

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: P481979

Luminaire Tested: **IFLD-S-SA3B-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481979
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12182 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

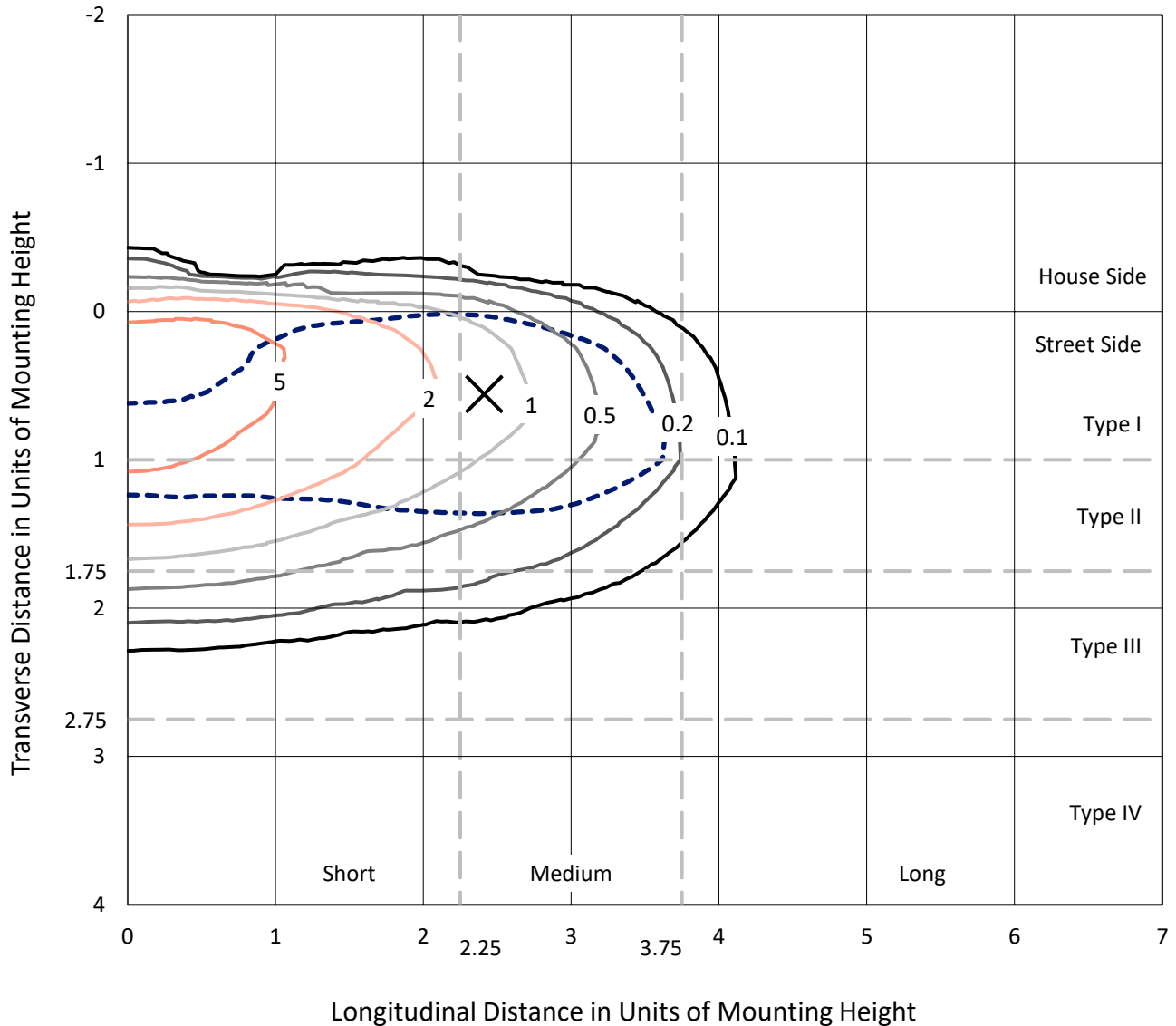
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P481979
 CATALOG NUMBER: IFLD-S-SA3B-730-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

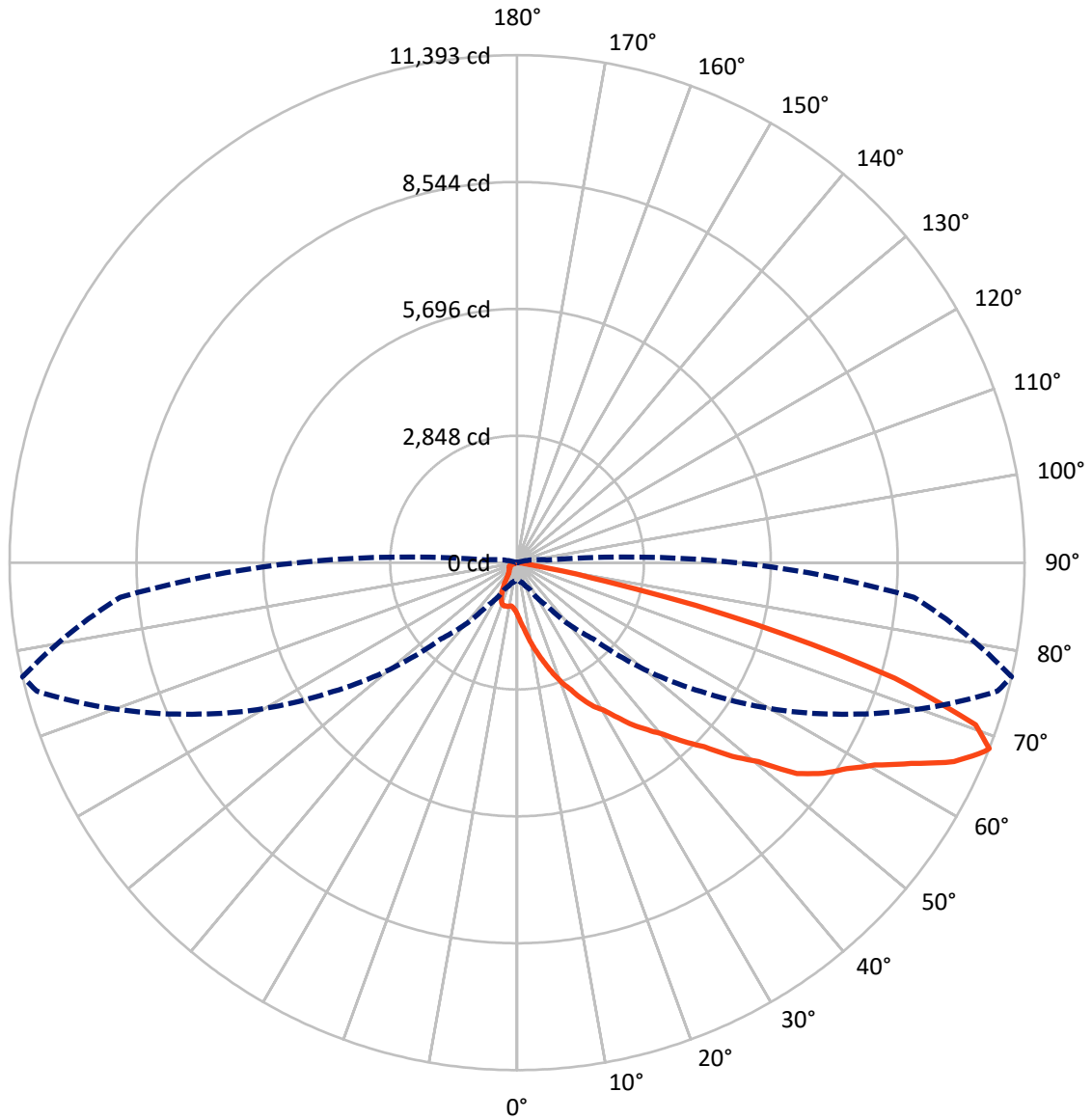
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P481979
CATALOG NUMBER: IFLD-S-SA3B-730-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P481979
 CATALOG NUMBER: IFLD-S-SA3B-730-U-T2R-HSS

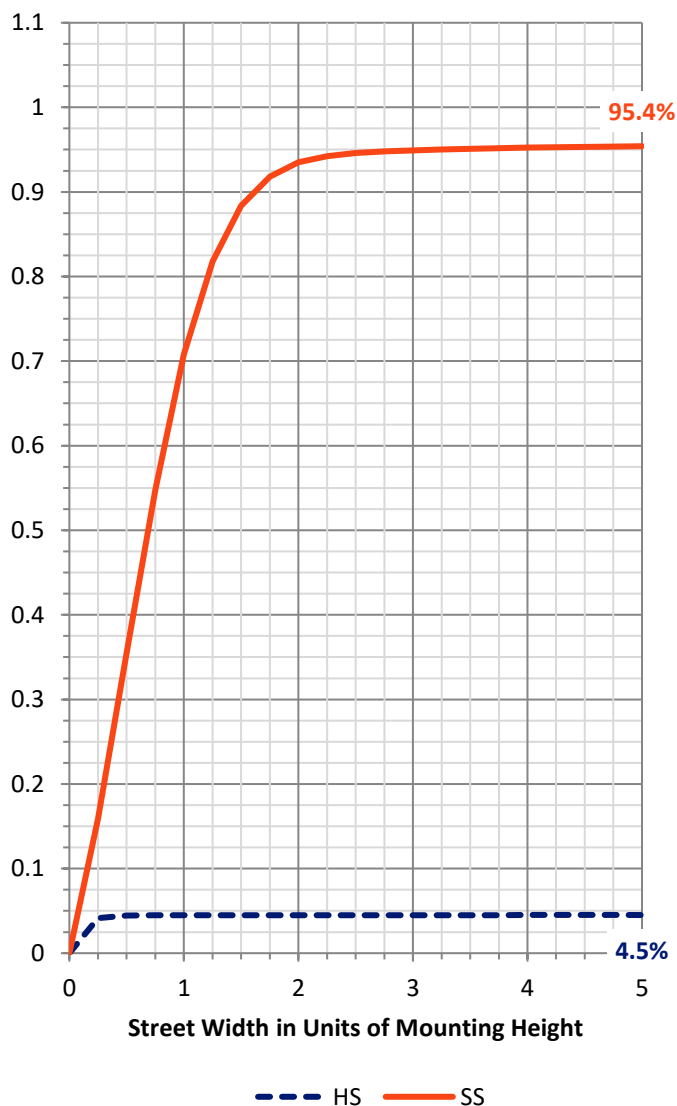
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 552.4 | 0.0 | 552.4 |
| | % Fixture | 4.5 | 0.0 | 4.5 |
| Street Side | Lumens | 11629.6 | 0.0 | 11629.6 |
| | % Fixture | 95.5 | 0.0 | 95.5 |
| Total | Lumens | 12182.0 | 0.0 | 12182.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 136.3 | 1.1 |
| 10°-20° | 502.6 | 4.1 |
| 20°-30° | 974.0 | 8.0 |
| 30°-40° | 1698.0 | 13.9 |
| 40°-50° | 2486.9 | 20.4 |
| 50°-60° | 2921.8 | 24.0 |
| 60°-70° | 2467.2 | 20.3 |
| 70°-80° | 956.3 | 7.9 |
| 80°-90° | 38.9 | 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° | 12182.0 | 100.0 |
| 0°-180° | 12182.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P481979

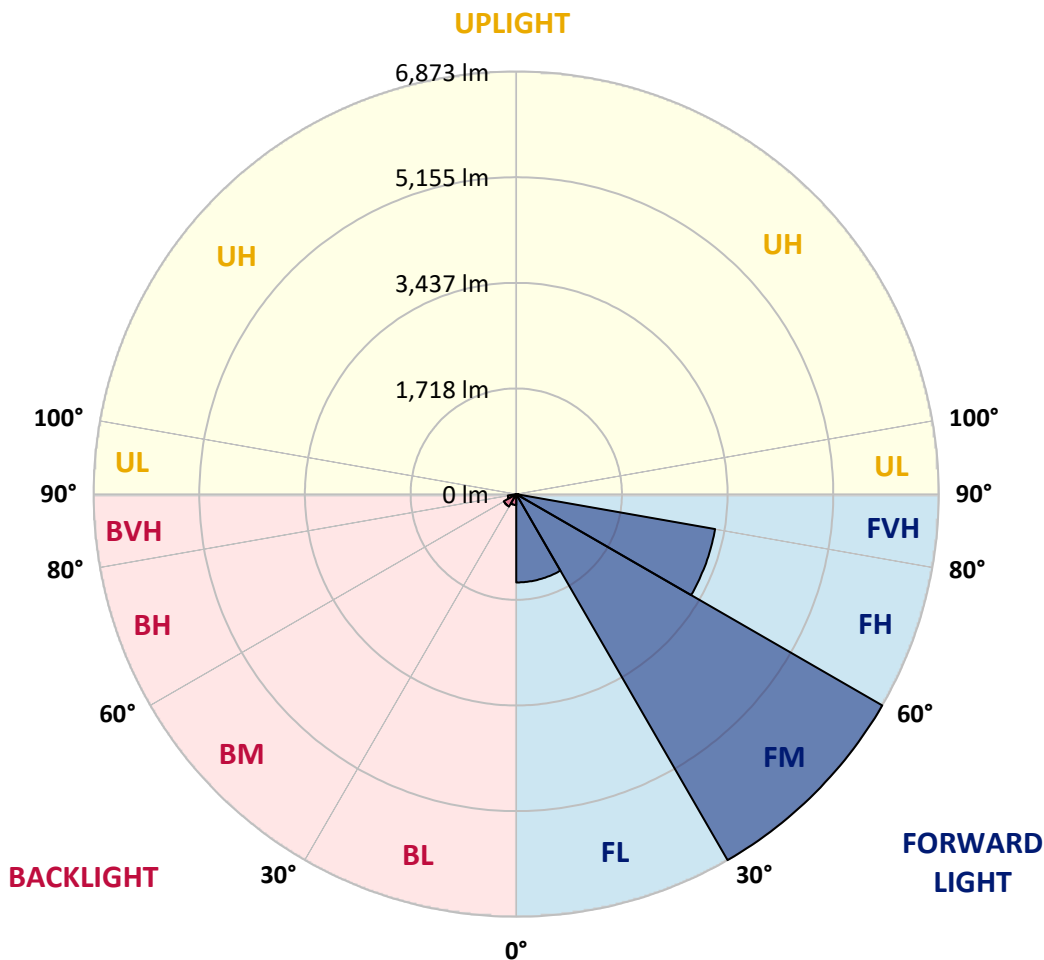
CATALOG NUMBER: IFLD-S-SA3B-730-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1436.4 | 11.8 | | | |
