

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: P636772

Luminaire Tested: **IFLD-S-SA3B-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636772
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8690.6 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

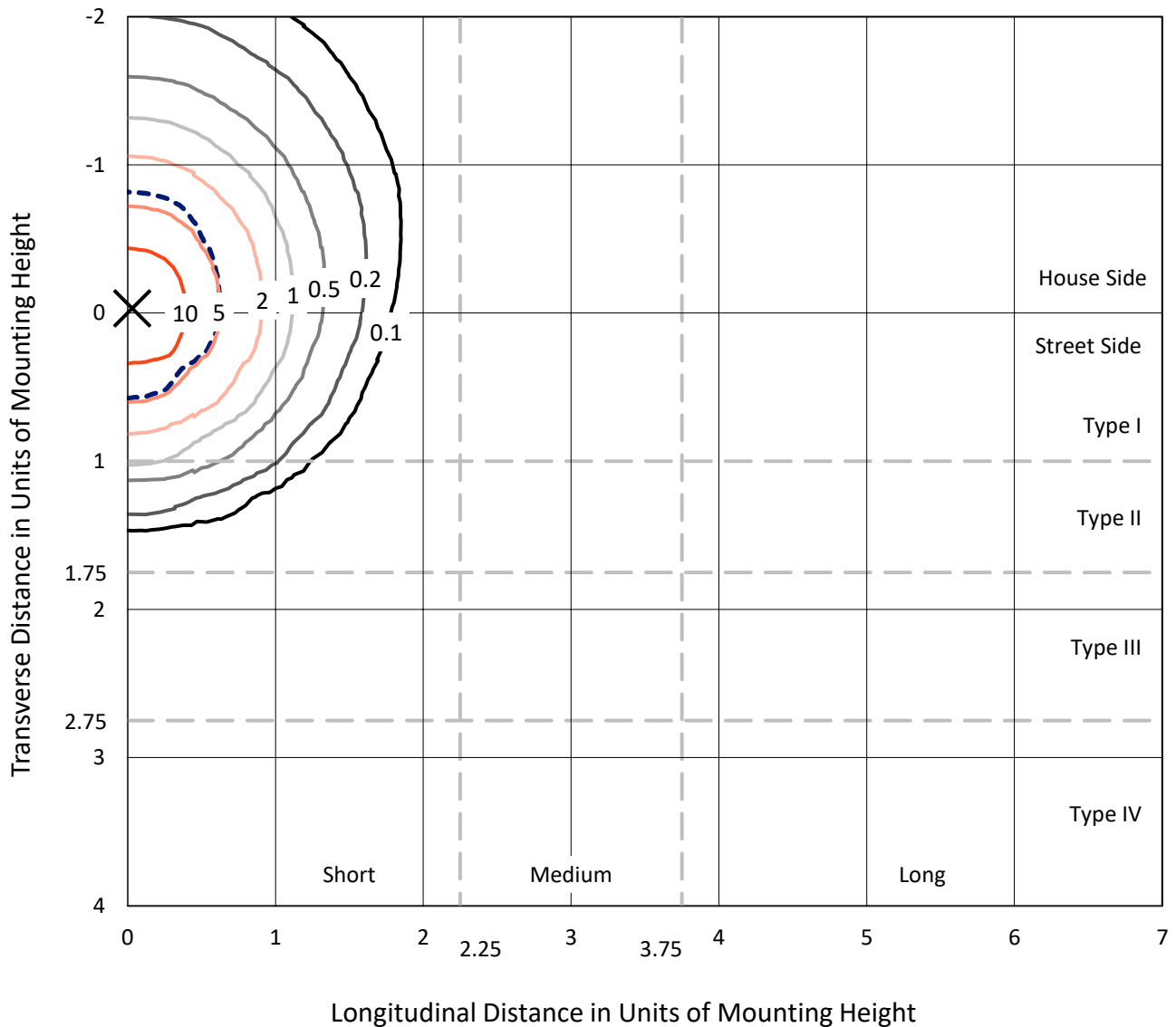
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

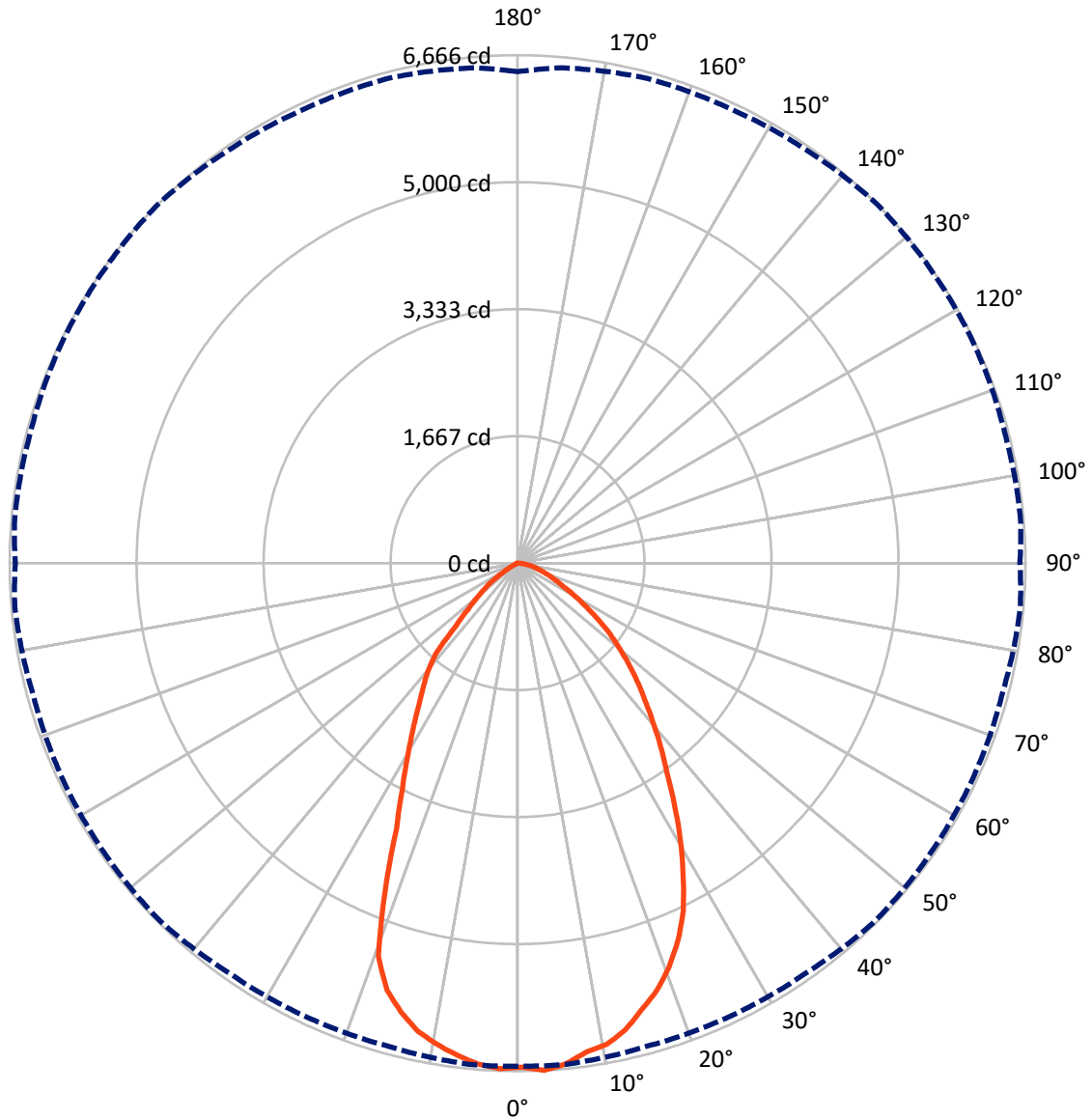
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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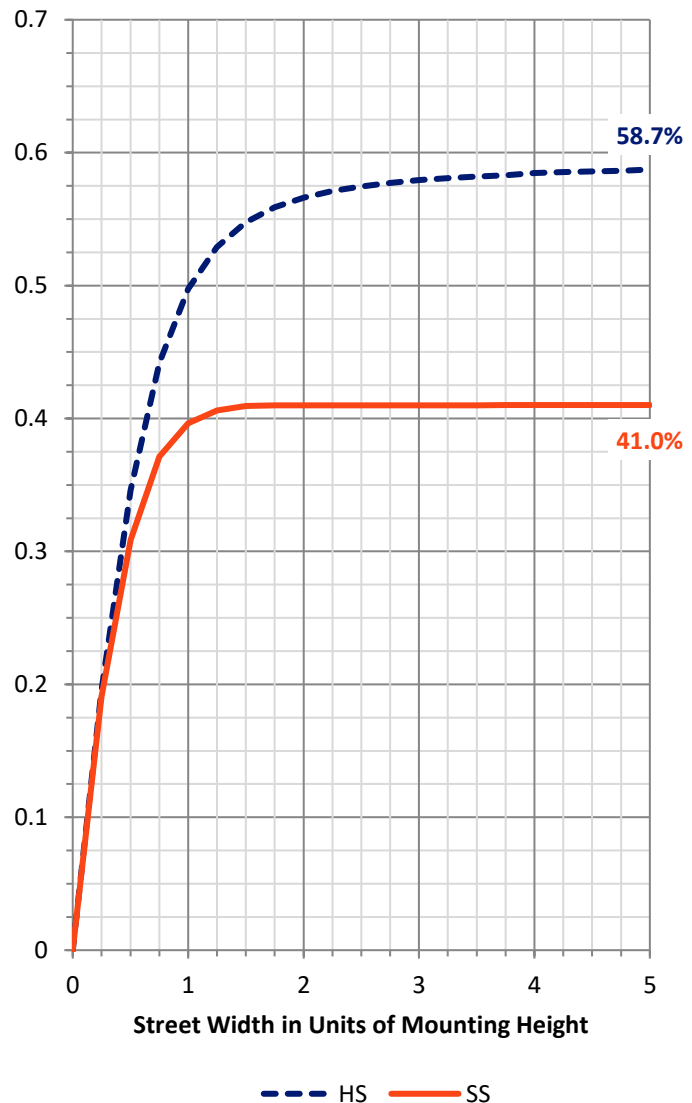
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 5147.0 | 0.0 | 5147.0 |
| | % Fixture | 59.2 | 0.0 | 59.2 |
| Street Side | Lumens | 3543.6 | 0.0 | 3543.6 |
| | % Fixture | 40.8 | 0.0 | 40.8 |
| Total | Lumens | 8690.6 | 0.0 | 8690.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 620.2 | 7.1 |
| 10°-20° | 1663.2 | 19.1 |
| 20°-30° | 2028.4 | 23.3 |
| 30°-40° | 1851.9 | 21.3 |
| 40°-50° | 1338.3 | 15.4 |
| 50°-60° | 730.7 | 8.4 |
| 60°-70° | 302.1 | 3.5 |
| 70°-80° | 122.4 | 1.4 |
| 80°-90° | 33.3 | 0.4 |
| 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° | 8690.6 | 100.0 |
| 0°-180° | 8690.6 | 100.0 |



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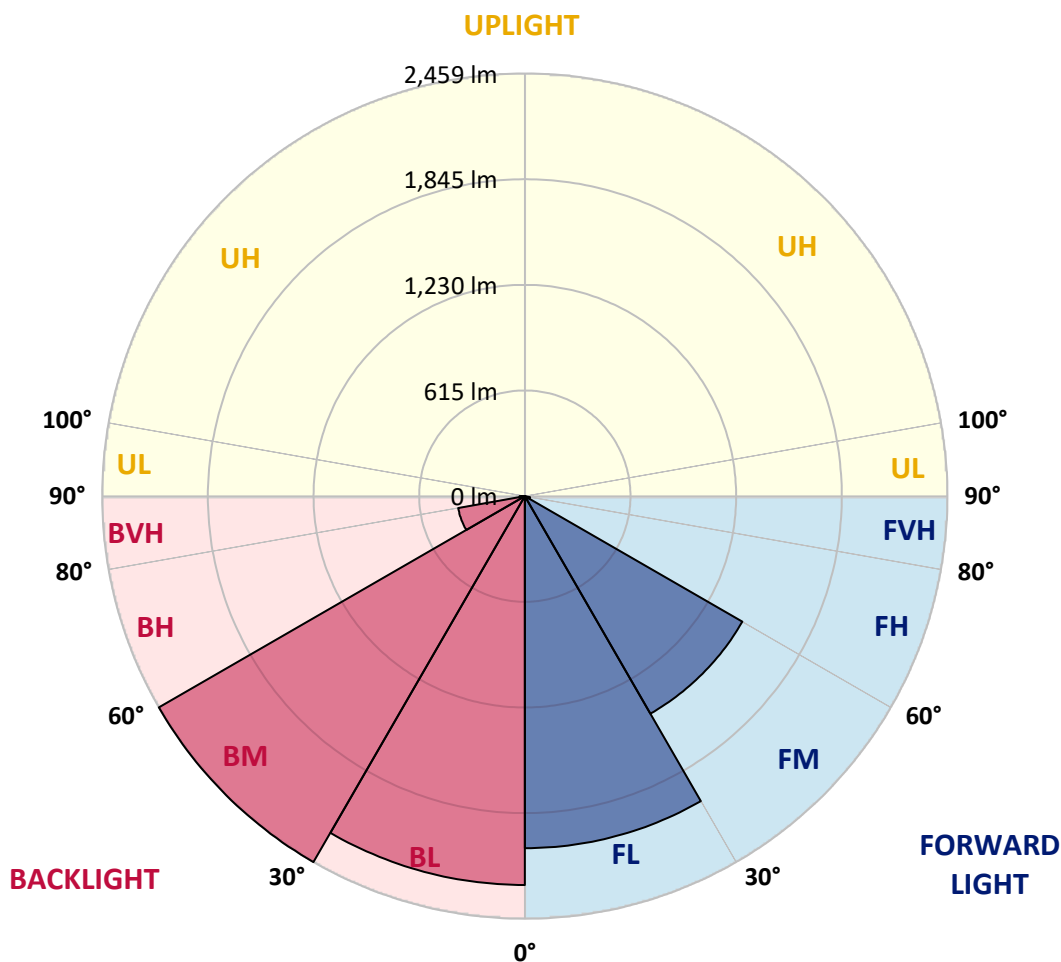
