

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: P476983

Luminaire Tested: **IFLD-S-SA2C-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476983
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14293.3 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

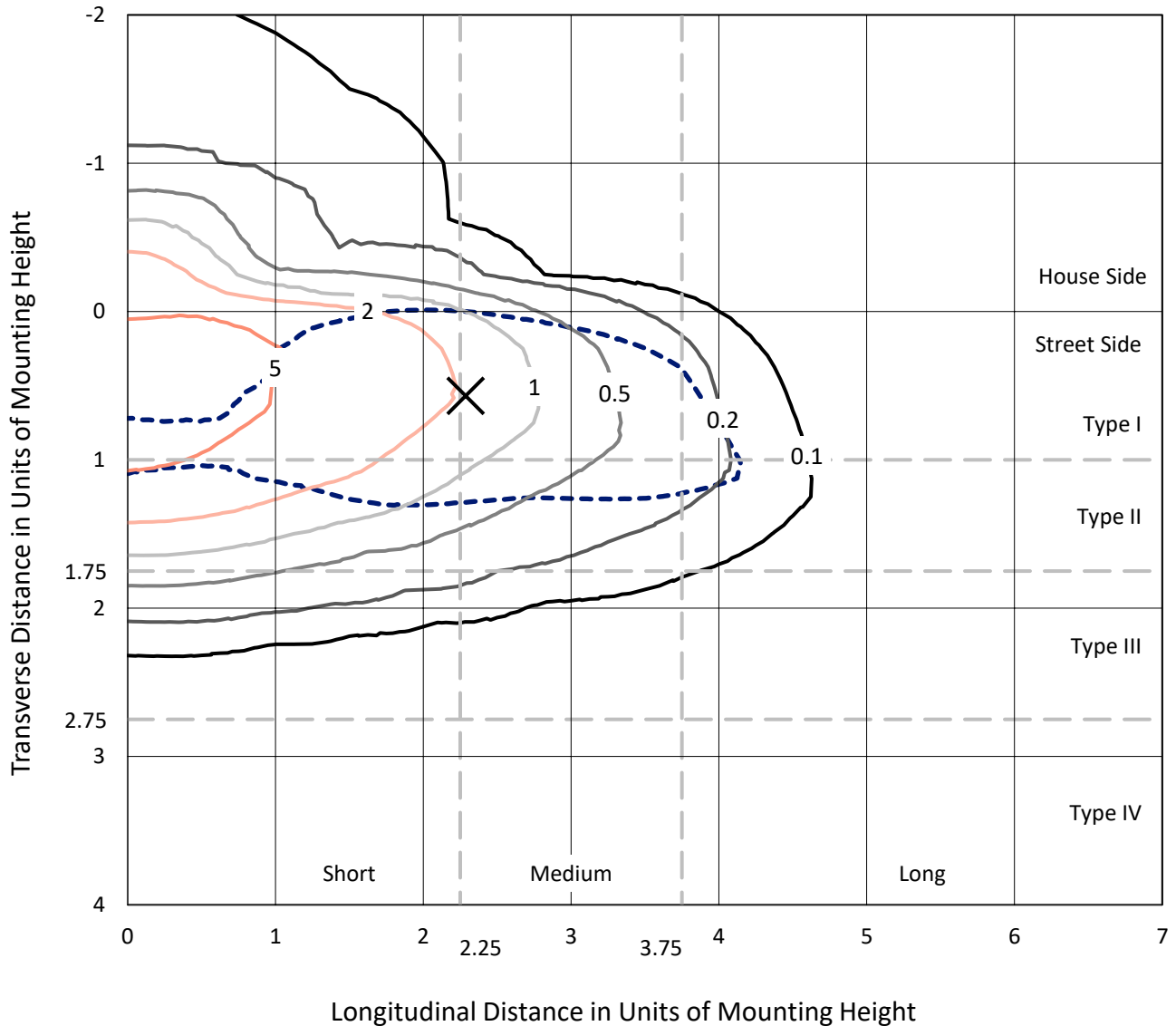
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

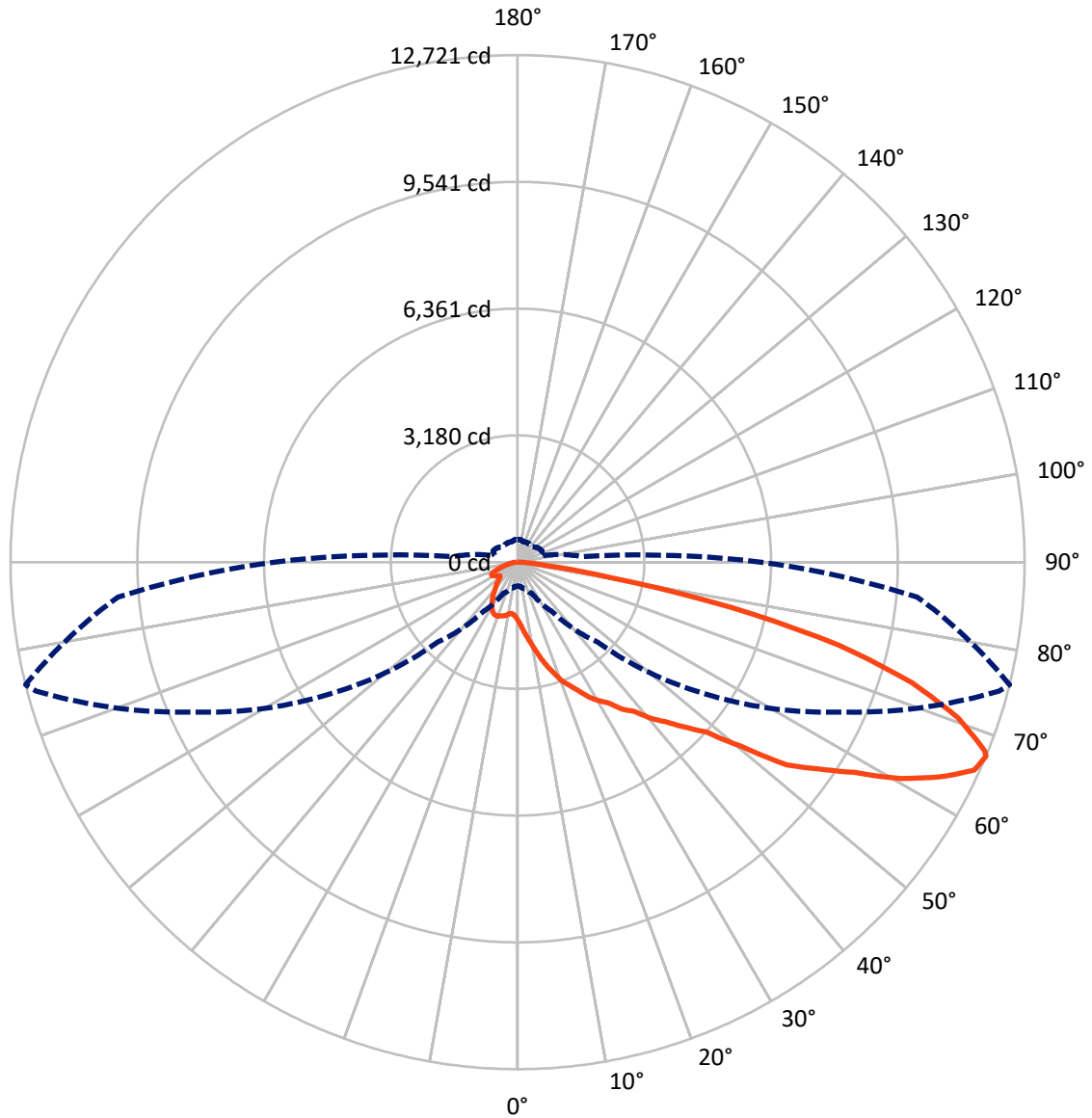
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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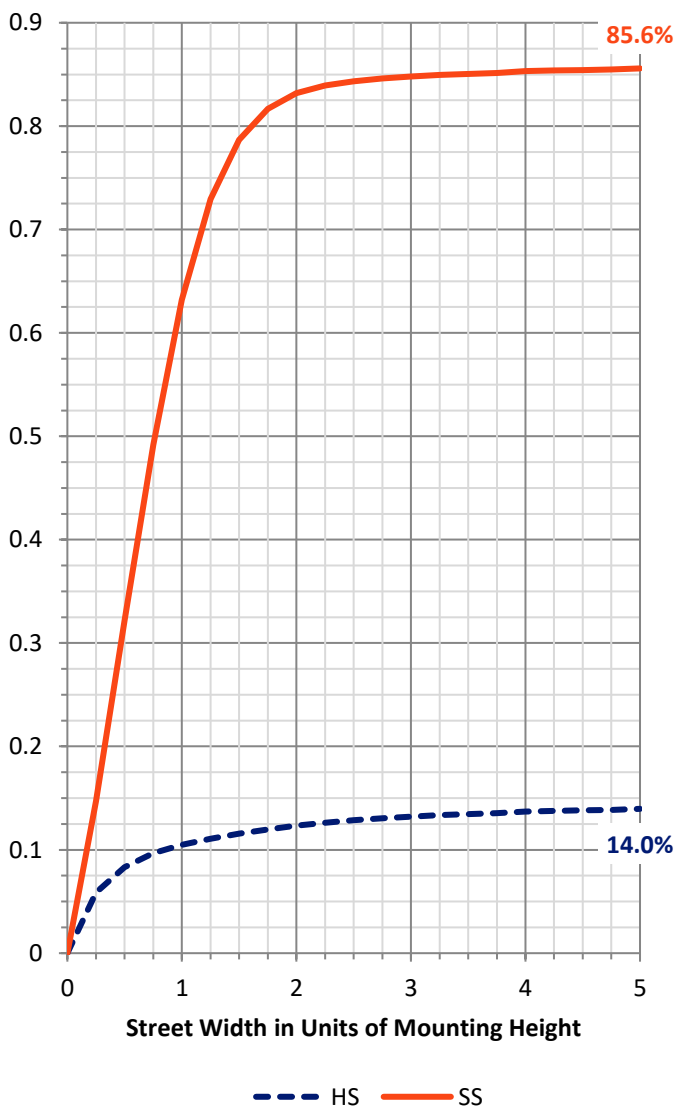
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2033.4 | 0.0 | 2033.4 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 12259.9 | 0.0 | 12259.9 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 14293.3 | 0.0 | 14293.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 169.4 | 1.2 |
| 10°-20° | 635.5 | 4.4 |
| 20°-30° | 1181.4 | 8.3 |
| 30°-40° | 1872.8 | 13.1 |
| 40°-50° | 2590.2 | 18.1 |
| 50°-60° | 3186.2 | 22.3 |
| 60°-70° | 2964.9 | 20.7 |
| 70°-80° | 1487.8 | 10.4 |
| 80°-90° | 205.1 | 1.4 |
| 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° | 14293.3 | 100.0 |
| 0°-180° | 14293.3 | 100.0 |

Coefficient of Utilization

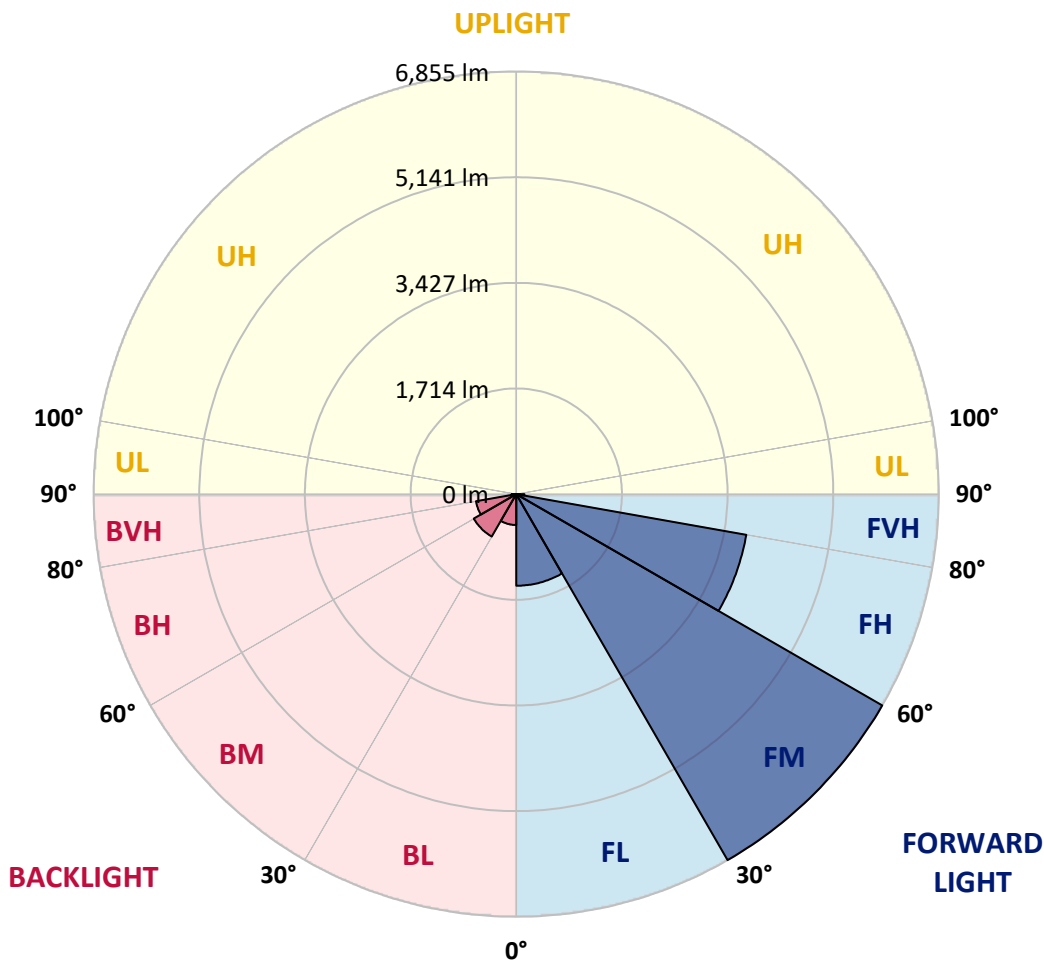


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1485.6 | 10.4 | | | |