| FM (30°-60°) | 6873.3 | 56.4 | | | |
| FH (60°-80°) | 3284.0 | 27.0 | | | G2/5000 |
| FVH (80°-90°) | 35.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 176.5 | 1.4 | B1/500 | | |
| BM (30°-60°) | 233.4 | 1.9 | B1/1000 | | |
| BH (60°-80°) | 139.5 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.0 | 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-G2

Type II Medium





REPORT NUMBER: P481979

CATALOG NUMBER: IFLD-S-SA3B-730-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|
| 0° | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 |
| 2.5° | 1772.3 | 1738.8 | 1703.5 | 1693.4 | 1628.0 | 1554.1 | 1485.3 | 1418.2 | 1305.7 | 1307.4 | 1230.2 |
| 5° | 2284.2 | 2242.3 | 2213.7 | 2207.0 | 2104.6 | 1977.1 | 1873.0 | 1683.4 | 1497.1 | 1455.1 | 1314.1 |
| 7.5° | 2705.5 | 2692.1 | 2650.1 | 2614.9 | 2539.3 | 2383.2 | 2260.7 | 1988.8 | 1705.2 | 1658.2 | 1416.5 |
| 10° | 2960.6 | 2980.7 | 2999.2 | 2953.9 | 2895.1 | 2782.7 | 2614.9 | 2321.1 | 1941.8 | 1883.1 | 1549.1 |
| 12.5° | 3232.5 | 3198.9 | 3210.7 | 3247.6 | 3170.4 | 3145.2 | 2937.1 | 2663.5 | 2218.8 | 2106.3 | 1716.9 |
| 15° | 3303.0 | 3316.4 | 3344.9 | 3452.3 | 3504.4 | 3432.2 | 3252.6 | 2940.4 | 2505.8 | 2349.7 | 1873.0 |
| 17.5° | 3350.0 | 3343.3 | 3378.5 | 3539.6 | 3618.5 | 3687.3 | 3574.9 | 3249.3 | 2755.8 | 2616.5 | 2067.7 |
| 20° | 3408.7 | 3371.8 | 3449.0 | 3551.4 | 3734.3 | 3878.6 | 3873.6 | 3559.8 | 3017.7 | 2870.0 | 2260.7 |
