

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: P476507

Luminaire Tested: **IFLD-L-SA7D-727-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476507
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

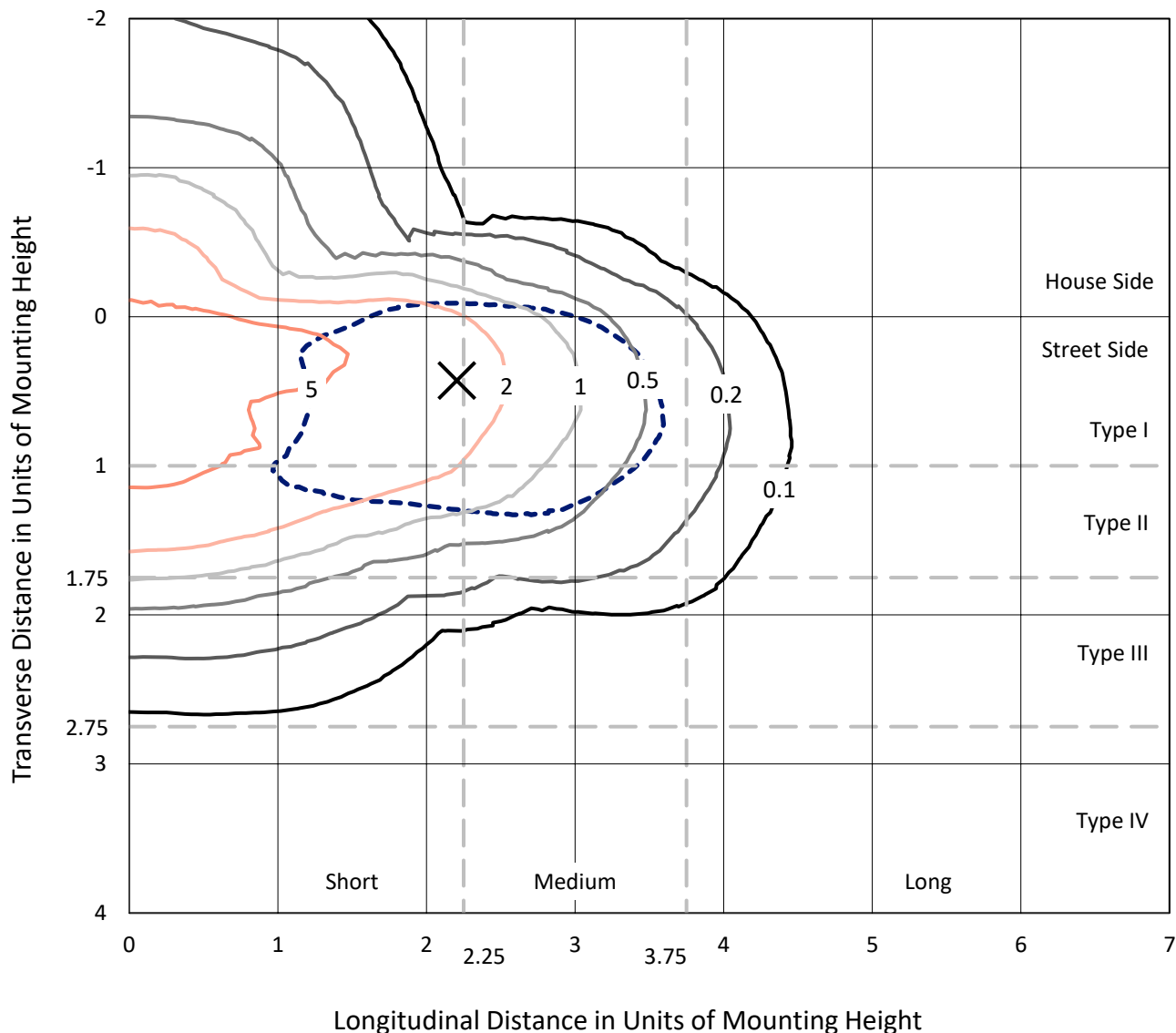
Lumens per Lamp: N/A
Luminaire Lumens: 40744.7 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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: P476507
 CATALOG NUMBER: IFLD-L-SA7D-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

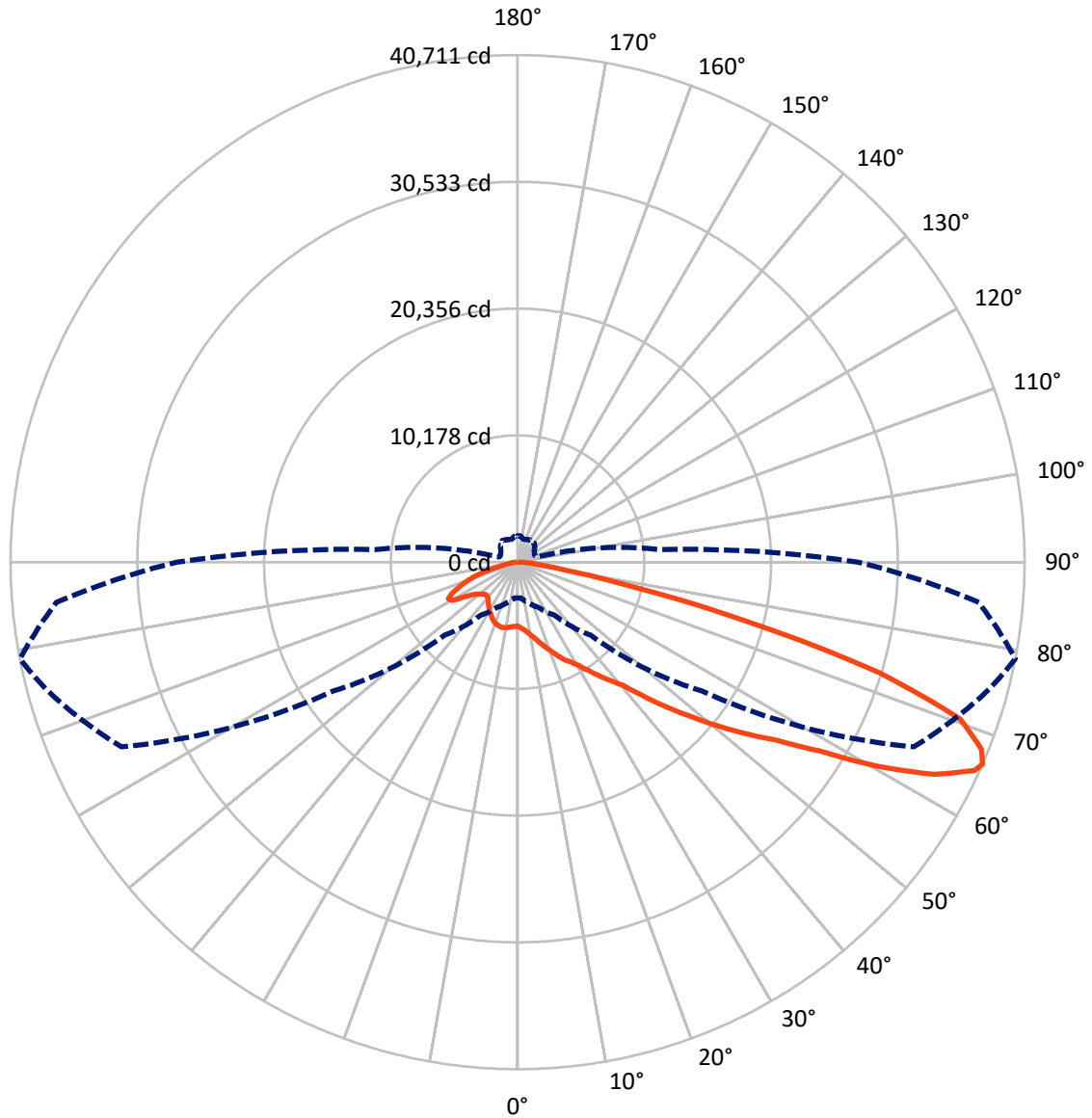
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

REPORT NUMBER: P476507
CATALOG NUMBER: IFLD-L-SA7D-727-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476507
 CATALOG NUMBER: IFLD-L-SA7D-727-U-T2

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8227.8 | 0.0 | 8227.8 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 32516.9 | 0.0 | 32516.9 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 40744.7 | 0.0 | 40744.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 505.9 | 1.2 |
| 10°-20° | 1562.2 | 3.8 |
| 20°-30° | 2681.6 | 6.6 |
| 30°-40° | 4142.5 | 10.2 |
| 40°-50° | 6635.2 | 16.3 |
| 50°-60° | 9906.8 | 24.3 |
| 60°-70° | 10179.2 | 25.0 |
| 70°-80° | 4512.3 | 11.1 |
| 80°-90° | 619.1 | 1.5 |
| 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° | 40744.7 | 100.0 |
| 0°-180° | 40744.7 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P476507

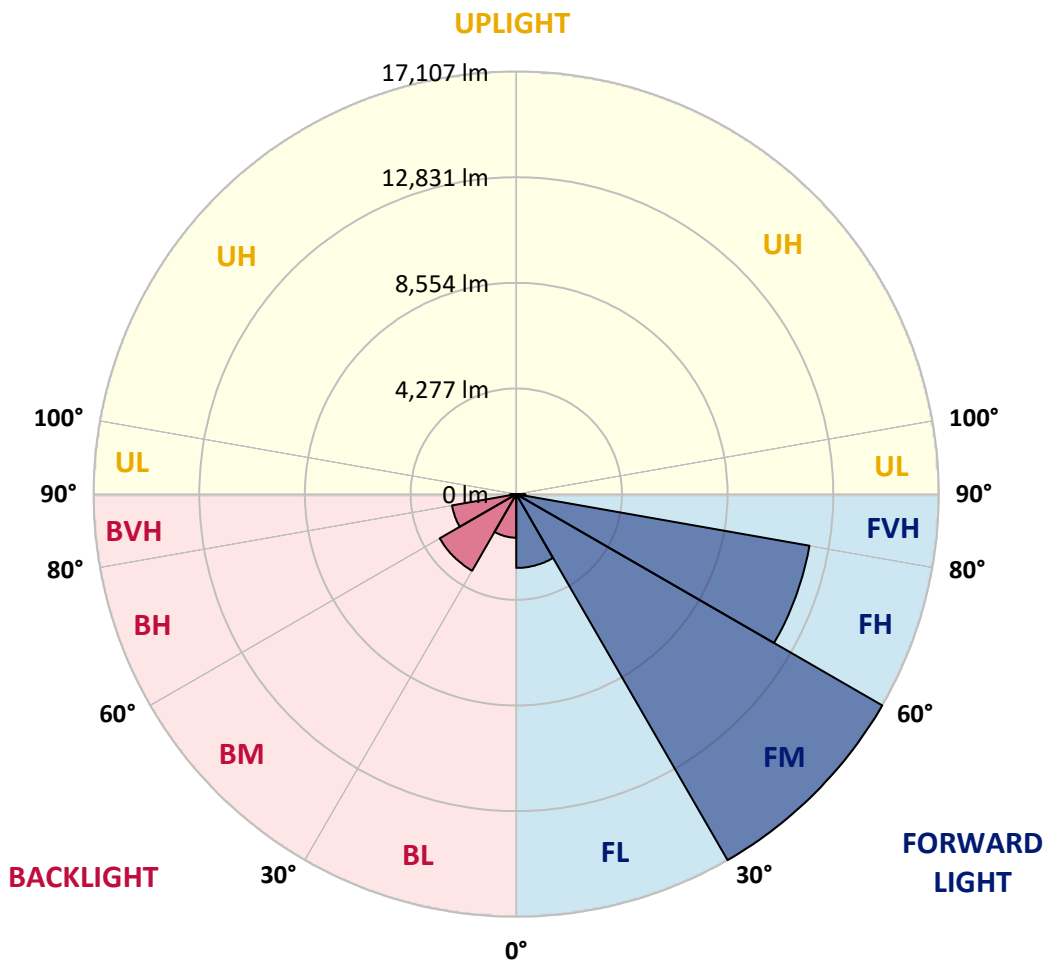
