

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: P285825

Luminaire Tested: **USSL-XL-C047-D-U-T4-BZ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C047-D-U-T4-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25624 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 176
Input Voltage (V): NR
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: 28.75 FT

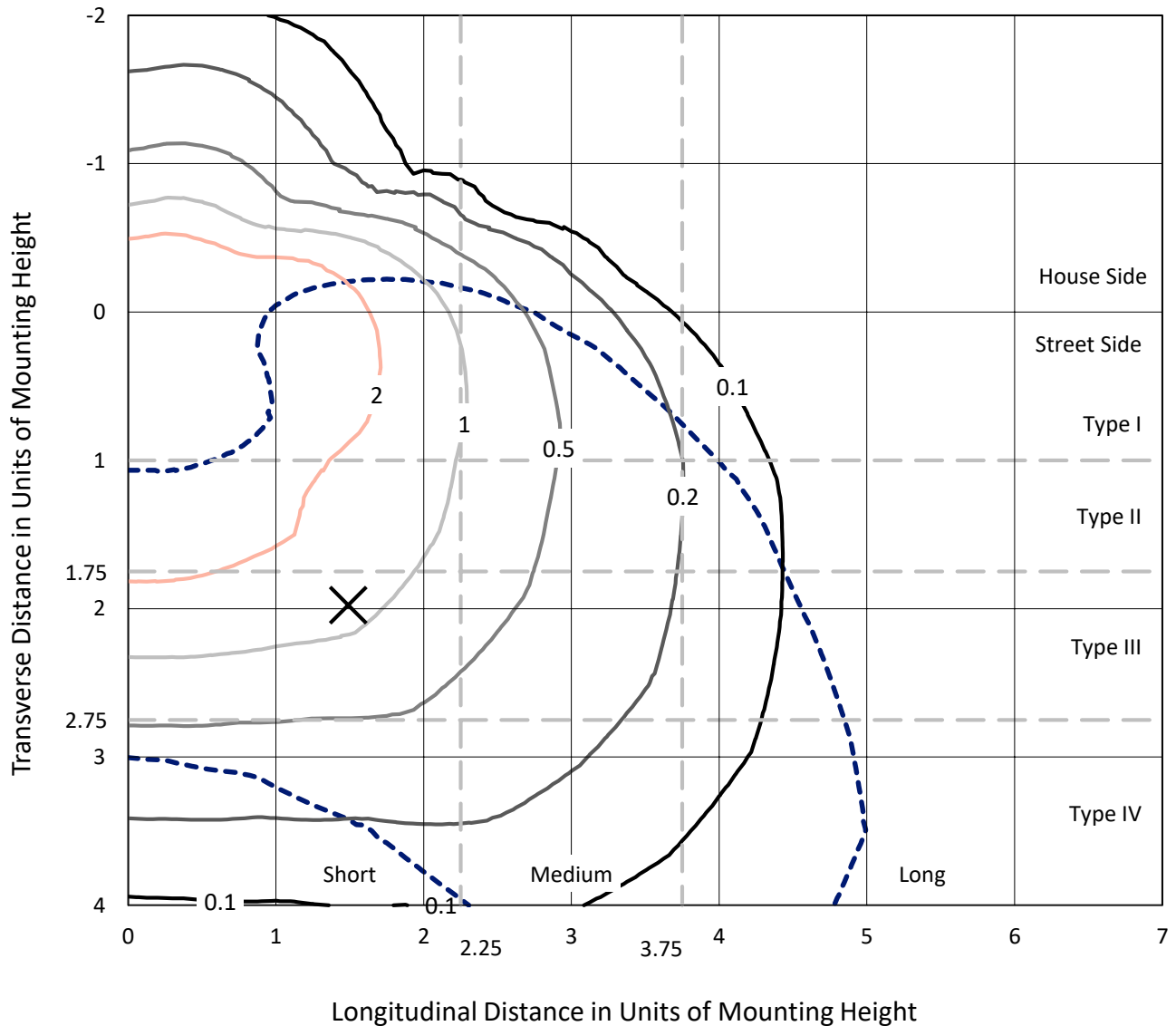


REPORT NUMBER: P285825

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

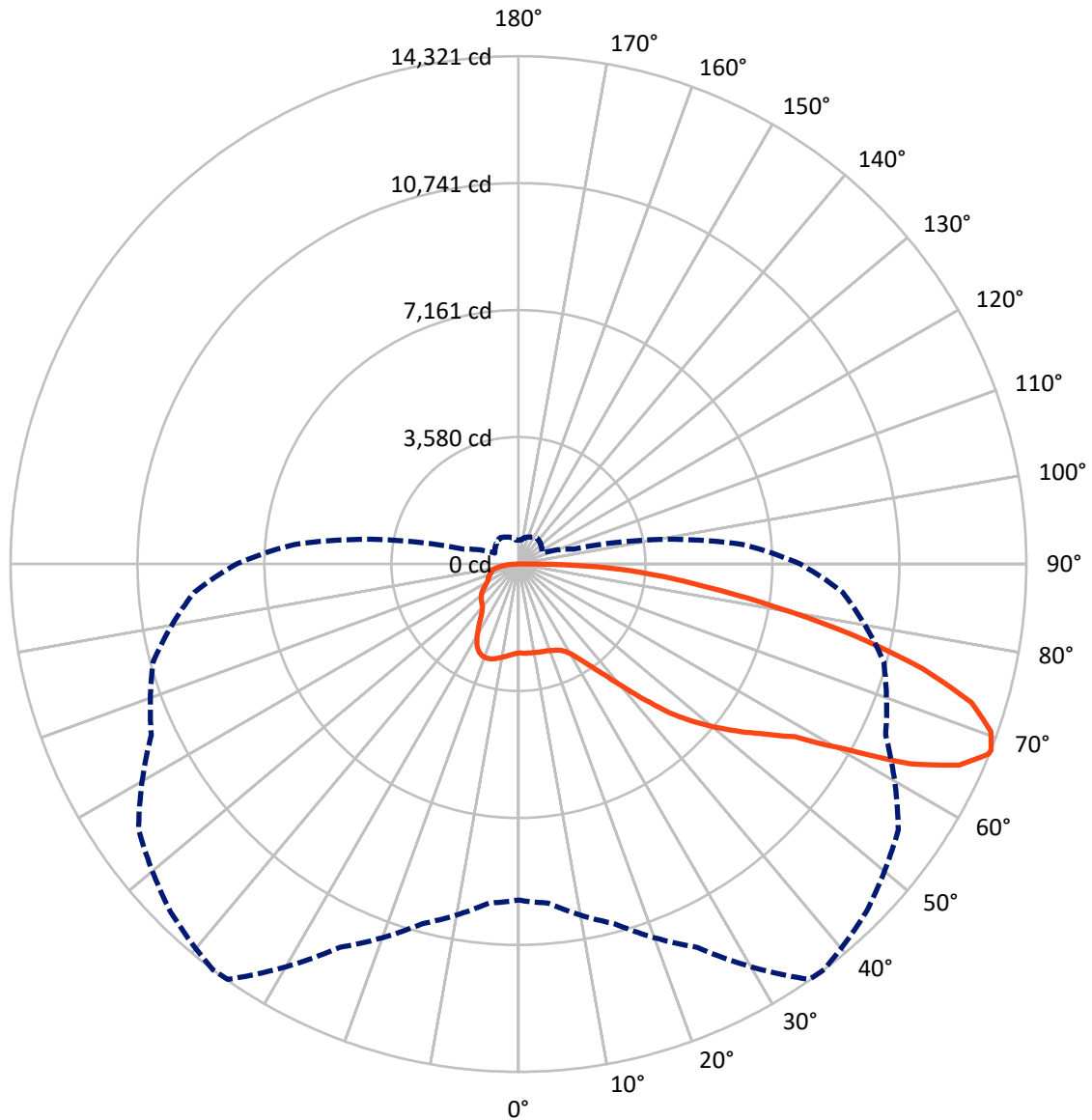


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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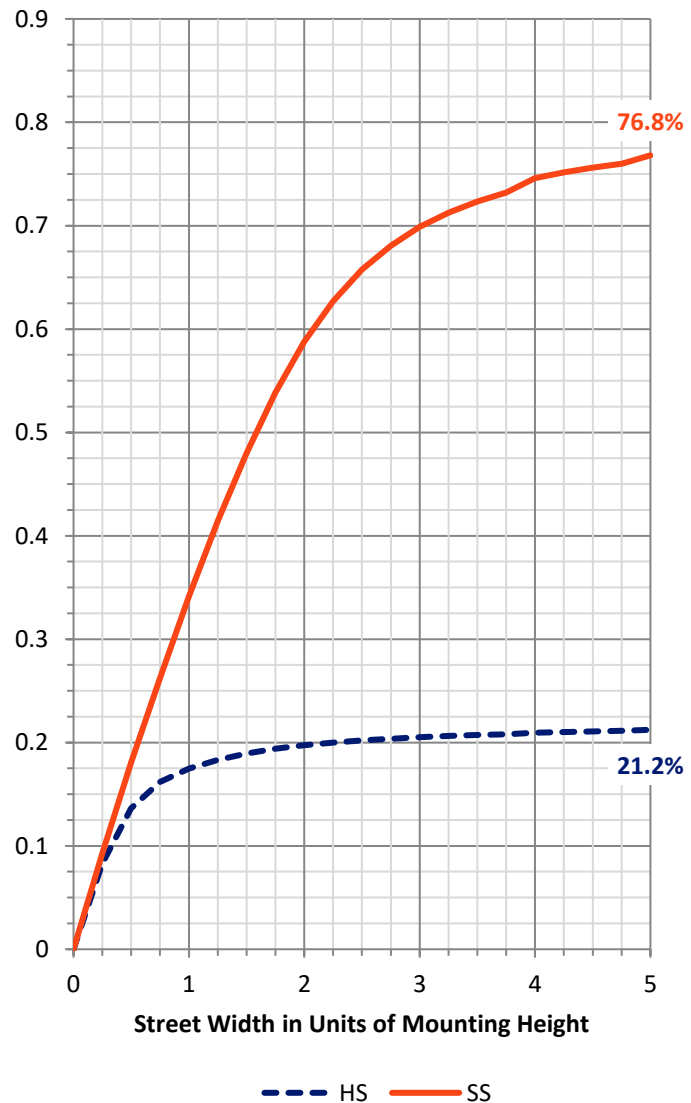
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5533.0 | 0.0 | 5533.0 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 20091.0 | 0.0 | 20091.0 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 25624.0 | 0.0 | 25624.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 243.3 | 0.9 |
| 10°-20° | 756.3 | 3.0 |
| 20°-30° | 1291.8 | 5.0 |
| 30°-40° | 2058.1 | 8.0 |
| 40°-50° | 3569.5 | 13.9 |
| 50°-60° | 5174.2 | 20.2 |
| 60°-70° | 6525.2 | 25.5 |
| 70°-80° | 4835.1 | 18.9 |
| 80°-90° | 1170.3 | 4.6 |
| 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° | 25624.0 | 100.0 |
| 0°-180° | 25624.0 | 100.0 |



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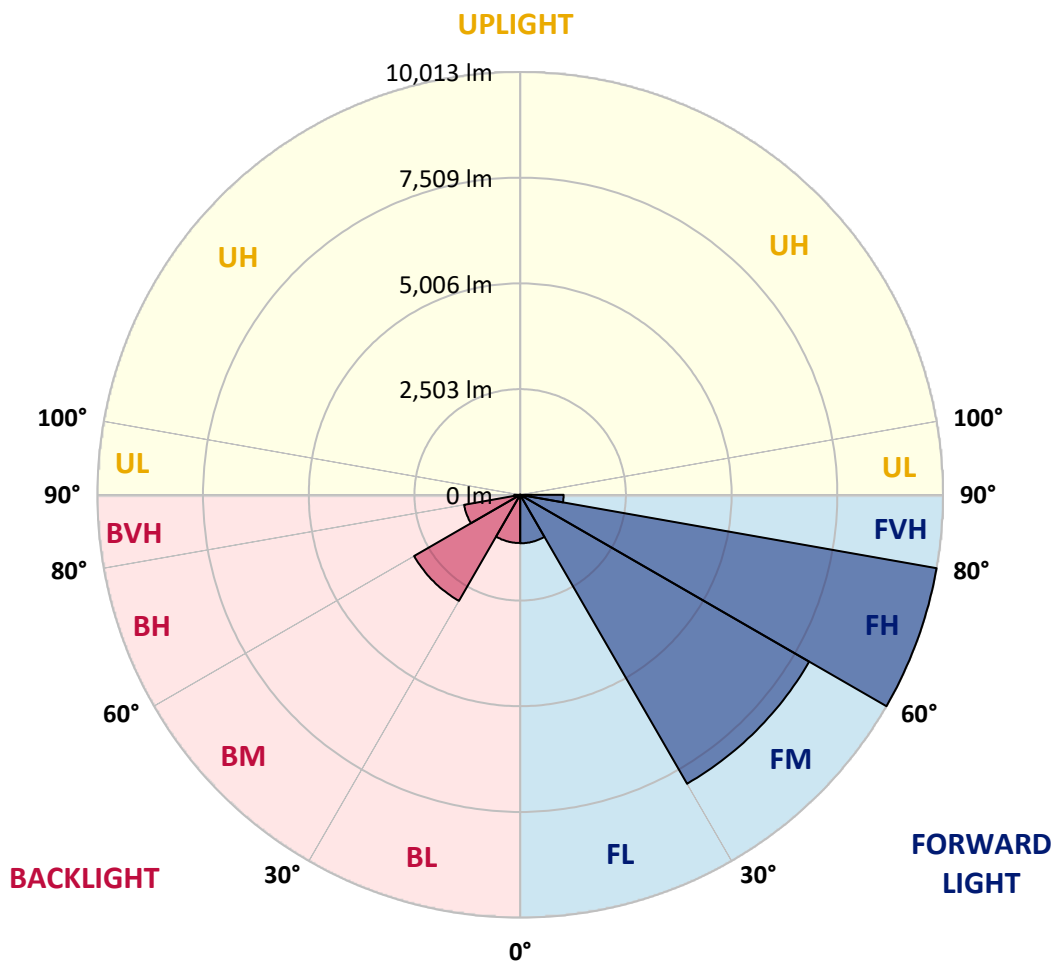
