

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: P476885

Luminaire Tested: **IFLD-S-SA6B-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476885
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

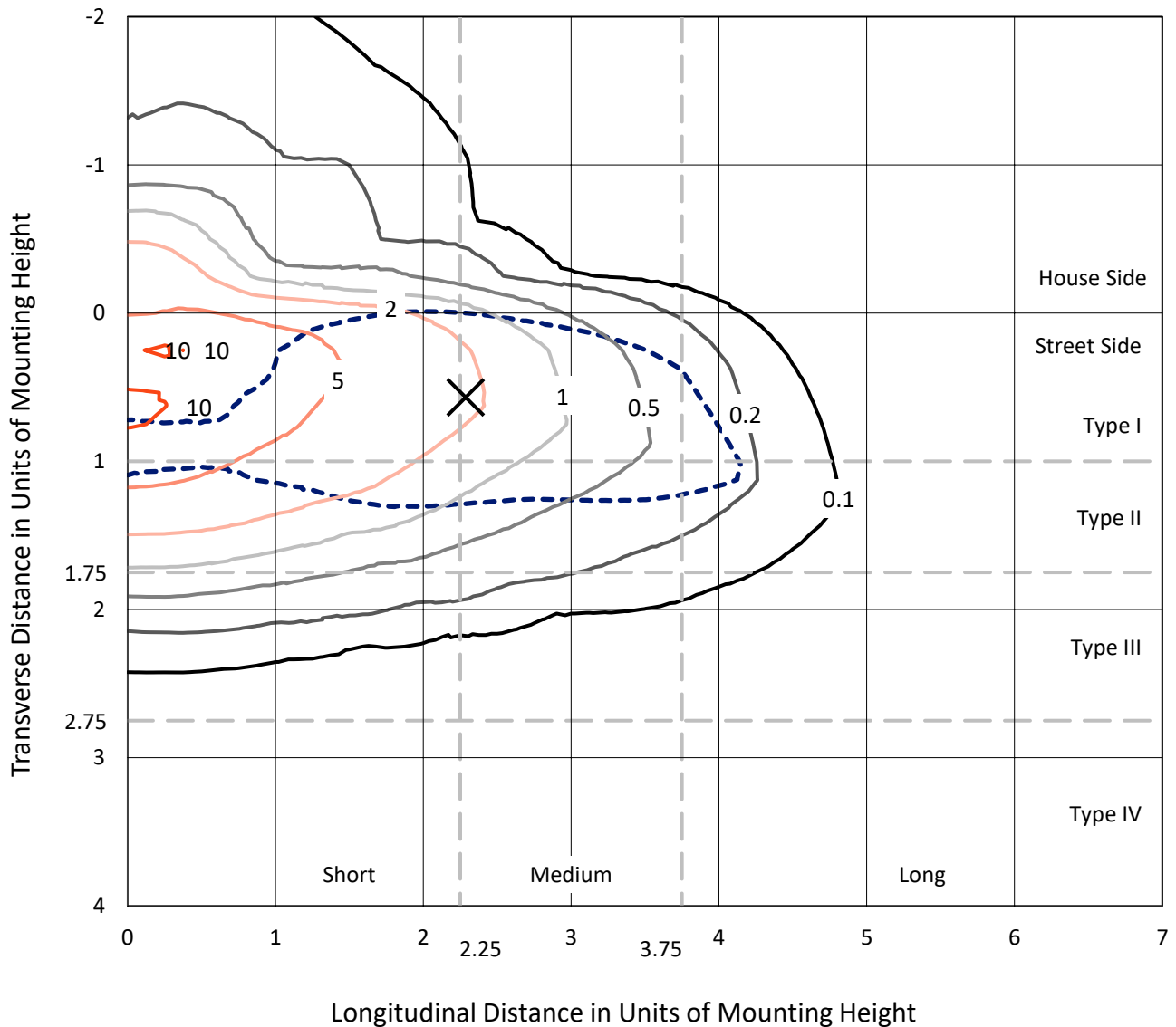
Lumens per Lamp: N/A
Luminaire Lumens: 28072.3 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 244.9
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: P476885
 CATALOG NUMBER: IFLD-S-SA6B-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

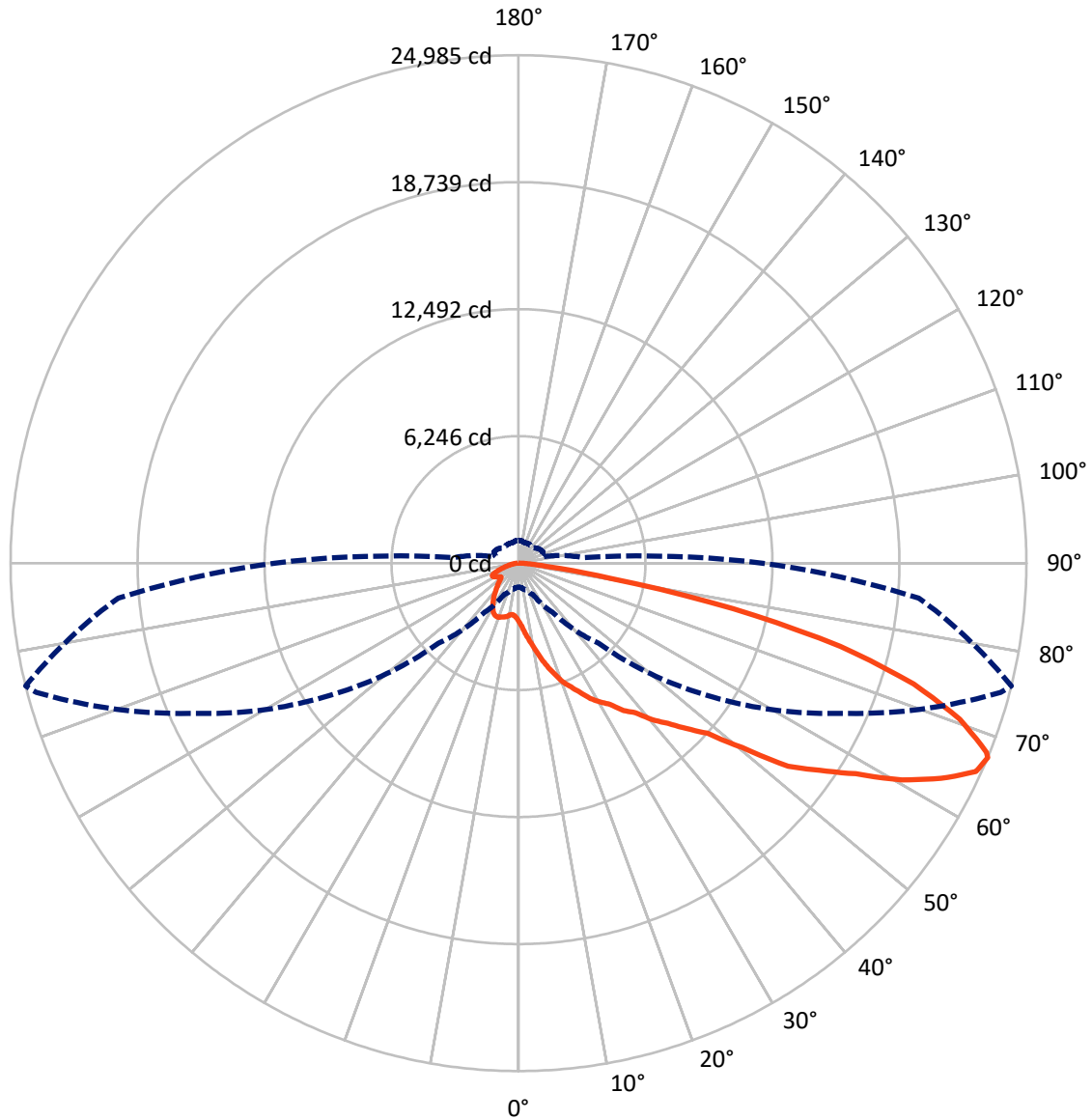
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P476885
CATALOG NUMBER: IFLD-S-SA6B-727-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476885
 CATALOG NUMBER: IFLD-S-SA6B-727-U-T2R

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3993.6 | 0.0 | 3993.6 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 24078.7 | 0.0 | 24078.7 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 28072.3 | 0.0 | 28072.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 332.8 | 1.2 |
| 10°-20° | 1248.1 | 4.4 |
| 20°-30° | 2320.3 | 8.3 |
| 30°-40° | 3678.2 | 13.1 |
| 40°-50° | 5087.3 | 18.1 |
| 50°-60° | 6257.7 | 22.3 |
| 60°-70° | 5823.1 | 20.7 |
| 70°-80° | 2922.0 | 10.4 |
| 80°-90° | 402.9 | 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° | 28072.3 | 100.0 |
| 0°-180° | 28072.3 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P476885

