

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: P481692

Luminaire Tested: **IFLD-L-SA7B-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481692
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

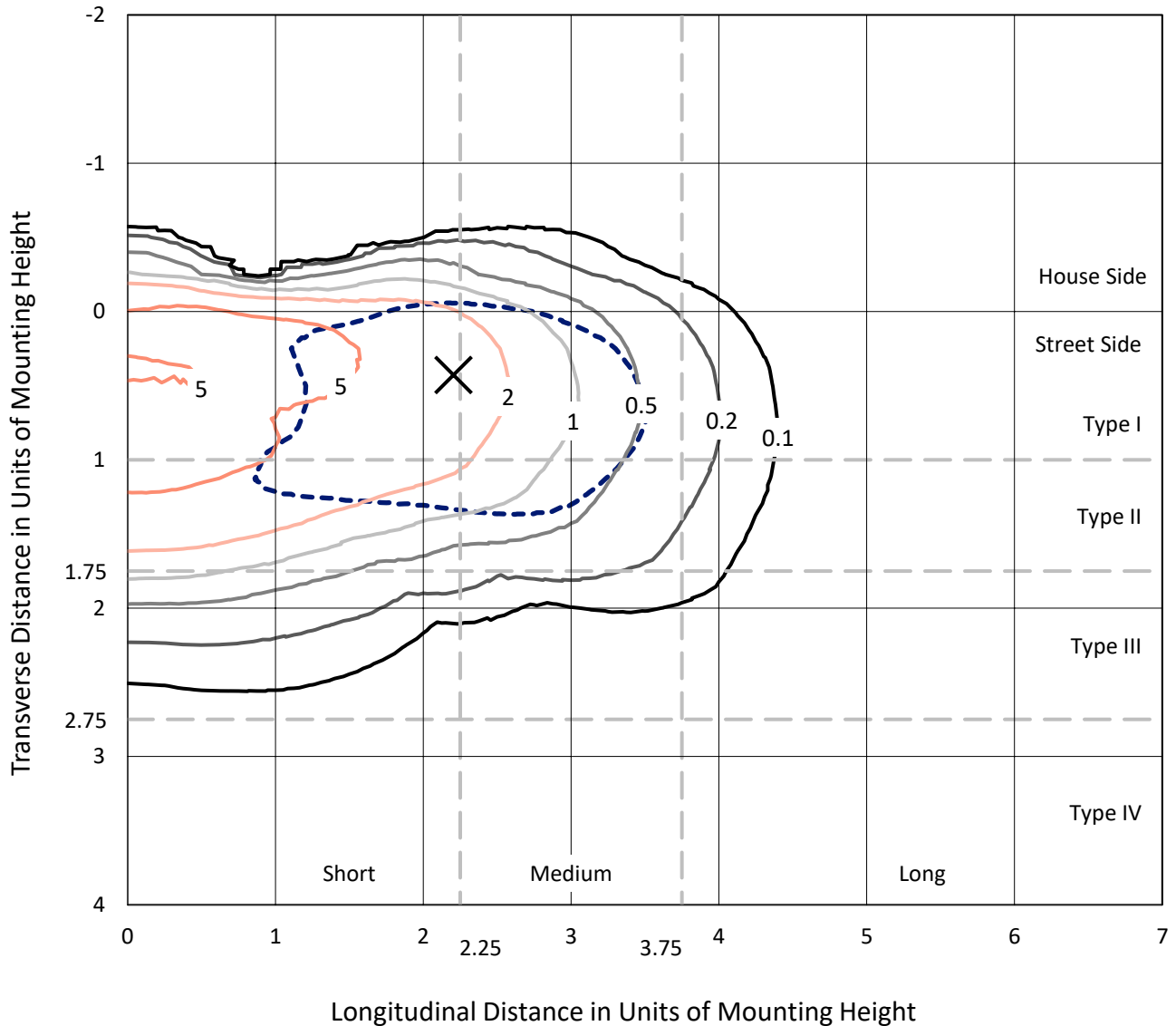
Lumens per Lamp: N/A
Luminaire Lumens: 25645.6 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

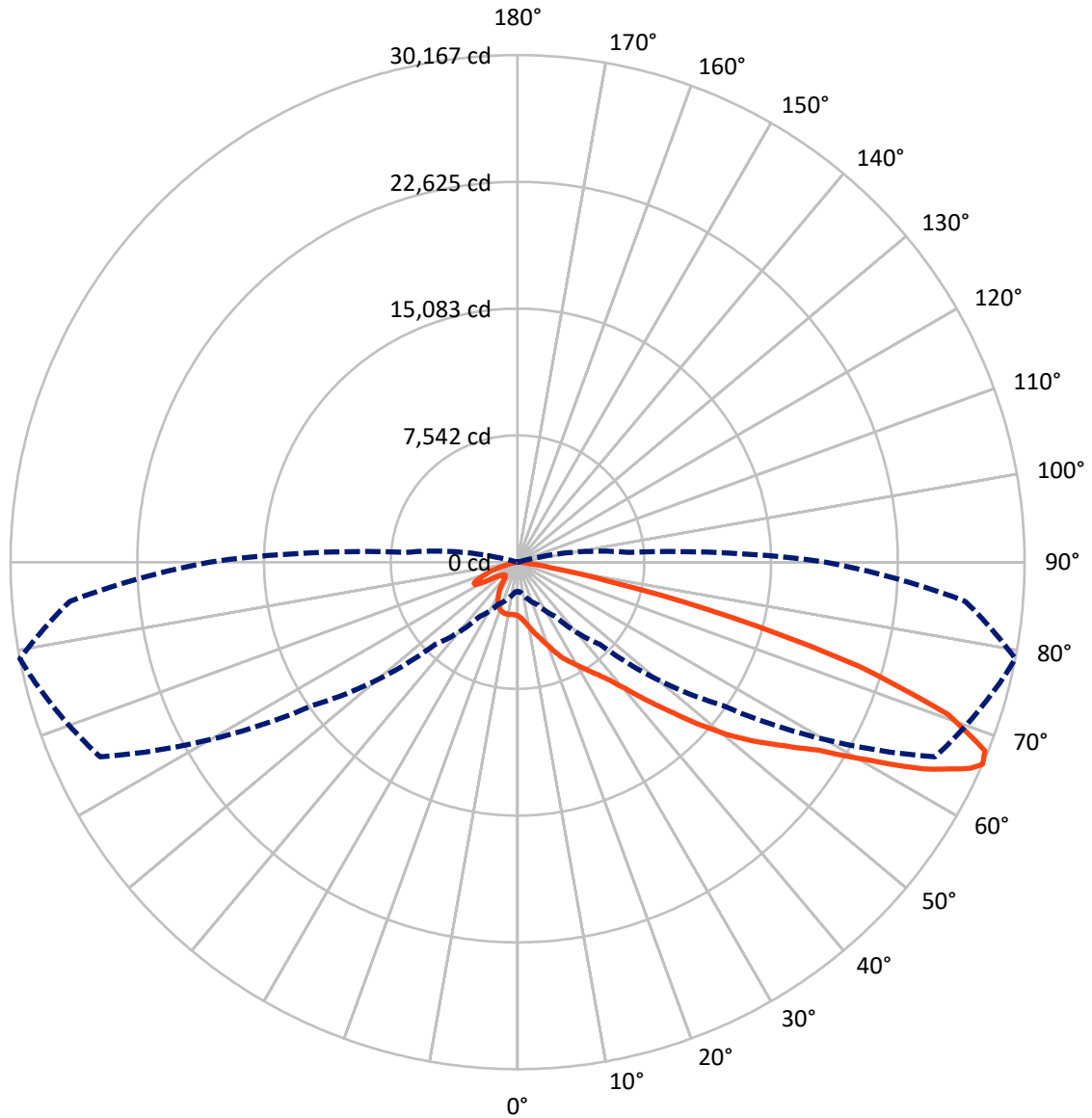
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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 | 1925.6 | 0.0 | 1925.6 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 23720.0 | 0.0 | 23720.0 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 25645.6 | 0.0 | 25645.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 301.7 | 1.2 |
| 10°-20° | 830.4 | 3.2 |
| 20°-30° | 1379.6 | 5.4 |
| 30°-40° | 2369.6 | 9.2 |
| 40°-50° | 4292.8 | 16.7 |
| 50°-60° | 6785.7 | 26.5 |
| 60°-70° | 6904.9 | 26.9 |
| 70°-80° | 2633.2 | 10.3 |
| 80°-90° | 147.6 | 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° | 25645.6 | 100.0 |
| 0°-180° | 25645.6 | 100.0 |

Coefficient of Utilization

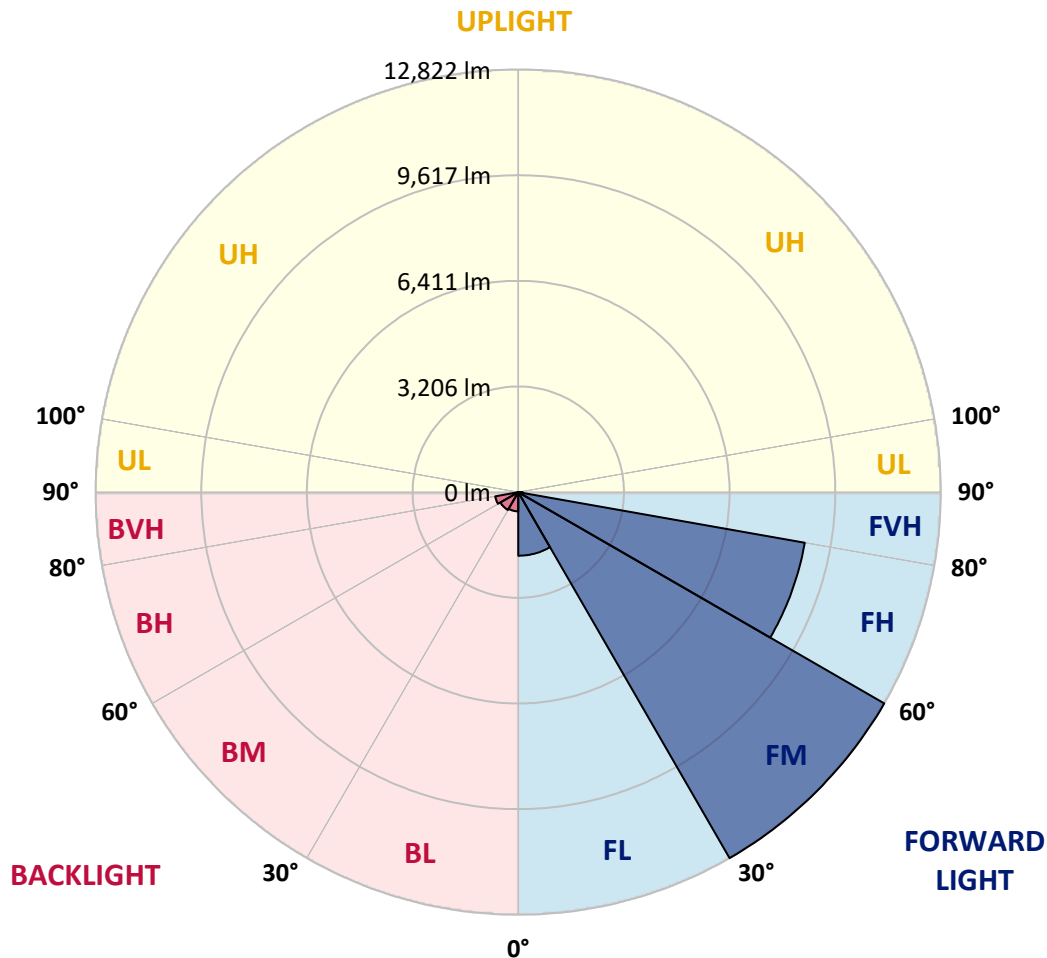


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1929.4 | 7.5 | | | |
| FM (30°-60°) | 12822.2 | 50.0 | | | |
| FH (60°-80°) | 8828.3 | 34.4 | | | G4/12000 |
| FVH (80°-90°) | 140.1 | 0.5 | | | G2/225 |
| BL (0°-30°) | 582.4 | 2.3 | B2/1000 | | |
| BM (30°-60°) | 625.9 | 2.4 | B1/1000 | | |