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1148.7 | 4.5 | | | |
| FM | (30°-60°) | 7901.3 | 30.8 | | | |
| FH | (60°-80°) | 10012.5 | 39.1 | | | G4/12000 |
| FVH | (80°-90°) | 1028.5 | 4.0 | | | G5 |
| BL | (0°-30°) | 1142.8 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 2900.5 | 11.3 | B3/5000 | | |
| BH | (60°-80°) | 1347.8 | 5.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 141.9 | 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-G5

Type IV Short





REPORT NUMBER: P285825

CATALOG NUMBER: USSL-XL-C047-D-U-T4-BZ-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 |
| 2.5° | 2504.6 | 2511.5 | 2513.5 | 2509.6 | 2513.5 | 2517.4 | 2508.6 | 2507.6 | 2503.7 | 2488.0 | 2489.9 |
| 5° | 2505.6 | 2514.5 | 2515.4 | 2512.5 | 2519.4 | 2523.3 | 2519.4 | 2515.4 | 2511.5 | 2488.9 | 2493.8 |
| 7.5° | 2505.6 | 2512.5 | 2514.5 | 2512.5 | 2522.3 | 2529.2 | 2529.2 | 2532.1 | 2532.1 | 2506.6 | 2510.5 |
| 10° | 2496.8 | 2502.7 | 2505.6 | 2510.5 | 2527.2 | 2537.0 | 2542.9 | 2556.7 | 2564.5 | 2546.9 | 2547.8 |
| 12.5° | 2456.5 | 2461.4 | 2471.3 | 2499.7 | 2539.0 | 2550.8 | 2567.5 | 2592.0 | 2611.7 | 2611.7 | 2613.6 |
| 15° | 2425.1 | 2430.0 | 2448.7 | 2487.0 | 2546.9 | 2562.6 | 2595.0 | 2636.2 | 2672.5 | 2692.2 | 2707.9 |
| 17.5° | 2433.0 | 2438.9 | 2466.4 | 2498.8 | 2558.6 | 2574.4 | 2620.5 | 2680.4 | 2740.3 | 2782.5 | 2813.9 |
