

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: P484022

Luminaire Tested: **IFLD-S-SA6B-740-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484022
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

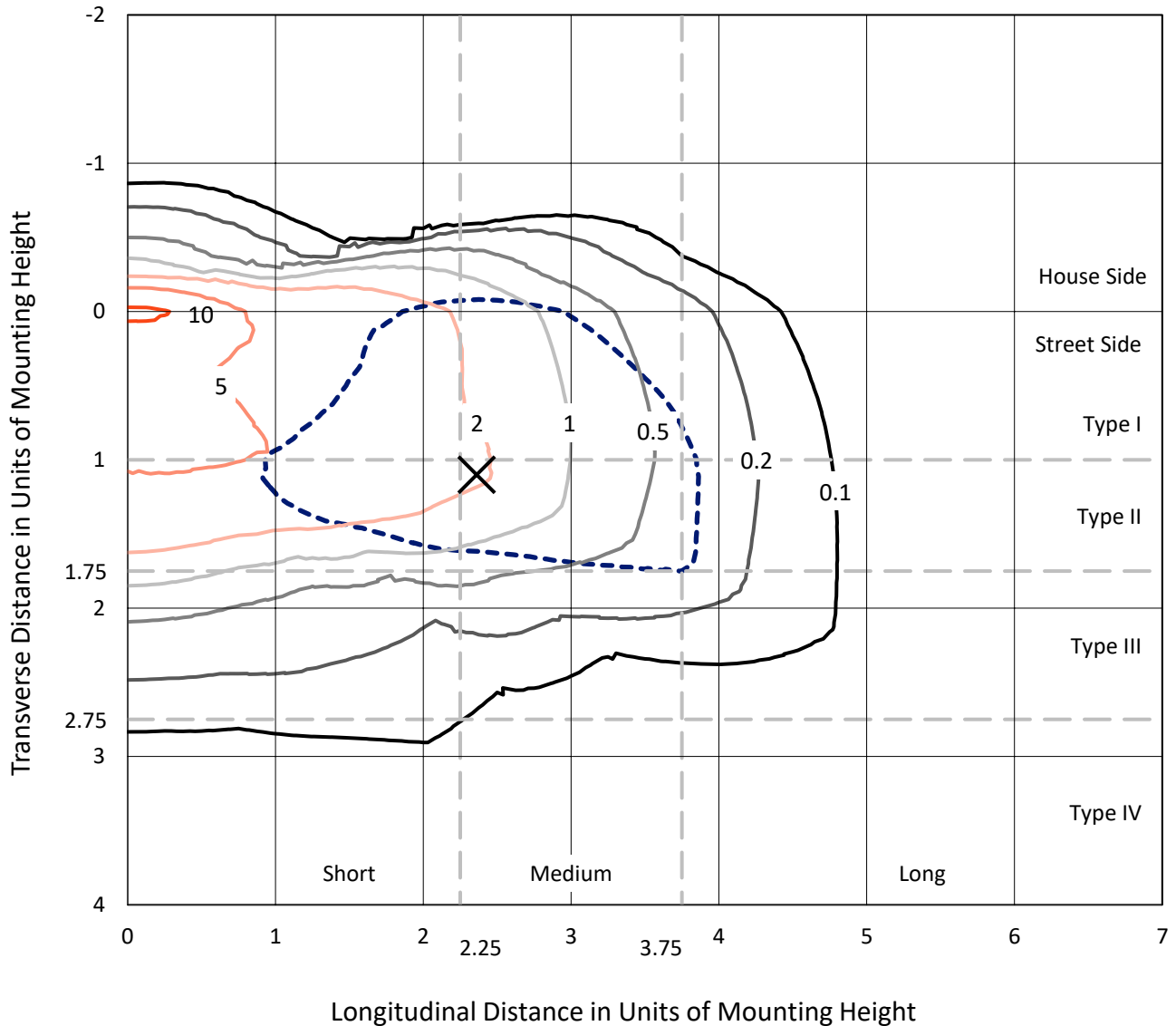
Lumens per Lamp: N/A
Luminaire Lumens: 27473.2 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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: P484022
 CATALOG NUMBER: IFLD-S-SA6B-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

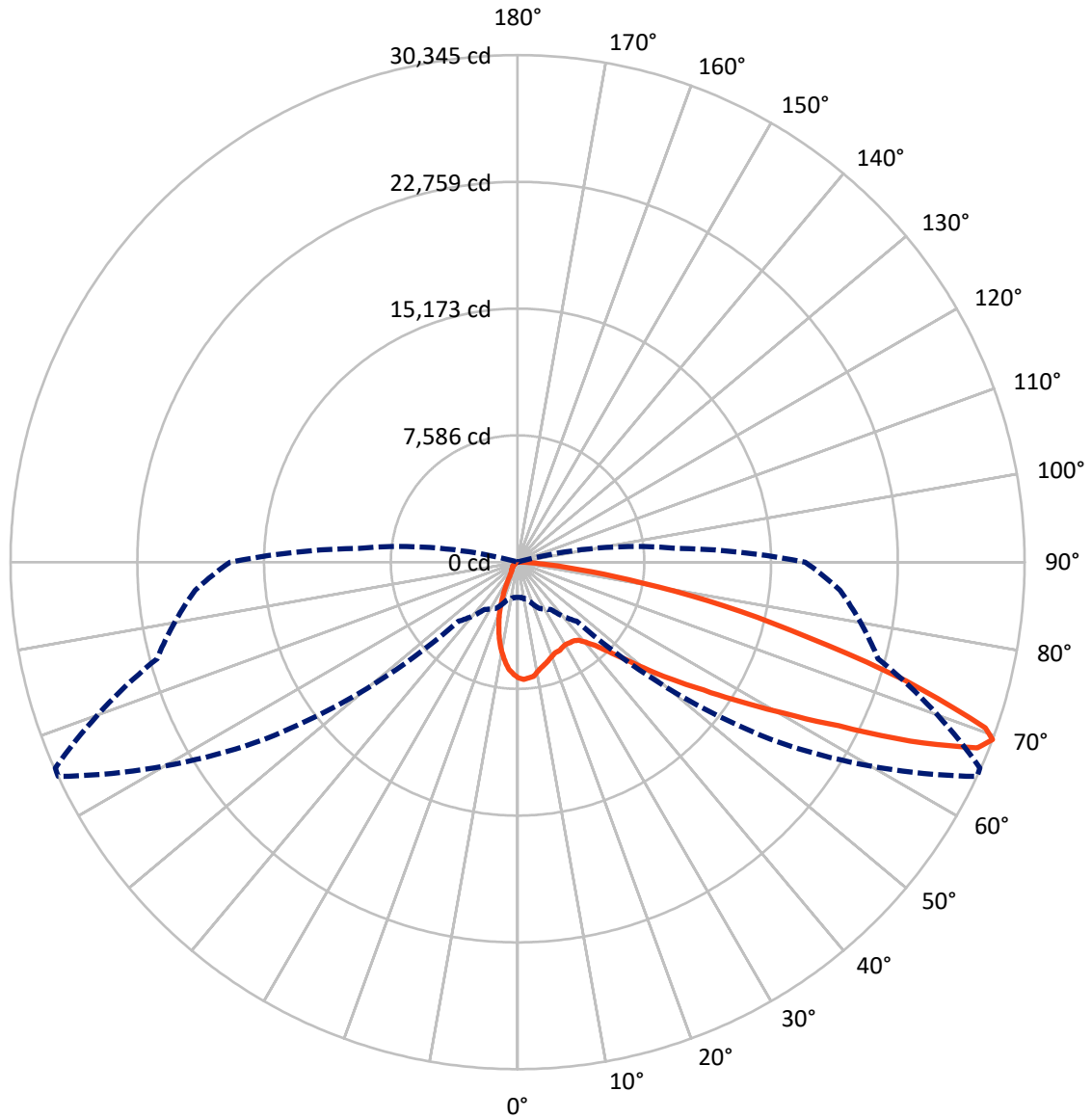
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P484022
CATALOG NUMBER: IFLD-S-SA6B-740-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P484022
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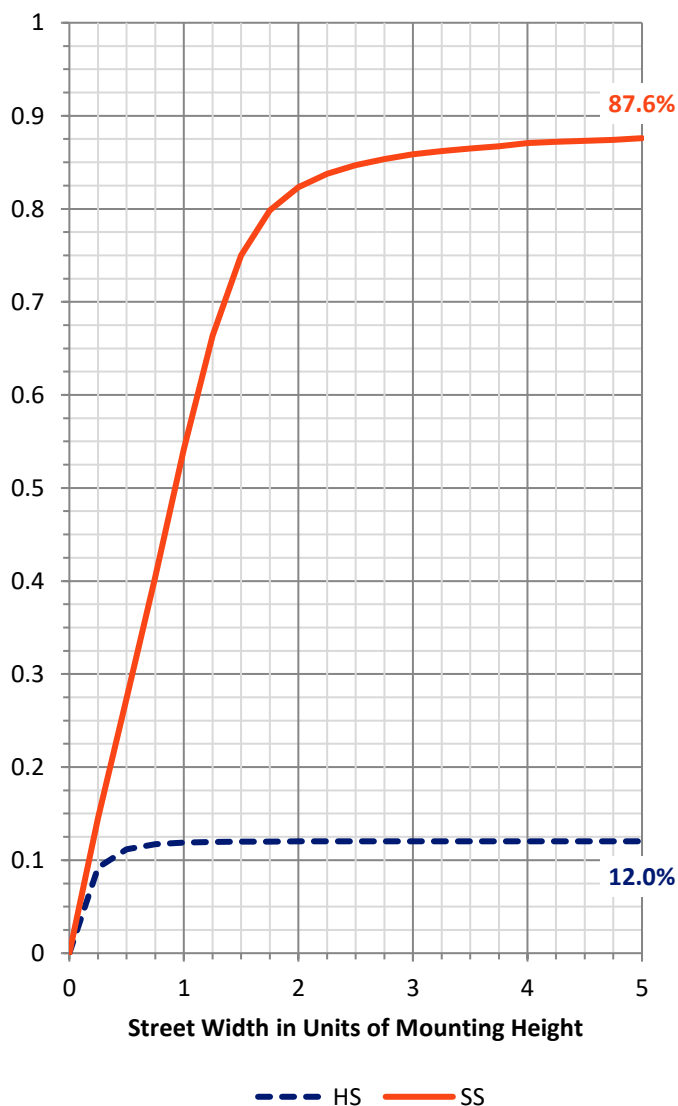
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3332.7 | 0.0 | 3332.7 |
| | % Fixture | 12.1 | 0.0 | 12.1 |
| Street Side | Lumens | 24140.5 | 0.0 | 24140.5 |
| | % Fixture | 87.9 | 0.0 | 87.9 |
| Total | Lumens | 27473.2 | 0.0 | 27473.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 566.8 | 2.1 |
| 10°-20° | 1240.2 | 4.5 |
| 20°-30° | 1726.6 | 6.3 |
| 30°-40° | 2446.8 | 8.9 |
| 40°-50° | 3856.1 | 14.0 |
| 50°-60° | 6257.1 | 22.8 |
| 60°-70° | 6987.9 | 25.4 |
| 70°-80° | 3935.0 | 14.3 |
| 80°-90° | 456.6 | 1.7 |
| 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° | 27473.2 | 100.0 |
