

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: P509455

Luminaire Tested: **VERD-G-CA2-100-730-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P509455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-4)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-100-730-U-T3
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 930mA LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14823 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

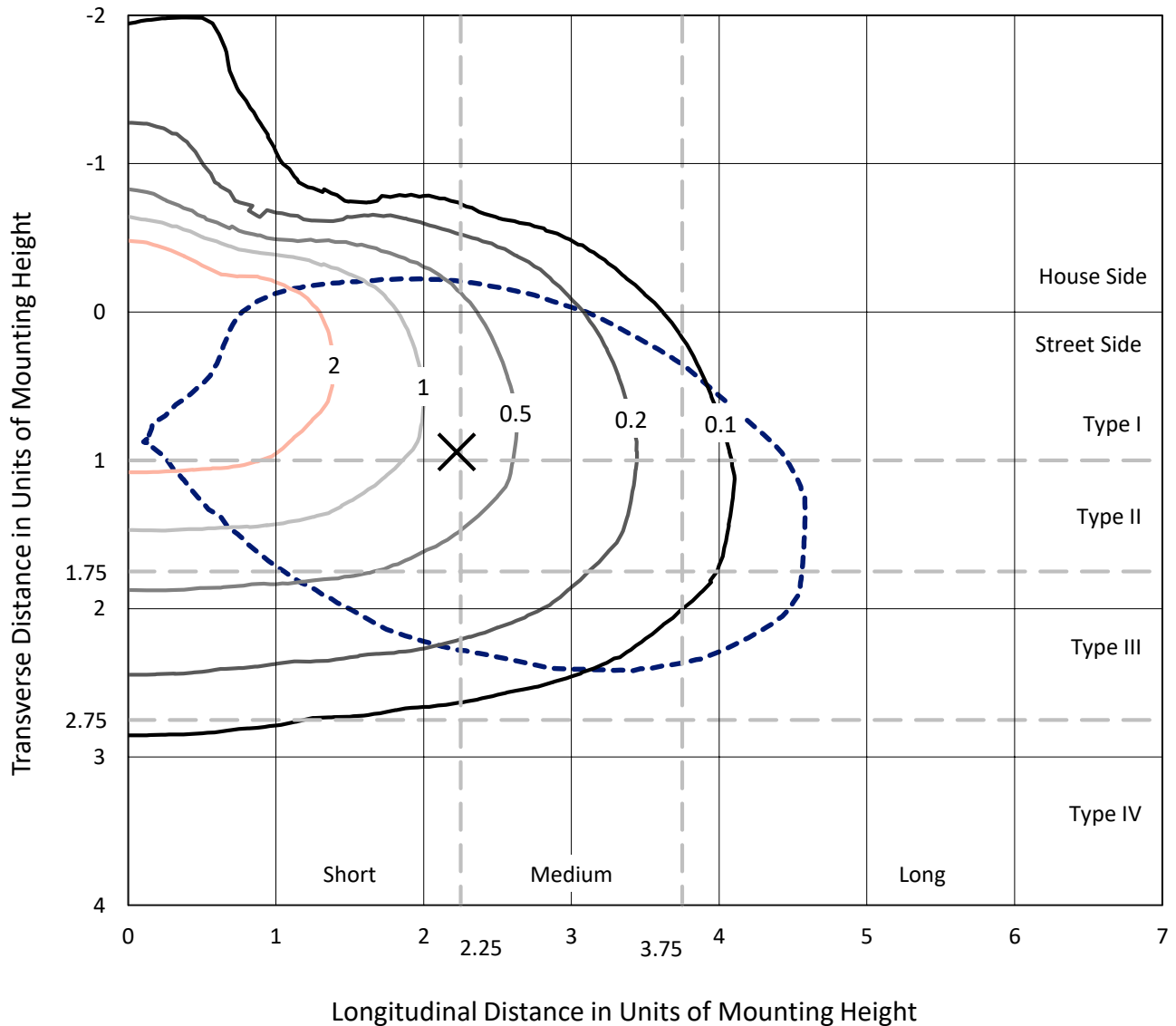
Input Watts (W): 102.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

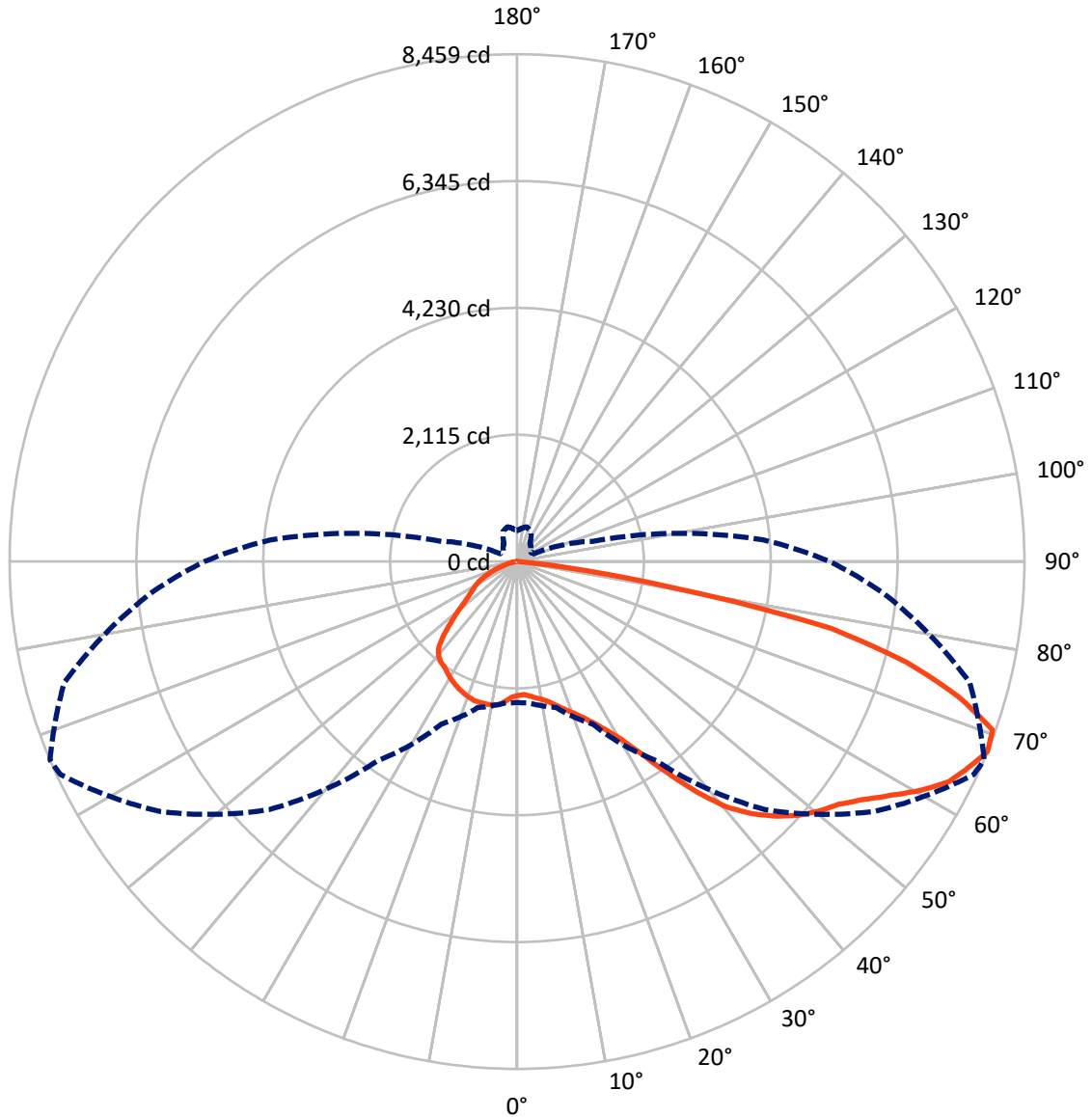
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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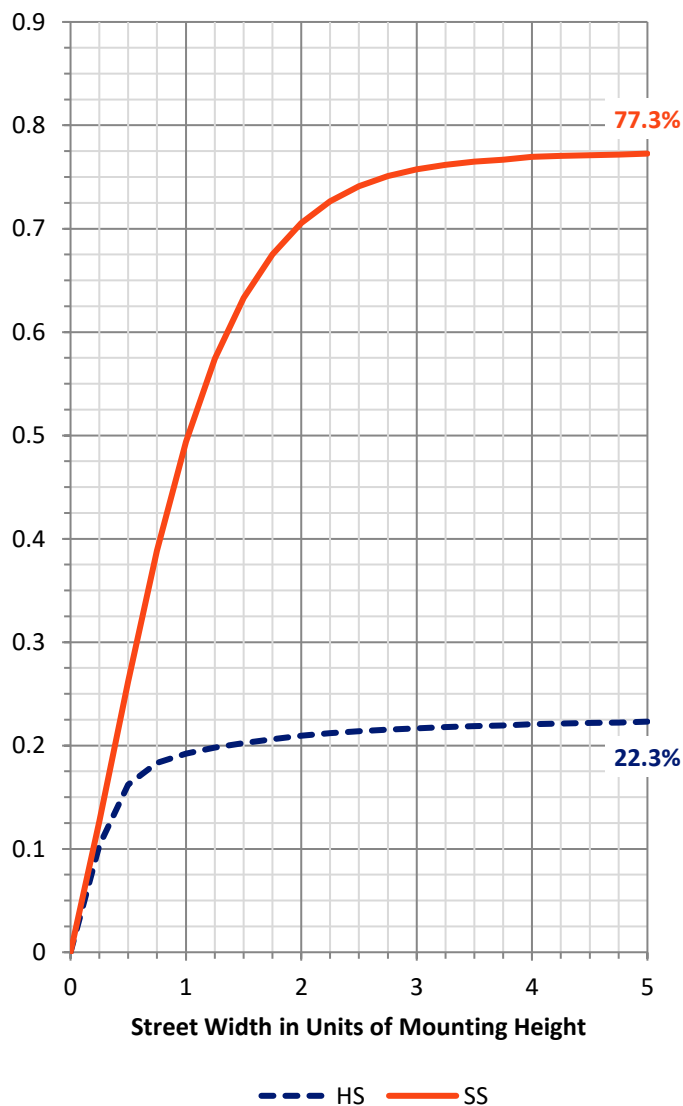
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3363.4 | 0.0 | 3363.4 |
| | % Fixture | 22.7 | 0.0 | 22.7 |
| Street Side | Lumens | 11459.6 | 0.0 | 11459.6 |
| | % Fixture | 77.3 | 0.0 | 77.3 |
| Total | Lumens | 14823.0 | 0.0 | 14823.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 226.4 | 1.5 |
| 10°-20° | 716.5 | 4.8 |
| 20°-30° | 1228.8 | 8.3 |
| 30°-40° | 1828.8 | 12.3 |
| 40°-50° | 2500.3 | 16.9 |
| 50°-60° | 3003.3 | 20.3 |
| 60°-70° | 3186.1 | 21.5 |
| 70°-80° | 1946.4 | 13.1 |
| 80°-90° | 186.4 | 1.3 |