| 20° | 2457.5 | 2461.4 | 2492.9 | 2530.2 | 2594.0 | 2604.8 | 2650.0 | 2723.6 | 2807.1 | 2876.8 | 2927.8 |
| 22.5° | 2527.2 | 2525.3 | 2550.8 | 2565.5 | 2631.3 | 2641.1 | 2693.2 | 2768.8 | 2876.8 | 2981.8 | 3056.4 |
| 25° | 2585.2 | 2594.0 | 2614.6 | 2626.4 | 2680.4 | 2689.2 | 2754.0 | 2837.5 | 2962.2 | 3097.7 | 3217.5 |
| 27.5° | 2649.0 | 2656.8 | 2677.4 | 2704.0 | 2779.6 | 2784.5 | 2829.6 | 2932.7 | 3071.2 | 3237.1 | 3428.5 |
| 30° | 2793.3 | 2792.3 | 2812.9 | 2841.4 | 2943.5 | 2952.4 | 2994.6 | 3100.6 | 3229.2 | 3436.4 | 3667.1 |
| 32.5° | 3042.7 | 3040.7 | 3043.7 | 3082.9 | 3193.9 | 3214.5 | 3268.5 | 3408.9 | 3569.9 | 3770.2 | 4026.5 |
| 35° | 3554.2 | 3533.6 | 3494.3 | 3462.9 | 3525.7 | 3549.3 | 3667.1 | 3840.9 | 4128.6 | 4522.3 | 4839.4 |
| 37.5° | 4399.6 | 4367.2 | 4234.6 | 4055.0 | 3982.3 | 3979.4 | 4061.8 | 4325.9 | 4773.7 | 5563.0 | 5849.7 |
| 40° | 5209.6 | 5210.6 | 5030.9 | 4787.4 | 4560.6 | 4548.8 | 4501.7 | 4828.6 | 5471.7 | 6540.0 | 6674.5 |
| 42.5° | 5977.4 | 5972.5 | 5763.3 | 5540.5 | 5269.5 | 5234.1 | 5096.7 | 5348.0 | 6168.8 | 7344.1 | 7370.6 |
| 45° | 6669.6 | 6653.9 | 6429.0 | 6285.7 | 6053.0 | 5982.3 | 5799.7 | 5879.2 | 6821.8 | 7989.1 | 7895.9 |
| 47.5° | 7338.2 | 7322.5 | 7041.7 | 6903.2 | 6699.0 | 6640.1 | 6446.7 | 6482.0 | 7446.2 | 8526.2 | 8321.0 |
| 50° | 8028.4 | 8023.5 | 7617.0 | 7482.5 | 7265.5 | 7241.0 | 7124.2 | 7149.7 | 8098.1 | 8972.9 | 8716.7 |
| 52.5° | 8846.3 | 8719.6 | 8263.1 | 8005.8 | 7851.7 | 7850.7 | 7720.1 | 7785.9 | 8818.8 | 9371.6 | 8991.6 |
