

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: P476948

Luminaire Tested: **IFLD-S-SA3B-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476948
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

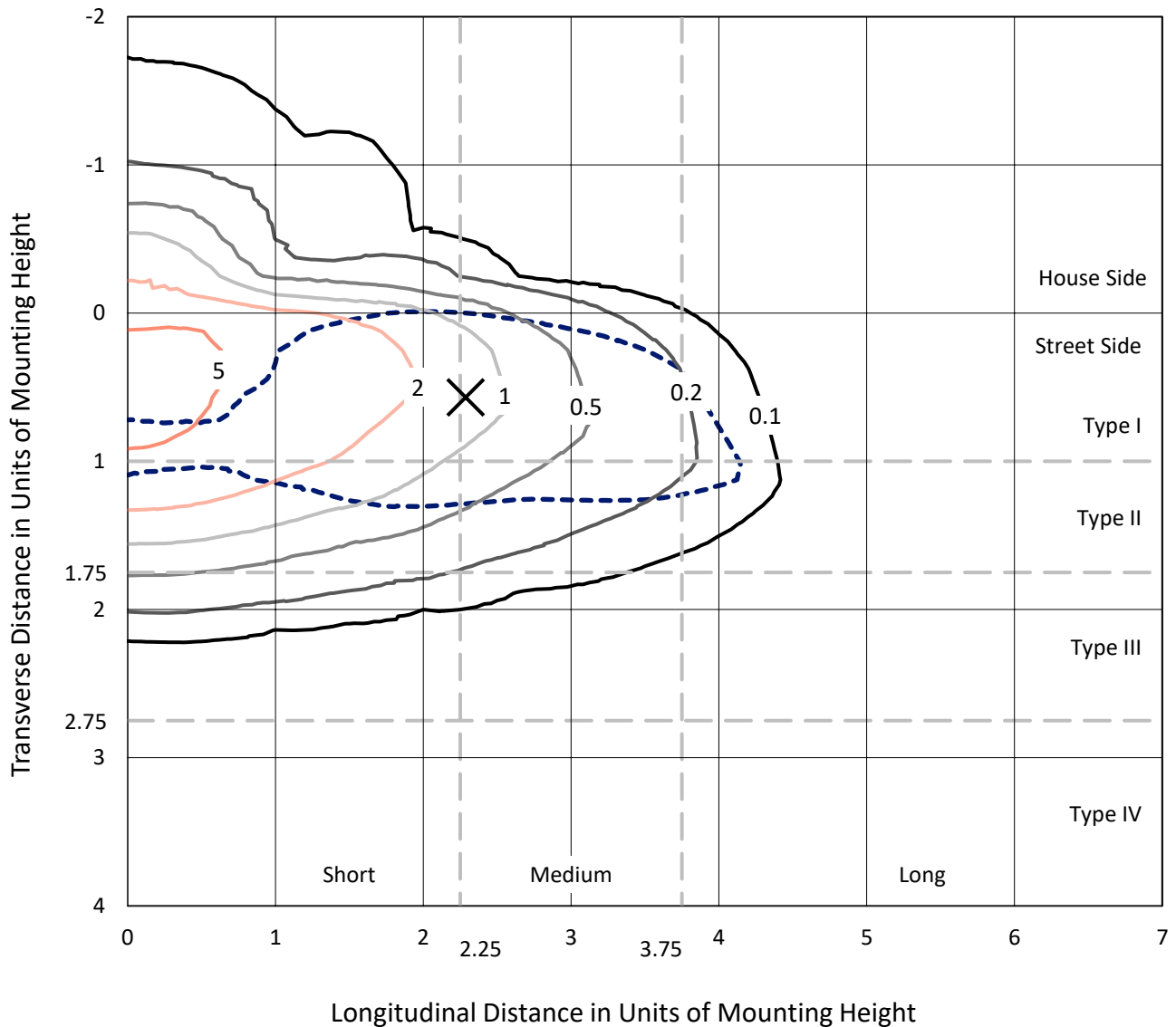
Lumens per Lamp: N/A
Luminaire Lumens: 16877.1 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

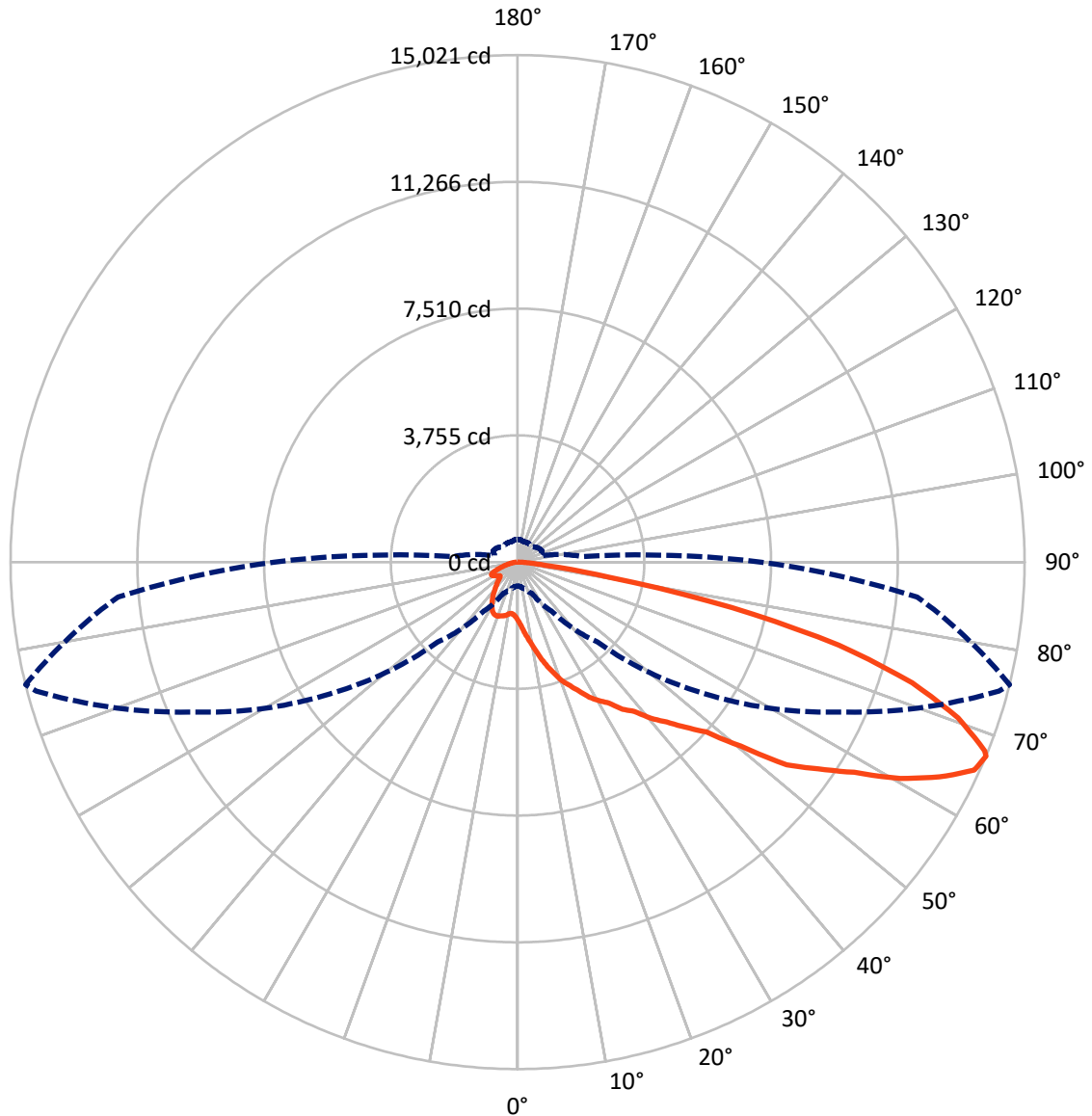
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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 | 2401.0 | 0.0 | 2401.0 |
| | % Fixture | 14.2 | 0.0 | 14.2 |
| Street Side | Lumens | 14476.1 | 0.0 | 14476.1 |
| | % Fixture | 85.8 | 0.0 | 85.8 |
| Total | Lumens | 16877.1 | 0.0 | 16877.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 200.1 | 1.2 |
| 10°-20° | 750.3 | 4.4 |
| 20°-30° | 1395.0 | 8.3 |
| 30°-40° | 2211.3 | 13.1 |
| 40°-50° | 3058.5 | 18.1 |
| 50°-60° | 3762.1 | 22.3 |
| 60°-70° | 3500.8 | 20.7 |
| 70°-80° | 1756.7 | 10.4 |
| 80°-90° | 242.2 | 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° | 16877.1 | 100.0 |
| 0°-180° | 16877.1 | 100.0 |

Coefficient of Utilization



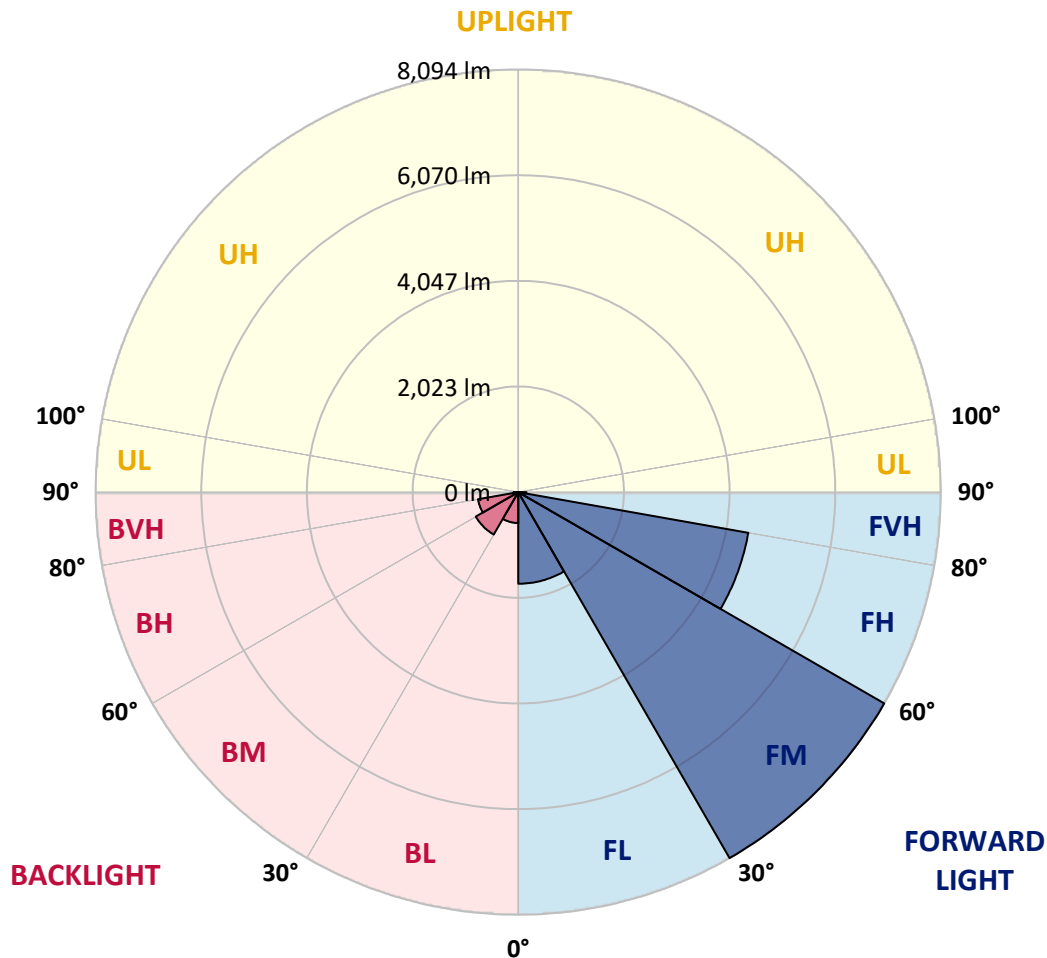
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1754.1 | 10.4 | | | |
| FM (30°-60°) | 8093.7 | 48.0 | | | |
| FH (60°-80°) | 4474.0 | 26.5 | | | G2/5000 |
