

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: P478093

Luminaire Tested: **IFLD-S-SA6A-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478093
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

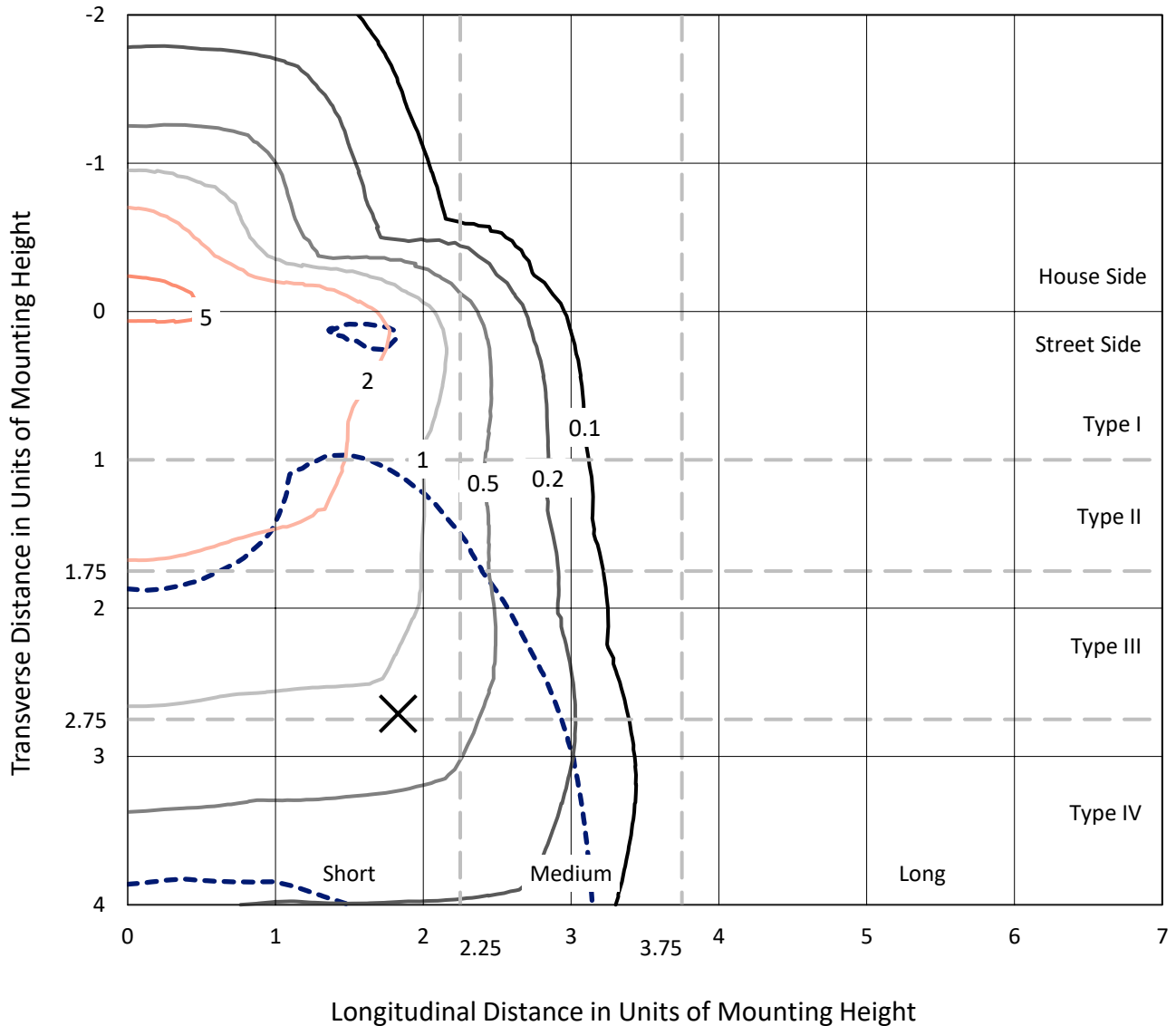
Lumens per Lamp: N/A
Luminaire Lumens: 25179 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

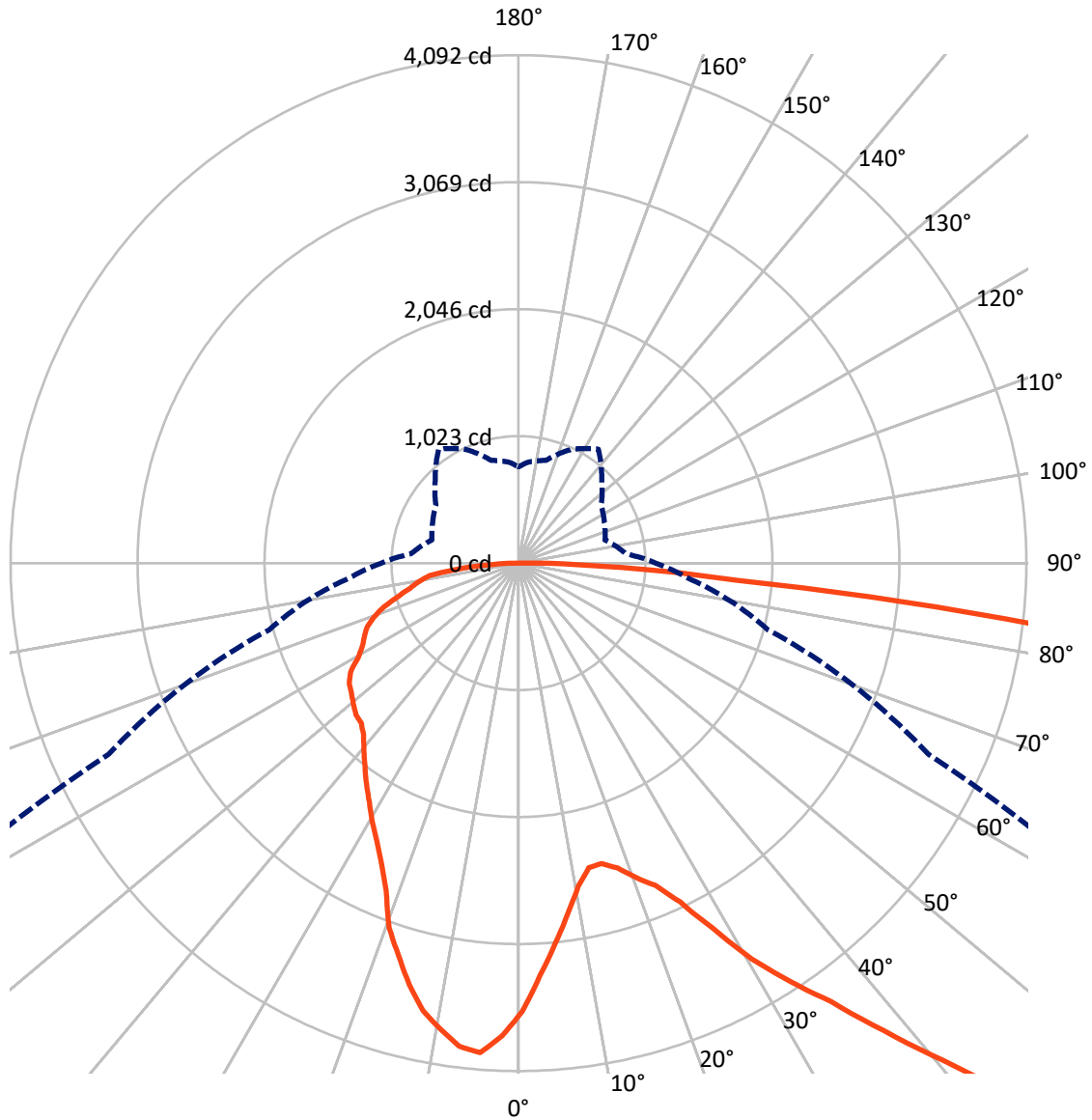
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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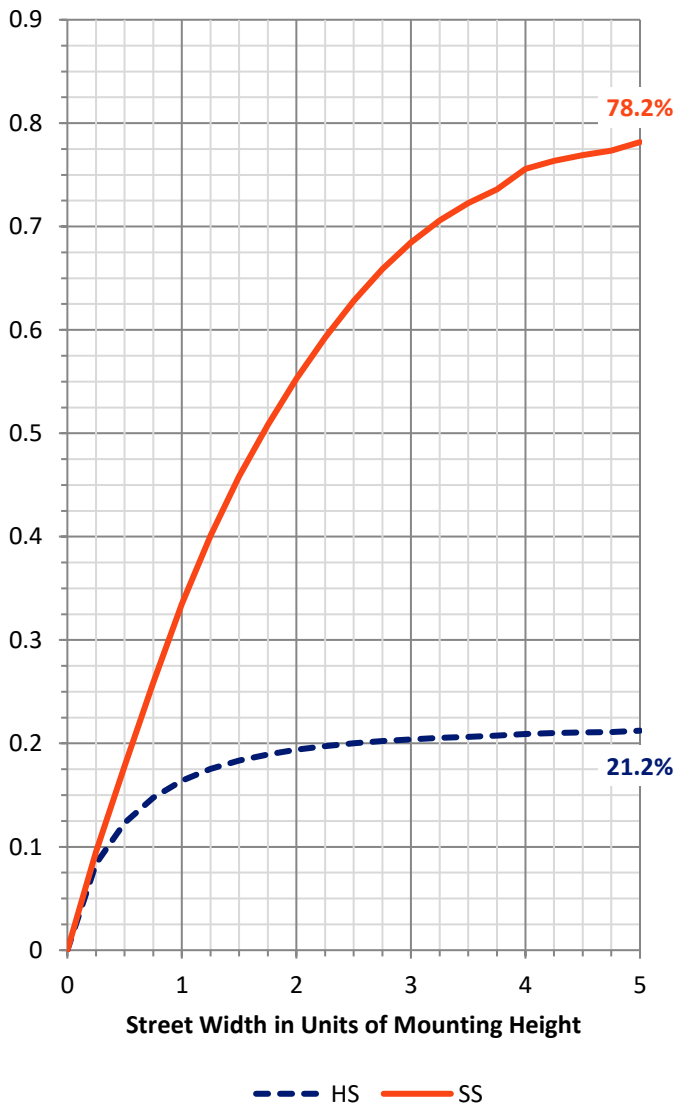
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5439.0 | 0.0 | 5439.0 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 19740.0 | 0.0 | 19740.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 25179.0 | 0.0 | 25179.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 333.2 | 1.3 |
| 10°-20° | 932.4 | 3.7 |
| 20°-30° | 1534.6 | 6.1 |
| 30°-40° | 2295.0 | 9.1 |
| 40°-50° | 3402.2 | 13.5 |
| 50°-60° | 4902.9 | 19.5 |
| 60°-70° | 6256.8 | 24.8 |
| 70°-80° | 4868.8 | 19.3 |
| 80°-90° | 653.2 | 2.6 |
| 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° | 25179.0 | 100.0 |
| 0°-180° | 25179.0 | 100.0 |



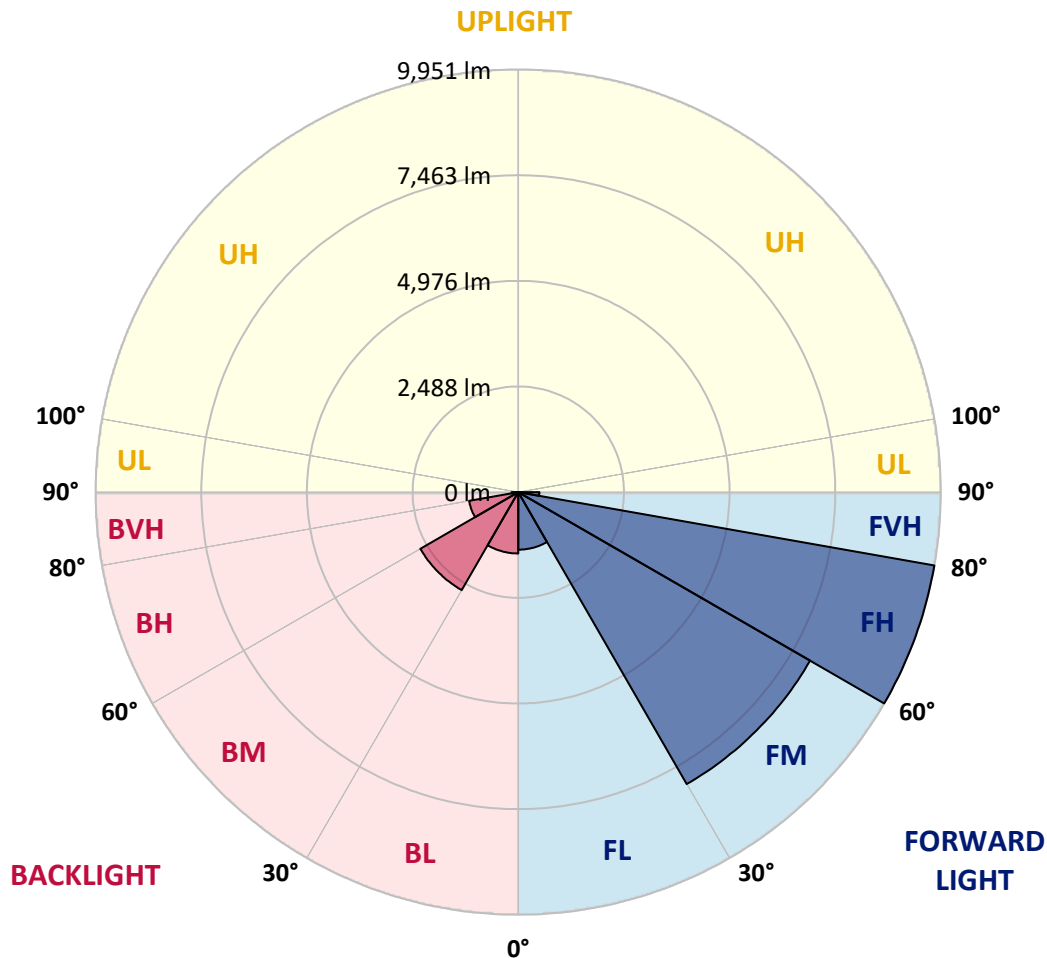
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1355.1 | 5.4 | | | |
| FM (30°-60°) | 7936.6 | 31.5 | | | |
| FH (60°-80°) | 9951.2 | 39.5 | | | G4/12000 |
