

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: P481565

Luminaire Tested: **IFLD-S-SA6B-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481565
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-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

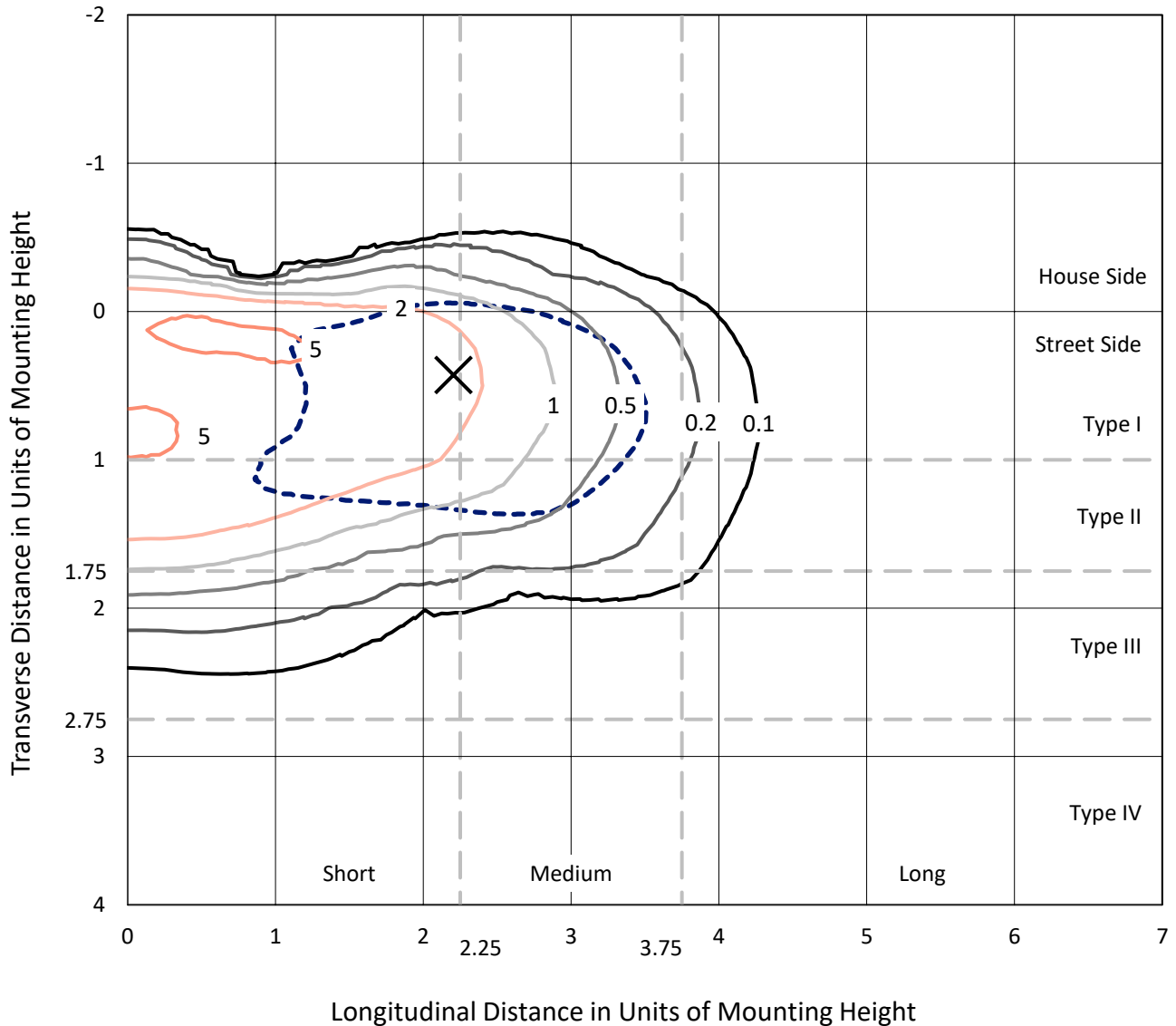
Lumens per Lamp: N/A
Luminaire Lumens: 20103 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

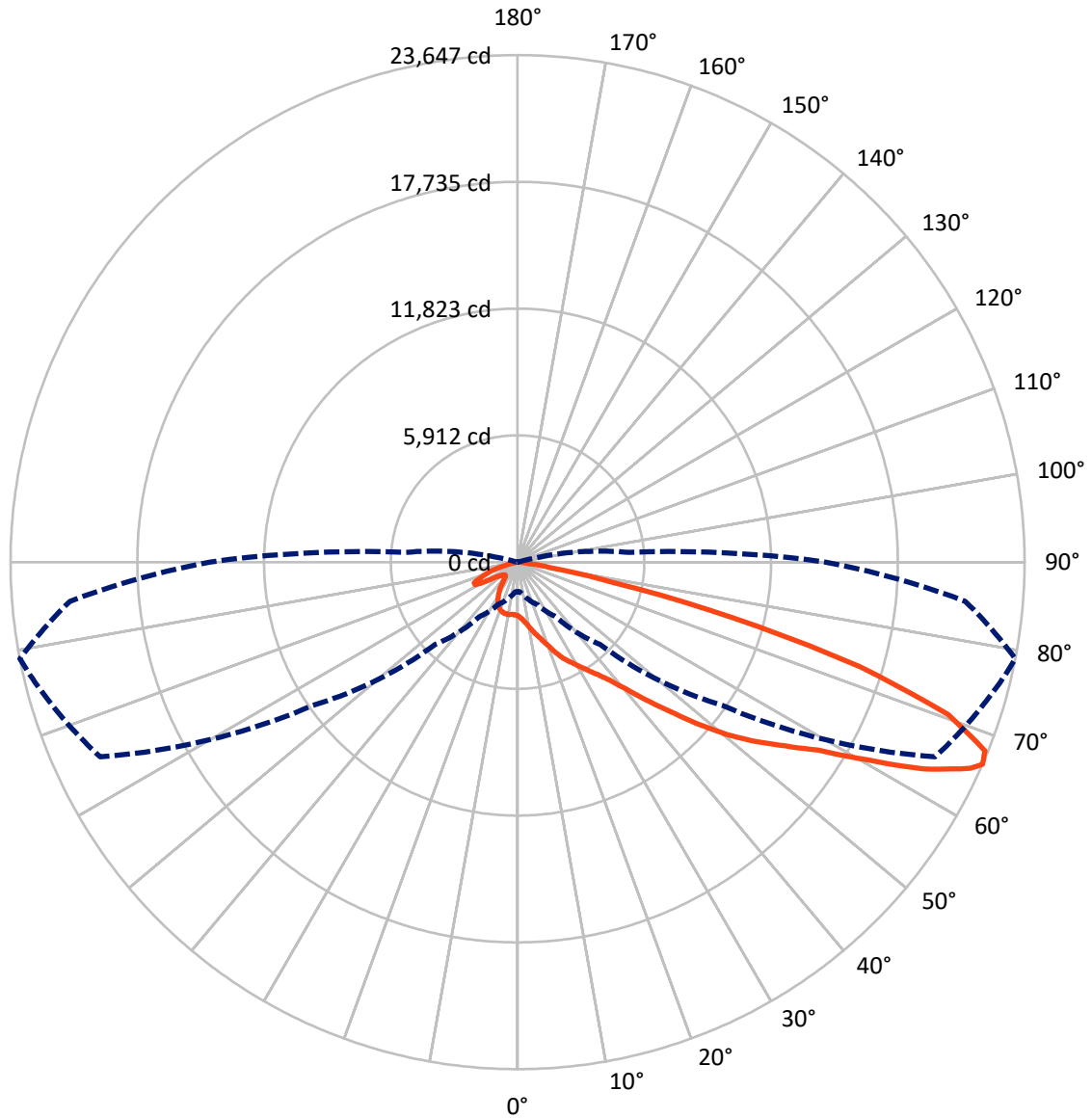
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1509.5 | 0.0 | 1509.5 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 18593.5 | 0.0 | 18593.5 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 20103.0 | 0.0 | 20103.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 236.5 | 1.2 |
| 10°-20° | 651.0 | 3.2 |
| 20°-30° | 1081.4 | 5.4 |
| 30°-40° | 1857.5 | 9.2 |
| 40°-50° | 3365.0 | 16.7 |
| 50°-60° | 5319.1 | 26.5 |
| 60°-70° | 5412.6 | 26.9 |
| 70°-80° | 2064.1 | 10.3 |
| 80°-90° | 115.7 | 0.6 |
| 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° | 20103.0 | 100.0 |
| 0°-180° | 20103.0 | 100.0 |

Coefficient of Utilization

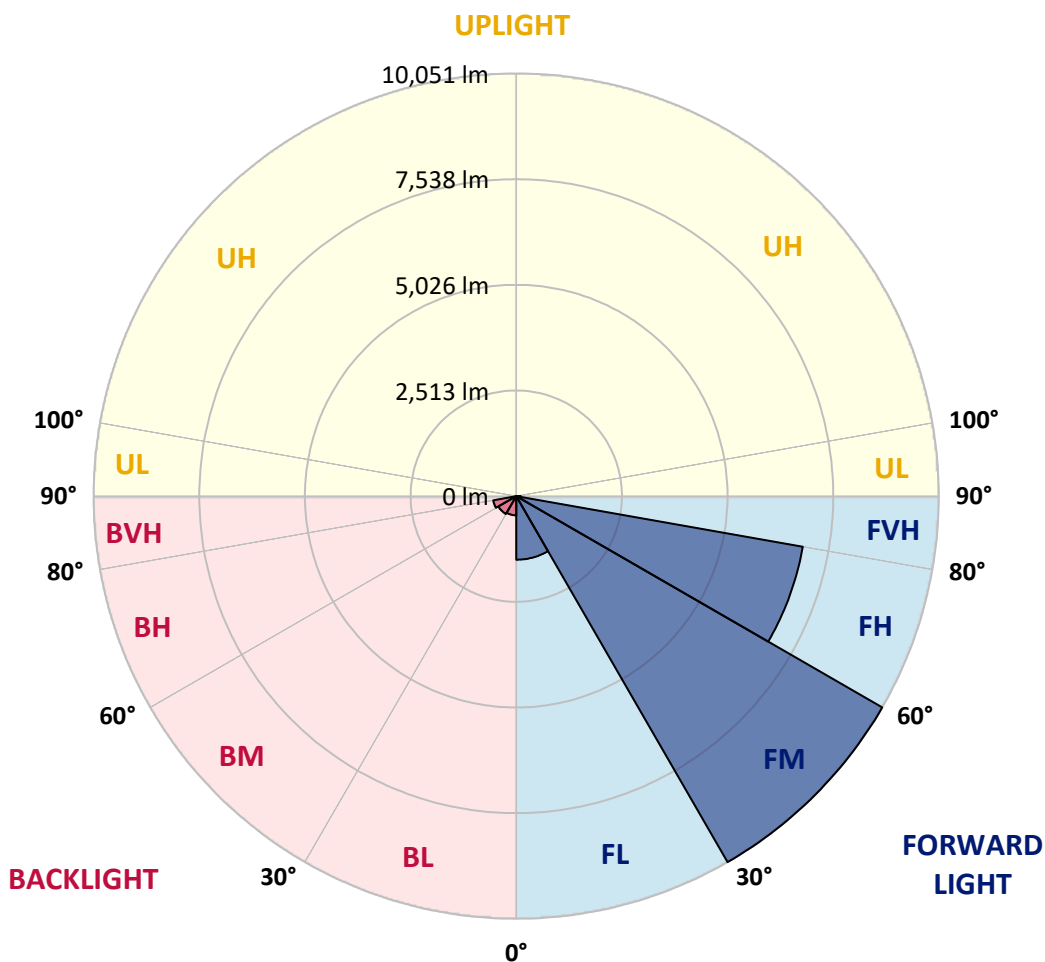


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1512.4 | 7.5 | | | |
| FM (30°-60°) | 10051.0 | 50.0 | | | |
| FH (60°-80°) | 6920.3 | 34.4 | | | G3/7500 |
| FVH (80°-90°) | 109.8 | 0.5 | | | G2/225 |
| BL (0°-30°) | 456.5 | 2.3 | B1/500 | | |