| 0°-180° | 27473.2 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P484022

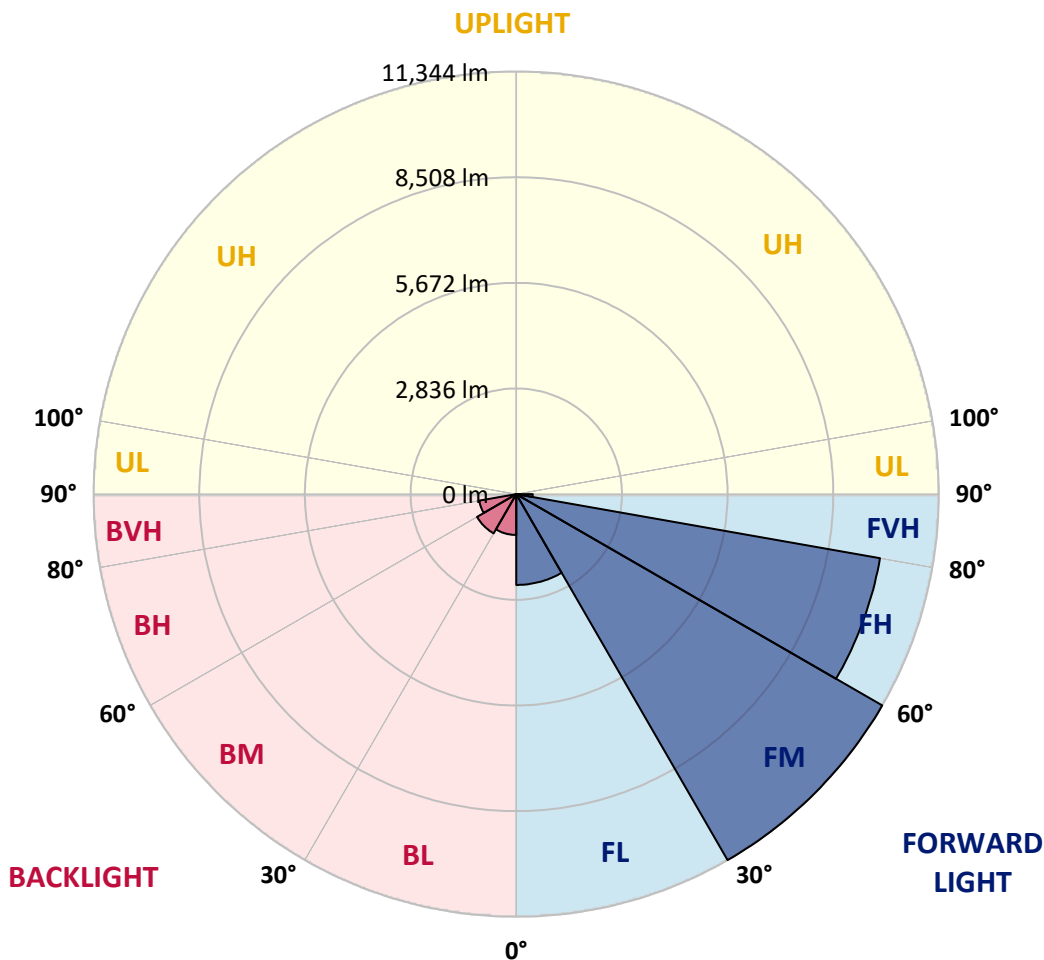
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2438.0 | 8.9 | | | |
| FM (30°-60°) | 11343.9 | 41.3 | | | |
| FH (60°-80°) | 9914.6 | 36.1 | | | G4/12000 |
| FVH (80°-90°) | 444.0 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1095.7 | 4.0 | B3/2500 | | |
| BM (30°-60°) | 1216.1 | 4.4 | B2/2500 | | |
| BH (60°-80°) | 1008.3 | 3.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 12.6 | 0.0 | | | 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 II Medium





REPORT NUMBER: P484022

CATALOG NUMBER: IFLD-S-SA6B-740-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 |
| 2.5° | 6670.9 | 6722.8 | 6737.6 | 6789.5 | 6815.5 | 6926.6 | 6989.6 | 7026.7 | 7008.2 | 7048.9 | 7052.6 |
| 5° | 6196.5 | 6166.9 | 6244.7 | 6300.3 | 6418.9 | 6611.6 | 6808.0 | 6960.0 | 7030.4 | 7097.1 | 7086.0 |
| 7.5° | 5688.8 | 5674.0 | 5751.8 | 5877.8 | 5985.3 | 6218.8 | 6533.8 | 6908.1 | 6893.3 | 7056.3 | 7104.5 |
| 10° | 5340.4 | 5355.3 | 5381.2 | 5507.2 | 5666.6 | 5903.8 | 6296.6 | 6645.0 | 6722.8 | 7067.5 | 7163.8 |
| 12.5° | 5021.7 | 5047.7 | 5095.8 | 5225.6 | 5410.9 | 5655.5 | 6037.2 | 6444.8 | 6563.4 | 7004.5 | 7197.2 |
| 15° | 4917.9 | 4858.7 | 4955.0 | 5051.4 | 5244.1 | 5462.7 | 5785.2 | 6292.9 | 6344.8 | 6930.3 | 7252.8 |