| FVH (80°-90°) | 497.2 | 2.0 | | | G3/500 |
| BL (0°-30°) | 1445.1 | 5.7 | B3/2500 | | |
| BM (30°-60°) | 2663.5 | 10.6 | B3/5000 | | |
| BH (60°-80°) | 1174.4 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 156.0 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|---------|
| 0° | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 |
| 2.5° | 3234.4 | 3245.1 | 3279.7 | 3287.7 | 3325.0 | 3303.7 | 3348.9 | 3428.8 | 3474.0 | 3540.6 | 3620.4 |
| 5° | 2978.9 | 2933.6 | 2954.9 | 3037.4 | 3080.0 | 3090.7 | 3138.6 | 3274.4 | 3359.6 | 3458.1 | 3607.1 |
| 7.5° | 2678.1 | 2670.1 | 2712.7 | 2765.9 | 2851.1 | 2859.1 | 2965.6 | 3085.4 | 3261.1 | 3479.4 | 3655.1 |
| 10° | 2473.1 | 2507.7 | 2531.7 | 2587.6 | 2646.1 | 2646.1 | 2781.9 | 2989.5 | 3189.2 | 3399.5 | 3665.7 |
| 12.5° | 2462.4 | 2441.1 | 2446.5 | 2475.7 | 2518.3 | 2571.6 | 2699.4 | 2885.7 | 3138.6 | 3383.5 | 3711.0 |
| 15° | 2497.0 | 2505.0 | 2457.1 | 2494.4 | 2510.4 | 2529.0 | 2670.1 | 2880.4 | 3106.7 | 3439.4 | 3788.2 |
| 17.5° | 2680.7 | 2635.5 | 2560.9 | 2526.3 | 2582.2 | 2582.2 | 2678.1 | 2843.1 | 3112.0 | 3468.7 | 3900.0 |
| 20° | 2824.5 | 2824.5 | 2702.0 | 2664.8 | 2704.7 | 2696.7 | 2763.3 | 2885.7 | 3138.6 | 3527.3 | 4025.1 |
| 22.5° | 3066.7 | 3101.3 | 2899.0 | 2821.8 | 2819.2 | 2840.5 | 2899.0 | 3002.8 | 3213.1 | 3609.8 | 4144.9 |
| 25° | 3415.5 | 3423.5 | 3189.2 | 3109.3 | 3024.1 | 3058.7 | 3069.4 | 3173.2 | 3279.7 | 3705.6 | 4280.6 |