| BM (30°-60°) | 490.6 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 556.4 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 |
| 2.5° | 2832.7 | 2829.6 | 2817.2 | 2795.5 | 2767.6 | 2758.3 | 2718.0 | 2662.2 | 2631.2 | 2597.1 | 2581.6 |
| 5° | 3027.9 | 3012.4 | 3049.6 | 3034.1 | 3040.3 | 2965.9 | 2916.3 | 2876.1 | 2758.3 | 2711.8 | 2637.4 |
| 7.5° | 3071.3 | 3086.8 | 3083.7 | 3108.5 | 3133.3 | 3161.2 | 3127.1 | 3068.2 | 2950.4 | 2882.3 | 2801.7 |
| 10° | 3071.3 | 3065.1 | 3089.9 | 3124.0 | 3195.3 | 3257.3 | 3350.2 | 3272.7 | 3182.9 | 3102.3 | 2956.6 |
| 12.5° | 3015.5 | 3006.2 | 3031.0 | 3102.3 | 3229.4 | 3356.4 | 3458.7 | 3533.1 | 3406.0 | 3340.9 | 3151.9 |
| 15° | 2845.1 | 2835.8 | 2938.0 | 3065.1 | 3232.5 | 3440.1 | 3654.0 | 3774.8 | 3688.0 | 3585.8 | 3375.0 |
| 17.5° | 2634.3 | 2646.7 | 2755.2 | 2965.9 | 3232.5 | 3480.4 | 3753.1 | 4016.6 | 4004.2 | 3874.0 | 3654.0 |
| 20° | 2563.0 | 2572.3 | 2680.8 | 2832.7 | 3136.4 | 3508.3 | 3908.1 | 4280.0 | 4354.4 | 4199.4 | 3911.2 |
| 22.5° | 2699.4 | 2690.1 | 2699.4 | 2792.4 | 3071.3 | 3483.5 | 4010.4 | 4580.6 | 4713.9 | 4593.0 | 4249.0 |
| 25° | 3164.3 | 3158.1 | 3080.6 | 2938.0 | 3034.1 | 3427.7 | 4063.0 | 4779.0 | 5085.8 | 4974.2 | 4521.7 |
| 27.5° | 3846.1 | 3821.3 | 3700.4 | 3402.9 | 3207.7 | 3461.8 | 4149.8 | 4971.1 | 5411.2 | 5284.1 | 4766.6 |
| 30° | 4577.5 | 4518.6 | 4360.6 | 3988.7 | 3657.0 | 3588.9 | 4199.4 | 5113.7 | 5773.8 | 5612.6 | 4980.4 |
| 32.5° | 5082.7 | 5160.2 | 5110.6 | 4732.5 | 4224.2 | 3883.3 | 4280.0 | 5293.4 | 6108.5 | 6003.1 | 5346.1 |