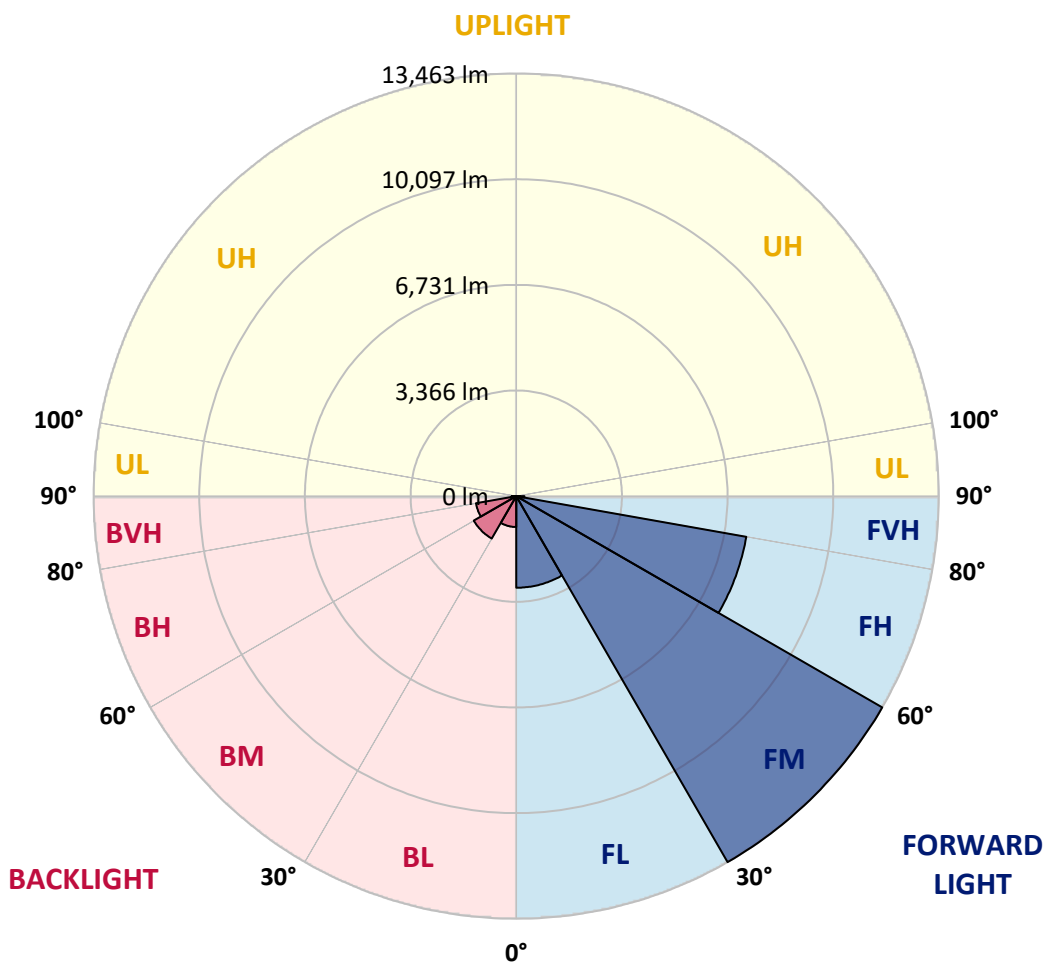
CATALOG NUMBER: IFLD-S-SA6B-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2917.7 | 10.4 | | | |
| FM (30°-60°) | 13462.6 | 48.0 | | | |
| FH (60°-80°) | 7441.7 | 26.5 | | | G3/7500 |
| FVH (80°-90°) | 256.7 | 0.9 | | | G3/500 |
| BL (0°-30°) | 983.5 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1560.6 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1303.3 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 146.2 | 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-G3

Type II Medium





REPORT NUMBER: P476885

CATALOG NUMBER: IFLD-S-SA6B-727-U-T2R

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 |
| 2.5° | 3986.1 | 3938.1 | 3890.1 | 3787.7 | 3752.5 | 3656.5 | 3480.6 | 3285.5 | 3125.5 | 3103.1 | 2991.1 |
| 5° | 4945.8 | 4875.4 | 4859.4 | 4801.8 | 4619.5 | 4433.9 | 4146.0 | 3832.5 | 3442.2 | 3471.0 | 3087.1 |
| 7.5° | 5665.6 | 5624.0 | 5537.6 | 5483.2 | 5374.5 | 5128.1 | 4830.6 | 4414.7 | 3918.9 | 3822.9 | 3301.4 |
| 10° | 6209.4 | 6151.8 | 6148.6 | 6100.6 | 6043.1 | 5790.3 | 5563.2 | 5003.4 | 4366.7 | 4235.6 | 3563.8 |
| 12.5° | 6484.5 | 6474.9 | 6644.5 | 6644.5 | 6622.1 | 6516.5 | 6126.2 | 5614.4 | 4792.2 | 4747.4 | 3867.7 |
| 15° | 6782.0 | 6702.1 | 6849.2 | 6961.2 | 7018.8 | 7073.2 | 6750.1 | 6209.4 | 5336.1 | 5249.7 | 4194.0 |
| 17.5° | 6782.0 | 6775.6 | 6922.8 | 7108.4 | 7409.1 | 7479.4 | 7303.5 | 6756.5 | 5787.1 | 5723.2 | 4552.3 |