| 27.5° | 3804.1 | 3798.8 | 3583.2 | 3383.5 | 3327.6 | 3335.6 | 3277.0 | 3346.3 | 3378.2 | 3734.9 | 4475.0 |
| 30° | 4235.4 | 4187.5 | 4025.1 | 3742.9 | 3697.6 | 3647.1 | 3519.3 | 3516.6 | 3583.2 | 3900.0 | 4743.9 |
| 32.5° | 4517.6 | 4456.3 | 4344.5 | 4142.2 | 4017.1 | 4022.4 | 3820.1 | 3817.4 | 3758.9 | 4081.0 | 4978.1 |
| 35° | 4794.4 | 4701.3 | 4672.0 | 4464.3 | 4339.2 | 4352.5 | 4190.1 | 4168.8 | 4062.4 | 4355.2 | 5364.1 |
| 37.5° | 5127.2 | 5044.7 | 5089.9 | 4932.9 | 4778.5 | 4714.6 | 4640.0 | 4613.4 | 4475.0 | 4741.2 | 5891.2 |
| 40° | 5494.6 | 5467.9 | 5438.7 | 5361.5 | 5268.3 | 5273.6 | 5193.7 | 5167.1 | 4962.1 | 5207.1 | 6397.0 |
| 42.5° | 5989.7 | 5888.6 | 5736.8 | 5787.4 | 5835.3 | 5885.9 | 5859.3 | 5790.1 | 5577.1 | 5680.9 | 6961.4 |
| 45° | 6450.3 | 6317.2 | 6037.6 | 6053.6 | 6250.6 | 6290.5 | 6612.6 | 6604.7 | 6176.1 | 6282.5 | 7602.9 |
| 47.5° | 6761.7 | 6700.5 | 6532.8 | 6514.1 | 6796.3 | 6793.7 | 7374.0 | 7374.0 | 6807.0 | 6881.5 | 8292.4 |
| 50° | 7224.9 | 7065.2 | 6993.3 | 7086.5 | 7230.2 | 7328.7 | 8151.3 | 8201.9 | 7427.2 | 7507.1 | 9194.9 |
| 52.5° | 7768.0 | 7568.3 | 7387.3 | 7626.9 | 7882.5 | 7946.4 | 8920.7 | 8899.4 | 7903.8 | 8233.9 | 10251.7 |
| 55° | 8217.9 | 8116.7 | 7991.6 | 8130.0 | 8548.0 | 8627.8 | 9692.7 | 9495.7 | 8380.3 | 8835.5 | 10760.2 |