| 55° | 9724.0 | 9564.0 | 9096.7 | 8726.5 | 8461.4 | 8465.3 | 8262.1 | 8368.1 | 9452.1 | 9728.0 | 9254.7 |
| 57.5° | 10350.4 | 10317.1 | 10177.6 | 9807.5 | 9259.6 | 9194.8 | 8882.6 | 8966.1 | 10007.8 | 10097.1 | 9444.2 |
| 60° | 10934.6 | 11077.0 | 11170.3 | 11052.5 | 10776.6 | 10589.0 | 9723.1 | 9598.4 | 10497.7 | 10422.1 | 9543.4 |
| 62.5° | 11302.8 | 11376.5 | 11811.4 | 11973.4 | 12406.4 | 12421.1 | 11385.3 | 10364.2 | 10915.0 | 10626.3 | 9587.6 |
| 65° | 10897.3 | 11006.3 | 11727.0 | 12360.3 | 13595.4 | 13666.1 | 13229.2 | 11641.6 | 11247.8 | 10697.0 | 9504.1 |
| 67.5° | 9766.3 | 9880.2 | 10746.1 | 12045.1 | 14253.2 | 14301.3 | 13847.7 | 12967.0 | 11413.8 | 10682.3 | 9259.6 |
| 68° | 9476.6 | 9598.4 | 10501.6 | 11926.3 | 14298.4 | 14321.0 | 13872.3 | 13077.0 | 11424.6 | 10665.6 | 9180.1 |
| 70° | 8277.8 | 8397.6 | 9312.7 | 11183.0 | 14119.7 | 14134.4 | 13717.1 | 13192.8 | 11368.6 | 10522.3 | 8656.8 |
| 72.5° | 6502.7 | 6623.4 | 7345.1 | 9486.4 | 13222.3 | 13350.9 | 13137.9 | 12862.9 | 11132.0 | 9963.6 | 7422.6 |
| 75° | 4607.7 | 4731.4 | 5482.5 | 7424.6 | 11399.0 | 11756.4 | 12181.6 | 12230.7 | 10246.4 | 8556.6 | 5529.7 |
| 77.5° | 3248.9 | 3350.0 | 4000.0 | 5550.3 | 9199.7 | 9662.2 | 10547.8 | 10620.5 | 8581.2 | 6529.2 | 2917.0 |
| 80° | 2109.0 | 2195.4 | 2777.6 | 4067.7 | 6954.3 | 7353.9 | 8326.9 | 8026.5 | 6098.1 | 3550.3 | 507.6 |