| 22.5° | 3626.9 | 3598.4 | 3660.5 | 3670.5 | 3798.1 | 3999.5 | 4048.2 | 3813.2 | 3286.2 | 3104.9 | 2468.8 |
| 25° | 4029.7 | 4081.7 | 4007.9 | 3944.1 | 3982.7 | 4115.3 | 4150.5 | 4038.1 | 3556.4 | 3390.2 | 2677.0 |
| 27.5° | 4618.8 | 4612.1 | 4466.1 | 4383.8 | 4291.5 | 4274.7 | 4299.9 | 4247.9 | 3769.5 | 3650.4 | 2848.1 |
| 30° | 5251.5 | 5196.1 | 5061.9 | 4863.8 | 4660.7 | 4534.9 | 4499.6 | 4445.9 | 4019.6 | 3846.8 | 3017.7 |
| 32.5° | 5755.0 | 5785.2 | 5635.9 | 5377.4 | 5040.1 | 4870.5 | 4701.0 | 4642.3 | 4294.9 | 4142.1 | 3212.3 |
| 35° | 6218.2 | 6178.0 | 6058.8 | 5840.6 | 5538.5 | 5264.9 | 4999.8 | 4873.9 | 4625.5 | 4474.5 | 3427.2 |
| 37.5° | 6560.6 | 6611.0 | 6384.4 | 6176.3 | 5875.9 | 5649.3 | 5389.1 | 5113.9 | 4966.2 | 4764.8 | 3689.0 |
| 40° | 6884.5 | 6805.7 | 6652.9 | 6461.6 | 6183.0 | 6010.1 | 5838.9 | 5409.3 | 5328.7 | 5068.6 | 3984.4 |
| 42.5° | 6827.5 | 6832.5 | 6748.6 | 6594.2 | 6392.8 | 6293.8 | 6235.0 | 5768.5 | 5657.7 | 5491.5 | 4273.1 |
| 45° | 6594.2 | 6614.3 | 6642.9 | 6567.3 | 6584.1 | 6485.1 | 6642.9 | 6181.3 | 6072.2 | 5896.0 | 4605.4 |
| 47.5° | 6337.4 | 6371.0 | 6364.3 | 6501.9 | 6658.0 | 6691.5 | 7085.9 | 6639.5 | 6592.5 | 6495.2 | 5065.2 |
| 50° | 5911.1 | 5924.5 | 6053.8 | 6303.8 | 6517.0 | 6867.8 | 7418.3 | 7139.7 | 7211.8 | 7020.5 | 5612.4 |
| 52.5° | 5182.7 | 5231.4 | 5563.7 | 5921.2 | 6350.8 | 6956.7 | 7643.2 | 7883.2 | 8066.1 | 7869.7 | 6137.7 |
| 55° | 4261.3 | 4328.4 | 4655.7 | 5325.4 | 5954.7 | 6822.4 | 7847.9 | 8275.9 | 8646.8 | 8349.7 | 6456.6 |