CATALOG NUMBER: IFLD-L-SA7D-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2986.8 | 7.3 | | | |
| FM (30°-60°) | 17107.3 | 42.0 | | | |
| FH (60°-80°) | 12051.4 | 29.6 | | | G5 |
| FVH (80°-90°) | 371.3 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1762.8 | 4.3 | B3/2500 | | |
| BM (30°-60°) | 3577.1 | 8.8 | B3/5000 | | |
| BH (60°-80°) | 2640.1 | 6.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 247.8 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type II Short





REPORT NUMBER: P476507

CATALOG NUMBER: IFLD-L-SA7D-727-U-T2

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 |
| 2.5° | 5472.1 | 5476.6 | 5476.6 | 5458.6 | 5463.1 | 5476.6 | 5427.3 | 5319.7 | 5319.7 | 5301.8 | 5270.4 |
| 5° | 5808.2 | 5785.8 | 5754.4 | 5758.9 | 5741.0 | 5741.0 | 5687.2 | 5584.1 | 5494.5 | 5458.6 | 5364.5 |
| 7.5° | 5853.0 | 5875.4 | 5871.0 | 5924.7 | 5951.6 | 5951.6 | 5978.5 | 5893.4 | 5758.9 | 5673.8 | 5579.6 |
| 10° | 5942.7 | 5884.4 | 5879.9 | 6005.4 | 6045.7 | 6139.9 | 6247.4 | 6202.6 | 6090.6 | 5969.5 | 5844.1 |
| 12.5° | 5996.4 | 6032.3 | 6032.3 | 6095.0 | 6189.1 | 6328.1 | 6516.3 | 6601.5 | 6426.7 | 6301.2 | 6108.5 |
| 15° | 6077.1 | 6027.8 | 6171.2 | 6225.0 | 6404.3 | 6502.9 | 6771.8 | 6991.4 | 6874.8 | 6722.5 | 6417.7 |
| 17.5° | 6113.0 | 6081.6 | 6162.3 | 6260.9 | 6565.6 | 6713.5 | 7040.7 | 7345.4 | 7246.8 | 7148.2 | 6834.5 |
| 20° | 6296.7 | 6292.2 | 6328.1 | 6408.7 | 6628.3 | 6919.7 | 7327.5 | 7748.8 | 7784.6 | 7605.3 | 7179.6 |