| FM (30°-60°) | 6854.6 | 48.0 | | | |
| FH (60°-80°) | 3789.0 | 26.5 | | | G2/5000 |
| FVH (80°-90°) | 130.7 | 0.9 | | | G2/225 |
| BL (0°-30°) | 500.7 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 794.6 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 663.6 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 74.4 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 |
| 2.5° | 2029.5 | 2005.1 | 1980.7 | 1928.5 | 1910.6 | 1861.8 | 1772.2 | 1672.8 | 1591.4 | 1580.0 | 1523.0 |
| 5° | 2518.2 | 2482.4 | 2474.2 | 2444.9 | 2352.0 | 2257.6 | 2111.0 | 1951.4 | 1752.6 | 1767.3 | 1571.8 |
| 7.5° | 2884.7 | 2863.5 | 2819.5 | 2791.8 | 2736.5 | 2611.0 | 2459.5 | 2247.8 | 1995.3 | 1946.5 | 1681.0 |
| 10° | 3161.6 | 3132.3 | 3130.6 | 3106.2 | 3076.9 | 2948.2 | 2832.6 | 2547.5 | 2223.4 | 2156.6 | 1814.5 |
| 12.5° | 3301.7 | 3296.8 | 3383.1 | 3383.1 | 3371.7 | 3317.9 | 3119.2 | 2858.6 | 2440.0 | 2417.2 | 1969.3 |
| 15° | 3453.1 | 3412.4 | 3487.3 | 3544.4 | 3573.7 | 3601.4 | 3436.9 | 3161.6 | 2716.9 | 2672.9 | 2135.4 |
| 17.5° | 3453.1 | 3449.9 | 3524.8 | 3619.3 | 3772.4 | 3808.2 | 3718.6 | 3440.1 | 2946.6 | 2914.0 | 2317.8 |
| 20° | 3394.5 | 3441.7 | 3493.9 | 3620.9 | 3787.1 | 3932.0 | 3958.1 | 3725.2 | 3200.7 | 3174.6 | 2524.7 |
| 22.5° | 3668.1 | 3622.5 | 3676.3 | 3725.2 | 3853.8 | 4073.7 | 4145.4 | 3976.0 | 3467.8 | 3368.4 | 2712.0 |