| 35° | 5863.7 | 5953.6 | 5745.9 | 5411.2 | 4899.8 | 4351.3 | 4450.4 | 5439.1 | 6623.0 | 6446.3 | 5687.0 |
| 37.5° | 6849.2 | 6917.4 | 6768.6 | 6133.3 | 5594.0 | 4927.7 | 4800.7 | 5742.8 | 7066.2 | 6982.5 | 6124.0 |
| 40° | 7345.1 | 7673.6 | 7462.9 | 6889.5 | 6310.0 | 5733.5 | 5380.2 | 6099.2 | 7837.9 | 7769.7 | 6728.4 |
| 42.5° | 8030.0 | 8194.3 | 8085.8 | 7661.2 | 7056.9 | 6595.1 | 6096.1 | 6793.4 | 8773.8 | 8773.8 | 7546.5 |
| 45° | 8755.2 | 8761.4 | 8755.2 | 8408.1 | 7872.0 | 7633.3 | 7063.1 | 7664.3 | 9781.1 | 9892.6 | 8525.9 |
| 47.5° | 9350.3 | 9536.2 | 9520.7 | 9313.1 | 8897.8 | 8807.9 | 8030.0 | 8656.1 | 11045.5 | 11240.8 | 9480.4 |
| 50° | 9657.1 | 9864.7 | 9926.7 | 10035.2 | 10016.6 | 10205.6 | 9086.8 | 9805.9 | 12136.4 | 12616.8 | 10707.7 |
| 52.5° | 9573.4 | 9588.9 | 9970.1 | 10397.8 | 11079.6 | 11609.6 | 10360.6 | 11110.6 | 13413.3 | 13887.5 | 11656.1 |
| 55° | 8888.5 | 8829.6 | 9613.7 | 10103.4 | 11513.5 | 12468.1 | 12124.0 | 12737.7 | 14408.2 | 15130.3 | 12635.4 |
| 57.5° | 7385.4 | 7400.9 | 8126.1 | 9120.9 | 11191.2 | 12809.0 | 14008.4 | 14863.7 | 15802.8 | 16531.1 | 14011.5 |
| 60° | 5098.2 | 5079.6 | 5891.6 | 7041.4 | 9297.6 | 12173.6 | 15093.1 | 17618.9 | 17668.5 | 18700.5 | 16481.5 |
| 62.5° | 2866.8 | 2873.0 | 3489.7 | 4472.1 | 6505.2 | 9948.4 | 15040.4 | 20544.6 | 20333.8 | 21238.8 | 19289.4 |
| 65° | 1624.0 | 1664.3 | 2088.9 | 2649.8 | 3895.7 | 6678.8 | 12936.0 | 21709.9 | 22388.6 | 23194.4 | 20993.9 |
