

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: P481955

Luminaire Tested: **IFLD-S-SA6B-727-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481955
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

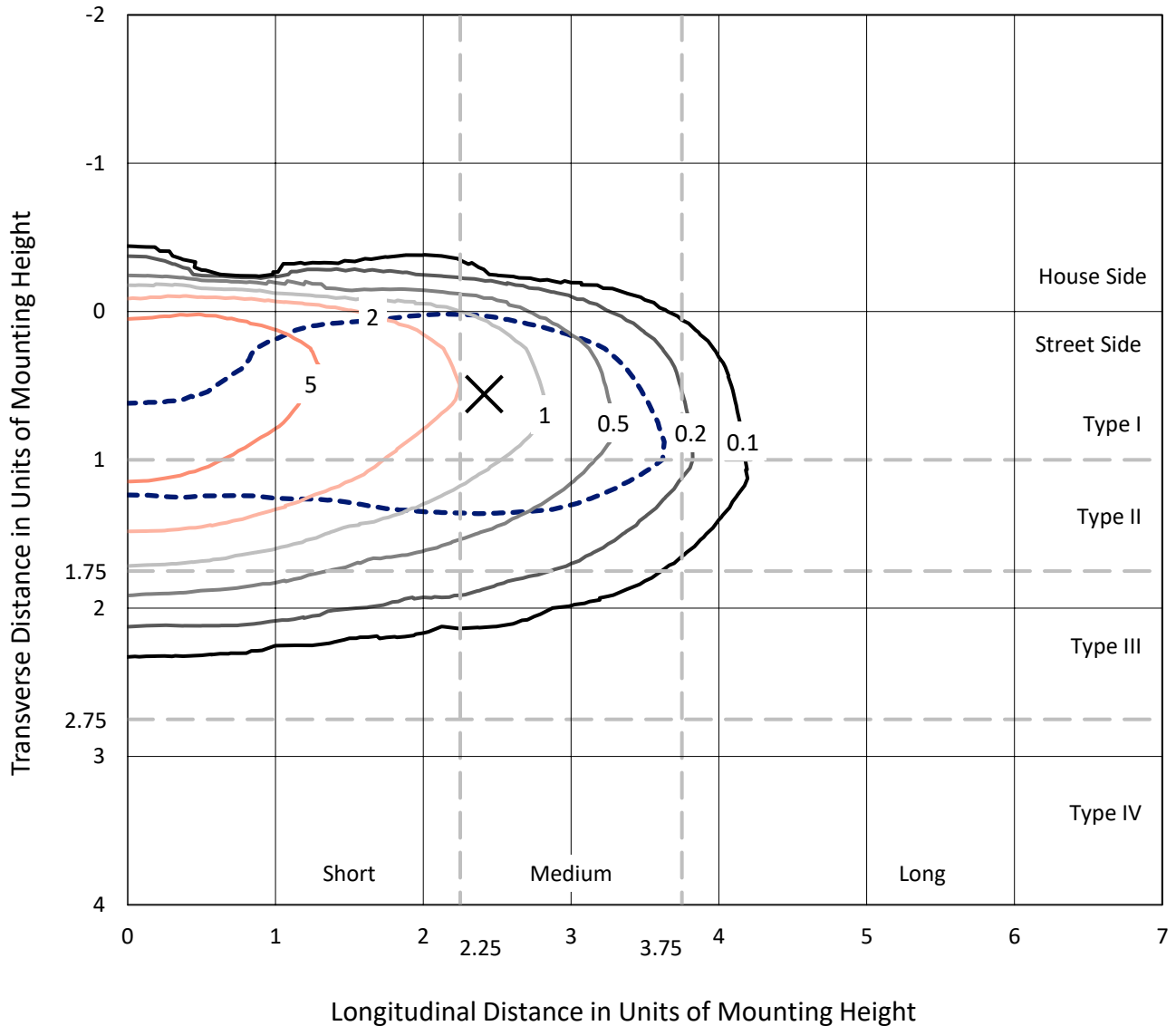
Lumens per Lamp: N/A
Luminaire Lumens: 21947.3 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

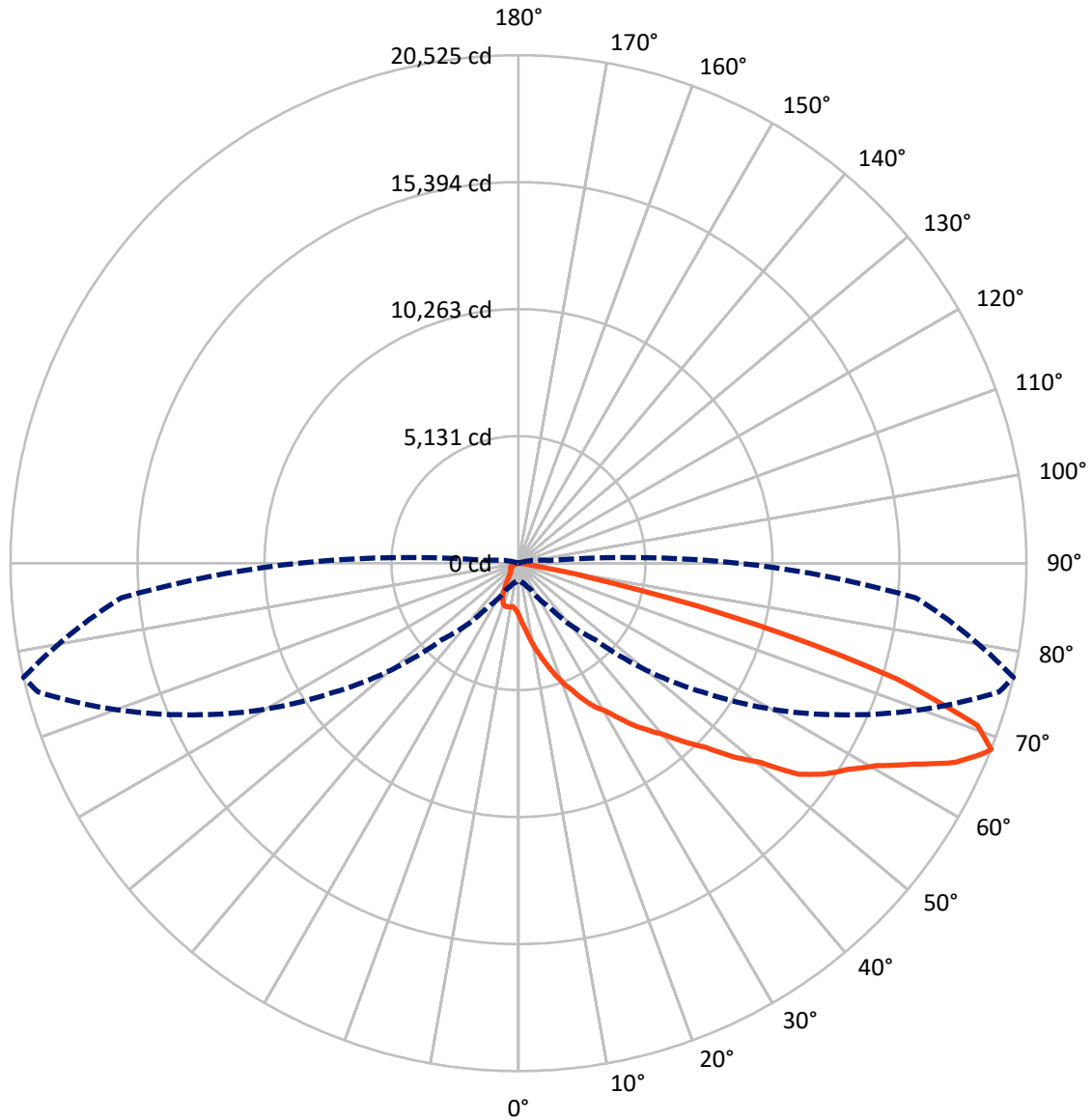
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 995.3 | 0.0 | 995.3 |
| | % Fixture | 4.5 | 0.0 | 4.5 |
| Street Side | Lumens | 20952.0 | 0.0 | 20952.0 |
| | % Fixture | 95.5 | 0.0 | 95.5 |
| Total | Lumens | 21947.3 | 0.0 | 21947.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 245.5 | 1.1 |
| 10°-20° | 905.5 | 4.1 |
| 20°-30° | 1754.8 | 8.0 |
| 30°-40° | 3059.2 | 13.9 |
| 40°-50° | 4480.5 | 20.4 |
| 50°-60° | 5263.9 | 24.0 |
| 60°-70° | 4444.9 | 20.3 |
| 70°-80° | 1722.9 | 7.9 |
| 80°-90° | 70.1 | 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° | 21947.3 | 100.0 |
| 0°-180° | 21947.3 | 100.0 |

Coefficient of Utilization

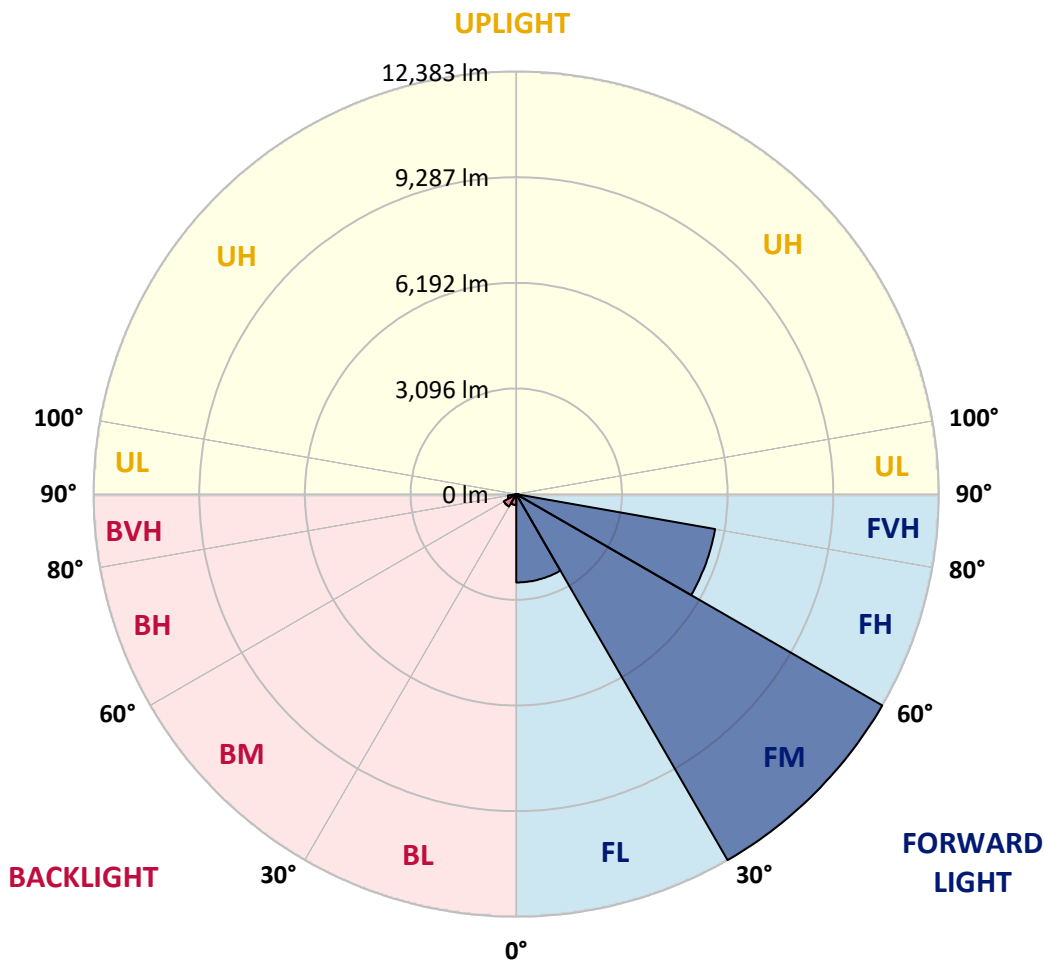


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2587.8 | 11.8 | | | |
| FM (30°-60°) | 12383.1 | 56.4 | | | |
| FH (60°-80°) | 5916.5 | 27.0 | | | G3/7500 |
| FVH (80°-90°) | 64.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 318.0 | 1.4 | B1/500 | | |
| BM (30°-60°) | 420.6 | 1.9 | B1/1000 | | |
