

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387113

Luminaire Tested: GAW-SA2D-760-U-SL2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-760-U-SL2
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15863 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

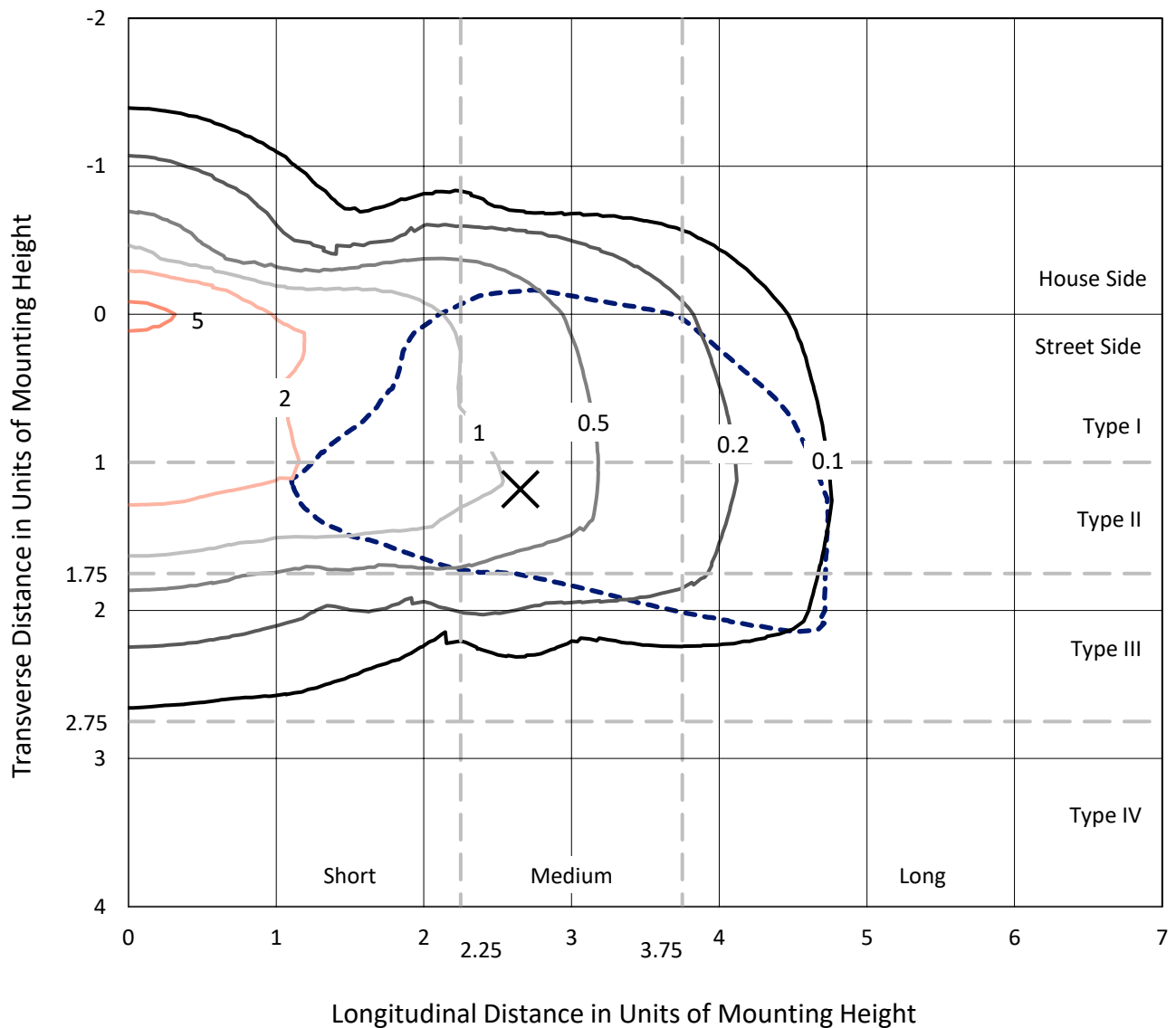
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

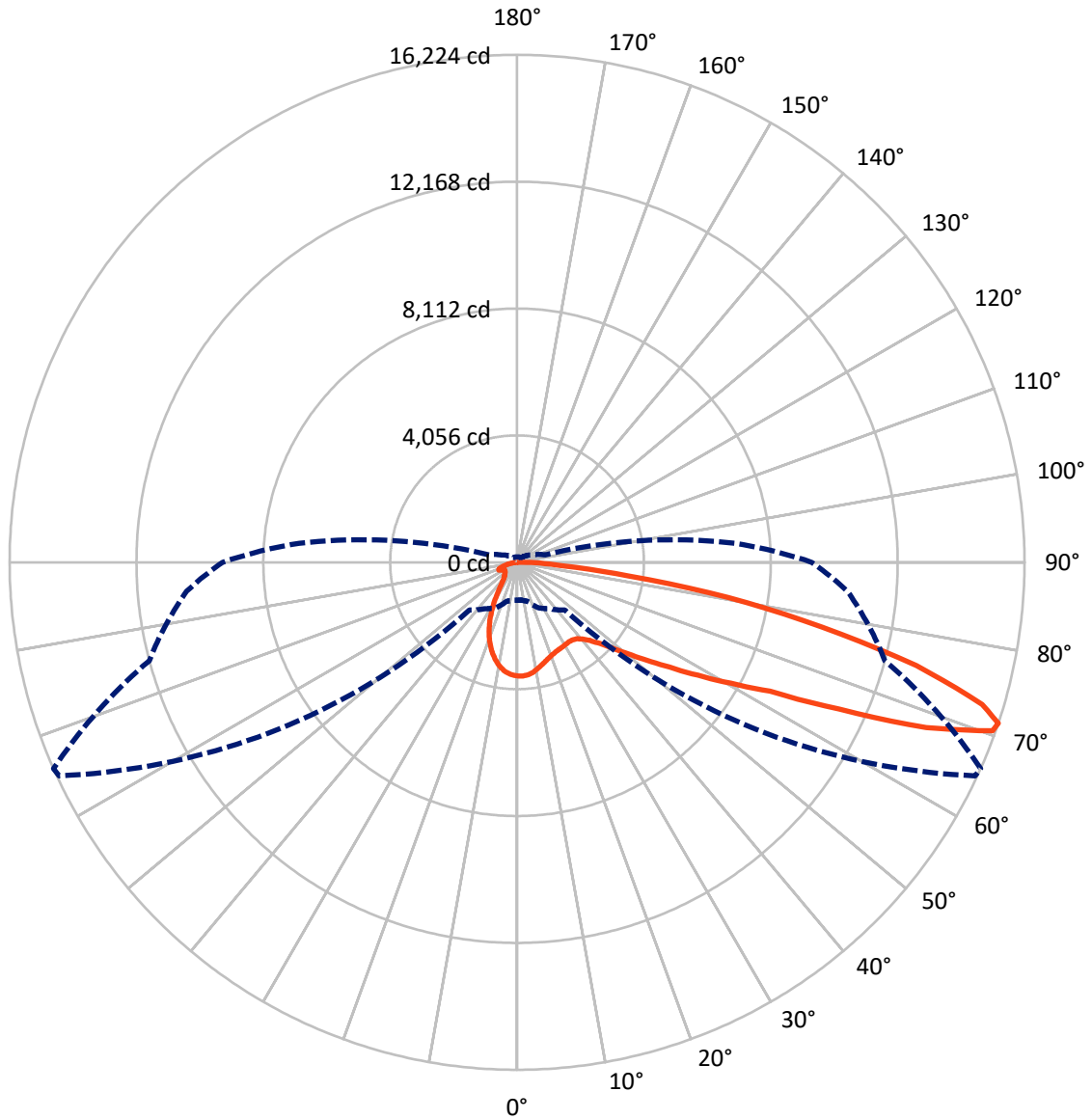
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2939.8 | 0.0 | 2939.8 |
| | % Fixture | 18.5 | 0.0 | 18.5 |
| Street Side | Lumens | 12923.2 | 0.0 | 12923.2 |
| | % Fixture | 81.5 | 0.0 | 81.5 |
| Total | Lumens | 15863.0 | 0.0 | 15863.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 319.9 | 2.0 |
| 10°-20° | 767.2 | 4.8 |
| 20°-30° | 1030.5 | 6.5 |
| 30°-40° | 1355.6 | 8.5 |
| 40°-50° | 1972.1 | 12.4 |
| 50°-60° | 3080.6 | 19.4 |
| 60°-70° | 3859.0 | 24.3 |
| 70°-80° | 2943.5 | 18.6 |
| 80°-90° | 534.5 | 3.4 |
| 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° | 15863.0 | 100.0 |
| 0°-180° | 15863.0 | 100.0 |

Coefficient of Utilization

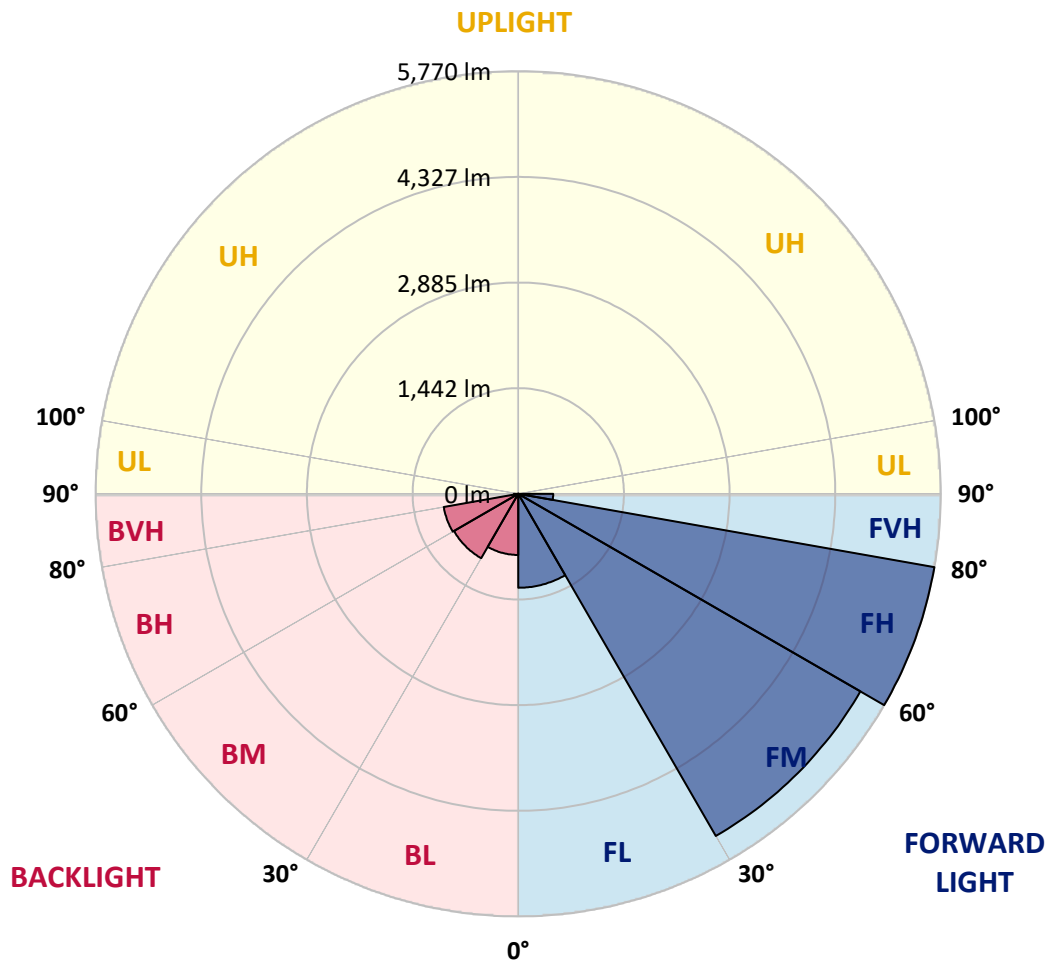


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1282.7 | 8.1 | | | |
| FM (30°-60°) | 5394.2 | 34.0 | | | |
| FH (60°-80°) | 5769.5 | 36.4 | | | G3/7500 |
| FVH (80°-90°) | 476.7 | 3.0 | | | G3/500 |