| 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° | 14823.0 | 100.0 |
| 0°-180° | 14823.0 | 100.0 |

Coefficient of Utilization



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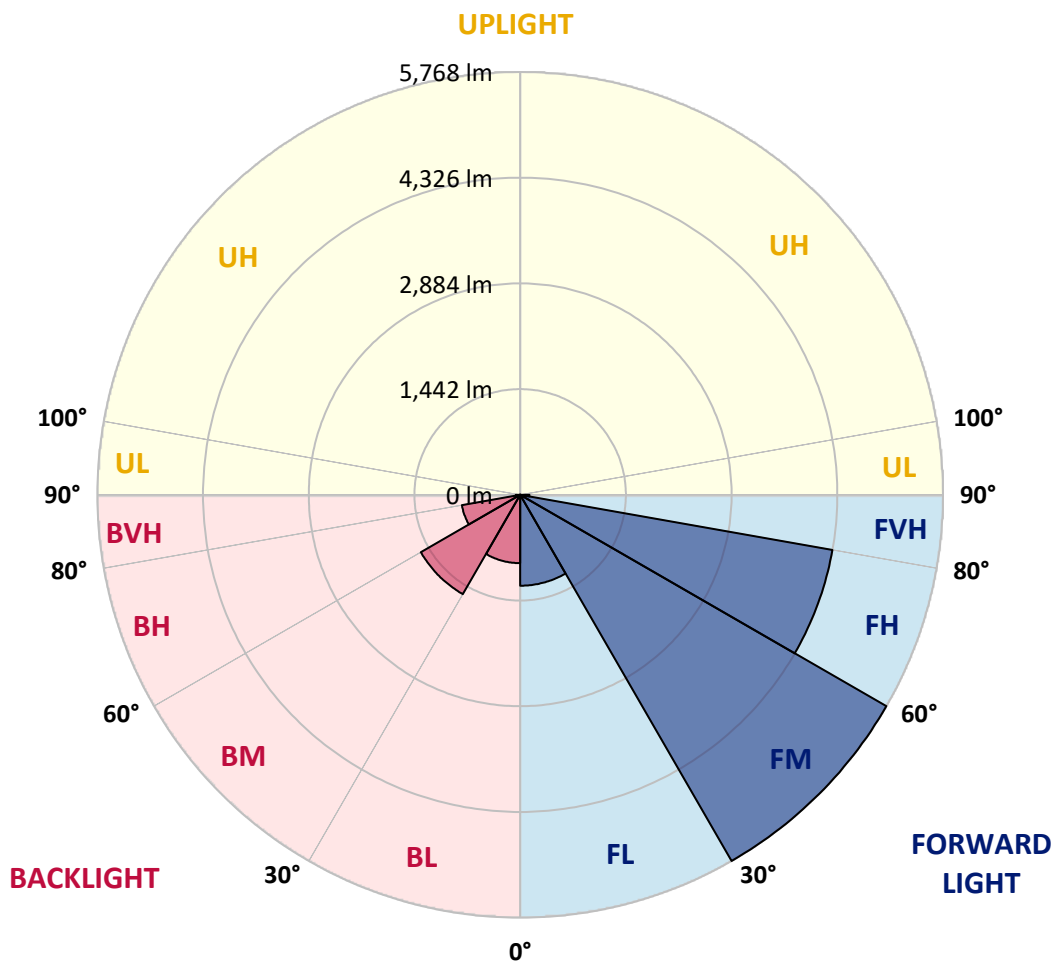
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1239.8 | 8.4 | | | |
| FM (30°-60°) | 5767.9 | 38.9 | | | |
| FH (60°-80°) | 4324.9 | 29.2 | | | G2/5000 |
| FVH (80°-90°) | 126.9 | 0.9 | | | G2/225 |
| BL (0°-30°) | 931.8 | 6.3 | B2/1000 | | |
| BM (30°-60°) | 1564.5 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 807.6 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 59.5 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 |
| 2.5° | 2270.3 | 2281.1 | 2263.4 | 2251.6 | 2238.8 | 2245.7 | 2229.0 | 2229.0 | 2221.2 | 2233.9 | 2226.1 |
| 5° | 2343.9 | 2353.7 | 2323.3 | 2298.7 | 2296.8 | 2276.1 | 2274.2 | 2264.4 | 2252.6 | 2263.4 | 2274.2 |
| 7.5° | 2442.1 | 2438.2 | 2416.6 | 2388.1 | 2359.6 | 2347.8 | 2328.2 | 2313.5 | 2295.8 | 2305.6 | 2308.6 |
| 10° | 2561.9 | 2555.0 | 2526.5 | 2481.4 | 2458.8 | 2426.4 | 2377.3 | 2349.8 | 2337.0 | 2346.8 | 2349.8 |
| 12.5° | 2689.5 | 2680.7 | 2653.2 | 2603.1 | 2563.9 | 2512.8 | 2456.8 | 2412.6 | 2403.8 | 2394.0 | 2410.7 |
| 15° | 2832.9 | 2817.2 | 2793.6 | 2753.4 | 2692.5 | 2625.7 | 2549.1 | 2506.9 | 2494.1 | 2477.4 | 2469.6 |