| 82.5° | 1273.4 | 1338.2 | 1769.3 | 2813.9 | 5088.8 | 5354.9 | 5751.6 | 4818.8 | 2829.6 | 501.7 | 177.7 |
| 85° | 730.5 | 774.7 | 1092.8 | 1807.5 | 3585.6 | 3812.4 | 3867.4 | 2419.2 | 532.2 | 138.4 | 100.1 |
| 87.5° | 374.1 | 396.7 | 586.2 | 1110.4 | 2118.8 | 2216.0 | 1940.1 | 866.0 | 106.0 | 61.9 | 50.1 |
| 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° | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 | 2503.7 |
| 2.5° | 2480.1 | 2487.0 | 2491.9 | 2508.6 | 2526.2 | 2535.1 | 2526.2 | 2540.0 | 2544.9 | 2541.0 | 2535.1 |
| 5° | 2486.0 | 2496.8 | 2504.6 | 2538.0 | 2557.7 | 2572.4 | 2562.6 | 2582.2 | 2589.1 | 2581.2 | 2581.2 |
| 7.5° | 2502.7 | 2517.4 | 2530.2 | 2574.4 | 2596.9 | 2616.6 | 2610.7 | 2624.4 | 2630.3 | 2620.5 | 2626.4 |
| 10° | 2546.9 | 2561.6 | 2578.3 | 2633.3 | 2648.0 | 2666.6 | 2655.8 | 2666.6 | 2668.6 | 2661.7 | 2666.6 |
| 12.5° | 2623.4 | 2633.3 | 2665.7 | 2721.6 | 2723.6 | 2728.5 | 2705.9 | 2685.3 | 2676.5 | 2663.7 | 2672.5 |
| 15° | 2721.6 | 2739.3 | 2783.5 | 2830.6 | 2817.9 | 2807.1 | 2751.1 | 2684.3 | 2642.1 | 2610.7 | 2608.7 |
| 17.5° | 2830.6 | 2862.0 | 2917.0 | 2947.5 | 2918.0 | 2868.9 | 2774.7 | 2661.7 | 2559.6 | 2503.7 | 2486.0 |
| 20° | 2942.5 | 2991.6 | 3052.5 | 3058.4 | 3008.3 | 2914.1 | 2770.7 | 2603.8 | 2434.9 | 2330.9 | 2305.3 |
| 22.5° | 3079.0 | 3142.8 | 3197.8 | 3168.4 | 3068.2 | 2929.8 | 2734.4 | 2501.7 | 2270.0 | 2111.9 | 2088.4 |