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2048.7 | 23.6 | | | |
| FM (30°-60°) | 1461.6 | 16.8 | | | |
| FH (60°-80°) | 30.6 | 0.4 | | | G0/660 |
| FVH (80°-90°) | 2.7 | 0.0 | | | G0/10 |
| BL (0°-30°) | 2263.2 | 26.0 | B3/2500 | | |
| BM (30°-60°) | 2459.4 | 28.3 | B2/2500 | | |
| BH (60°-80°) | 393.9 | 4.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 30.6 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 |
| 2.5° | 6601.3 | 6609.9 | 6563.4 | 6568.3 | 6576.8 | 6639.3 | 6623.4 | 6608.7 | 6587.9 | 6623.4 |
| 5° | 6592.8 | 6597.7 | 6548.7 | 6531.6 | 6538.9 | 6595.2 | 6543.8 | 6543.8 | 6538.9 | 6532.8 |
| 7.5° | 6526.7 | 6529.1 | 6491.2 | 6460.6 | 6480.2 | 6505.9 | 6467.9 | 6486.3 | 6459.4 | 6480.2 |
| 10° | 6427.5 | 6411.6 | 6366.3 | 6357.8 | 6379.8 | 6404.3 | 6378.6 | 6395.7 | 6371.2 | 6387.2 |
| 12.5° | 6281.9 | 6257.4 | 6220.7 | 6209.7 | 6247.6 | 6280.7 | 6259.9 | 6250.1 | 6218.3 | 6257.4 |
| 15° | 5720.2 | 5701.8 | 5785.0 | 5930.7 | 6061.6 | 6089.8 | 6067.7 | 6077.5 | 6011.4 | 6022.5 |
| 17.5° | 4708.1 | 4673.8 | 4763.1 | 5108.3 | 5600.2 | 5859.7 | 5840.1 | 5776.5 | 5678.6 | 5700.6 |
| 20° | 4278.5 | 4268.7 | 4258.9 | 4340.9 | 4684.8 | 5471.7 | 5498.7 | 5337.1 | 5197.6 | 5167.0 |
| 22.5° | 4036.2 | 4032.5 | 4022.7 | 4041.1 | 4131.6 | 4637.1 | 4945.5 | 4796.2 | 4703.2 | 4694.6 |