| 20° | 6666.9 | 6759.7 | 6862.0 | 7111.6 | 7437.9 | 7722.6 | 7773.8 | 7316.3 | 6286.2 | 6235.0 | 4958.6 |
| 22.5° | 7204.3 | 7114.7 | 7220.3 | 7316.3 | 7569.0 | 8000.9 | 8141.7 | 7808.9 | 6810.8 | 6615.7 | 5326.5 |
| 25° | 8106.5 | 8045.7 | 7968.9 | 7828.1 | 7933.7 | 8122.5 | 8336.8 | 8173.6 | 7258.7 | 7041.2 | 5681.6 |
| 27.5° | 8986.2 | 8989.4 | 8823.1 | 8515.9 | 8288.8 | 8327.2 | 8579.9 | 8493.6 | 7636.2 | 7540.2 | 5924.7 |
| 30° | 10237.0 | 10160.3 | 9974.7 | 9558.8 | 9114.2 | 8749.5 | 8707.9 | 8791.1 | 8116.1 | 7930.5 | 6273.4 |
| 32.5° | 11174.4 | 11190.4 | 10928.1 | 10329.8 | 9722.0 | 9424.5 | 9059.8 | 9095.0 | 8420.0 | 8282.4 | 6551.7 |
| 35° | 11932.6 | 11913.4 | 11727.8 | 11232.0 | 10512.2 | 10153.9 | 9661.2 | 9459.7 | 9127.0 | 8909.4 | 6977.2 |
| 37.5° | 12751.5 | 12594.8 | 12294.1 | 11734.2 | 11273.6 | 10777.7 | 10297.8 | 9843.6 | 9597.2 | 9334.9 | 7341.9 |
| 40° | 13081.0 | 13081.0 | 12677.9 | 12422.0 | 11875.0 | 11500.7 | 11190.4 | 10349.0 | 10169.9 | 10118.7 | 7808.9 |
| 42.5° | 12847.5 | 12991.5 | 12825.1 | 12534.0 | 12310.1 | 11836.6 | 11753.4 | 10873.7 | 10876.9 | 10774.5 | 8368.8 |
| 45° | 12825.1 | 12626.8 | 12489.2 | 12562.8 | 12457.2 | 12431.6 | 12642.8 | 11599.9 | 11619.1 | 11606.3 | 9120.6 |
| 47.5° | 12182.1 | 12092.5 | 12297.3 | 12418.8 | 12505.2 | 12901.9 | 13509.7 | 12466.8 | 12604.4 | 12508.4 | 9987.5 |
| 50° | 11542.3 | 11526.3 | 11654.2 | 12095.7 | 12470.0 | 13122.6 | 14335.1 | 13804.0 | 14255.1 | 14248.7 | 11558.3 |