| 25° | 3259.7 | 3322.5 | 3332.3 | 3245.9 | 3090.8 | 2900.3 | 2650.9 | 2349.5 | 2056.0 | 1859.6 | 1840.9 |
| 27.5° | 3477.6 | 3511.0 | 3447.2 | 3286.2 | 3063.3 | 2812.0 | 2508.6 | 2138.4 | 1817.4 | 1646.5 | 1618.1 |
| 30° | 3719.2 | 3707.4 | 3531.6 | 3287.2 | 2982.8 | 2661.7 | 2292.6 | 1898.9 | 1628.9 | 1481.6 | 1454.1 |
| 32.5° | 4025.5 | 3947.9 | 3617.1 | 3243.0 | 2850.3 | 2459.5 | 2038.3 | 1707.4 | 1499.3 | 1349.0 | 1322.5 |
| 35° | 4634.2 | 4398.6 | 3732.9 | 3173.3 | 2674.5 | 2217.0 | 1815.4 | 1569.0 | 1388.3 | 1215.5 | 1191.0 |
| 37.5° | 5560.1 | 5072.1 | 3942.0 | 3096.7 | 2479.1 | 1968.6 | 1644.6 | 1461.0 | 1300.9 | 1116.3 | 1078.0 |
| 40° | 6372.1 | 5816.4 | 4275.9 | 3025.0 | 2279.8 | 1780.1 | 1546.4 | 1408.9 | 1252.8 | 1066.3 | 1027.0 |
| 42.5° | 6995.5 | 6412.3 | 4657.8 | 2939.6 | 2071.7 | 1640.6 | 1505.1 | 1402.1 | 1246.9 | 1066.3 | 1029.9 |
| 45° | 7499.2 | 6904.2 | 4997.5 | 2846.3 | 1870.4 | 1530.7 | 1467.8 | 1389.3 | 1235.1 | 1060.4 | 1026.0 |
| 47.5° | 7896.9 | 7271.4 | 5265.6 | 2739.3 | 1661.3 | 1456.1 | 1429.5 | 1345.1 | 1204.7 | 1042.7 | 1008.3 |
| 50° | 8241.5 | 7534.6 | 5415.8 | 2613.6 | 1475.7 | 1397.1 | 1375.5 | 1274.4 | 1143.8 | 990.7 | 968.1 |
| 52.5° | 8482.0 | 7748.6 | 5472.7 | 2561.6 | 1343.1 | 1330.4 | 1301.9 | 1202.7 | 1078.0 | 928.8 | 903.3 |
| 55° | 8662.7 | 7858.6 | 5425.6 | 2442.8 | 1210.6 | 1227.3 | 1214.5 | 1147.8 | 1031.9 | 890.5 | 865.0 |