| 57.5° | 8742.3 | 8803.5 | 8830.2 | 8795.6 | 9293.4 | 9418.5 | 10573.8 | 10009.5 | 8790.2 | 9240.1 | 11058.3 |
| 60° | 9533.0 | 9570.2 | 9604.8 | 9687.4 | 10214.5 | 10390.2 | 11271.3 | 10653.7 | 9048.5 | 9474.4 | 11082.3 |
| 62.5° | 10736.2 | 10592.5 | 10669.7 | 10954.5 | 11377.8 | 11577.4 | 12298.9 | 11106.3 | 9245.5 | 9615.5 | 10299.6 |
| 65° | 12112.5 | 11918.2 | 11838.3 | 12205.7 | 13302.5 | 13142.8 | 13582.0 | 11444.3 | 8960.6 | 9088.4 | 8734.3 |
| 67.5° | 13507.5 | 13528.8 | 13323.8 | 14061.2 | 15405.5 | 15405.5 | 14774.6 | 11606.7 | 8188.6 | 7366.0 | 6125.5 |
| 70° | 14614.9 | 14681.5 | 14793.3 | 16222.8 | 18352.5 | 18674.6 | 16252.1 | 10941.2 | 6615.3 | 4903.6 | 3348.9 |
| 72.5° | 14598.9 | 14399.3 | 14971.6 | 17604.4 | 21030.5 | 20761.7 | 16560.9 | 8651.8 | 4128.9 | 2401.2 | 1536.0 |
| 73° | 14271.5 | 14103.8 | 14729.4 | 17591.1 | 21139.7 | 20886.8 | 16334.6 | 7975.6 | 3641.7 | 2081.8 | 1365.7 |
| 75° | 11654.6 | 11351.2 | 12416.0 | 15932.6 | 19558.4 | 19752.7 | 13877.5 | 5201.7 | 1996.6 | 1283.1 | 961.0 |
| 77.5° | 5313.5 | 5446.6 | 6833.6 | 10688.3 | 15072.8 | 15301.7 | 9123.0 | 2249.5 | 1094.1 | 899.8 | 708.1 |
| 80° | 1706.4 | 1791.6 | 2659.4 | 5313.5 | 9447.8 | 9860.4 | 4216.8 | 1022.2 | 780.0 | 689.5 | 529.8 |
| 82.5° | 652.2 | 649.6 | 1115.4 | 2209.5 | 4477.6 | 4741.2 | 1541.4 | 622.9 | 580.3 | 508.5 | 375.4 |