| BH (60°-80°) | 709.9 | 2.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 7.6 | 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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 |
| 2.5° | 3613.7 | 3609.7 | 3593.9 | 3566.2 | 3530.6 | 3518.8 | 3467.4 | 3396.2 | 3356.7 | 3313.2 | 3293.4 |
| 5° | 3862.7 | 3843.0 | 3890.4 | 3870.7 | 3878.6 | 3783.7 | 3720.4 | 3669.0 | 3518.8 | 3459.5 | 3364.6 |
| 7.5° | 3918.1 | 3937.9 | 3933.9 | 3965.5 | 3997.2 | 4032.8 | 3989.3 | 3914.1 | 3763.9 | 3676.9 | 3574.1 |
| 10° | 3918.1 | 3910.2 | 3941.8 | 3985.3 | 4076.2 | 4155.3 | 4273.9 | 4175.1 | 4060.4 | 3957.6 | 3771.8 |
| 12.5° | 3846.9 | 3835.1 | 3866.7 | 3957.6 | 4119.7 | 4281.8 | 4412.3 | 4507.2 | 4345.1 | 4262.1 | 4020.9 |
| 15° | 3629.5 | 3617.6 | 3748.1 | 3910.2 | 4123.7 | 4388.6 | 4661.4 | 4815.6 | 4704.9 | 4574.4 | 4305.6 |
| 17.5° | 3360.6 | 3376.4 | 3514.8 | 3783.7 | 4123.7 | 4440.0 | 4787.9 | 5124.0 | 5108.2 | 4942.1 | 4661.4 |
| 20° | 3269.7 | 3281.6 | 3419.9 | 3613.7 | 4001.1 | 4475.6 | 4985.6 | 5460.0 | 5554.9 | 5357.2 | 4989.5 |
| 22.5° | 3443.7 | 3431.8 | 3443.7 | 3562.3 | 3918.1 | 4443.9 | 5116.1 | 5843.5 | 6013.6 | 5859.4 | 5420.5 |
| 25° | 4036.7 | 4028.8 | 3930.0 | 3748.1 | 3870.7 | 4372.8 | 5183.3 | 6096.6 | 6488.0 | 6345.7 | 5768.4 |
| 27.5° | 4906.5 | 4874.9 | 4720.7 | 4341.1 | 4092.1 | 4416.3 | 5294.0 | 6341.7 | 6903.1 | 6741.0 | 6080.8 |
| 30° | 5839.6 | 5764.5 | 5562.8 | 5088.4 | 4665.3 | 4578.4 | 5357.2 | 6523.6 | 7365.7 | 7160.1 | 6353.6 |