| 52.5° | 9789.2 | 9958.7 | 10461.0 | 11395.1 | 12319.6 | 13423.3 | 14958.9 | 15512.3 | 16372.9 | 16606.4 | 12860.3 |
| 55° | 8112.9 | 8023.3 | 8765.5 | 10121.9 | 11663.8 | 13541.7 | 15656.3 | 16539.2 | 17806.1 | 17975.6 | 14197.5 |
| 57.5° | 6311.8 | 6478.1 | 7063.6 | 8365.6 | 10307.4 | 12956.3 | 16168.1 | 17553.3 | 19424.8 | 19556.0 | 15749.1 |
| 60° | 4709.0 | 4731.4 | 5374.5 | 6423.7 | 8503.1 | 11635.0 | 16334.5 | 18593.0 | 21280.3 | 21654.6 | 17374.2 |
| 62.5° | 2962.3 | 3096.7 | 3586.2 | 4619.5 | 6401.4 | 9786.0 | 15589.1 | 19223.3 | 23225.3 | 23324.5 | 19012.1 |
| 65° | 1596.3 | 1682.7 | 2050.6 | 2700.0 | 4472.3 | 7402.7 | 13612.1 | 18845.8 | 24140.2 | 24728.9 | 19741.5 |
| 67° | 1180.5 | 1196.5 | 1366.0 | 1724.3 | 2991.1 | 5572.8 | 11350.3 | 17479.8 | 24556.1 | 24984.8 | 19770.3 |
| 67.5° | 1106.9 | 1129.3 | 1263.6 | 1548.4 | 2652.0 | 5131.3 | 10758.5 | 16993.5 | 24370.6 | 24831.2 | 19546.4 |
| 70° | 946.9 | 953.3 | 985.3 | 1065.3 | 1487.6 | 3087.1 | 7325.9 | 13925.6 | 22588.7 | 23030.2 | 17975.6 |
| 72.5° | 841.4 | 847.8 | 860.6 | 876.5 | 1007.7 | 1785.1 | 4456.3 | 10716.9 | 19632.7 | 20336.5 | 15509.1 |
| 75° | 739.0 | 761.4 | 767.8 | 755.0 | 857.4 | 1161.3 | 2370.5 | 7876.1 | 16014.6 | 16356.9 | 12060.5 |
| 77.5° | 627.0 | 636.6 | 649.4 | 662.2 | 764.6 | 867.0 | 1138.9 | 5316.9 | 10992.0 | 10784.1 | 6522.9 |
| 80° | 527.8 | 531.0 | 540.6 | 550.2 | 662.2 | 662.2 | 646.2 | 2872.8 | 4801.8 | 4590.7 | 2204.2 |