| 17.5° | 4832.7 | 4795.6 | 4840.1 | 4917.9 | 5121.8 | 5299.7 | 5603.6 | 6129.8 | 6226.2 | 6900.7 | 7245.4 |
| 20° | 4858.7 | 4825.3 | 4843.8 | 4903.1 | 4995.8 | 5162.5 | 5444.2 | 5974.2 | 6077.9 | 6763.6 | 7234.2 |
| 22.5° | 4932.8 | 4958.7 | 4925.4 | 4940.2 | 4969.8 | 5055.1 | 5359.0 | 5863.0 | 5951.9 | 6737.6 | 7297.2 |
| 25° | 5266.3 | 5221.8 | 5177.4 | 5158.8 | 4984.7 | 5021.7 | 5333.0 | 5855.6 | 5918.6 | 6645.0 | 7245.4 |
| 27.5° | 5614.7 | 5577.6 | 5559.1 | 5451.6 | 5214.4 | 5103.3 | 5336.7 | 5751.8 | 5837.1 | 6607.9 | 7182.4 |
| 30° | 6037.2 | 6085.4 | 6011.2 | 5881.5 | 5551.7 | 5277.4 | 5377.5 | 5699.9 | 5818.5 | 6467.1 | 7141.6 |
| 32.5° | 6481.9 | 6507.9 | 6544.9 | 6448.6 | 6022.4 | 5540.6 | 5499.8 | 5748.1 | 5755.5 | 6467.1 | 7048.9 |
| 35° | 6985.9 | 6948.9 | 7045.2 | 7052.6 | 6678.3 | 6007.5 | 5733.3 | 5781.5 | 5859.3 | 6437.4 | 7015.6 |
| 37.5° | 7419.5 | 7482.5 | 7593.7 | 7771.6 | 7386.2 | 6667.2 | 6096.5 | 5937.1 | 5970.5 | 6574.6 | 7041.5 |
| 40° | 7893.9 | 7956.9 | 8208.9 | 8386.8 | 8168.2 | 7408.4 | 6648.7 | 6300.3 | 6326.3 | 6778.4 | 7174.9 |
| 42.5° | 8416.5 | 8538.8 | 8839.0 | 9150.3 | 9091.0 | 8349.8 | 7360.2 | 6834.0 | 6822.9 | 7286.1 | 7449.2 |
| 45° | 9124.3 | 9287.4 | 9613.5 | 9973.0 | 10024.9 | 9428.2 | 8309.0 | 7630.8 | 7667.9 | 7949.5 | 8016.2 |
| 47.5° | 10110.1 | 10102.7 | 10421.5 | 10821.7 | 11121.9 | 10547.5 | 9443.1 | 8701.8 | 8698.1 | 8998.3 | 8857.5 |
