.5 |
| 65° | 18588.1 | 5350.6 | 1736.5 | 1924.7 | 1802.3 | 1505.9 | 1505.9 | 1515.3 | 1520.0 | 1567.1 | 1571.8 |
| 67° | 17656.4 | 4635.3 | 1698.8 | 1952.9 | 1802.3 | 1562.3 | 1562.3 | 1571.8 | 1538.8 | 1661.2 | 1623.5 |
| 67.5° | 17223.4 | 4423.5 | 1665.9 | 1929.4 | 1788.2 | 1557.6 | 1557.6 | 1562.3 | 1534.1 | 1651.8 | 1614.1 |
| 70° | 14978.7 | 3284.7 | 1435.3 | 1708.2 | 1656.5 | 1515.3 | 1515.3 | 1487.1 | 1463.5 | 1618.8 | 1585.9 |
| 72.5° | 12785.8 | 2385.9 | 1152.9 | 1454.1 | 1496.5 | 1458.8 | 1468.2 | 1397.6 | 1331.8 | 1440.0 | 1411.8 |
| 75° | 9792.9 | 1755.3 | 898.8 | 1120.0 | 1265.9 | 1364.7 | 1425.9 | 1247.1 | 1162.3 | 1190.6 | 1138.8 |
| 77.5° | 5463.5 | 1143.5 | 710.6 | 828.2 | 964.7 | 1270.6 | 1369.4 | 1124.7 | 950.6 | 917.6 | 917.6 |
| 80° | 1854.1 | 668.2 | 522.4 | 616.5 | 663.5 | 1124.7 | 1280.0 | 912.9 | 748.2 | 715.3 | 691.8 |
| 82.5° | 701.2 | 409.4 | 357.6 | 423.5 | 423.5 | 889.4 | 1044.7 | 701.2 | 564.7 | 729.4 | 743.5 |
| 85° | 320.0 | 244.7 | 235.3 | 244.7 | 244.7 | 545.9 | 738.8 | 456.5 | 508.2 | 437.6 | 385.9 |
| 87.5° | 127.1 | 117.6 | 108.2 | 103.5 | 84.7 | 94.1 | 254.1 | 122.4 | 230.6 | 61.2 | 56.5 |
| 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)