| 25° | 4127.5 | 4096.5 | 4057.4 | 3985.8 | 4039.5 | 4135.6 | 4244.8 | 4161.7 | 3695.8 | 3585.1 | 2892.8 |
| 27.5° | 4575.4 | 4577.0 | 4492.3 | 4336.0 | 4220.3 | 4239.9 | 4368.6 | 4324.6 | 3888.0 | 3839.2 | 3016.6 |
| 30° | 5212.3 | 5173.2 | 5078.7 | 4867.0 | 4640.6 | 4454.9 | 4433.7 | 4476.1 | 4132.4 | 4037.9 | 3194.2 |
| 32.5° | 5689.5 | 5697.7 | 5564.1 | 5259.5 | 4950.0 | 4798.6 | 4612.9 | 4630.8 | 4287.1 | 4217.1 | 3335.9 |
| 35° | 6075.6 | 6065.8 | 5971.3 | 5718.9 | 5352.4 | 5169.9 | 4919.1 | 4816.5 | 4647.1 | 4536.3 | 3552.5 |
| 37.5° | 6492.6 | 6412.7 | 6259.6 | 5974.6 | 5740.0 | 5487.6 | 5243.2 | 5011.9 | 4886.5 | 4753.0 | 3738.2 |
| 40° | 6660.3 | 6660.3 | 6455.1 | 6324.8 | 6046.3 | 5855.7 | 5697.7 | 5269.3 | 5178.1 | 5152.0 | 3976.0 |
| 42.5° | 6541.4 | 6614.7 | 6530.0 | 6381.8 | 6267.8 | 6026.7 | 5984.4 | 5536.4 | 5538.1 | 5485.9 | 4261.0 |
| 45° | 6530.0 | 6429.0 | 6359.0 | 6396.5 | 6342.7 | 6329.7 | 6437.2 | 5906.2 | 5915.9 | 5909.4 | 4643.8 |
| 47.5° | 6202.6 | 6157.0 | 6261.3 | 6323.2 | 6367.1 | 6569.1 | 6878.6 | 6347.6 | 6417.6 | 6368.8 | 5085.2 |
| 50° | 5876.9 | 5868.7 | 5933.9 | 6158.6 | 6349.2 | 6681.5 | 7298.8 | 7028.4 | 7258.1 | 7254.9 | 5885.0 |
| 52.5° | 4984.3 | 5070.6 | 5326.3 | 5801.9 | 6272.7 | 6834.6 | 7616.5 | 7898.2 | 8336.4 | 8455.3 | 6547.9 |