| BL (0°-30°) | 834.8 | 5.3 | B2/1000 | | |
| BM (30°-60°) | 1014.2 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 1033.0 | 6.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 57.9 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 |
| 2.5° | 3566.5 | 3561.1 | 3577.5 | 3594.5 | 3601.0 | 3612.0 | 3628.4 | 3637.7 | 3637.2 | 3638.8 | 3633.4 |
| 5° | 3329.9 | 3322.8 | 3355.7 | 3382.5 | 3434.0 | 3492.1 | 3562.7 | 3613.1 | 3614.2 | 3642.7 | 3650.3 |
| 7.5° | 3105.9 | 3101.0 | 3138.8 | 3182.1 | 3241.8 | 3330.5 | 3445.0 | 3553.4 | 3560.0 | 3637.2 | 3664.0 |
| 10° | 2926.3 | 2925.2 | 2961.9 | 3009.0 | 3078.6 | 3177.7 | 3309.1 | 3468.0 | 3477.8 | 3610.9 | 3666.2 |
| 12.5° | 2786.1 | 2788.3 | 2820.0 | 2873.7 | 2947.1 | 3050.6 | 3193.0 | 3372.1 | 3388.0 | 3569.3 | 3653.6 |
| 15° | 2682.6 | 2691.3 | 2717.1 | 2771.3 | 2843.6 | 2948.7 | 3095.0 | 3283.4 | 3307.5 | 3522.7 | 3646.5 |
| 17.5° | 2623.4 | 2633.3 | 2651.4 | 2696.3 | 2764.2 | 2865.5 | 3004.1 | 3210.5 | 3232.5 | 3487.1 | 3647.1 |
| 20° | 2605.9 | 2614.1 | 2624.5 | 2651.9 | 2709.4 | 2801.4 | 2932.3 | 3144.8 | 3168.4 | 3458.6 | 3652.5 |
| 22.5° | 2640.4 | 2646.4 | 2647.5 | 2645.3 | 2680.4 | 2755.4 | 2880.3 | 3096.6 | 3121.8 | 3440.0 | 3656.4 |
| 25° | 2714.3 | 2722.6 | 2716.5 | 2696.3 | 2684.8 | 2730.8 | 2853.5 | 3064.9 | 3090.1 | 3426.3 | 3648.7 |