| BH (60°-80°) | 251.3 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.4 | 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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 |
| 2.5° | 3193.1 | 3132.6 | 3069.1 | 3050.9 | 2933.0 | 2800.0 | 2676.0 | 2555.0 | 2352.5 | 2355.5 | 2216.4 |
| 5° | 4115.3 | 4039.7 | 3988.3 | 3976.2 | 3791.8 | 3561.9 | 3374.5 | 3032.8 | 2697.2 | 2621.6 | 2367.6 |
| 7.5° | 4874.2 | 4850.1 | 4774.5 | 4711.0 | 4574.9 | 4293.7 | 4073.0 | 3583.1 | 3072.1 | 2987.4 | 2552.0 |
| 10° | 5333.9 | 5370.1 | 5403.4 | 5321.8 | 5215.9 | 5013.3 | 4711.0 | 4181.8 | 3498.4 | 3392.6 | 2790.9 |
| 12.5° | 5823.7 | 5763.2 | 5784.4 | 5850.9 | 5711.8 | 5666.5 | 5291.5 | 4798.7 | 3997.4 | 3794.8 | 3093.3 |
| 15° | 5950.7 | 5974.9 | 6026.3 | 6219.8 | 6313.5 | 6183.5 | 5860.0 | 5297.6 | 4514.4 | 4233.2 | 3374.5 |
| 17.5° | 6035.4 | 6023.3 | 6086.8 | 6377.0 | 6519.2 | 6643.1 | 6440.5 | 5853.9 | 4965.0 | 4714.0 | 3725.2 |
| 20° | 6141.2 | 6074.7 | 6213.8 | 6398.2 | 6727.8 | 6987.8 | 6978.8 | 6413.3 | 5436.7 | 5170.6 | 4073.0 |
| 22.5° | 6534.3 | 6482.9 | 6594.7 | 6612.9 | 6842.7 | 7205.5 | 7293.2 | 6869.9 | 5920.5 | 5593.9 | 4447.9 |
| 25° | 7260.0 | 7353.7 | 7220.7 | 7105.8 | 7175.3 | 7414.2 | 7477.7 | 7275.1 | 6407.3 | 6107.9 | 4822.8 |
| 27.5° | 8321.3 | 8309.2 | 8046.1 | 7898.0 | 7731.7 | 7701.4 | 7746.8 | 7653.0 | 6791.3 | 6576.6 | 5131.3 |
| 30° | 9461.2 | 9361.5 | 9119.6 | 8762.8 | 8396.9 | 8170.1 | 8106.6 | 8009.8 | 7241.8 | 6930.4 | 5436.7 |