| FVH (80°-90°) | 154.3 | 0.9 | | | G2/225 |
| BL (0°-30°) | 591.3 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 938.2 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 783.6 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 87.9 | 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° | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 |
| 2.5° | 2396.4 | 2367.6 | 2338.7 | 2277.2 | 2256.0 | 2198.3 | 2092.5 | 1975.2 | 1879.0 | 1865.6 | 1798.3 |
| 5° | 2973.4 | 2931.1 | 2921.5 | 2886.9 | 2777.2 | 2665.7 | 2492.6 | 2304.1 | 2069.5 | 2086.8 | 1856.0 |
| 7.5° | 3406.1 | 3381.1 | 3329.2 | 3296.5 | 3231.1 | 3083.0 | 2904.2 | 2654.1 | 2356.0 | 2298.3 | 1984.8 |
| 10° | 3733.1 | 3698.5 | 3696.6 | 3667.7 | 3633.1 | 3481.1 | 3344.6 | 3008.0 | 2625.3 | 2546.4 | 2142.5 |
| 12.5° | 3898.5 | 3892.7 | 3994.7 | 3994.7 | 3981.2 | 3917.7 | 3683.1 | 3375.4 | 2881.1 | 2854.2 | 2325.3 |
| 15° | 4077.4 | 4029.3 | 4117.8 | 4185.1 | 4219.7 | 4252.4 | 4058.1 | 3733.1 | 3208.0 | 3156.1 | 2521.4 |
| 17.5° | 4077.4 | 4073.5 | 4162.0 | 4273.5 | 4454.3 | 4496.6 | 4390.9 | 4062.0 | 3479.2 | 3440.8 | 2736.8 |
| 20° | 4008.1 | 4063.9 | 4125.4 | 4275.5 | 4471.6 | 4642.8 | 4673.6 | 4398.6 | 3779.3 | 3748.5 | 2981.1 |
| 22.5° | 4331.2 | 4277.4 | 4340.9 | 4398.6 | 4550.5 | 4810.1 | 4894.8 | 4694.7 | 4094.7 | 3977.4 | 3202.3 |