| 17.5° | 2988.1 | 2986.1 | 2955.7 | 2911.5 | 2849.6 | 2757.3 | 2659.1 | 2593.3 | 2593.3 | 2586.4 | 2544.2 |
| 20° | 3155.0 | 3147.1 | 3116.7 | 3092.1 | 3004.7 | 2907.5 | 2787.7 | 2704.3 | 2695.4 | 2681.7 | 2612.0 |
| 22.5° | 3322.9 | 3323.9 | 3284.6 | 3265.9 | 3201.1 | 3076.4 | 2925.2 | 2841.7 | 2824.1 | 2805.4 | 2684.6 |
| 25° | 3475.1 | 3477.1 | 3465.3 | 3430.9 | 3377.9 | 3263.0 | 3104.9 | 2993.9 | 2984.1 | 2958.6 | 2812.3 |
| 27.5° | 3629.3 | 3653.8 | 3619.4 | 3623.4 | 3599.8 | 3468.2 | 3310.1 | 3175.6 | 3185.4 | 3129.5 | 2929.1 |
| 30° | 3811.9 | 3820.7 | 3804.1 | 3809.0 | 3794.2 | 3707.8 | 3554.6 | 3445.6 | 3445.6 | 3381.8 | 3127.5 |
| 32.5° | 3958.2 | 3950.4 | 3951.3 | 4002.4 | 4009.3 | 3962.1 | 3836.5 | 3801.1 | 3831.5 | 3823.7 | 3594.9 |
| 35° | 4030.9 | 4044.6 | 4082.9 | 4199.8 | 4256.7 | 4228.3 | 4213.5 | 4260.7 | 4337.2 | 4386.3 | 4105.5 |
| 37.5° | 4124.2 | 4166.4 | 4214.5 | 4345.1 | 4450.2 | 4528.7 | 4609.2 | 4764.4 | 4874.4 | 4938.2 | 4590.6 |
| 40° | 4220.4 | 4224.3 | 4320.6 | 4482.6 | 4687.8 | 4812.5 | 5004.0 | 5271.1 | 5379.1 | 5331.0 | 4859.6 |
| 42.5° | 4145.8 | 4155.6 | 4289.1 | 4577.8 | 4835.1 | 5154.2 | 5361.4 | 5669.7 | 5744.4 | 5598.1 | 5137.5 |
| 45° | 4049.5 | 4068.2 | 4237.1 | 4577.8 | 4997.1 | 5467.5 | 5704.1 | 6047.8 | 6056.6 | 5859.3 | 5305.4 |