| 32.5° | 10368.4 | 10422.8 | 10153.7 | 9688.0 | 9080.2 | 8774.8 | 8469.5 | 8363.6 | 7737.7 | 7462.6 | 5787.4 |
| 35° | 11202.9 | 11130.3 | 10915.6 | 10522.6 | 9978.3 | 9485.4 | 9007.7 | 8780.9 | 8333.4 | 8061.2 | 6174.4 |
| 37.5° | 11819.7 | 11910.5 | 11502.2 | 11127.3 | 10586.1 | 10177.9 | 9709.2 | 9213.3 | 8947.2 | 8584.4 | 6646.1 |
| 40° | 12403.3 | 12261.2 | 11986.0 | 11641.3 | 11139.4 | 10828.0 | 10519.5 | 9745.5 | 9600.3 | 9131.6 | 7178.3 |
| 42.5° | 12300.5 | 12309.6 | 12158.4 | 11880.2 | 11517.4 | 11339.0 | 11233.1 | 10392.5 | 10193.0 | 9893.6 | 7698.4 |
| 45° | 11880.2 | 11916.5 | 11967.9 | 11831.8 | 11862.1 | 11683.7 | 11967.9 | 11136.4 | 10939.8 | 10622.3 | 8297.1 |
| 47.5° | 11417.6 | 11478.1 | 11466.0 | 11713.9 | 11995.1 | 12055.6 | 12766.2 | 11961.9 | 11877.2 | 11701.8 | 9125.6 |
| 50° | 10649.6 | 10673.7 | 10906.6 | 11357.1 | 11741.1 | 12373.1 | 13364.9 | 12862.9 | 12992.9 | 12648.2 | 10111.3 |
| 52.5° | 9337.3 | 9424.9 | 10023.6 | 10667.7 | 11441.8 | 12533.3 | 13770.0 | 14202.4 | 14532.0 | 14178.2 | 11057.8 |
| 55° | 7677.2 | 7798.2 | 8387.8 | 9594.3 | 10728.2 | 12291.4 | 14138.9 | 14910.0 | 15578.2 | 15043.0 | 11632.3 |
| 57.5° | 6177.5 | 6189.6 | 6718.7 | 7964.5 | 9715.2 | 11816.7 | 14326.4 | 15254.7 | 16152.7 | 15723.4 | 12333.8 |
| 60° | 4707.9 | 4659.6 | 5134.3 | 6213.8 | 8009.8 | 10649.6 | 13857.7 | 15430.1 | 16869.4 | 16621.4 | 13177.4 |
| 62.5° | 3029.8 | 2954.2 | 3471.2 | 4523.5 | 6256.1 | 8705.3 | 12920.4 | 15433.1 | 17988.1 | 17894.4 | 14589.5 |