| 25° | 4873.6 | 4837.1 | 4790.9 | 4706.3 | 4769.7 | 4883.2 | 5012.1 | 4914.0 | 4363.9 | 4233.2 | 3415.8 |
| 27.5° | 5402.5 | 5404.4 | 5304.4 | 5119.8 | 4983.2 | 5006.3 | 5158.3 | 5106.3 | 4590.9 | 4533.2 | 3561.9 |
| 30° | 6154.5 | 6108.4 | 5996.8 | 5746.8 | 5479.4 | 5260.2 | 5235.2 | 5285.2 | 4879.4 | 4767.8 | 3771.6 |
| 32.5° | 6718.0 | 6727.7 | 6569.9 | 6210.3 | 5844.9 | 5666.0 | 5446.7 | 5467.9 | 5062.1 | 4979.4 | 3938.9 |
| 35° | 7173.9 | 7162.3 | 7050.8 | 6752.7 | 6319.9 | 6104.5 | 5808.3 | 5687.2 | 5487.1 | 5356.3 | 4194.7 |
| 37.5° | 7666.2 | 7572.0 | 7391.2 | 7054.6 | 6777.7 | 6479.5 | 6191.1 | 5917.9 | 5769.9 | 5612.1 | 4413.9 |
| 40° | 7864.3 | 7864.3 | 7622.0 | 7468.1 | 7139.2 | 6914.2 | 6727.7 | 6221.8 | 6114.1 | 6083.4 | 4694.7 |
| 42.5° | 7723.9 | 7810.5 | 7710.5 | 7535.4 | 7400.8 | 7116.2 | 7066.1 | 6537.2 | 6539.2 | 6477.6 | 5031.3 |
| 45° | 7710.5 | 7591.2 | 7508.5 | 7552.7 | 7489.3 | 7473.9 | 7600.8 | 6973.8 | 6985.4 | 6977.7 | 5483.3 |
| 47.5° | 7323.9 | 7270.0 | 7393.1 | 7466.2 | 7518.1 | 7756.6 | 8122.0 | 7495.0 | 7577.7 | 7520.0 | 6004.5 |
| 50° | 6939.2 | 6929.6 | 7006.5 | 7271.9 | 7497.0 | 7889.3 | 8618.2 | 8299.0 | 8570.2 | 8566.3 | 6948.8 |
| 52.5° | 5885.3 | 5987.2 | 6289.1 | 6850.7 | 7406.6 | 8070.1 | 8993.3 | 9326.0 | 9843.4 | 9983.8 | 7731.6 |