| 22.5° | 6744.9 | 6686.6 | 6686.6 | 6655.2 | 6749.4 | 7049.6 | 7600.9 | 8183.5 | 8344.8 | 8134.2 | 7569.5 |
| 25° | 7157.2 | 7237.9 | 7188.6 | 7045.1 | 7009.3 | 7166.1 | 7798.1 | 8645.1 | 8860.2 | 8663.0 | 8098.3 |
| 27.5° | 7686.0 | 7712.9 | 7798.1 | 7605.3 | 7358.9 | 7408.2 | 8013.2 | 8905.0 | 9348.7 | 9084.3 | 8398.6 |
| 30° | 8447.9 | 8398.6 | 8380.7 | 8165.6 | 7842.9 | 7775.7 | 8259.7 | 9286.0 | 9989.6 | 9617.6 | 8752.6 |
| 32.5° | 8963.3 | 9084.3 | 9079.8 | 8784.0 | 8394.1 | 8246.2 | 8564.4 | 9644.5 | 10675.3 | 10330.2 | 9407.0 |
| 35° | 9985.1 | 10110.6 | 10012.0 | 9577.3 | 9120.1 | 8824.4 | 9003.6 | 10110.6 | 11459.6 | 11190.7 | 9962.7 |
| 37.5° | 11289.3 | 11585.0 | 11374.4 | 10572.2 | 9926.8 | 9604.2 | 9613.1 | 10617.0 | 12261.8 | 12042.2 | 10558.8 |
| 40° | 12190.1 | 12588.9 | 12297.6 | 11544.7 | 10859.0 | 10554.3 | 10433.3 | 11217.6 | 13220.8 | 12987.8 | 11490.9 |
| 42.5° | 13306.0 | 13637.6 | 13485.3 | 12741.3 | 11939.1 | 11679.2 | 11437.2 | 12221.4 | 14686.3 | 14578.8 | 12687.5 |
| 45° | 14525.0 | 14681.9 | 14632.6 | 14162.0 | 13270.1 | 13180.5 | 12647.2 | 13543.5 | 16411.8 | 16456.6 | 14184.4 |
| 47.5° | 15658.9 | 15744.0 | 15838.1 | 15497.5 | 14941.8 | 15018.0 | 14041.0 | 14959.7 | 18087.9 | 18383.7 | 15851.6 |
| 50° | 15950.2 | 16241.5 | 16461.1 | 16689.6 | 16810.6 | 17326.0 | 15578.2 | 16698.6 | 20015.0 | 20588.7 | 17707.0 |