| 27.5° | 2825.5 | 2826.6 | 2821.7 | 2795.4 | 2741.2 | 2733.5 | 2845.2 | 3046.2 | 3070.3 | 3410.4 | 3632.8 |
| 30° | 2976.7 | 2983.8 | 2975.0 | 2939.4 | 2850.7 | 2777.3 | 2855.1 | 3028.2 | 3050.1 | 3390.2 | 3607.1 |
| 32.5° | 3153.6 | 3171.1 | 3170.6 | 3133.3 | 3006.3 | 2875.4 | 2895.6 | 3017.2 | 3034.2 | 3368.8 | 3575.9 |
| 35° | 3337.1 | 3361.2 | 3406.1 | 3390.2 | 3233.0 | 3030.4 | 2973.4 | 3034.7 | 3046.2 | 3366.1 | 3553.9 |
| 37.5° | 3527.7 | 3551.8 | 3644.3 | 3687.0 | 3503.0 | 3252.2 | 3096.1 | 3096.6 | 3102.1 | 3399.5 | 3552.3 |
| 40° | 3727.0 | 3752.8 | 3891.9 | 4003.0 | 3853.0 | 3533.1 | 3293.8 | 3225.9 | 3219.9 | 3481.6 | 3584.6 |
| 42.5° | 4006.3 | 4029.3 | 4196.4 | 4338.2 | 4241.3 | 3893.0 | 3567.1 | 3425.2 | 3412.6 | 3642.7 | 3688.1 |
| 45° | 4359.6 | 4379.3 | 4556.8 | 4708.5 | 4658.6 | 4303.7 | 3910.5 | 3699.6 | 3697.4 | 3911.0 | 3897.9 |
| 47.5° | 4779.7 | 4795.0 | 4954.4 | 5101.2 | 5119.2 | 4776.4 | 4342.1 | 4123.0 | 4087.4 | 4279.1 | 4222.7 |
| 50° | 5217.3 | 5234.2 | 5342.7 | 5500.4 | 5634.6 | 5409.0 | 4897.4 | 4641.7 | 4594.0 | 4764.9 | 4682.7 |
| 52.5° | 5507.0 | 5529.5 | 5623.7 | 5823.6 | 6214.1 | 6102.3 | 5554.1 | 5270.4 | 5198.1 | 5353.6 | 5290.7 |
| 55° | 5377.7 | 5428.1 | 5572.2 | 5892.6 | 6677.4 | 7161.6 | 6364.1 | 6003.7 | 5922.1 | 6051.4 | 6014.2 |