| 55° | 4877.5 | 4823.6 | 5269.8 | 6085.3 | 7012.3 | 8141.3 | 9412.6 | 9943.4 | 10705.0 | 10806.9 | 8535.5 |
| 57.5° | 3794.6 | 3894.7 | 4246.6 | 5029.4 | 6196.8 | 7789.3 | 9720.3 | 10553.1 | 11678.2 | 11757.0 | 9468.3 |
| 60° | 2831.1 | 2844.5 | 3231.1 | 3862.0 | 5112.1 | 6995.0 | 9820.3 | 11178.1 | 12793.7 | 13018.7 | 10445.4 |
| 62.5° | 1781.0 | 1861.7 | 2156.0 | 2777.2 | 3848.5 | 5883.3 | 9372.2 | 11557.0 | 13963.1 | 14022.7 | 11430.1 |
| 65° | 959.7 | 1011.6 | 1232.8 | 1623.3 | 2688.8 | 4450.5 | 8183.6 | 11330.1 | 14513.1 | 14867.0 | 11868.6 |
| 67° | 709.7 | 719.3 | 821.2 | 1036.7 | 1798.3 | 3350.4 | 6823.8 | 10508.8 | 14763.1 | 15020.9 | 11885.9 |
| 67.5° | 665.5 | 678.9 | 759.7 | 930.9 | 1594.4 | 3084.9 | 6468.0 | 10216.5 | 14651.6 | 14928.5 | 11751.3 |
| 70° | 569.3 | 573.1 | 592.4 | 640.5 | 894.3 | 1856.0 | 4404.3 | 8372.1 | 13580.3 | 13845.7 | 10806.9 |
| 72.5° | 505.8 | 509.7 | 517.4 | 527.0 | 605.8 | 1073.2 | 2679.1 | 6443.0 | 11803.2 | 12226.3 | 9324.1 |
| 75° | 444.3 | 457.7 | 461.6 | 453.9 | 515.4 | 698.2 | 1425.2 | 4735.1 | 9628.0 | 9833.8 | 7250.8 |
| 77.5° | 377.0 | 382.7 | 390.4 | 398.1 | 459.7 | 521.2 | 684.7 | 3196.5 | 6608.4 | 6483.4 | 3921.6 |
| 80° | 317.3 | 319.3 | 325.0 | 330.8 | 398.1 | 398.1 | 388.5 | 1727.1 | 2886.9 | 2759.9 | 1325.1 |
| 82.5° | 226.9 | 240.4 | 253.9 | 269.3 | 330.8 | 267.3 | 253.9 | 769.3 | 913.6 | 869.3 | 448.1 |
