

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: P482200

Luminaire Tested: **IFLD-L-SA7C-827-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482200
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-827-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

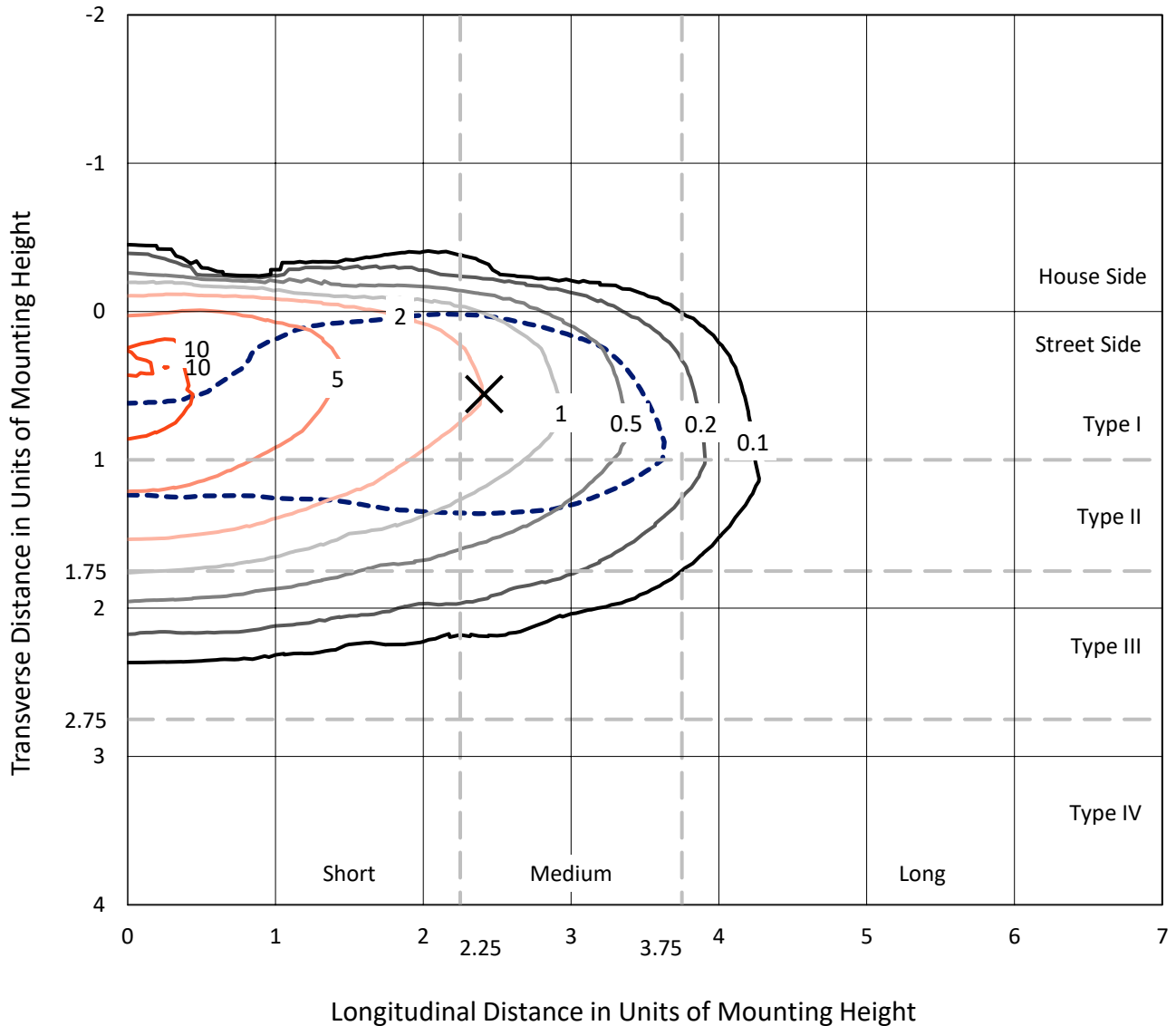
Lumens per Lamp: N/A
Luminaire Lumens: 25620.6 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 369
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: P482200
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

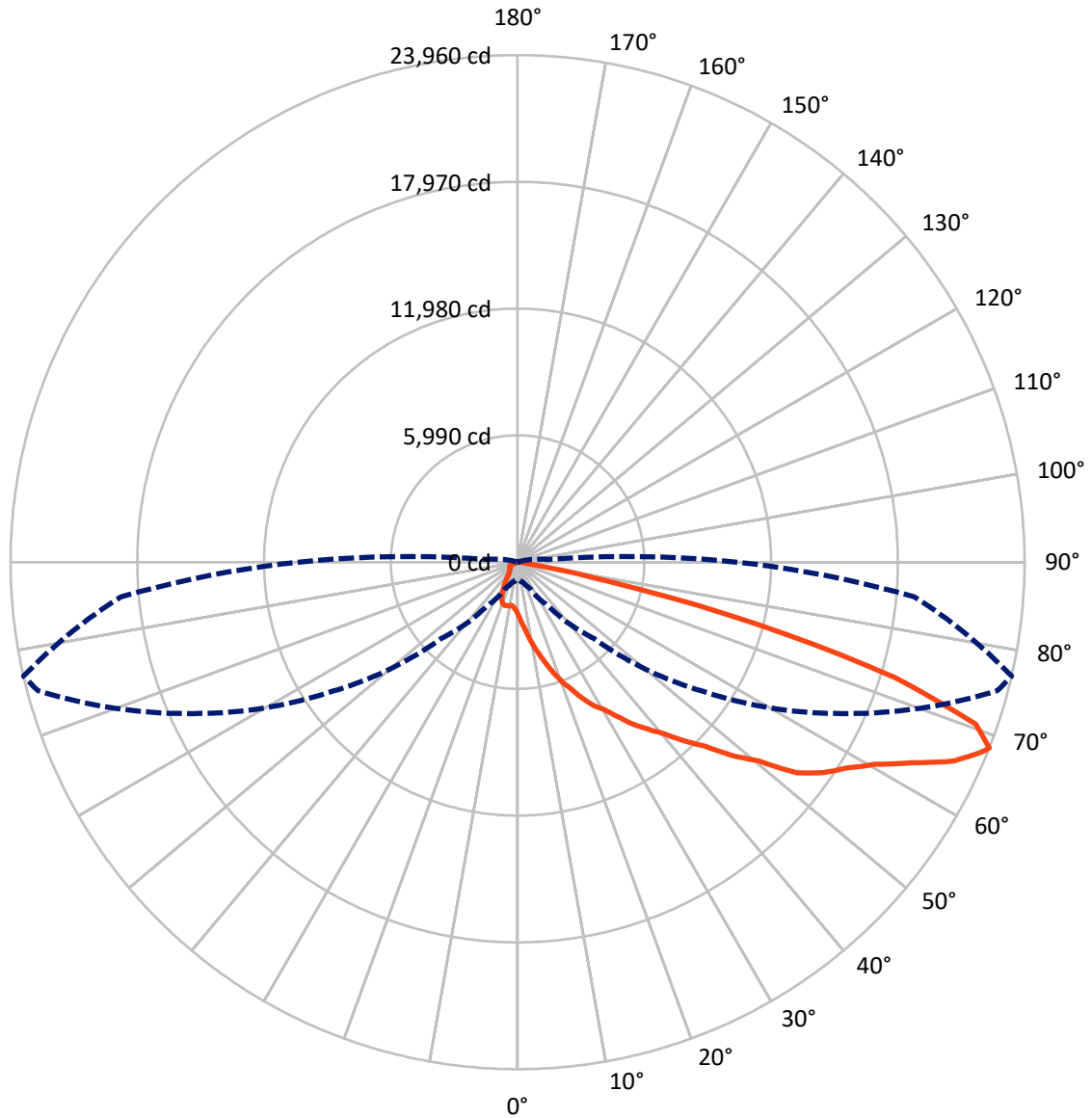
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P482200
CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P482200
 CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R-HSS

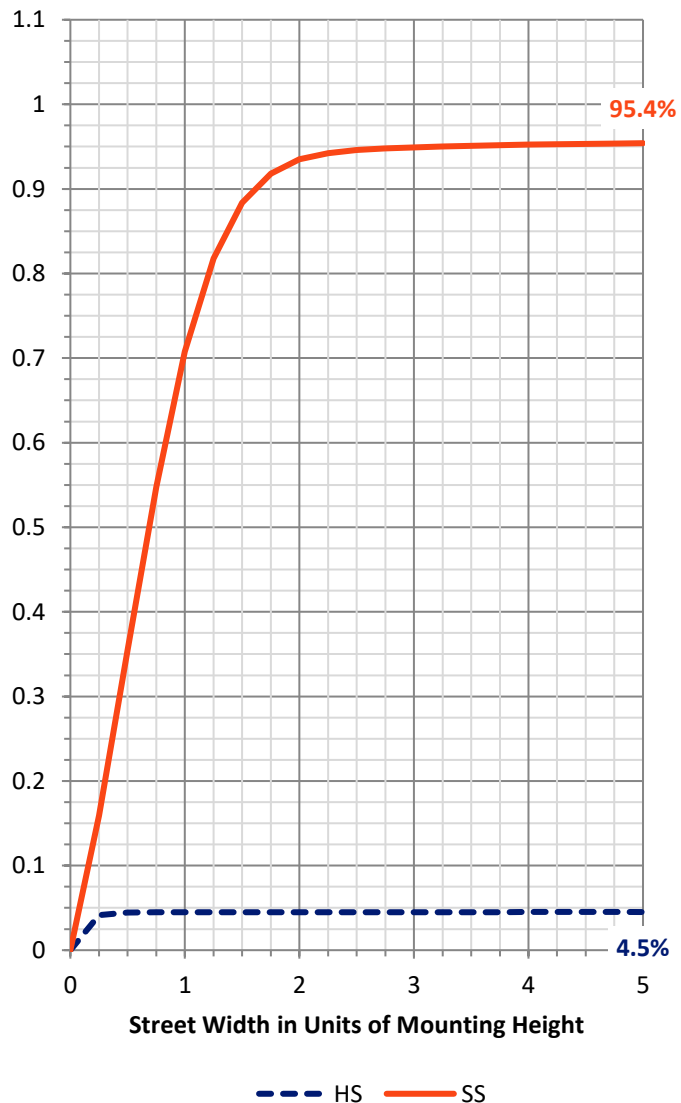
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1161.9 | 0.0 | 1161.9 |
| | % Fixture | 4.5 | 0.0 | 4.5 |
| Street Side | Lumens | 24458.8 | 0.0 | 24458.8 |
| | % Fixture | 95.5 | 0.0 | 95.5 |
| Total | Lumens | 25620.6 | 0.0 | 25620.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 286.6 | 1.1 |
| 10°-20° | 1057.0 | 4.1 |
| 20°-30° | 2048.5 | 8.0 |
| 30°-40° | 3571.2 | 13.9 |
| 40°-50° | 5230.4 | 20.4 |
| 50°-60° | 6144.9 | 24.0 |
| 60°-70° | 5188.8 | 20.3 |
| 70°-80° | 2011.3 | 7.9 |
| 80°-90° | 81.8 | 0.3 |
| 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° | 25620.6 | 100.0 |
| 0°-180° | 25620.6 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P482200

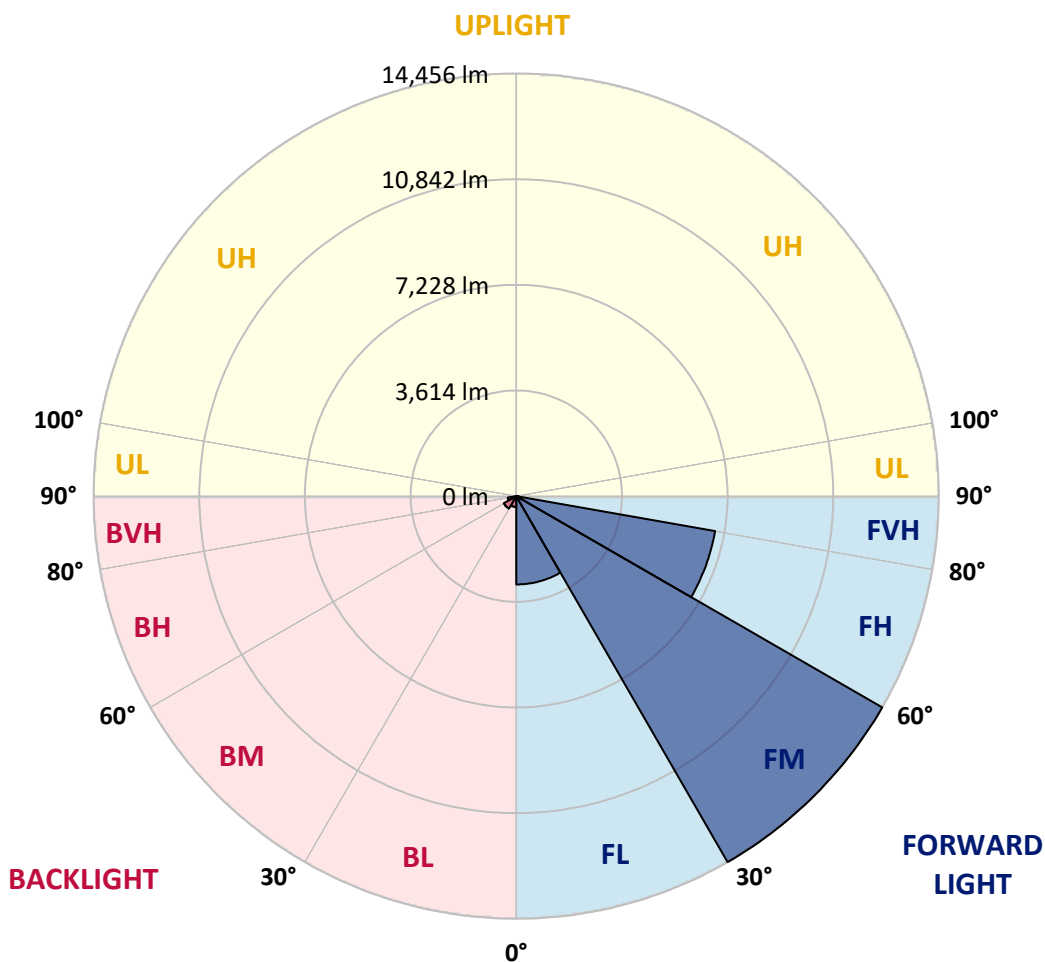
CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3020.9 | 11.8 | | | |
| FM (30°-60°) | 14455.6 | 56.4 | | | |
| FH (60°-80°) | 6906.8 | 27.0 | | | G3/7500 |
| FVH (80°-90°) | 75.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 371.2 | 1.4 | B1/500 | | |
| BM (30°-60°) | 491.0 | 1.9 | B1/1000 | | |
| BH (60°-80°) | 293.4 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type II Medium





REPORT NUMBER: P482200

CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 |
| 2.5° | 3727.5 | 3656.9 | 3582.8 | 3561.6 | 3423.9 | 3268.6 | 3123.9 | 2982.7 | 2746.2 | 2749.7 | 2587.3 |
| 5° | 4804.1 | 4715.8 | 4655.8 | 4641.7 | 4426.4 | 4158.1 | 3939.3 | 3540.4 | 3148.6 | 3060.3 | 2763.8 |
| 7.5° | 5690.0 | 5661.8 | 5573.6 | 5499.4 | 5340.6 | 5012.3 | 4754.6 | 4182.8 | 3586.3 | 3487.4 | 2979.2 |
| 10° | 6226.6 | 6268.9 | 6307.8 | 6212.5 | 6088.9 | 5852.4 | 5499.4 | 4881.7 | 4084.0 | 3960.4 | 3258.0 |
| 12.5° | 6798.4 | 6727.8 | 6752.5 | 6830.2 | 6667.8 | 6614.9 | 6177.2 | 5601.8 | 4666.4 | 4429.9 | 3611.0 |
| 15° | 6946.7 | 6974.9 | 7034.9 | 7260.8 | 7370.2 | 7218.4 | 6840.8 | 6184.2 | 5270.0 | 4941.7 | 3939.3 |
| 17.5° | 7045.5 | 7031.4 | 7105.5 | 7444.4 | 7610.3 | 7755.0 | 7518.5 | 6833.7 | 5795.9 | 5503.0 | 4348.7 |
| 20° | 7169.0 | 7091.4 | 7253.7 | 7469.1 | 7853.8 | 8157.4 | 8146.8 | 7486.7 | 6346.6 | 6036.0 | 4754.6 |
| 22.5° | 7627.9 | 7567.9 | 7698.5 | 7719.7 | 7987.9 | 8411.5 | 8513.9 | 8019.7 | 6911.4 | 6530.1 | 5192.3 |
| 25° | 8475.1 | 8584.5 | 8429.2 | 8295.0 | 8376.2 | 8655.1 | 8729.2 | 8492.7 | 7479.7 | 7130.2 | 5630.0 |