| 52.5° | 15654.4 | 15632.0 | 16299.7 | 17016.8 | 18226.8 | 19306.9 | 17671.1 | 18858.8 | 21718.0 | 22851.9 | 19405.5 |
| 55° | 14309.9 | 14265.1 | 15340.7 | 16290.8 | 18652.6 | 20409.4 | 20660.4 | 21736.0 | 23775.1 | 25249.6 | 21704.6 |
| 57.5° | 11957.0 | 11679.2 | 12853.4 | 14413.0 | 17729.4 | 20530.4 | 23663.1 | 26007.0 | 26939.2 | 28619.8 | 25213.7 |
| 60° | 8035.6 | 7919.1 | 9044.0 | 10903.8 | 14395.0 | 18813.9 | 25460.2 | 31353.6 | 31398.4 | 33289.6 | 30658.9 |
| 62.5° | 4947.7 | 4970.1 | 5691.7 | 7085.5 | 10079.2 | 14914.9 | 24684.9 | 35624.6 | 35633.5 | 37529.3 | 35140.6 |
| 65° | 3235.7 | 3249.2 | 3831.8 | 4602.6 | 6296.7 | 10115.1 | 20413.9 | 35960.7 | 38578.0 | 40339.3 | 37193.2 |
| 66° | 2881.7 | 2886.2 | 3388.1 | 4015.6 | 5216.6 | 8277.6 | 18029.6 | 35086.8 | 39241.3 | 40711.2 | 37166.3 |
| 67.5° | 2429.1 | 2487.3 | 2890.7 | 3374.7 | 4069.3 | 5947.1 | 14305.4 | 32559.1 | 38900.7 | 40191.4 | 36323.7 |
| 70° | 1900.2 | 1931.6 | 2249.8 | 2742.8 | 3052.0 | 3441.9 | 8501.7 | 26540.3 | 35606.7 | 37699.6 | 33258.3 |
| 72.5° | 1523.8 | 1550.6 | 1792.7 | 2227.4 | 2478.3 | 2267.7 | 4629.5 | 19257.6 | 28126.8 | 30358.6 | 26159.3 |
| 75° | 1286.2 | 1290.7 | 1407.2 | 1752.3 | 2039.1 | 1703.0 | 2464.9 | 12360.4 | 18047.6 | 19087.3 | 16026.4 |
| 77.5° | 1039.7 | 1057.7 | 1138.3 | 1335.5 | 1640.3 | 1340.0 | 1470.0 | 6924.1 | 9061.9 | 9138.1 | 7408.2 |
| 80° | 847.0 | 856.0 | 905.3 | 972.5 | 1250.4 | 990.4 | 994.9 | 3379.2 | 3885.6 | 3796.0 | 3011.7 |