| 25° | 3814.7 | 3808.5 | 3779.2 | 3802.4 | 3802.4 | 3831.8 | 4227.1 | 4317.7 | 4235.7 | 4225.9 |
| 27.5° | 3589.5 | 3578.5 | 3573.6 | 3584.6 | 3528.3 | 3330.0 | 3430.4 | 3872.2 | 3829.4 | 3831.8 |
| 30° | 3345.9 | 3342.3 | 3328.8 | 3352.1 | 3178.3 | 2932.3 | 2868.7 | 3468.3 | 3476.9 | 3474.4 |
| 32.5° | 2983.7 | 2999.6 | 3060.8 | 3086.5 | 2800.1 | 2597.0 | 2490.5 | 3000.8 | 3175.8 | 3172.2 |
| 35° | 2167.4 | 2167.4 | 2366.9 | 2737.7 | 2453.8 | 2300.8 | 2243.3 | 2544.3 | 2878.4 | 2890.7 |
| 37.5° | 1781.9 | 1788.0 | 1827.2 | 1996.1 | 2117.2 | 2063.4 | 2046.2 | 2141.7 | 2496.6 | 2516.2 |
| 40° | 1603.2 | 1603.2 | 1603.2 | 1533.5 | 1529.8 | 1859.0 | 1849.2 | 1818.6 | 2156.4 | 2199.2 |
| 42.5° | 1440.4 | 1444.1 | 1446.6 | 1270.3 | 1172.4 | 1606.9 | 1584.9 | 1538.4 | 1851.7 | 1901.8 |
| 45° | 1272.8 | 1278.9 | 1286.2 | 1062.3 | 1019.4 | 1156.5 | 1341.3 | 1289.9 | 1550.6 | 1615.5 |
| 47.5° | 777.1 | 786.9 | 953.4 | 900.7 | 905.6 | 892.2 | 1094.1 | 1085.5 | 1271.6 | 1363.3 |
| 50° | 525.0 | 528.7 | 544.6 | 571.5 | 777.1 | 701.3 | 774.7 | 898.3 | 965.6 | 1105.1 |
| 52.5° | 440.6 | 446.7 | 407.5 | 370.8 | 510.3 | 548.3 | 540.9 | 667.0 | 693.9 | 866.5 |
| 55° | 309.6 | 329.2 | 310.9 | 307.2 | 290.0 | 425.9 | 410.0 | 512.8 | 529.9 | 658.4 |