| 57.5° | 3428.8 | 3435.6 | 3729.3 | 4420.7 | 5392.5 | 6558.9 | 7952.0 | 8467.2 | 8965.7 | 8727.4 | 6845.9 |
| 60° | 2613.2 | 2586.3 | 2849.8 | 3449.0 | 4445.9 | 5911.1 | 7691.8 | 8564.6 | 9363.5 | 9225.8 | 7314.2 |
| 62.5° | 1681.7 | 1639.7 | 1926.7 | 2510.8 | 3472.5 | 4831.9 | 7171.5 | 8566.2 | 9984.4 | 9932.4 | 8098.0 |
| 65° | 832.5 | 803.9 | 1050.6 | 1539.0 | 2403.4 | 3695.7 | 6429.7 | 8534.4 | 10743.0 | 10776.6 | 8861.6 |
| 67.5° | 439.7 | 449.8 | 528.7 | 780.4 | 1386.3 | 2611.5 | 5311.9 | 8160.1 | 11130.7 | 11318.7 | 9046.2 |
| 68° | 404.5 | 407.8 | 469.9 | 649.5 | 1203.4 | 2421.8 | 5046.8 | 8051.0 | 11161.0 | 11392.6 | 8943.9 |
| 70° | 329.0 | 334.0 | 355.8 | 407.8 | 651.2 | 1576.0 | 3893.7 | 7124.5 | 10706.1 | 10917.6 | 8096.3 |
| 72.5° | 261.8 | 276.9 | 290.4 | 312.2 | 382.7 | 827.4 | 2421.8 | 5551.9 | 8844.8 | 8868.3 | 6302.2 |
| 75° | 199.7 | 211.5 | 238.3 | 256.8 | 298.7 | 454.8 | 1153.0 | 3385.2 | 5803.7 | 5518.4 | 3712.5 |
| 77.5° | 154.4 | 164.5 | 176.2 | 201.4 | 250.1 | 307.1 | 352.5 | 1436.7 | 2465.5 | 2029.1 | 1049.0 |
| 80° | 92.3 | 99.0 | 137.6 | 157.8 | 218.2 | 208.1 | 139.3 | 399.4 | 500.1 | 394.4 | 191.3 |
| 82.5° | 53.7 | 58.7 | 78.9 | 120.8 | 152.7 | 112.4 | 82.2 | 124.2 | 122.5 | 107.4 | 63.8 |
| 85° | 1.7 | 3.4 | 43.6 | 72.2 | 53.7 | 30.2 | 50.4 | 52.0 | 43.6 | 40.3 | 28.5 |
| 87.5° | 0.0 | 1.7 | 11.7 | 10.1 | 11.7 | 6.7 | 10.1 | 13.4 | 16.8 | 15.1 | 11.7 |
| 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: P481979

CATALOG NUMBER: IFLD-S-SA3B-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 | 1166.4 |