| 47.5° | 3964.1 | 3979.8 | 4157.6 | 4542.5 | 5149.3 | 5742.4 | 5980.0 | 6259.9 | 6319.8 | 6072.3 | 5528.3 |
| 50° | 3850.2 | 3889.5 | 4064.3 | 4511.1 | 5220.0 | 5933.9 | 6224.5 | 6515.2 | 6535.8 | 6273.6 | 5695.3 |
| 52.5° | 3726.5 | 3760.8 | 3975.9 | 4452.1 | 5310.4 | 6092.0 | 6386.6 | 6760.7 | 6722.4 | 6542.7 | 5882.8 |
| 55° | 3559.5 | 3590.0 | 3838.4 | 4357.9 | 5321.2 | 6177.4 | 6503.4 | 6988.5 | 7003.2 | 6766.6 | 6064.5 |
| 57.5° | 3368.1 | 3419.1 | 3645.0 | 4183.1 | 5222.0 | 6202.9 | 6704.7 | 7296.8 | 7353.8 | 7043.5 | 6209.8 |
| 60° | 3160.9 | 3201.1 | 3457.4 | 3997.5 | 5090.4 | 6299.2 | 6980.6 | 7696.5 | 7741.6 | 7285.0 | 6268.7 |
| 62.5° | 2948.8 | 2982.2 | 3194.3 | 3718.6 | 4848.8 | 6317.8 | 7221.2 | 8098.1 | 8083.4 | 7500.1 | 6350.2 |
| 65° | 2684.6 | 2687.6 | 2887.9 | 3381.8 | 4513.0 | 6184.3 | 7344.9 | 8261.1 | 8275.8 | 7695.5 | 6256.9 |
| 67.5° | 2348.8 | 2367.5 | 2519.7 | 2989.0 | 4055.4 | 5848.5 | 7266.4 | 8401.5 | 8459.4 | 7816.3 | 6138.1 |
| 70° | 1870.6 | 1881.4 | 2040.5 | 2477.4 | 3447.6 | 5329.0 | 7117.1 | 8423.1 | 8410.3 | 7660.1 | 5811.1 |
| 72.5° | 1330.5 | 1371.8 | 1478.8 | 1742.0 | 2645.4 | 4361.8 | 6442.5 | 7756.4 | 7697.5 | 7057.2 | 5183.7 |
| 75° | 855.3 | 859.2 | 966.2 | 1138.1 | 1548.5 | 3092.1 | 5370.3 | 6686.1 | 6710.6 | 6121.4 | 4220.4 |
| 77.5° | 282.8 | 319.1 | 354.5 | 480.2 | 642.2 | 1287.3 | 3625.3 | 5270.1 | 5344.7 | 4822.3 | 2880.0 |