| 57.5° | 4790.1 | 4859.1 | 5055.7 | 5550.3 | 6742.6 | 8094.8 | 7588.8 | 6867.5 | 6809.9 | 6772.7 | 6789.7 |
| 60° | 3716.1 | 3782.3 | 4026.1 | 4670.7 | 6288.5 | 8776.1 | 9431.7 | 7932.2 | 7848.9 | 7496.7 | 7512.1 |
| 62.5° | 2630.0 | 2596.6 | 2763.6 | 3235.2 | 5109.9 | 8856.1 | 11528.8 | 9356.1 | 9082.3 | 8261.3 | 8194.0 |
| 65° | 2005.6 | 1998.0 | 2073.0 | 2223.1 | 3095.0 | 7899.3 | 12778.1 | 11749.5 | 11321.8 | 9160.6 | 9001.8 |
| 67.5° | 1648.0 | 1634.3 | 1708.2 | 1926.8 | 1993.0 | 5096.2 | 12805.5 | 14526.3 | 14106.2 | 10280.1 | 9936.1 |
| 70° | 1355.0 | 1339.6 | 1408.7 | 1690.7 | 1841.9 | 2584.5 | 10777.4 | 16152.4 | 16129.9 | 11697.5 | 10641.6 |
| 71° | 1214.8 | 1203.8 | 1286.5 | 1599.8 | 1809.6 | 2154.1 | 9305.2 | 16156.8 | 16224.1 | 12177.3 | 10599.9 |
| 72.5° | 989.1 | 993.0 | 1080.6 | 1424.0 | 1785.5 | 1902.1 | 6839.0 | 15403.7 | 15546.1 | 12634.6 | 10221.5 |
| 75° | 657.2 | 660.5 | 775.5 | 1095.4 | 1731.2 | 1861.0 | 3758.8 | 12925.4 | 13187.2 | 12360.8 | 9327.1 |
| 77.5° | 441.4 | 440.3 | 518.7 | 751.4 | 1508.3 | 1861.0 | 2203.9 | 9667.2 | 9954.8 | 9835.4 | 7190.6 |
| 80° | 304.0 | 301.8 | 357.1 | 518.7 | 1141.9 | 1883.5 | 1703.9 | 6774.9 | 6862.0 | 5311.5 | 2922.5 |
| 82.5° | 186.2 | 187.9 | 233.3 | 366.4 | 777.2 | 1695.1 | 1608.6 | 3694.2 | 3599.4 | 1489.7 | 730.1 |