| 85° | 228.9 | 239.6 | 420.6 | 873.2 | 1762.3 | 1844.8 | 535.1 | 346.1 | 402.0 | 340.7 | 215.6 |
| 87.5° | 79.9 | 82.5 | 149.1 | 316.8 | 607.0 | 641.6 | 149.1 | 138.4 | 199.7 | 197.0 | 109.1 |
| 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° | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 | 3609.8 |
| 2.5° | 3647.1 | 3671.0 | 3679.0 | 3774.9 | 3774.9 | 3774.9 | 3812.1 | 3812.1 | 3801.5 | 3774.9 | 3838.7 |
| 5° | 3663.0 | 3705.6 | 3788.2 | 3870.7 | 3892.0 | 3910.6 | 3961.2 | 3918.6 | 3934.6 | 3908.0 | 3931.9 |
| 7.5° | 3708.3 | 3766.9 | 3921.3 | 3971.8 | 3937.2 | 3977.2 | 3923.9 | 3894.6 | 3865.4 | 3876.0 | 3838.7 |
| 10° | 3785.5 | 3860.0 | 3931.9 | 4025.1 | 3958.5 | 3918.6 | 3809.5 | 3782.8 | 3689.7 | 3657.7 | 3687.0 |
| 12.5° | 3881.3 | 3971.8 | 4094.3 | 4059.7 | 3931.9 | 3817.4 | 3700.3 | 3588.5 | 3532.6 | 3452.7 | 3474.0 |
| 15° | 3977.2 | 4081.0 | 4099.6 | 4041.1 | 3881.3 | 3737.6 | 3524.6 | 3367.5 | 3311.6 | 3239.8 | 3277.0 |
| 17.5° | 4081.0 | 4179.5 | 4147.5 | 3995.8 | 3780.2 | 3561.9 | 3319.6 | 3165.2 | 3048.1 | 3002.8 | 3002.8 |
| 20° | 4235.4 | 4283.3 | 4232.7 | 3921.3 | 3657.7 | 3370.2 | 3135.9 | 2960.2 | 2843.1 | 2824.5 | 2795.2 |
| 22.5° | 4355.2 | 4432.4 | 4206.1 | 3812.1 | 3479.4 | 3120.0 | 2851.1 | 2784.6 | 2749.9 | 2720.7 | 2683.4 |
| 25° | 4509.6 | 4506.9 | 4158.2 | 3711.0 | 3173.2 | 2821.8 | 2659.4 | 2654.1 | 2638.1 | 2627.5 | 2678.1 |