| 27.5° | 9714.0 | 9699.9 | 9392.8 | 9219.8 | 9025.7 | 8990.4 | 9043.4 | 8933.9 | 7927.9 | 7677.3 | 5990.1 |
| 30° | 11044.8 | 10928.3 | 10645.9 | 10229.4 | 9802.3 | 9537.5 | 9463.4 | 9350.5 | 8453.9 | 8090.3 | 6346.6 |
| 32.5° | 12103.7 | 12167.2 | 11853.1 | 11309.5 | 10600.0 | 10243.5 | 9887.0 | 9763.4 | 9032.8 | 8711.6 | 6756.0 |
| 35° | 13077.9 | 12993.2 | 12742.6 | 12283.7 | 11648.4 | 11073.0 | 10515.3 | 10250.6 | 9728.1 | 9410.5 | 7207.9 |
| 37.5° | 13798.0 | 13903.9 | 13427.4 | 12989.7 | 12357.8 | 11881.3 | 11334.2 | 10755.3 | 10444.7 | 10021.1 | 7758.5 |
| 40° | 14479.3 | 14313.4 | 13992.1 | 13589.7 | 13003.8 | 12640.2 | 12280.2 | 11376.6 | 11207.1 | 10660.0 | 8379.8 |
| 42.5° | 14359.2 | 14369.8 | 14193.3 | 13868.6 | 13445.0 | 13236.8 | 13113.2 | 12131.9 | 11899.0 | 11549.5 | 8986.9 |
| 45° | 13868.6 | 13911.0 | 13971.0 | 13812.1 | 13847.4 | 13639.2 | 13971.0 | 13000.3 | 12770.8 | 12400.2 | 9685.8 |
| 47.5° | 13328.5 | 13399.1 | 13385.0 | 13674.5 | 14002.7 | 14073.3 | 14902.8 | 13963.9 | 13865.1 | 13660.3 | 10652.9 |
| 50° | 12432.0 | 12460.2 | 12732.0 | 13257.9 | 13706.2 | 14444.0 | 15601.7 | 15015.8 | 15167.6 | 14765.2 | 11803.7 |
| 52.5° | 10900.0 | 11002.4 | 11701.3 | 12453.1 | 13356.8 | 14631.0 | 16074.7 | 16579.5 | 16964.2 | 16551.3 | 12908.5 |
| 55° | 8962.2 | 9103.4 | 9791.7 | 11200.1 | 12523.7 | 14348.7 | 16505.4 | 17405.5 | 18185.5 | 17560.8 | 13579.2 |
| 57.5° | 7211.4 | 7225.5 | 7843.2 | 9297.5 | 11341.3 | 13794.5 | 16724.2 | 17807.9 | 18856.2 | 18355.0 | 14398.1 |