| 55° | 4130.7 | 4085.1 | 4463.0 | 5153.7 | 5938.8 | 6894.9 | 7971.5 | 8421.1 | 9066.1 | 9152.5 | 7228.8 |
| 57.5° | 3213.7 | 3298.4 | 3596.5 | 4259.4 | 5248.1 | 6596.8 | 8232.2 | 8937.4 | 9890.3 | 9957.1 | 8018.8 |
| 60° | 2397.7 | 2409.1 | 2736.5 | 3270.7 | 4329.5 | 5924.1 | 8316.9 | 9466.8 | 10835.0 | 11025.6 | 8846.2 |
| 62.5° | 1508.3 | 1576.7 | 1825.9 | 2352.0 | 3259.3 | 4982.6 | 7937.3 | 9787.7 | 11825.4 | 11875.9 | 9680.2 |
| 65° | 812.8 | 856.8 | 1044.1 | 1374.7 | 2277.1 | 3769.1 | 6930.7 | 9595.5 | 12291.2 | 12590.9 | 10051.6 |
| 67° | 601.0 | 609.2 | 695.5 | 877.9 | 1523.0 | 2837.4 | 5779.1 | 8900.0 | 12503.0 | 12721.2 | 10066.2 |
| 67.5° | 563.6 | 575.0 | 643.4 | 788.4 | 1350.3 | 2612.7 | 5477.8 | 8652.4 | 12408.5 | 12643.1 | 9952.2 |
| 70° | 482.1 | 485.4 | 501.7 | 542.4 | 757.4 | 1571.8 | 3730.0 | 7090.3 | 11501.2 | 11726.0 | 9152.5 |
| 72.5° | 428.4 | 431.6 | 438.2 | 446.3 | 513.1 | 908.9 | 2269.0 | 5456.6 | 9996.2 | 10354.5 | 7896.6 |
| 75° | 376.3 | 387.7 | 390.9 | 384.4 | 436.5 | 591.3 | 1207.0 | 4010.2 | 8154.0 | 8328.3 | 6140.7 |
| 77.5° | 319.3 | 324.1 | 330.7 | 337.2 | 389.3 | 441.4 | 579.9 | 2707.1 | 5596.7 | 5490.8 | 3321.2 |
| 80° | 268.8 | 270.4 | 275.3 | 280.2 | 337.2 | 337.2 | 329.0 | 1462.7 | 2444.9 | 2337.4 | 1122.3 |
| 82.5° | 192.2 | 203.6 | 215.0 | 228.0 | 280.2 | 226.4 | 215.0 | 651.5 | 773.7 | 736.2 | 379.5 |