| 27.5° | 4656.0 | 4594.8 | 4102.3 | 3460.7 | 2856.4 | 2595.5 | 2507.7 | 2566.3 | 2590.2 | 2574.2 | 2595.5 |
| 30° | 4887.6 | 4786.4 | 4022.4 | 3194.5 | 2576.9 | 2366.6 | 2382.6 | 2462.4 | 2502.4 | 2526.3 | 2494.4 |
| 32.5° | 5132.5 | 4978.1 | 3857.4 | 2917.7 | 2329.3 | 2222.8 | 2260.1 | 2342.6 | 2390.6 | 2417.2 | 2446.5 |
| 35° | 5486.6 | 5127.2 | 3689.7 | 2555.6 | 2151.0 | 2135.0 | 2156.3 | 2201.6 | 2270.8 | 2289.4 | 2297.4 |
| 37.5° | 5923.2 | 5353.5 | 3463.4 | 2265.4 | 2012.5 | 2031.2 | 2052.5 | 2068.4 | 2071.1 | 2105.7 | 2092.4 |
| 40° | 6359.7 | 5545.1 | 3133.3 | 1988.6 | 1868.8 | 1969.9 | 1959.3 | 1930.0 | 1906.1 | 1874.1 | 1866.1 |
| 42.5° | 6743.1 | 5712.9 | 2765.9 | 1754.3 | 1741.0 | 1906.1 | 1871.5 | 1796.9 | 1741.0 | 1717.1 | 1677.1 |
| 45° | 7174.3 | 5949.8 | 2395.9 | 1607.9 | 1642.5 | 1828.9 | 1818.2 | 1703.7 | 1631.9 | 1546.7 | 1536.0 |
| 47.5° | 7733.4 | 6197.4 | 2041.8 | 1456.2 | 1549.3 | 1799.6 | 1804.9 | 1658.5 | 1554.7 | 1440.2 | 1424.2 |
| 50° | 8449.5 | 6554.1 | 1773.0 | 1392.3 | 1493.4 | 1757.0 | 1765.0 | 1597.3 | 1461.5 | 1344.4 | 1333.7 |
| 52.5° | 9136.3 | 6918.8 | 1549.3 | 1293.8 | 1456.2 | 1706.4 | 1725.0 | 1541.4 | 1384.3 | 1237.9 | 1245.9 |
| 55° | 9482.4 | 6785.7 | 1357.7 | 1221.9 | 1371.0 | 1623.9 | 1693.1 | 1501.4 | 1267.2 | 1166.0 | 1163.3 |
| 57.5° | 9559.6 | 6458.2 | 1205.9 | 1147.4 | 1299.1 | 1536.0 | 1639.9 | 1381.6 | 1213.9 | 1128.7 | 1118.1 |