| 60° | 5495.9 | 5439.4 | 5993.6 | 7253.7 | 9350.5 | 12432.0 | 16177.1 | 18012.6 | 19692.8 | 19403.3 | 15382.9 |
| 62.5° | 3536.9 | 3448.6 | 4052.2 | 5280.6 | 7303.2 | 10162.3 | 15082.9 | 18016.1 | 20998.8 | 20889.4 | 17031.3 |
| 65° | 1750.8 | 1690.8 | 2209.7 | 3236.8 | 5054.7 | 7772.6 | 13522.7 | 17949.1 | 22594.3 | 22664.9 | 18637.4 |
| 67.5° | 924.8 | 946.0 | 1111.9 | 1641.4 | 2915.6 | 5492.4 | 11171.8 | 17161.9 | 23409.7 | 23805.0 | 19025.6 |
| 68° | 850.7 | 857.7 | 988.3 | 1366.0 | 2530.9 | 5093.5 | 10614.1 | 16932.5 | 23473.2 | 23960.3 | 18810.3 |
| 70° | 691.8 | 702.4 | 748.3 | 857.7 | 1369.6 | 3314.5 | 8189.1 | 14984.0 | 22516.6 | 22961.4 | 17027.8 |
| 72.5° | 550.6 | 582.4 | 610.7 | 656.5 | 804.8 | 1740.2 | 5093.5 | 11676.6 | 18602.1 | 18651.5 | 13254.4 |
| 75° | 420.0 | 444.8 | 501.2 | 540.1 | 628.3 | 956.6 | 2425.0 | 7119.6 | 12206.1 | 11606.0 | 7807.9 |
| 77.5° | 324.7 | 345.9 | 370.6 | 423.6 | 525.9 | 646.0 | 741.3 | 3021.5 | 5185.3 | 4267.5 | 2206.1 |
| 80° | 194.1 | 208.3 | 289.4 | 331.8 | 458.9 | 437.7 | 293.0 | 840.1 | 1051.9 | 829.5 | 402.4 |
| 82.5° | 113.0 | 123.5 | 165.9 | 254.1 | 321.2 | 236.5 | 173.0 | 261.2 | 257.7 | 225.9 | 134.1 |
| 85° | 3.5 | 7.1 | 91.8 | 151.8 | 113.0 | 63.5 | 105.9 | 109.4 | 91.8 | 84.7 | 60.0 |
| 87.5° | 0.0 | 3.5 | 24.7 | 21.2 | 24.7 | 14.1 | 21.2 | 28.2 | 35.3 | 31.8 | 24.7 |
| 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: P482200

CATALOG NUMBER: IFLD-L-SA7C-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 | 2453.2 |