| 65° | 1499.8 | 1448.4 | 1892.9 | 2772.8 | 4330.0 | 6658.2 | 11583.9 | 15375.6 | 19354.9 | 19415.3 | 15965.3 |
| 67.5° | 792.2 | 810.4 | 952.5 | 1406.0 | 2497.6 | 4704.9 | 9570.1 | 14701.3 | 20053.3 | 20392.0 | 16297.9 |
| 68° | 728.7 | 734.8 | 846.6 | 1170.2 | 2168.0 | 4363.2 | 9092.3 | 14504.8 | 20107.8 | 20525.0 | 16113.4 |
| 70° | 592.7 | 601.7 | 641.0 | 734.8 | 1173.2 | 2839.3 | 7015.0 | 12835.7 | 19288.3 | 19669.3 | 14586.4 |
| 72.5° | 471.7 | 498.9 | 523.1 | 562.4 | 689.4 | 1490.7 | 4363.2 | 10002.5 | 15935.0 | 15977.4 | 11354.1 |
| 75° | 359.8 | 381.0 | 429.4 | 462.6 | 538.2 | 819.4 | 2077.3 | 6098.9 | 10456.0 | 9942.0 | 6688.5 |
| 77.5° | 278.2 | 296.3 | 317.5 | 362.8 | 450.5 | 553.3 | 635.0 | 2588.3 | 4441.9 | 3655.7 | 1889.8 |
| 80° | 166.3 | 178.4 | 247.9 | 284.2 | 393.1 | 374.9 | 251.0 | 719.6 | 901.1 | 710.6 | 344.7 |
| 82.5° | 96.8 | 105.8 | 142.1 | 217.7 | 275.2 | 202.6 | 148.2 | 223.8 | 220.7 | 193.5 | 114.9 |
| 85° | 3.0 | 6.0 | 78.6 | 130.0 | 96.8 | 54.4 | 90.7 | 93.7 | 78.6 | 72.6 | 51.4 |
| 87.5° | 0.0 | 3.0 | 21.2 | 18.1 | 21.2 | 12.1 | 18.1 | 24.2 | 30.2 | 27.2 | 21.2 |
| 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° | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 | 2101.5 |
| 2.5° | 2122.7 | 2056.1 | 1908.0 | 1796.1 | 1675.1 | 1602.6 | 1530.0 | 1484.6 | 1460.5 | 1445.3 | 1457.4 |
| 5° | 2177.1 | 2038.0 | 1799.1 | 1587.5 | 1448.4 | 1354.6 | 1260.9 | 1212.5 | 1167.2 | 1143.0 | 1158.1 |