| 57.5° | 31.8 | 36.7 | 63.6 | 228.9 | 189.7 | 241.1 | 292.5 | 375.7 | 392.8 | 485.9 |
| 60° | 2.4 | 2.4 | 6.1 | 31.8 | 138.3 | 144.4 | 201.9 | 231.3 | 264.3 | 339.0 |
| 62.5° | 0.0 | 1.2 | 2.4 | 4.9 | 22.0 | 77.1 | 101.6 | 121.2 | 159.1 | 219.1 |
| 65° | 0.0 | 0.0 | 1.2 | 3.7 | 4.9 | 29.4 | 39.2 | 63.6 | 86.9 | 135.8 |
| 67.5° | 0.0 | 0.0 | 1.2 | 2.4 | 3.7 | 7.3 | 13.5 | 23.3 | 46.5 | 77.1 |
| 70° | 0.0 | 0.0 | 1.2 | 2.4 | 3.7 | 6.1 | 9.8 | 14.7 | 20.8 | 41.6 |
| 72.5° | 0.0 | 0.0 | 1.2 | 1.2 | 2.4 | 6.1 | 7.3 | 9.8 | 14.7 | 20.8 |
| 75° | 0.0 | 0.0 | 1.2 | 1.2 | 3.7 | 7.3 | 6.1 | 7.3 | 9.8 | 13.5 |
| 77.5° | 0.0 | 0.0 | 1.2 | 2.4 | 3.7 | 7.3 | 6.1 | 7.3 | 7.3 | 8.6 |
| 80° | 0.0 | 0.0 | 1.2 | 2.4 | 4.9 | 8.6 | 7.3 | 7.3 | 6.1 | 6.1 |
| 82.5° | 0.0 | 0.0 | 1.2 | 3.7 | 4.9 | 11.0 | 11.0 | 9.8 | 4.9 | 3.7 |
| 85° | 0.0 | 0.0 | 2.4 | 4.9 | 7.3 | 12.2 | 12.2 | 9.8 | 3.7 | 2.4 |
| 87.5° | 0.0 | 0.0 | 2.4 | 3.7 | 6.1 | 8.6 | 12.2 | 9.8 | 3.7 | 1.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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 CATALOG NUMBER: IFLD-S-SA3B-935-U-77-VI

CANDELA DISTRIBUTION (continued):

| 90° | | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|--------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6613.6 | 0° | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 | 6613.6 |