| 82.5° | 377.5 | 399.9 | 422.3 | 447.9 | 550.2 | 444.7 | 422.3 | 1279.6 | 1519.6 | 1446.0 | 745.4 |
| 85° | 147.2 | 179.1 | 278.3 | 307.1 | 348.7 | 239.9 | 281.5 | 553.4 | 633.4 | 627.0 | 278.3 |
| 87.5° | 25.6 | 28.8 | 76.8 | 118.4 | 128.0 | 83.2 | 134.4 | 198.3 | 236.7 | 255.9 | 102.4 |
| 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: P476885
 CATALOG NUMBER: IFLD-S-SA6B-727-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 | 2872.8 |
| 2.5° | 2898.4 | 2799.2 | 2680.8 | 2562.5 | 2485.7 | 2364.1 | 2354.5 | 2280.9 | 2271.3 | 2245.8 | 2258.5 |
| 5° | 2920.8 | 2802.4 | 2562.5 | 2373.7 | 2287.3 | 2217.0 | 2233.0 | 2201.0 | 2191.4 | 2175.4 | 2149.8 |
| 7.5° | 3096.7 | 2863.2 | 2504.9 | 2341.7 | 2277.7 | 2245.8 | 2245.8 | 2207.4 | 2178.6 | 2197.8 | 2217.0 |
| 10° | 3211.9 | 2892.0 | 2549.7 | 2386.5 | 2335.3 | 2264.9 | 2290.5 | 2242.6 | 2258.5 | 2220.2 | 2220.2 |
| 12.5° | 3397.4 | 3055.1 | 2642.4 | 2453.7 | 2370.5 | 2306.5 | 2332.1 | 2277.7 | 2264.9 | 2268.1 | 2258.5 |
| 15° | 3646.9 | 3163.9 | 2684.0 | 2492.1 | 2434.5 | 2354.5 | 2335.3 | 2287.3 | 2239.4 | 2223.4 | 2242.6 |
| 17.5° | 3880.5 | 3298.2 | 2712.8 | 2514.5 | 2421.7 | 2332.1 | 2309.7 | 2249.0 | 2233.0 | 2185.0 | 2146.6 |
| 20° | 4158.8 | 3458.2 | 2751.2 | 2533.7 | 2373.7 | 2284.1 | 2226.6 | 2165.8 | 2111.4 | 2082.6 | 2095.4 |
| 22.5° | 4344.3 | 3541.4 | 2770.4 | 2495.3 | 2303.3 | 2220.2 | 2098.6 | 2057.0 | 1980.2 | 1948.2 | 1922.6 |