| 2.5° | 2477.9 | 2400.3 | 2227.3 | 2096.7 | 1955.5 | 1870.8 | 1786.1 | 1733.1 | 1704.9 | 1687.2 | 1701.4 |
| 5° | 2541.5 | 2379.1 | 2100.2 | 1853.1 | 1690.8 | 1581.4 | 1471.9 | 1415.5 | 1362.5 | 1334.3 | 1351.9 |
| 7.5° | 2682.7 | 2439.1 | 1976.7 | 1708.4 | 1517.8 | 1348.4 | 1210.7 | 1101.3 | 1037.8 | 981.3 | 991.9 |
| 10° | 2855.6 | 2474.4 | 1980.2 | 1623.7 | 1348.4 | 1080.1 | 886.0 | 748.3 | 670.7 | 621.2 | 617.7 |
| 12.5° | 3032.1 | 2612.1 | 1994.3 | 1539.0 | 1140.1 | 811.9 | 582.4 | 480.1 | 434.2 | 409.5 | 409.5 |
| 15° | 3300.4 | 2735.6 | 1959.0 | 1383.7 | 864.8 | 529.5 | 398.9 | 363.6 | 345.9 | 324.7 | 328.3 |
| 17.5° | 3533.3 | 2933.3 | 1941.4 | 1150.7 | 593.0 | 381.2 | 331.8 | 293.0 | 275.3 | 254.1 | 254.1 |
| 20° | 3847.5 | 3056.8 | 1846.1 | 889.5 | 409.5 | 317.7 | 268.3 | 233.0 | 204.7 | 187.1 | 190.6 |
| 22.5° | 4133.4 | 3152.1 | 1676.7 | 607.1 | 314.2 | 250.6 | 197.7 | 162.4 | 137.7 | 116.5 | 120.0 |
| 25° | 4444.0 | 3247.4 | 1429.6 | 374.2 | 222.4 | 155.3 | 105.9 | 77.7 | 52.9 | 38.8 | 38.8 |
| 27.5° | 4666.4 | 3275.7 | 1108.4 | 222.4 | 134.1 | 70.6 | 24.7 | 3.5 | 0.0 | 0.0 | 0.0 |
| 30° | 4892.3 | 3286.2 | 766.0 | 120.0 | 52.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 5150.0 | 3282.7 | 480.1 | 63.5 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 5347.7 | 3222.7 | 229.4 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 5647.7 | 3134.5 | 70.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 5990.1 | 2975.6 | 14.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 6297.2 | 2813.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 6646.6 | 2612.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 7260.8 | 2527.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 8062.1 | 2460.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 8556.2 | 2262.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 8813.9 | 2057.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 9195.1 | 1959.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 9759.9 | 1966.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 10642.4 | 2064.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 11129.5 | 1966.1 | 14.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 10716.5 | 1574.3 | 67.1 | 17.6 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68° | 10360.0 | 1447.2 | 67.1 | 17.6 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 8563.3 | 942.5 | 63.5 | 17.6 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 6237.2 | 522.4 | 52.9 | 14.1 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3628.6 | 261.2 | 38.8 | 14.1 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 946.0 | 130.6 | 31.8 | 17.6 | 10.6 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 187.1 | 84.7 | 28.2 | 21.2 | 14.1 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 88.2 | 60.0 | 28.2 | 21.2 | 17.6 | 10.6 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 45.9 | 28.2 | 28.2 | 21.2 | 21.2 | 14.1 | 7.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.2 | 10.6 | 10.6 | 10.6 | 10.6 | 7.1 | 3.5 | 0.0 | 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)