| 32.5° | 6484.0 | 6582.9 | 6519.6 | 6037.3 | 5388.9 | 4954.0 | 5460.0 | 6752.9 | 7792.7 | 7658.3 | 6820.1 |
| 35° | 7480.4 | 7595.0 | 7330.1 | 6903.1 | 6250.8 | 5551.0 | 5677.5 | 6938.7 | 8449.0 | 8223.7 | 7255.0 |
| 37.5° | 8737.6 | 8824.6 | 8634.8 | 7824.3 | 7136.4 | 6286.4 | 6124.3 | 7326.2 | 9014.4 | 8907.7 | 7812.5 |
| 40° | 9370.2 | 9789.3 | 9520.5 | 8789.0 | 8049.7 | 7314.3 | 6863.6 | 7780.9 | 9998.9 | 9911.9 | 8583.4 |
| 42.5° | 10244.0 | 10453.5 | 10315.2 | 9773.5 | 9002.5 | 8413.4 | 7776.9 | 8666.5 | 11192.9 | 11192.9 | 9627.2 |
| 45° | 11169.2 | 11177.1 | 11169.2 | 10726.3 | 10042.4 | 9737.9 | 9010.4 | 9777.5 | 12477.8 | 12620.2 | 10876.6 |
| 47.5° | 11928.3 | 12165.5 | 12145.7 | 11880.8 | 11351.0 | 11236.4 | 10244.0 | 11042.6 | 14090.9 | 14340.0 | 12094.3 |
| 50° | 12319.7 | 12584.6 | 12663.7 | 12802.0 | 12778.3 | 13019.5 | 11592.2 | 12509.5 | 15482.6 | 16095.4 | 13660.0 |
| 52.5° | 12212.9 | 12232.7 | 12719.0 | 13264.6 | 14134.4 | 14810.5 | 13217.2 | 14174.0 | 17111.5 | 17716.5 | 14869.8 |
| 55° | 11339.2 | 11264.0 | 12264.3 | 12889.0 | 14687.9 | 15905.7 | 15466.8 | 16249.6 | 18380.7 | 19301.9 | 16119.2 |
| 57.5° | 9421.6 | 9441.4 | 10366.6 | 11635.7 | 14276.8 | 16340.6 | 17870.7 | 18961.9 | 20159.8 | 21089.0 | 17874.6 |
| 60° | 6503.8 | 6480.1 | 7516.0 | 8982.8 | 11861.1 | 15530.1 | 19254.4 | 22476.7 | 22540.0 | 23856.5 | 21025.7 |
| 62.5° | 3657.2 | 3665.1 | 4451.8 | 5705.2 | 8298.8 | 12691.3 | 19187.2 | 26209.0 | 25940.1 | 27094.6 | 24607.7 |