| 85° | 88.5 | 107.7 | 167.3 | 184.6 | 209.6 | 144.2 | 169.2 | 332.7 | 380.8 | 377.0 | 167.3 |
| 87.5° | 15.4 | 17.3 | 46.2 | 71.2 | 76.9 | 50.0 | 80.8 | 119.2 | 142.3 | 153.9 | 61.5 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 | 1727.1 |
| 2.5° | 1742.5 | 1682.9 | 1611.7 | 1540.6 | 1494.4 | 1421.3 | 1415.5 | 1371.3 | 1365.5 | 1350.1 | 1357.8 |
| 5° | 1756.0 | 1684.8 | 1540.6 | 1427.1 | 1375.1 | 1332.8 | 1342.5 | 1323.2 | 1317.5 | 1307.8 | 1292.4 |
| 7.5° | 1861.7 | 1721.3 | 1505.9 | 1407.8 | 1369.4 | 1350.1 | 1350.1 | 1327.1 | 1309.8 | 1321.3 | 1332.8 |
| 10° | 1931.0 | 1738.6 | 1532.9 | 1434.8 | 1404.0 | 1361.7 | 1377.1 | 1348.2 | 1357.8 | 1334.8 | 1334.8 |
| 12.5° | 2042.5 | 1836.7 | 1588.6 | 1475.2 | 1425.2 | 1386.7 | 1402.1 | 1369.4 | 1361.7 | 1363.6 | 1357.8 |
| 15° | 2192.5 | 1902.1 | 1613.6 | 1498.2 | 1463.6 | 1415.5 | 1404.0 | 1375.1 | 1346.3 | 1336.7 | 1348.2 |
| 17.5° | 2332.9 | 1982.9 | 1630.9 | 1511.7 | 1455.9 | 1402.1 | 1388.6 | 1352.1 | 1342.5 | 1313.6 | 1290.5 |
| 20° | 2500.3 | 2079.1 | 1654.0 | 1523.2 | 1427.1 | 1373.2 | 1338.6 | 1302.1 | 1269.4 | 1252.1 | 1259.8 |
| 22.5° | 2611.8 | 2129.1 | 1665.6 | 1500.2 | 1384.8 | 1334.8 | 1261.7 | 1236.7 | 1190.5 | 1171.3 | 1155.9 |
| 25° | 2794.5 | 2190.6 | 1636.7 | 1436.7 | 1309.8 | 1229.0 | 1163.6 | 1129.0 | 1096.3 | 1071.3 | 1063.6 |