| 82.5° | 667.8 | 676.7 | 735.0 | 721.5 | 918.7 | 708.1 | 618.5 | 1626.8 | 1788.2 | 1752.3 | 1384.8 |
| 85° | 376.5 | 376.5 | 578.1 | 578.1 | 582.6 | 448.2 | 376.5 | 766.4 | 945.6 | 882.9 | 649.8 |
| 87.5° | 121.0 | 125.5 | 174.8 | 183.7 | 291.3 | 201.7 | 183.7 | 286.8 | 448.2 | 394.4 | 233.0 |
| 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: P476507
 CATALOG NUMBER: IFLD-L-SA7D-727-U-T2

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 | 5144.9 |
| 2.5° | 5252.5 | 5180.8 | 5149.4 | 5046.3 | 5019.4 | 4952.2 | 4920.8 | 4880.5 | 4867.1 | 4808.8 | 4862.6 |
| 5° | 5292.8 | 5270.4 | 5144.9 | 5015.0 | 4916.4 | 4871.5 | 4804.3 | 4714.7 | 4705.7 | 4625.1 | 4616.1 |
| 7.5° | 5463.1 | 5386.9 | 5167.3 | 5028.4 | 4831.2 | 4719.2 | 4571.3 | 4526.5 | 4468.2 | 4441.3 | 4499.6 |
| 10° | 5727.5 | 5534.8 | 5207.7 | 4858.1 | 4616.1 | 4481.6 | 4374.1 | 4342.7 | 4347.2 | 4329.3 | 4302.4 |
| 12.5° | 5915.8 | 5732.0 | 5140.4 | 4714.7 | 4401.0 | 4271.0 | 4262.0 | 4293.4 | 4342.7 | 4320.3 | 4351.7 |
| 15° | 6184.7 | 5839.6 | 5091.1 | 4477.2 | 4226.2 | 4190.3 | 4185.9 | 4280.0 | 4275.5 | 4275.5 | 4271.0 |
| 17.5° | 6435.6 | 5947.1 | 4911.9 | 4271.0 | 4042.4 | 4069.3 | 4100.7 | 4096.2 | 4141.0 | 4159.0 | 4190.3 |
| 20° | 6753.8 | 6072.6 | 4660.9 | 4064.9 | 3903.5 | 3894.5 | 3890.1 | 3894.5 | 3939.4 | 3966.3 | 3943.8 |
| 22.5° | 7031.7 | 6099.5 | 4450.3 | 3867.7 | 3737.7 | 3701.8 | 3643.6 | 3701.8 | 3679.4 | 3688.4 | 3715.3 |