| 65° | 2071.7 | 2123.1 | 2664.8 | 3380.4 | 4969.8 | 8520.2 | 16502.7 | 27695.6 | 28561.4 | 29589.4 | 26782.3 |
| 66° | 1751.5 | 1787.1 | 2249.6 | 2791.3 | 3965.5 | 6911.0 | 14854.0 | 27406.9 | 29383.8 | 30166.6 | 26738.8 |
| 67.5° | 1356.1 | 1403.6 | 1791.0 | 2214.1 | 2909.9 | 4784.0 | 11955.9 | 25971.8 | 29534.0 | 29992.6 | 25983.6 |
| 70° | 929.1 | 960.7 | 1257.3 | 1680.3 | 1988.7 | 2447.3 | 7148.3 | 21472.5 | 26798.1 | 27185.5 | 22583.4 |
| 72.5° | 652.4 | 668.2 | 881.7 | 1273.1 | 1530.1 | 1399.6 | 3546.5 | 15277.0 | 20507.8 | 21262.9 | 17566.2 |
| 75° | 470.5 | 486.3 | 604.9 | 913.3 | 1194.0 | 917.3 | 1625.0 | 9757.7 | 12576.7 | 13169.7 | 10580.1 |
| 77.5° | 340.0 | 359.8 | 411.2 | 589.1 | 865.9 | 644.5 | 798.6 | 5096.3 | 5930.5 | 5827.7 | 4550.7 |
| 80° | 205.6 | 225.4 | 304.4 | 379.6 | 632.6 | 454.7 | 438.9 | 2127.1 | 2103.4 | 1996.6 | 1431.2 |
| 82.5° | 94.9 | 110.7 | 162.1 | 257.0 | 442.8 | 316.3 | 209.5 | 759.1 | 664.2 | 608.9 | 403.3 |
| 85° | 27.7 | 35.6 | 94.9 | 193.7 | 225.4 | 154.2 | 126.5 | 260.9 | 272.8 | 233.3 | 134.4 |
| 87.5° | 0.0 | 4.0 | 43.5 | 47.4 | 67.2 | 51.4 | 47.4 | 67.2 | 126.5 | 102.8 | 43.5 |
| 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° | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 | 3190.6 |
| 2.5° | 3222.3 | 3194.6 | 3127.4 | 3024.6 | 2933.6 | 2886.2 | 2819.0 | 2759.7 | 2728.0 | 2724.1 | 2720.1 |
| 5° | 3301.3 | 3226.2 | 3064.1 | 2878.3 | 2739.9 | 2589.7 | 2486.9 | 2411.7 | 2340.6 | 2273.4 | 2312.9 |