| 85° | 106.8 | 106.3 | 149.0 | 248.1 | 498.9 | 1430.6 | 1568.6 | 1589.9 | 1458.5 | 448.6 | 264.0 |
| 87.5° | 38.3 | 41.1 | 80.0 | 137.5 | 285.9 | 996.2 | 1330.9 | 827.0 | 745.4 | 202.6 | 119.4 |
| 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° | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 | 3633.9 |
| 2.5° | 3629.5 | 3632.8 | 3629.0 | 3607.1 | 3588.4 | 3558.3 | 3541.3 | 3517.8 | 3510.7 | 3507.4 | 3516.2 |
| 5° | 3643.2 | 3644.3 | 3612.0 | 3554.5 | 3489.9 | 3413.7 | 3359.0 | 3291.6 | 3259.8 | 3246.1 | 3254.9 |
| 7.5° | 3655.8 | 3650.9 | 3580.2 | 3470.1 | 3350.8 | 3218.2 | 3100.5 | 2992.6 | 2929.6 | 2903.8 | 2906.0 |
| 10° | 3657.5 | 3636.6 | 3523.3 | 3352.9 | 3167.8 | 2973.4 | 2792.7 | 2626.2 | 2521.0 | 2452.5 | 2473.4 |
| 12.5° | 3640.5 | 3605.4 | 3439.5 | 3201.2 | 2944.4 | 2679.3 | 2435.0 | 2185.3 | 2035.2 | 1965.7 | 1967.8 |
| 15° | 3627.3 | 3563.8 | 3336.5 | 3022.7 | 2677.6 | 2326.6 | 1993.0 | 1699.5 | 1539.5 | 1468.4 | 1434.9 |
| 17.5° | 3616.4 | 3518.9 | 3217.1 | 2821.7 | 2362.7 | 1917.5 | 1516.5 | 1254.8 | 1167.1 | 1146.3 | 1137.5 |
| 20° | 3601.0 | 3471.2 | 3084.0 | 2588.9 | 2004.0 | 1459.6 | 1107.4 | 978.2 | 978.7 | 1002.8 | 1006.1 |
| 22.5° | 3579.7 | 3417.0 | 2942.2 | 2327.7 | 1619.0 | 1063.1 | 868.1 | 830.8 | 868.6 | 914.6 | 922.9 |
| 25° | 3547.9 | 3352.9 | 2784.4 | 2039.0 | 1234.5 | 817.1 | 741.6 | 739.9 | 785.9 | 834.1 | 841.2 |