| 57.5° | 8755.0 | 7894.9 | 5291.1 | 1995.1 | 1084.9 | 1104.6 | 1113.4 | 1117.3 | 1025.0 | 901.3 | 877.8 |
| 60° | 8787.4 | 7837.9 | 4997.5 | 1424.6 | 950.4 | 989.7 | 1038.8 | 1053.5 | 994.6 | 860.1 | 840.4 |
| 62.5° | 8738.3 | 7689.7 | 4422.2 | 984.8 | 848.3 | 918.0 | 982.8 | 978.9 | 916.0 | 799.2 | 772.7 |
| 65° | 8546.8 | 7326.4 | 3362.8 | 794.3 | 813.9 | 885.6 | 957.3 | 909.2 | 848.3 | 740.3 | 726.6 |
| 67.5° | 8083.4 | 6561.6 | 1886.1 | 733.4 | 803.1 | 867.0 | 913.1 | 855.2 | 787.4 | 685.3 | 679.4 |
| 68° | 7945.9 | 6336.7 | 1610.2 | 729.5 | 801.2 | 861.1 | 901.3 | 841.4 | 775.6 | 676.5 | 672.6 |
| 70° | 7144.8 | 5178.2 | 726.6 | 716.7 | 789.4 | 839.5 | 868.9 | 803.1 | 732.4 | 646.0 | 640.2 |
| 72.5° | 5520.8 | 3206.7 | 488.0 | 681.4 | 759.9 | 807.1 | 825.7 | 763.9 | 705.0 | 608.7 | 600.9 |
| 75° | 3272.4 | 881.7 | 462.4 | 620.5 | 709.9 | 775.6 | 795.3 | 733.4 | 663.7 | 552.8 | 540.0 |
| 77.5° | 805.1 | 318.1 | 447.7 | 551.8 | 657.8 | 723.6 | 755.0 | 712.8 | 628.4 | 497.8 | 485.0 |
| 80° | 244.5 | 253.3 | 426.1 | 477.2 | 592.0 | 646.0 | 664.7 | 664.7 | 581.2 | 350.5 | 369.2 |
| 82.5° | 161.0 | 203.2 | 363.3 | 358.4 | 470.3 | 535.1 | 499.8 | 501.7 | 456.6 | 156.1 | 182.6 |
| 85° | 101.1 | 165.9 | 245.5 | 234.7 | 299.5 | 327.9 | 355.4 | 365.2 | 321.1 | 45.2 | 2.9 |
| 87.5° | 52.0 | 70.7 | 86.4 | 92.3 | 118.8 | 169.9 | 227.8 | 223.9 | 164.9 | 40.3 | 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)