| 85° | 74.9 | 91.2 | 141.7 | 156.4 | 177.5 | 122.2 | 143.3 | 281.8 | 322.5 | 319.3 | 141.7 |
| 87.5° | 13.0 | 14.7 | 39.1 | 60.3 | 65.2 | 42.3 | 68.4 | 101.0 | 120.5 | 130.3 | 52.1 |
| 90° | 0.0 | 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-SA2C-740-U-T2R

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 | 1462.7 |
| 2.5° | 1475.7 | 1425.2 | 1365.0 | 1304.7 | 1265.6 | 1203.7 | 1198.8 | 1161.4 | 1156.5 | 1143.4 | 1150.0 |
| 5° | 1487.1 | 1426.9 | 1304.7 | 1208.6 | 1164.6 | 1128.8 | 1136.9 | 1120.6 | 1115.8 | 1107.6 | 1094.6 |
| 7.5° | 1576.7 | 1457.8 | 1275.4 | 1192.3 | 1159.7 | 1143.4 | 1143.4 | 1123.9 | 1109.2 | 1119.0 | 1128.8 |
| 10° | 1635.4 | 1472.5 | 1298.2 | 1215.1 | 1189.1 | 1153.2 | 1166.2 | 1141.8 | 1150.0 | 1130.4 | 1130.4 |
| 12.5° | 1729.8 | 1555.5 | 1345.4 | 1249.3 | 1207.0 | 1174.4 | 1187.4 | 1159.7 | 1153.2 | 1154.8 | 1150.0 |
| 15° | 1856.9 | 1610.9 | 1366.6 | 1268.9 | 1239.5 | 1198.8 | 1189.1 | 1164.6 | 1140.2 | 1132.0 | 1141.8 |
| 17.5° | 1975.8 | 1679.3 | 1381.3 | 1280.3 | 1233.0 | 1187.4 | 1176.0 | 1145.1 | 1136.9 | 1112.5 | 1093.0 |
| 20° | 2117.5 | 1760.8 | 1400.8 | 1290.0 | 1208.6 | 1163.0 | 1133.7 | 1102.7 | 1075.0 | 1060.4 | 1066.9 |
| 22.5° | 2212.0 | 1803.1 | 1410.6 | 1270.5 | 1172.8 | 1130.4 | 1068.5 | 1047.3 | 1008.3 | 992.0 | 978.9 |