| 6592.8 | 2.5° | 6625.8 | 6618.5 | 6642.9 | 6652.7 | 6666.2 | 6614.8 | 6583.0 | 6584.2 | 6525.4 |
| 6518.1 | 5° | 6557.3 | 6558.5 | 6590.3 | 6587.9 | 6601.3 | 6573.2 | 6560.9 | 6540.1 | 6488.7 |
| 6423.9 | 7.5° | 6470.4 | 6459.4 | 6490.0 | 6513.2 | 6478.9 | 6498.5 | 6470.4 | 6480.2 | 6449.6 |
| 6340.6 | 10° | 6403.1 | 6377.4 | 6405.5 | 6421.4 | 6422.6 | 6403.1 | 6376.1 | 6350.4 | 6339.4 |
| 6210.9 | 12.5° | 6253.8 | 6220.7 | 6268.4 | 6290.5 | 6286.8 | 6248.9 | 6218.3 | 6224.4 | 6188.9 |
| 5983.3 | 15° | 6048.2 | 6049.4 | 6083.6 | 6104.4 | 6084.9 | 6076.3 | 6078.7 | 6064.1 | 6033.5 |
| 5668.8 | 17.5° | 5733.6 | 5752.0 | 5842.6 | 5892.7 | 5903.7 | 5886.6 | 5878.0 | 5860.9 | 5830.3 |
| 5167.0 | 20° | 5209.8 | 5320.0 | 5481.5 | 5636.9 | 5667.5 | 5662.6 | 5632.1 | 5624.7 | 5607.6 |
| 4670.1 | 22.5° | 4749.7 | 4831.7 | 5018.9 | 5261.2 | 5386.1 | 5398.3 | 5361.6 | 5350.6 | 5332.2 |
| 4225.9 | 25° | 4273.6 | 4361.7 | 4530.6 | 4793.7 | 5052.0 | 5104.6 | 5098.5 | 5065.4 | 5045.8 |
| 3831.8 | 27.5° | 3872.2 | 3960.3 | 4113.3 | 4350.7 | 4627.3 | 4796.2 | 4812.1 | 4759.5 | 4758.2 |
| 3480.6 | 30° | 3509.9 | 3631.1 | 3747.4 | 3940.7 | 4208.7 | 4462.1 | 4489.0 | 4452.3 | 4456.0 |