| 25° | 4648.3 | 3643.7 | 2722.4 | 2389.7 | 2178.6 | 2044.2 | 1935.4 | 1877.9 | 1823.5 | 1781.9 | 1769.1 |
| 27.5° | 4725.0 | 3720.5 | 2610.4 | 2210.6 | 1980.2 | 1839.5 | 1746.7 | 1676.3 | 1641.1 | 1577.1 | 1564.3 |
| 30° | 4949.0 | 3643.7 | 2444.1 | 1993.0 | 1791.5 | 1647.5 | 1554.8 | 1503.6 | 1420.4 | 1404.4 | 1369.2 |
| 32.5° | 5092.9 | 3666.1 | 2233.0 | 1781.9 | 1573.9 | 1446.0 | 1385.2 | 1334.0 | 1311.6 | 1234.8 | 1215.6 |
| 35° | 5332.9 | 3589.4 | 2018.6 | 1586.7 | 1394.8 | 1295.6 | 1244.4 | 1228.4 | 1154.9 | 1119.7 | 1087.7 |
| 37.5° | 5486.4 | 3544.6 | 1804.3 | 1366.0 | 1199.7 | 1158.1 | 1174.1 | 1106.9 | 1017.3 | 950.1 | 927.7 |
| 40° | 5755.1 | 3528.6 | 1561.2 | 1183.7 | 1065.3 | 1055.7 | 1106.9 | 978.9 | 815.8 | 758.2 | 726.2 |
| 42.5° | 6142.2 | 3419.8 | 1372.4 | 1020.5 | 959.7 | 1001.3 | 1010.9 | 815.8 | 723.0 | 675.0 | 652.6 |
| 45° | 6513.3 | 3442.2 | 1186.9 | 844.6 | 835.0 | 895.7 | 873.3 | 691.0 | 636.6 | 601.4 | 620.6 |
| 47.5° | 7226.7 | 3554.2 | 1004.5 | 703.8 | 751.8 | 809.4 | 678.2 | 617.4 | 566.2 | 540.6 | 543.8 |
| 50° | 8330.4 | 3662.9 | 844.6 | 643.0 | 710.2 | 732.6 | 582.2 | 559.8 | 556.6 | 505.5 | 502.3 |
| 52.5° | 8992.6 | 3621.4 | 815.8 | 719.8 | 761.4 | 732.6 | 633.4 | 617.4 | 591.8 | 569.4 | 543.8 |
| 55° | 10045.1 | 3742.9 | 876.5 | 841.4 | 863.8 | 703.8 | 710.2 | 703.8 | 684.6 | 627.0 | 643.0 |