| 25° | 7273.7 | 6104.0 | 4150.0 | 3719.8 | 3571.9 | 3491.2 | 3446.4 | 3441.9 | 3401.6 | 3397.1 | 3397.1 |
| 27.5° | 7475.4 | 5951.6 | 3885.6 | 3513.6 | 3374.7 | 3298.5 | 3294.0 | 3244.7 | 3141.6 | 3074.4 | 3083.4 |
| 30° | 7632.2 | 5835.1 | 3701.8 | 3334.3 | 3199.9 | 3186.4 | 3146.1 | 3034.1 | 2899.6 | 2814.5 | 2814.5 |
| 32.5° | 7910.1 | 5602.1 | 3450.9 | 3150.6 | 3083.4 | 3065.4 | 2971.3 | 2872.7 | 2747.2 | 2666.6 | 2653.1 |
| 35° | 8116.3 | 5386.9 | 3285.0 | 2993.7 | 2962.4 | 2926.5 | 2845.8 | 2738.3 | 2702.4 | 2684.5 | 2697.9 |
| 37.5° | 8349.3 | 5144.9 | 3083.4 | 2859.3 | 2890.7 | 2823.4 | 2729.3 | 2680.0 | 2805.5 | 2774.1 | 2787.6 |
| 40° | 8721.3 | 4974.6 | 2886.2 | 2778.6 | 2810.0 | 2733.8 | 2612.8 | 2594.9 | 2751.7 | 2639.7 | 2612.8 |
| 42.5° | 9402.5 | 4970.1 | 2765.2 | 2657.6 | 2680.0 | 2621.8 | 2514.2 | 2505.2 | 2568.0 | 2433.5 | 2393.2 |
| 45° | 10249.5 | 5127.0 | 2675.5 | 2568.0 | 2550.1 | 2541.1 | 2505.2 | 2464.9 | 2411.1 | 2236.3 | 2191.5 |
| 47.5° | 11262.4 | 5382.5 | 2657.6 | 2433.5 | 2455.9 | 2532.1 | 2487.3 | 2384.2 | 2245.3 | 2133.3 | 2110.9 |
| 50° | 12490.3 | 5911.3 | 2612.8 | 2334.9 | 2375.3 | 2496.3 | 2460.4 | 2317.0 | 2191.5 | 2119.8 | 2106.4 |
| 52.5° | 13848.3 | 6579.1 | 2554.5 | 2182.6 | 2272.2 | 2464.9 | 2482.8 | 2348.4 | 2164.6 | 2101.9 | 2092.9 |
| 55° | 15448.2 | 7565.0 | 2487.3 | 2016.7 | 2151.2 | 2433.5 | 2482.8 | 2258.7 | 2128.8 | 2128.8 | 2119.8 |
| 57.5° | 18607.8 | 9339.7 | 2348.4 | 1864.4 | 2043.6 | 2375.3 | 2411.1 | 2263.2 | 2133.3 | 2133.3 | 2115.3 |