| 3158.7 | 32.5° | 3226.0 | 3326.4 | 3425.5 | 3555.2 | 3778.0 | 4072.9 | 4178.1 | 4143.9 | 4130.4 |
| 2890.7 | 35° | 2936.0 | 3004.5 | 3106.1 | 3224.8 | 3376.5 | 3669.0 | 3851.4 | 3825.7 | 3812.2 |
| 2528.4 | 37.5° | 2605.5 | 2723.0 | 2796.4 | 2929.8 | 3048.6 | 3281.1 | 3538.1 | 3534.4 | 3506.3 |
| 2220.0 | 40° | 2266.5 | 2390.1 | 2501.5 | 2636.1 | 2727.9 | 2912.7 | 3197.9 | 3196.6 | 3200.3 |
| 1900.6 | 42.5° | 1959.3 | 2073.2 | 2207.8 | 2354.6 | 2442.8 | 2577.4 | 2883.3 | 2900.5 | 2921.3 |
| 1637.5 | 45° | 1681.5 | 1784.3 | 1909.2 | 2087.8 | 2194.3 | 2271.4 | 2543.1 | 2621.4 | 2620.2 |
| 1402.5 | 47.5° | 1431.9 | 1528.6 | 1633.8 | 1807.6 | 1943.4 | 2013.2 | 2238.4 | 2349.7 | 2342.4 |
| 1150.4 | 50° | 1201.8 | 1287.5 | 1397.6 | 1523.7 | 1706.0 | 1767.2 | 1934.9 | 2081.7 | 2070.7 |
| 916.6 | 52.5° | 966.8 | 1085.5 | 1178.5 | 1293.6 | 1485.7 | 1545.7 | 1675.4 | 1818.6 | 1810.0 |
| 687.8 | 55° | 753.9 | 868.9 | 981.5 | 1080.6 | 1242.2 | 1331.5 | 1424.5 | 1571.4 | 1568.9 |
| 538.5 | 57.5° | 570.3 | 696.4 | 802.8 | 897.1 | 1025.6 | 1135.7 | 1210.4 | 1343.8 | 1360.9 |
| 368.4 | 60° | 422.2 | 518.9 | 633.9 | 739.2 | 840.8 | 954.6 | 1004.8 | 1135.7 | 1143.1 |
| 252.1 | 62.5° | 287.6 | 394.1 | 506.7 | 602.1 | 678.0 | 795.5 | 840.8 | 948.5 | 961.9 |