| 25° | 2366.7 | 1855.2 | 1386.1 | 1216.7 | 1109.2 | 1040.8 | 985.4 | 956.1 | 928.4 | 907.3 | 900.7 |
| 27.5° | 2405.8 | 1894.3 | 1329.1 | 1125.5 | 1008.3 | 936.6 | 889.3 | 853.5 | 835.6 | 803.0 | 796.5 |
| 30° | 2519.8 | 1855.2 | 1244.4 | 1014.8 | 912.2 | 838.9 | 791.6 | 765.6 | 723.2 | 715.1 | 697.1 |
| 32.5° | 2593.1 | 1866.7 | 1136.9 | 907.3 | 801.4 | 736.2 | 705.3 | 679.2 | 667.8 | 628.7 | 619.0 |
| 35° | 2715.3 | 1827.6 | 1027.8 | 807.9 | 710.2 | 659.7 | 633.6 | 625.5 | 588.0 | 570.1 | 553.8 |
| 37.5° | 2793.5 | 1804.8 | 918.7 | 695.5 | 610.8 | 589.6 | 597.8 | 563.6 | 518.0 | 483.8 | 472.4 |
| 40° | 2930.3 | 1796.6 | 794.9 | 602.7 | 542.4 | 537.5 | 563.6 | 498.4 | 415.4 | 386.0 | 369.7 |
| 42.5° | 3127.4 | 1741.2 | 698.8 | 519.6 | 488.7 | 509.8 | 514.7 | 415.4 | 368.1 | 343.7 | 332.3 |
| 45° | 3316.3 | 1752.6 | 604.3 | 430.0 | 425.1 | 456.1 | 444.7 | 351.8 | 324.1 | 306.2 | 316.0 |
| 47.5° | 3679.6 | 1809.6 | 511.5 | 358.3 | 382.8 | 412.1 | 345.3 | 314.4 | 288.3 | 275.3 | 276.9 |
| 50° | 4241.5 | 1865.0 | 430.0 | 327.4 | 361.6 | 373.0 | 296.4 | 285.0 | 283.4 | 257.4 | 255.7 |
| 52.5° | 4578.7 | 1843.8 | 415.4 | 366.5 | 387.7 | 373.0 | 322.5 | 314.4 | 301.3 | 289.9 | 276.9 |
| 55° | 5114.6 | 1905.7 | 446.3 | 428.4 | 439.8 | 358.3 | 361.6 | 358.3 | 348.6 | 319.3 | 327.4 |
| 57.5° | 5541.3 | 1946.5 | 487.0 | 478.9 | 472.4 | 373.0 | 377.9 | 379.5 | 373.0 | 360.0 | 371.4 |