| 50° | 11062.6 | 11066.3 | 11151.6 | 11614.8 | 12393.1 | 12100.3 | 10847.7 | 10125.0 | 10084.2 | 10232.4 | 10006.4 |
| 52.5° | 11503.6 | 11451.7 | 11388.7 | 11948.4 | 13371.5 | 14057.1 | 12626.6 | 11737.1 | 11703.8 | 11614.8 | 11555.5 |
| 55° | 11040.4 | 11058.9 | 11055.2 | 11637.0 | 13886.6 | 16121.4 | 14909.5 | 13512.3 | 13456.7 | 13178.8 | 13260.3 |
| 57.5° | 9554.2 | 9494.9 | 9624.7 | 10532.6 | 13297.4 | 17529.7 | 18174.5 | 15750.8 | 15606.2 | 14683.4 | 14498.1 |
| 60° | 7111.9 | 7130.5 | 7237.9 | 8309.0 | 11833.5 | 17826.2 | 21298.8 | 18378.4 | 17755.8 | 15743.4 | 15487.6 |
| 62.5° | 4966.1 | 4929.1 | 4969.8 | 5570.2 | 8460.9 | 16640.2 | 23411.2 | 21573.0 | 20972.6 | 16947.8 | 16799.6 |
| 65° | 3554.1 | 3505.9 | 3669.0 | 4035.9 | 5081.0 | 12722.9 | 23711.4 | 25827.6 | 25290.2 | 18871.3 | 18515.5 |
| 67.5° | 2557.2 | 2549.8 | 2738.8 | 3405.9 | 3609.7 | 7326.9 | 21487.8 | 29681.9 | 29355.7 | 21154.2 | 19560.6 |
| 69° | 2116.2 | 2119.9 | 2301.5 | 3050.1 | 3446.6 | 5003.2 | 18489.6 | 30345.3 | 30286.0 | 22332.8 | 19364.2 |
| 70° | 1845.6 | 1860.4 | 2071.7 | 2838.8 | 3379.9 | 4113.7 | 15939.8 | 29693.0 | 29633.7 | 22562.5 | 18715.6 |
| 72.5° | 1137.8 | 1148.9 | 1426.8 | 2275.5 | 3213.2 | 3357.7 | 9532.0 | 24293.3 | 24497.1 | 21510.0 | 16125.1 |
| 75° | 544.8 | 548.5 | 748.6 | 1645.5 | 3098.3 | 3183.5 | 5107.0 | 17926.2 | 18356.1 | 17366.6 | 12600.6 |