| 27.5° | 2840.7 | 2236.8 | 1569.4 | 1329.0 | 1190.5 | 1105.9 | 1050.1 | 1007.8 | 986.6 | 948.2 | 940.5 |
| 30° | 2975.3 | 2190.6 | 1469.4 | 1198.2 | 1077.0 | 990.5 | 934.7 | 903.9 | 853.9 | 844.3 | 823.2 |
| 32.5° | 3061.9 | 2204.1 | 1342.5 | 1071.3 | 946.3 | 869.3 | 832.8 | 802.0 | 788.5 | 742.4 | 730.8 |
| 35° | 3206.1 | 2157.9 | 1213.6 | 953.9 | 838.6 | 778.9 | 748.2 | 738.5 | 694.3 | 673.1 | 653.9 |
| 37.5° | 3298.4 | 2131.0 | 1084.7 | 821.2 | 721.2 | 696.2 | 705.8 | 665.5 | 611.6 | 571.2 | 557.8 |
| 40° | 3460.0 | 2121.4 | 938.6 | 711.6 | 640.5 | 634.7 | 665.5 | 588.5 | 490.4 | 455.8 | 436.6 |
| 42.5° | 3692.7 | 2056.0 | 825.1 | 613.5 | 577.0 | 602.0 | 607.8 | 490.4 | 434.7 | 405.8 | 392.4 |
| 45° | 3915.8 | 2069.5 | 713.5 | 507.7 | 502.0 | 538.5 | 525.1 | 415.4 | 382.7 | 361.6 | 373.1 |
| 47.5° | 4344.7 | 2136.8 | 603.9 | 423.1 | 452.0 | 486.6 | 407.7 | 371.2 | 340.4 | 325.0 | 327.0 |
| 50° | 5008.2 | 2202.2 | 507.7 | 386.6 | 427.0 | 440.4 | 350.0 | 336.6 | 334.7 | 303.9 | 302.0 |
| 52.5° | 5406.4 | 2177.2 | 490.4 | 432.7 | 457.7 | 440.4 | 380.8 | 371.2 | 355.8 | 342.3 | 327.0 |
| 55° | 6039.1 | 2250.2 | 527.0 | 505.8 | 519.3 | 423.1 | 427.0 | 423.1 | 411.6 | 377.0 | 386.6 |
| 57.5° | 6543.0 | 2298.3 | 575.1 | 565.4 | 557.8 | 440.4 | 446.2 | 448.1 | 440.4 | 425.0 | 438.5 |