| 57.5° | 10883.3 | 3822.9 | 956.5 | 940.5 | 927.7 | 732.6 | 742.2 | 745.4 | 732.6 | 707.0 | 729.4 |
| 60° | 12034.9 | 3982.9 | 1039.7 | 1042.9 | 1046.1 | 796.6 | 812.6 | 831.8 | 828.6 | 819.0 | 825.4 |
| 62.5° | 12741.9 | 3909.3 | 1132.5 | 1183.7 | 1167.7 | 927.7 | 924.5 | 937.3 | 937.3 | 953.3 | 962.9 |
| 65° | 12636.4 | 3637.4 | 1180.5 | 1308.4 | 1225.2 | 1023.7 | 1023.7 | 1030.1 | 1033.3 | 1065.3 | 1068.5 |
| 67° | 12002.9 | 3151.1 | 1154.9 | 1327.6 | 1225.2 | 1062.1 | 1062.1 | 1068.5 | 1046.1 | 1129.3 | 1103.7 |
| 67.5° | 11708.6 | 3007.1 | 1132.5 | 1311.6 | 1215.6 | 1058.9 | 1058.9 | 1062.1 | 1042.9 | 1122.9 | 1097.3 |
| 70° | 10182.7 | 2233.0 | 975.7 | 1161.3 | 1126.1 | 1030.1 | 1030.1 | 1010.9 | 994.9 | 1100.5 | 1078.1 |
| 72.5° | 8691.9 | 1621.9 | 783.8 | 988.5 | 1017.3 | 991.7 | 998.1 | 950.1 | 905.3 | 978.9 | 959.7 |
| 75° | 6657.3 | 1193.3 | 611.0 | 761.4 | 860.6 | 927.7 | 969.3 | 847.8 | 790.2 | 809.4 | 774.2 |
| 77.5° | 3714.1 | 777.4 | 483.1 | 563.0 | 655.8 | 863.8 | 930.9 | 764.6 | 646.2 | 623.8 | 623.8 |
| 80° | 1260.4 | 454.3 | 355.1 | 419.1 | 451.1 | 764.6 | 870.1 | 620.6 | 508.7 | 486.3 | 470.3 |
| 82.5° | 476.7 | 278.3 | 243.1 | 287.9 | 287.9 | 604.6 | 710.2 | 476.7 | 383.9 | 495.9 | 505.5 |
| 85° | 217.5 | 166.4 | 160.0 | 166.4 | 166.4 | 371.1 | 502.3 | 310.3 | 345.5 | 297.5 | 262.3 |
| 87.5° | 86.4 | 80.0 | 73.6 | 70.4 | 57.6 | 64.0 | 172.8 | 83.2 | 156.8 | 41.6 | 38.4 |
| 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)