| 80° | 124.7 | 124.7 | 211.1 | 272.0 | 346.6 | 551.9 | 1446.4 | 2385.1 | 2613.9 | 2248.7 | 1109.6 |
| 82.5° | 91.3 | 93.3 | 141.4 | 162.0 | 136.5 | 229.8 | 519.4 | 764.0 | 810.1 | 727.6 | 440.9 |
| 85° | 52.0 | 54.0 | 60.9 | 69.7 | 57.9 | 93.3 | 114.9 | 117.8 | 118.8 | 103.1 | 80.5 |
| 87.5° | 23.6 | 23.6 | 21.6 | 18.7 | 10.8 | 6.9 | 6.9 | 4.9 | 5.9 | 4.9 | 3.9 |
| 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° | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 | 2234.9 |
| 2.5° | 2223.1 | 2232.9 | 2254.5 | 2258.5 | 2268.3 | 2283.0 | 2301.7 | 2310.5 | 2340.0 | 2353.7 | 2357.6 |
| 5° | 2276.1 | 2281.1 | 2318.4 | 2331.1 | 2375.3 | 2397.9 | 2417.5 | 2431.3 | 2467.6 | 2476.5 | 2492.2 |
| 7.5° | 2316.4 | 2333.1 | 2378.3 | 2406.7 | 2434.2 | 2457.8 | 2455.8 | 2488.2 | 2506.9 | 2521.6 | 2527.5 |
| 10° | 2357.6 | 2366.5 | 2412.6 | 2425.4 | 2446.0 | 2463.7 | 2468.6 | 2477.4 | 2482.4 | 2503.0 | 2509.8 |
| 12.5° | 2421.5 | 2415.6 | 2421.5 | 2432.3 | 2449.0 | 2445.0 | 2455.8 | 2443.1 | 2450.0 | 2476.5 | 2466.6 |
| 15° | 2468.6 | 2454.9 | 2429.3 | 2430.3 | 2419.5 | 2414.6 | 2398.9 | 2388.1 | 2387.1 | 2393.0 | 2402.8 |
| 17.5° | 2521.6 | 2481.4 | 2434.2 | 2421.5 | 2381.2 | 2341.9 | 2314.4 | 2285.0 | 2280.1 | 2286.0 | 2279.1 |