| 60° | 9306.7 | 5885.9 | 1086.1 | 1067.5 | 1208.6 | 1445.5 | 1517.4 | 1317.7 | 1160.7 | 1091.5 | 1075.5 |
| 62.5° | 8683.8 | 5292.2 | 1003.6 | 1030.2 | 1131.4 | 1347.0 | 1440.2 | 1272.5 | 1110.1 | 1062.2 | 1027.6 |
| 65° | 7121.1 | 4352.5 | 937.1 | 958.4 | 1051.5 | 1251.2 | 1392.3 | 1221.9 | 1064.8 | 1019.6 | 1016.9 |
| 67.5° | 4932.9 | 3000.2 | 883.8 | 923.7 | 987.6 | 1182.0 | 1344.4 | 1166.0 | 1006.3 | 990.3 | 969.0 |
| 70° | 2526.3 | 1599.9 | 814.6 | 846.5 | 918.4 | 1094.1 | 1259.2 | 1107.4 | 945.0 | 942.4 | 915.8 |
| 72.5° | 1280.5 | 937.1 | 734.7 | 782.7 | 833.2 | 979.7 | 1152.7 | 1030.2 | 867.8 | 838.6 | 796.0 |
| 73° | 1107.4 | 867.8 | 721.4 | 764.0 | 811.9 | 947.7 | 1120.7 | 1011.6 | 857.2 | 814.6 | 774.7 |
| 75° | 806.6 | 684.2 | 646.9 | 689.5 | 726.8 | 854.5 | 1014.3 | 926.4 | 788.0 | 742.7 | 705.5 |
| 77.5° | 604.3 | 527.1 | 537.7 | 585.7 | 617.6 | 737.4 | 902.5 | 838.6 | 713.4 | 652.2 | 636.2 |
| 80° | 444.6 | 402.0 | 444.6 | 489.8 | 513.8 | 649.6 | 822.6 | 726.8 | 601.6 | 532.4 | 519.1 |
| 82.5° | 316.8 | 292.8 | 343.4 | 372.7 | 383.3 | 537.7 | 740.1 | 580.3 | 455.2 | 364.7 | 335.4 |
| 85° | 181.0 | 178.4 | 231.6 | 228.9 | 236.9 | 314.1 | 487.2 | 386.0 | 292.8 | 223.6 | 218.3 |
| 87.5° | 79.9 | 87.8 | 117.1 | 93.2 | 98.5 | 149.1 | 207.6 | 143.8 | 119.8 | 66.6 | 50.6 |
| 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)