| 77.5° | 289.1 | 289.1 | 359.5 | 874.6 | 2509.0 | 2994.5 | 3031.6 | 12645.1 | 13000.9 | 10981.1 | 7163.8 |
| 80° | 144.5 | 148.2 | 218.7 | 455.8 | 1556.5 | 2935.2 | 2368.2 | 7541.8 | 7734.6 | 4480.6 | 2231.1 |
| 82.5° | 55.6 | 59.3 | 103.8 | 274.2 | 807.9 | 2479.4 | 2079.1 | 3709.8 | 3661.6 | 1048.8 | 544.8 |
| 85° | 7.4 | 7.4 | 37.1 | 163.1 | 344.7 | 1093.3 | 1715.9 | 1549.1 | 1497.3 | 229.8 | 263.1 |
| 87.5° | 0.0 | 0.0 | 7.4 | 48.2 | 103.8 | 318.7 | 663.4 | 426.2 | 474.4 | 63.0 | 129.7 |
| 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: P484022

CATALOG NUMBER: IFLD-S-SA6B-740-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 | 6926.6 |
| 2.5° | 7034.1 | 6956.3 | 6837.7 | 6722.8 | 6600.5 | 6452.3 | 6289.2 | 6229.9 | 6126.1 | 6118.7 | 6178.0 |
| 5° | 7026.7 | 6900.7 | 6693.2 | 6448.6 | 6100.2 | 5837.1 | 5551.7 | 5344.1 | 5184.8 | 5081.0 | 5107.0 |
| 7.5° | 7063.8 | 6911.8 | 6552.3 | 6026.1 | 5577.6 | 5055.1 | 4614.1 | 4310.2 | 4032.2 | 3895.1 | 3880.3 |
| 10° | 7004.5 | 6800.6 | 6274.4 | 5536.9 | 4877.2 | 4147.1 | 3502.2 | 3094.6 | 2679.5 | 2527.5 | 2534.9 |
| 12.5° | 7037.8 | 6752.5 | 5974.2 | 5032.8 | 4124.9 | 3176.1 | 2405.2 | 1849.3 | 1460.2 | 1334.2 | 1319.4 |
| 15° | 7060.1 | 6648.7 | 5685.1 | 4428.7 | 3291.0 | 2164.3 | 1393.5 | 1048.8 | 926.5 | 904.3 | 900.6 |
| 17.5° | 6974.8 | 6522.7 | 5277.4 | 3832.1 | 2438.6 | 1315.7 | 926.5 | 856.1 | 833.9 | 819.0 | 811.6 |