| 60° | 6127.7 | 2027.9 | 529.4 | 531.0 | 532.6 | 405.6 | 413.7 | 423.5 | 421.9 | 417.0 | 420.2 |
| 62.5° | 6487.7 | 1990.4 | 576.6 | 602.7 | 594.5 | 472.4 | 470.7 | 477.3 | 477.3 | 485.4 | 490.3 |
| 65° | 6433.9 | 1852.0 | 601.0 | 666.2 | 623.8 | 521.2 | 521.2 | 524.5 | 526.1 | 542.4 | 544.0 |
| 67° | 6111.4 | 1604.4 | 588.0 | 676.0 | 623.8 | 540.8 | 540.8 | 544.0 | 532.6 | 575.0 | 562.0 |
| 67.5° | 5961.6 | 1531.1 | 576.6 | 667.8 | 619.0 | 539.1 | 539.1 | 540.8 | 531.0 | 571.7 | 558.7 |
| 70° | 5184.6 | 1136.9 | 496.8 | 591.3 | 573.4 | 524.5 | 524.5 | 514.7 | 506.6 | 560.3 | 548.9 |
| 72.5° | 4425.6 | 825.8 | 399.1 | 503.3 | 518.0 | 504.9 | 508.2 | 483.8 | 461.0 | 498.4 | 488.7 |
| 75° | 3389.6 | 607.6 | 311.1 | 387.7 | 438.2 | 472.4 | 493.5 | 431.6 | 402.3 | 412.1 | 394.2 |
| 77.5° | 1891.1 | 395.8 | 246.0 | 286.7 | 333.9 | 439.8 | 474.0 | 389.3 | 329.0 | 317.6 | 317.6 |
| 80° | 641.8 | 231.3 | 180.8 | 213.4 | 229.7 | 389.3 | 443.0 | 316.0 | 259.0 | 247.6 | 239.4 |
| 82.5° | 242.7 | 141.7 | 123.8 | 146.6 | 146.6 | 307.9 | 361.6 | 242.7 | 195.5 | 252.5 | 257.4 |
| 85° | 110.8 | 84.7 | 81.4 | 84.7 | 84.7 | 188.9 | 255.7 | 158.0 | 175.9 | 151.5 | 133.6 |
| 87.5° | 44.0 | 40.7 | 37.5 | 35.8 | 29.3 | 32.6 | 88.0 | 42.3 | 79.8 | 21.2 | 19.5 |
| 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)