| 66° | 1372.9 | 1400.8 | 1763.4 | 2188.0 | 3108.5 | 5417.4 | 11643.7 | 21483.6 | 23033.2 | 23646.9 | 20959.9 |
| 67.5° | 1063.0 | 1100.2 | 1403.9 | 1735.5 | 2281.0 | 3750.0 | 9372.0 | 20358.6 | 23151.0 | 23510.5 | 20367.9 |
| 70° | 728.3 | 753.1 | 985.5 | 1317.2 | 1558.9 | 1918.4 | 5603.3 | 16831.7 | 21006.3 | 21310.1 | 17702.6 |
| 72.5° | 511.4 | 523.8 | 691.1 | 997.9 | 1199.4 | 1097.1 | 2780.0 | 11975.3 | 16075.5 | 16667.5 | 13769.7 |
| 75° | 368.8 | 381.2 | 474.2 | 715.9 | 936.0 | 719.0 | 1273.8 | 7648.8 | 9858.5 | 10323.4 | 8293.4 |
| 77.5° | 266.5 | 282.0 | 322.3 | 461.8 | 678.7 | 505.2 | 626.0 | 3994.9 | 4648.8 | 4568.2 | 3567.2 |
| 80° | 161.2 | 176.7 | 238.6 | 297.5 | 495.9 | 356.4 | 344.0 | 1667.4 | 1648.8 | 1565.1 | 1121.9 |
| 82.5° | 74.4 | 86.8 | 127.1 | 201.4 | 347.1 | 247.9 | 164.3 | 595.0 | 520.7 | 477.3 | 316.1 |
| 85° | 21.7 | 27.9 | 74.4 | 151.9 | 176.7 | 120.9 | 99.2 | 204.5 | 213.8 | 182.9 | 105.4 |
| 87.5° | 0.0 | 3.1 | 34.1 | 37.2 | 52.7 | 40.3 | 37.2 | 52.7 | 99.2 | 80.6 | 34.1 |
| 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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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 | 2501.0 |
| 2.5° | 2525.8 | 2504.1 | 2451.5 | 2370.9 | 2299.6 | 2262.4 | 2209.7 | 2163.2 | 2138.4 | 2135.3 | 2132.2 |
| 5° | 2587.8 | 2528.9 | 2401.9 | 2256.2 | 2147.7 | 2030.0 | 1949.4 | 1890.5 | 1834.7 | 1782.0 | 1813.0 |