| 20° | 6971.1 | 6448.6 | 4925.4 | 3220.6 | 1627.0 | 896.9 | 800.5 | 774.6 | 741.2 | 730.1 | 730.1 |
| 22.5° | 6908.1 | 6292.9 | 4502.9 | 2549.8 | 1037.7 | 770.9 | 719.0 | 678.2 | 641.1 | 626.3 | 622.6 |
| 25° | 6889.6 | 6111.3 | 4106.3 | 1916.0 | 789.4 | 689.3 | 637.4 | 578.1 | 533.7 | 511.4 | 500.3 |
| 27.5° | 6837.7 | 5955.6 | 3706.1 | 1349.0 | 689.3 | 615.2 | 548.5 | 485.5 | 433.6 | 400.3 | 396.5 |
| 30° | 6652.4 | 5792.6 | 3261.3 | 933.9 | 626.3 | 544.8 | 470.7 | 396.5 | 344.7 | 322.4 | 315.0 |
| 32.5° | 6574.6 | 5640.6 | 2775.8 | 719.0 | 570.7 | 481.8 | 396.5 | 329.8 | 289.1 | 266.8 | 263.1 |
| 35° | 6481.9 | 5418.3 | 2305.2 | 626.3 | 518.8 | 418.8 | 333.5 | 278.0 | 244.6 | 226.1 | 226.1 |
| 37.5° | 6493.0 | 5240.4 | 1864.2 | 567.0 | 463.3 | 359.5 | 285.4 | 237.2 | 207.5 | 189.0 | 189.0 |
| 40° | 6459.7 | 5099.5 | 1449.1 | 515.1 | 411.4 | 307.6 | 240.9 | 200.1 | 174.2 | 155.7 | 151.9 |
| 42.5° | 6611.6 | 5062.5 | 1093.3 | 470.7 | 359.5 | 263.1 | 207.5 | 170.5 | 144.5 | 122.3 | 122.3 |
| 45° | 6867.3 | 5121.8 | 852.4 | 429.9 | 307.6 | 226.1 | 177.9 | 140.8 | 114.9 | 100.1 | 96.4 |
| 47.5° | 7549.3 | 5355.3 | 667.1 | 396.5 | 263.1 | 196.4 | 148.2 | 114.9 | 92.7 | 77.8 | 74.1 |
| 50° | 8538.8 | 5877.8 | 567.0 | 348.4 | 222.4 | 166.8 | 122.3 | 88.9 | 74.1 | 59.3 | 55.6 |
| 52.5° | 9947.1 | 6756.2 | 515.1 | 307.6 | 185.3 | 137.1 | 96.4 | 70.4 | 55.6 | 44.5 | 40.8 |