| 161.5 | 65° | 199.5 | 268.0 | 396.5 | 465.1 | 558.1 | 658.4 | 703.7 | 789.4 | 816.3 |
| 93.0 | 67.5° | 132.2 | 190.9 | 309.6 | 372.0 | 463.8 | 532.4 | 589.9 | 659.6 | 689.0 |
| 58.7 | 70° | 72.2 | 140.7 | 221.5 | 293.7 | 373.3 | 439.4 | 495.6 | 551.9 | 577.6 |
| 26.9 | 72.5° | 49.0 | 94.2 | 154.2 | 232.5 | 301.1 | 365.9 | 416.1 | 457.7 | 458.9 |
| 15.9 | 75° | 24.5 | 63.6 | 117.5 | 179.9 | 235.0 | 298.6 | 343.9 | 368.4 | 339.0 |
| 9.8 | 77.5° | 14.7 | 46.5 | 95.5 | 144.4 | 190.9 | 241.1 | 266.8 | 280.3 | 232.5 |
| 7.3 | 80° | 8.6 | 33.0 | 74.7 | 115.0 | 132.2 | 177.5 | 201.9 | 205.6 | 155.4 |
| 4.9 | 82.5° | 6.1 | 24.5 | 58.7 | 84.4 | 80.8 | 124.8 | 151.8 | 146.9 | 99.1 |
| 3.7 | 85° | 3.7 | 17.1 | 36.7 | 52.6 | 49.0 | 82.0 | 88.1 | 90.6 | 57.5 |
| 2.4 | 87.5° | 2.4 | 9.8 | 19.6 | 28.1 | 23.3 | 35.5 | 35.5 | 42.8 | 28.1 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



| 180° |
|--------|
| 6613.6 |
| 6449.6 |
| 6476.5 |
| 6398.2 |
| 6290.5 |
| 6158.3 |
| 6002.9 |
| 5816.8 |
| 5568.4 |
| 5327.3 |
| 5025.0 |
| 4755.8 |
| 4437.6 |
| 4131.6 |
| 3793.9 |
| 3529.5 |
| 3200.3 |
| 2910.3 |
| 2622.7 |
| 2344.9 |
| 2080.5 |
| 1828.4 |
| 1575.1 |
| 1353.6 |
| 1154.1 |
| 964.4 |
| 810.2 |
| 685.3 |
| 567.9 |
| 447.9 |
| 317.0 |
| 224.0 |
| 145.6 |
| 91.8 |
| 52.6 |
| 24.5 |
| 0.0 |

(END OF REPORT)