| 60° | 7235.4 | 2394.5 | 625.1 | 627.0 | 628.9 | 478.9 | 488.5 | 500.1 | 498.1 | 492.4 | 496.2 |
| 62.5° | 7660.4 | 2350.3 | 680.8 | 711.6 | 702.0 | 557.8 | 555.8 | 563.5 | 563.5 | 573.1 | 578.9 |
| 65° | 7597.0 | 2186.8 | 709.7 | 786.6 | 736.6 | 615.5 | 615.5 | 619.3 | 621.2 | 640.5 | 642.4 |
| 67° | 7216.2 | 1894.4 | 694.3 | 798.2 | 736.6 | 638.5 | 638.5 | 642.4 | 628.9 | 678.9 | 663.5 |
| 67.5° | 7039.2 | 1807.9 | 680.8 | 788.5 | 730.8 | 636.6 | 636.6 | 638.5 | 627.0 | 675.1 | 659.7 |
| 70° | 6121.8 | 1342.5 | 586.6 | 698.2 | 677.0 | 619.3 | 619.3 | 607.8 | 598.1 | 661.6 | 648.1 |
| 72.5° | 5225.6 | 975.1 | 471.2 | 594.3 | 611.6 | 596.2 | 600.1 | 571.2 | 544.3 | 588.5 | 577.0 |
| 75° | 4002.4 | 717.4 | 367.3 | 457.7 | 517.4 | 557.8 | 582.8 | 509.7 | 475.1 | 486.6 | 465.4 |
| 77.5° | 2232.9 | 467.4 | 290.4 | 338.5 | 394.3 | 519.3 | 559.7 | 459.7 | 388.5 | 375.0 | 375.0 |
| 80° | 757.8 | 273.1 | 213.5 | 252.0 | 271.2 | 459.7 | 523.1 | 373.1 | 305.8 | 292.3 | 282.7 |
| 82.5° | 286.6 | 167.3 | 146.2 | 173.1 | 173.1 | 363.5 | 427.0 | 286.6 | 230.8 | 298.1 | 303.9 |
| 85° | 130.8 | 100.0 | 96.2 | 100.0 | 100.0 | 223.1 | 302.0 | 186.6 | 207.7 | 178.9 | 157.7 |
| 87.5° | 51.9 | 48.1 | 44.2 | 42.3 | 34.6 | 38.5 | 103.9 | 50.0 | 94.2 | 25.0 | 23.1 |
| 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)