| 55° | 11481.4 | 7853.2 | 467.0 | 259.4 | 155.7 | 111.2 | 77.8 | 55.6 | 40.8 | 29.6 | 25.9 |
| 57.5° | 12678.5 | 8801.9 | 426.2 | 215.0 | 126.0 | 88.9 | 59.3 | 40.8 | 29.6 | 18.5 | 14.8 |
| 60° | 13986.7 | 9469.0 | 374.3 | 170.5 | 103.8 | 66.7 | 44.5 | 29.6 | 22.2 | 11.1 | 11.1 |
| 62.5° | 15335.7 | 10251.0 | 307.6 | 133.4 | 81.5 | 51.9 | 33.4 | 22.2 | 14.8 | 3.7 | 3.7 |
| 65° | 17211.0 | 10862.5 | 237.2 | 103.8 | 63.0 | 37.1 | 25.9 | 18.5 | 7.4 | 0.0 | 0.0 |
| 67.5° | 17740.9 | 10562.3 | 174.2 | 81.5 | 44.5 | 25.9 | 18.5 | 11.1 | 3.7 | 0.0 | 0.0 |
| 69° | 17211.0 | 9513.5 | 151.9 | 70.4 | 37.1 | 22.2 | 14.8 | 7.4 | 3.7 | 0.0 | 0.0 |
| 70° | 16243.7 | 8698.1 | 133.4 | 59.3 | 33.4 | 22.2 | 11.1 | 7.4 | 3.7 | 0.0 | 0.0 |
| 72.5° | 13586.4 | 6670.9 | 103.8 | 44.5 | 25.9 | 18.5 | 11.1 | 7.4 | 0.0 | 0.0 | 0.0 |
| 75° | 9965.6 | 4121.1 | 77.8 | 33.4 | 22.2 | 14.8 | 11.1 | 7.4 | 0.0 | 0.0 | 0.0 |
| 77.5° | 5340.4 | 1504.7 | 55.6 | 22.2 | 14.8 | 11.1 | 11.1 | 7.4 | 0.0 | 0.0 | 0.0 |
| 80° | 1463.9 | 444.7 | 40.8 | 14.8 | 11.1 | 7.4 | 7.4 | 3.7 | 0.0 | 0.0 | 0.0 |
| 82.5° | 400.3 | 114.9 | 25.9 | 14.8 | 11.1 | 7.4 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 215.0 | 44.5 | 14.8 | 11.1 | 7.4 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 111.2 | 14.8 | 11.1 | 7.4 | 7.4 | 3.7 | 0.0 | 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)