| 7.5° | 2298.0 | 2089.4 | 1693.3 | 1463.5 | 1300.2 | 1155.1 | 1037.1 | 943.4 | 889.0 | 840.6 | 849.7 |
| 10° | 2446.2 | 2119.6 | 1696.3 | 1390.9 | 1155.1 | 925.3 | 759.0 | 641.0 | 574.5 | 532.2 | 529.2 |
| 12.5° | 2597.4 | 2237.6 | 1708.4 | 1318.3 | 976.7 | 695.5 | 498.9 | 411.2 | 371.9 | 350.8 | 350.8 |
| 15° | 2827.2 | 2343.4 | 1678.2 | 1185.3 | 740.8 | 453.6 | 341.7 | 311.4 | 296.3 | 278.2 | 281.2 |
| 17.5° | 3026.7 | 2512.7 | 1663.0 | 985.7 | 508.0 | 326.6 | 284.2 | 251.0 | 235.9 | 217.7 | 217.7 |
| 20° | 3295.9 | 2618.5 | 1581.4 | 762.0 | 350.8 | 272.1 | 229.8 | 199.6 | 175.4 | 160.3 | 163.3 |
| 22.5° | 3540.8 | 2700.2 | 1436.3 | 520.1 | 269.1 | 214.7 | 169.3 | 139.1 | 117.9 | 99.8 | 102.8 |
| 25° | 3806.9 | 2781.8 | 1224.6 | 320.5 | 190.5 | 133.0 | 90.7 | 66.5 | 45.4 | 33.3 | 33.3 |
| 27.5° | 3997.4 | 2806.0 | 949.4 | 190.5 | 114.9 | 60.5 | 21.2 | 3.0 | 0.0 | 0.0 | 0.0 |
| 30° | 4190.9 | 2815.1 | 656.1 | 102.8 | 45.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 32.5° | 4411.6 | 2812.1 | 411.2 | 54.4 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 35° | 4580.9 | 2760.7 | 196.5 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 4838.0 | 2685.1 | 60.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 5131.3 | 2549.0 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 5394.3 | 2409.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 5693.7 | 2237.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 6219.8 | 2165.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 6906.2 | 2107.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 7329.5 | 1938.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 7550.2 | 1762.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 7876.8 | 1678.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 8360.6 | 1684.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 9116.5 | 1768.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 9533.8 | 1684.2 | 12.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 9180.0 | 1348.6 | 57.5 | 15.1 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68° | 8874.6 | 1239.7 | 57.5 | 15.1 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 7335.6 | 807.3 | 54.4 | 15.1 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5342.9 | 447.5 | 45.4 | 12.1 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 3108.4 | 223.8 | 33.3 | 12.1 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 810.4 | 111.9 | 27.2 | 15.1 | 9.1 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 160.3 | 72.6 | 24.2 | 18.1 | 12.1 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 75.6 | 51.4 | 24.2 | 18.1 | 15.1 | 9.1 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 39.3 | 24.2 | 24.2 | 18.1 | 18.1 | 12.1 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 18.1 | 9.1 | 9.1 | 9.1 | 9.1 | 6.0 | 3.0 | 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)