| 2.5° | 1178.2 | 1141.3 | 1059.0 | 996.9 | 929.8 | 889.5 | 849.2 | 824.1 | 810.6 | 802.2 | 809.0 |
| 5° | 1208.4 | 1131.2 | 998.6 | 881.1 | 803.9 | 751.9 | 699.9 | 673.0 | 647.8 | 634.4 | 642.8 |
| 7.5° | 1275.5 | 1159.7 | 939.9 | 812.3 | 721.7 | 641.1 | 575.7 | 523.6 | 493.4 | 466.6 | 471.6 |
| 10° | 1357.8 | 1176.5 | 941.5 | 772.0 | 641.1 | 513.6 | 421.3 | 355.8 | 318.9 | 295.4 | 293.7 |
| 12.5° | 1441.7 | 1242.0 | 948.3 | 731.8 | 542.1 | 386.0 | 276.9 | 228.3 | 206.4 | 194.7 | 194.7 |
| 15° | 1569.2 | 1300.7 | 931.5 | 657.9 | 411.2 | 251.8 | 189.7 | 172.9 | 164.5 | 154.4 | 156.1 |
| 17.5° | 1680.0 | 1394.7 | 923.1 | 547.1 | 282.0 | 181.3 | 157.8 | 139.3 | 130.9 | 120.8 | 120.8 |
| 20° | 1829.4 | 1453.4 | 877.8 | 422.9 | 194.7 | 151.1 | 127.6 | 110.8 | 97.3 | 89.0 | 90.6 |
| 22.5° | 1965.3 | 1498.8 | 797.2 | 288.7 | 149.4 | 119.2 | 94.0 | 77.2 | 65.5 | 55.4 | 57.1 |
| 25° | 2113.0 | 1544.1 | 679.7 | 177.9 | 105.7 | 73.8 | 50.4 | 36.9 | 25.2 | 18.5 | 18.5 |
| 27.5° | 2218.8 | 1557.5 | 527.0 | 105.7 | 63.8 | 33.6 | 11.7 | 1.7 | 0.0 | 0.0 | 0.0 |
| 30° | 2326.2 | 1562.5 | 364.2 | 57.1 | 25.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 2448.7 | 1560.9 | 228.3 | 30.2 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 2542.7 | 1532.3 | 109.1 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 2685.3 | 1490.4 | 33.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 2848.1 | 1414.8 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 2994.2 | 1337.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 3160.3 | 1242.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 3452.3 | 1201.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 3833.3 | 1169.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 4068.3 | 1075.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 4190.8 | 978.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 4372.1 | 931.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 4640.6 | 934.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 5060.2 | 981.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 5291.8 | 934.8 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5095.4 | 748.5 | 31.9 | 8.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68° | 4925.9 | 688.1 | 31.9 | 8.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 4071.7 | 448.1 | 30.2 | 8.4 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2965.6 | 248.4 | 25.2 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 1725.3 | 124.2 | 18.5 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 449.8 | 62.1 | 15.1 | 8.4 | 5.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 89.0 | 40.3 | 13.4 | 10.1 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 42.0 | 28.5 | 13.4 | 10.1 | 8.4 | 5.0 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 21.8 | 13.4 | 13.4 | 10.1 | 10.1 | 6.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 10.1 | 5.0 | 5.0 | 5.0 | 5.0 | 3.4 | 1.7 | 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)