| 60° | 23241.8 | 12109.4 | 2084.0 | 1747.8 | 1940.6 | 2294.6 | 2357.3 | 2196.0 | 2084.0 | 2110.9 | 2106.4 |
| 62.5° | 26867.4 | 12951.9 | 1859.9 | 1635.8 | 1837.5 | 2146.7 | 2285.6 | 2124.3 | 2025.7 | 2124.3 | 2133.3 |
| 65° | 27642.8 | 12100.4 | 1631.3 | 1514.8 | 1694.1 | 2003.3 | 2182.6 | 2021.2 | 1940.6 | 2133.3 | 2142.2 |
| 66° | 27364.9 | 11437.2 | 1550.6 | 1478.9 | 1631.3 | 1931.6 | 2119.8 | 1985.4 | 1895.7 | 2124.3 | 2128.8 |
| 67.5° | 26128.0 | 10442.2 | 1461.0 | 1402.8 | 1546.2 | 1828.5 | 2048.1 | 1936.1 | 1824.0 | 2097.4 | 2057.1 |
| 70° | 23439.0 | 8855.7 | 1308.6 | 1268.3 | 1425.2 | 1658.2 | 1882.3 | 1810.6 | 1712.0 | 1931.6 | 1859.9 |
| 72.5° | 18052.1 | 7076.5 | 1147.3 | 1151.8 | 1286.2 | 1483.4 | 1716.5 | 1667.2 | 1582.0 | 1694.1 | 1649.2 |
| 75° | 10993.5 | 4522.0 | 999.4 | 1008.4 | 1120.4 | 1317.6 | 1559.6 | 1523.8 | 1420.7 | 1483.4 | 1461.0 |
| 77.5° | 4871.5 | 2240.8 | 842.5 | 860.5 | 950.1 | 1160.7 | 1357.9 | 1299.7 | 1192.1 | 1205.6 | 1196.6 |
| 80° | 1891.3 | 1062.1 | 685.7 | 708.1 | 766.4 | 927.7 | 1124.9 | 1071.1 | 977.0 | 959.1 | 950.1 |
| 82.5° | 909.8 | 591.6 | 528.8 | 537.8 | 560.2 | 739.5 | 968.0 | 900.8 | 775.3 | 694.7 | 694.7 |
| 85° | 457.1 | 367.5 | 372.0 | 340.6 | 372.0 | 501.9 | 654.3 | 546.8 | 452.6 | 403.3 | 412.3 |
| 87.5° | 183.7 | 183.7 | 183.7 | 156.9 | 165.8 | 237.5 | 304.8 | 206.2 | 188.2 | 112.0 | 112.0 |
| 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)