| 7.5° | 3408.1 | 3289.5 | 3024.6 | 2783.4 | 2482.9 | 2289.2 | 2107.3 | 2000.6 | 1937.3 | 1878.0 | 1870.1 |
| 10° | 3574.1 | 3423.9 | 2996.9 | 2562.0 | 2218.0 | 1933.4 | 1747.5 | 1593.3 | 1506.4 | 1403.6 | 1443.1 |
| 12.5° | 3799.5 | 3530.6 | 2894.1 | 2360.3 | 1917.5 | 1617.1 | 1352.2 | 1103.1 | 964.7 | 857.9 | 861.9 |
| 15° | 4024.9 | 3673.0 | 2799.2 | 2115.2 | 1644.7 | 1249.4 | 861.9 | 691.9 | 652.4 | 628.6 | 636.5 |
| 17.5° | 4246.3 | 3787.6 | 2652.9 | 1866.1 | 1332.4 | 794.7 | 628.6 | 593.1 | 573.3 | 549.6 | 549.6 |
| 20° | 4515.1 | 3862.7 | 2471.1 | 1636.8 | 917.3 | 589.1 | 537.7 | 514.0 | 482.3 | 450.7 | 454.7 |
| 22.5° | 4776.1 | 3926.0 | 2261.5 | 1344.3 | 616.8 | 510.0 | 450.7 | 419.1 | 391.4 | 359.8 | 359.8 |
| 25° | 5037.0 | 3945.8 | 1988.7 | 964.7 | 498.2 | 407.2 | 351.9 | 308.4 | 280.7 | 253.0 | 257.0 |
| 27.5° | 5214.9 | 3823.2 | 1731.7 | 616.8 | 399.3 | 308.4 | 245.1 | 209.5 | 185.8 | 158.1 | 158.1 |
| 30° | 5317.7 | 3597.9 | 1455.0 | 434.9 | 300.5 | 209.5 | 146.3 | 110.7 | 87.0 | 67.2 | 63.3 |
| 32.5° | 5420.5 | 3416.0 | 1142.6 | 332.1 | 197.7 | 110.7 | 55.4 | 19.8 | 0.0 | 0.0 | 0.0 |
| 35° | 5626.1 | 3210.4 | 767.0 | 185.8 | 67.2 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 37.5° | 5756.6 | 2925.7 | 351.9 | 27.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 40° | 6084.7 | 2783.4 | 87.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 42.5° | 6618.5 | 2684.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 45° | 7203.6 | 2645.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 47.5° | 7982.5 | 2751.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50° | 8804.9 | 3040.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 52.5° | 9706.3 | 3313.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55° | 10493.1 | 3641.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 57.5° | 11940.1 | 4416.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 14537.7 | 5938.4 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 17463.4 | 7069.2 | 43.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 18534.9 | 7041.5 | 75.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 66° | 18345.1 | 6654.1 | 75.1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 17360.6 | 5910.8 | 67.2 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 14909.3 | 4882.8 | 67.2 | 11.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 11366.8 | 3803.4 | 63.3 | 15.8 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 6859.6 | 2024.3 | 51.4 | 19.8 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 2732.0 | 711.7 | 39.5 | 15.8 | 7.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 739.3 | 213.5 | 23.7 | 15.8 | 11.9 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 193.7 | 79.1 | 19.8 | 15.8 | 7.9 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 75.1 | 31.6 | 15.8 | 11.9 | 11.9 | 7.9 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 23.7 | 11.9 | 11.9 | 7.9 | 7.9 | 4.0 | 4.0 | 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)