| 7.5° | 2671.5 | 2578.5 | 2370.9 | 2181.8 | 1946.3 | 1794.4 | 1651.9 | 1568.2 | 1518.6 | 1472.1 | 1465.9 |
| 10° | 2801.7 | 2683.9 | 2349.2 | 2008.3 | 1738.6 | 1515.5 | 1369.8 | 1249.0 | 1180.8 | 1100.2 | 1131.2 |
| 12.5° | 2978.3 | 2767.6 | 2268.6 | 1850.2 | 1503.1 | 1267.6 | 1059.9 | 864.7 | 756.2 | 672.5 | 675.6 |
| 15° | 3155.0 | 2879.2 | 2194.2 | 1658.1 | 1289.3 | 979.3 | 675.6 | 542.4 | 511.4 | 492.8 | 499.0 |
| 17.5° | 3328.5 | 2969.0 | 2079.6 | 1462.8 | 1044.4 | 622.9 | 492.8 | 464.9 | 449.4 | 430.8 | 430.8 |
| 20° | 3539.3 | 3027.9 | 1937.0 | 1283.1 | 719.0 | 461.8 | 421.5 | 402.9 | 378.1 | 353.3 | 356.4 |
| 22.5° | 3743.8 | 3077.5 | 1772.7 | 1053.7 | 483.5 | 399.8 | 353.3 | 328.5 | 306.8 | 282.0 | 282.0 |
| 25° | 3948.4 | 3093.0 | 1558.9 | 756.2 | 390.5 | 319.2 | 275.8 | 241.7 | 220.0 | 198.3 | 201.4 |
| 27.5° | 4087.8 | 2996.9 | 1357.4 | 483.5 | 313.0 | 241.7 | 192.2 | 164.3 | 145.7 | 124.0 | 124.0 |
| 30° | 4168.4 | 2820.3 | 1140.5 | 340.9 | 235.5 | 164.3 | 114.7 | 86.8 | 68.2 | 52.7 | 49.6 |
| 32.5° | 4249.0 | 2677.7 | 895.7 | 260.3 | 155.0 | 86.8 | 43.4 | 15.5 | 0.0 | 0.0 | 0.0 |
| 35° | 4410.2 | 2516.5 | 601.2 | 145.7 | 52.7 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 4512.4 | 2293.4 | 275.8 | 21.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 4769.7 | 2181.8 | 68.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 5188.1 | 2104.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 5646.7 | 2073.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 6257.3 | 2157.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 6901.9 | 2383.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 7608.5 | 2597.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 8225.3 | 2854.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 9359.6 | 3461.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 11395.7 | 4655.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 13689.1 | 5541.4 | 34.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 14529.0 | 5519.7 | 58.9 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 14380.3 | 5215.9 | 58.9 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 13608.6 | 4633.3 | 52.7 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 11687.1 | 3827.5 | 52.7 | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 8910.2 | 2981.4 | 49.6 | 12.4 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 5377.1 | 1586.8 | 40.3 | 15.5 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2141.5 | 557.9 | 31.0 | 12.4 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 579.5 | 167.4 | 18.6 | 12.4 | 9.3 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 151.9 | 62.0 | 15.5 | 12.4 | 6.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 58.9 | 24.8 | 12.4 | 9.3 | 9.3 | 6.2 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 18.6 | 9.3 | 9.3 | 6.2 | 6.2 | 3.1 | 3.1 | 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)