| 27.5° | 3503.0 | 3269.1 | 2609.2 | 1729.0 | 909.7 | 694.5 | 664.3 | 675.8 | 709.8 | 744.9 | 747.6 |
| 30° | 3442.8 | 3171.7 | 2415.8 | 1402.1 | 713.1 | 618.3 | 615.1 | 625.5 | 646.3 | 670.9 | 673.1 |
| 32.5° | 3376.5 | 3072.5 | 2209.4 | 1085.5 | 610.7 | 577.3 | 580.5 | 585.5 | 595.3 | 605.2 | 607.4 |
| 35° | 3316.2 | 2971.2 | 1998.0 | 824.8 | 561.9 | 550.4 | 548.2 | 547.1 | 548.2 | 544.9 | 545.5 |
| 37.5° | 3277.4 | 2887.4 | 1777.8 | 656.7 | 534.0 | 526.9 | 520.3 | 512.1 | 502.8 | 497.3 | 498.4 |
| 40° | 3263.1 | 2825.0 | 1554.9 | 567.4 | 511.0 | 506.1 | 493.5 | 475.9 | 465.0 | 461.7 | 461.7 |
| 42.5° | 3301.5 | 2792.7 | 1339.6 | 522.5 | 491.8 | 483.6 | 462.8 | 442.5 | 434.3 | 433.8 | 433.2 |
| 45° | 3418.7 | 2805.8 | 1134.8 | 497.8 | 474.3 | 458.4 | 431.0 | 414.1 | 408.6 | 409.7 | 409.1 |
| 47.5° | 3629.0 | 2888.5 | 959.5 | 481.4 | 456.8 | 436.0 | 405.3 | 391.6 | 385.0 | 385.0 | 385.6 |
| 50° | 3986.6 | 3081.8 | 819.9 | 467.7 | 442.0 | 415.1 | 386.7 | 369.7 | 360.9 | 360.4 | 360.4 |
| 52.5° | 4507.5 | 3428.0 | 732.8 | 456.2 | 425.6 | 396.5 | 368.0 | 346.7 | 336.3 | 334.1 | 333.0 |
| 55° | 5160.3 | 3924.2 | 708.7 | 448.6 | 403.6 | 376.3 | 345.6 | 324.2 | 312.7 | 307.8 | 307.3 |
| 57.5° | 5890.4 | 4527.7 | 756.4 | 439.2 | 381.2 | 352.2 | 320.9 | 300.7 | 288.6 | 282.6 | 282.1 |
| 60° | 6629.2 | 5186.6 | 950.8 | 426.1 | 362.6 | 325.9 | 295.8 | 277.1 | 265.1 | 258.5 | 257.4 |
| 62.5° | 7369.1 | 5881.1 | 1347.9 | 425.0 | 349.4 | 300.7 | 270.0 | 254.1 | 242.6 | 235.5 | 233.9 |
| 65° | 8203.8 | 6641.3 | 1799.2 | 454.0 | 345.0 | 277.7 | 243.7 | 231.1 | 221.3 | 214.7 | 214.1 |
| 67.5° | 9162.3 | 7499.5 | 1755.9 | 513.7 | 359.8 | 256.9 | 219.1 | 209.2 | 202.1 | 196.6 | 196.1 |
| 70° | 9611.9 | 7365.3 | 1091.5 | 555.9 | 380.6 | 236.6 | 195.5 | 188.4 | 182.9 | 179.1 | 177.5 |
| 71° | 9423.5 | 6993.4 | 915.2 | 551.0 | 378.5 | 227.8 | 186.2 | 180.7 | 175.3 | 172.0 | 170.3 |
| 72.5° | 8909.8 | 6377.8 | 763.5 | 512.6 | 353.8 | 212.0 | 174.2 | 168.7 | 163.8 | 159.9 | 158.8 |
| 75° | 7995.1 | 5695.9 | 611.2 | 409.7 | 282.1 | 179.1 | 152.8 | 146.8 | 142.9 | 140.8 | 138.6 |
| 77.5° | 5877.2 | 4064.9 | 472.7 | 323.7 | 207.6 | 146.2 | 130.3 | 126.0 | 122.1 | 118.8 | 117.2 |
| 80° | 2251.5 | 1574.6 | 318.2 | 241.5 | 152.3 | 115.6 | 105.2 | 103.0 | 99.1 | 96.9 | 96.9 |
| 82.5° | 606.3 | 470.5 | 169.8 | 146.2 | 101.9 | 84.3 | 80.5 | 79.4 | 76.1 | 71.7 | 72.3 |
| 85° | 245.4 | 207.6 | 95.3 | 80.5 | 62.4 | 49.8 | 54.2 | 54.8 | 50.9 | 45.5 | 46.0 |
| 87.5° | 107.9 | 88.2 | 53.1 | 35.6 | 27.4 | 19.2 | 24.6 | 24.6 | 22.5 | 18.6 | 17.0 |
| 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)