| 20° | 2567.8 | 2513.8 | 2432.3 | 2392.0 | 2313.5 | 2242.8 | 2202.5 | 2158.3 | 2156.3 | 2152.4 | 2144.6 |
| 22.5° | 2623.8 | 2556.0 | 2431.3 | 2349.8 | 2256.5 | 2142.6 | 2059.1 | 2025.8 | 1985.5 | 2001.2 | 1999.2 |
| 25° | 2707.2 | 2622.8 | 2440.1 | 2304.6 | 2153.4 | 2017.9 | 1910.9 | 1837.2 | 1797.0 | 1788.1 | 1792.0 |
| 27.5° | 2810.3 | 2698.4 | 2445.0 | 2247.7 | 2059.1 | 1865.7 | 1695.8 | 1584.9 | 1560.3 | 1527.9 | 1530.9 |
| 30° | 2960.6 | 2801.5 | 2468.6 | 2184.8 | 1920.7 | 1671.3 | 1469.0 | 1324.6 | 1283.4 | 1290.3 | 1292.2 |
| 32.5° | 3315.0 | 3013.6 | 2485.3 | 2112.2 | 1768.5 | 1456.2 | 1192.1 | 1047.7 | 1015.3 | 1027.1 | 1034.0 |
| 35° | 3780.5 | 3420.1 | 2576.6 | 2018.9 | 1595.7 | 1204.8 | 914.2 | 832.7 | 839.6 | 862.1 | 868.0 |
| 37.5° | 4242.0 | 3851.2 | 2777.9 | 1937.4 | 1374.7 | 922.0 | 729.6 | 681.5 | 721.7 | 743.3 | 750.2 |
| 40° | 4525.8 | 4137.9 | 2999.8 | 1811.7 | 1093.9 | 677.5 | 555.8 | 528.3 | 574.4 | 624.5 | 649.1 |
| 42.5° | 4812.5 | 4372.6 | 3144.2 | 1658.5 | 782.6 | 492.9 | 413.4 | 436.0 | 511.6 | 561.7 | 573.5 |
| 45° | 4995.1 | 4493.4 | 3157.9 | 1415.0 | 521.4 | 382.0 | 377.1 | 425.2 | 502.8 | 543.0 | 549.9 |
| 47.5° | 5172.9 | 4655.4 | 3100.0 | 1133.2 | 392.8 | 363.3 | 374.1 | 430.1 | 506.7 | 551.9 | 550.9 |
| 50° | 5349.6 | 4814.5 | 2974.3 | 899.5 | 371.2 | 351.5 | 380.0 | 439.9 | 513.6 | 547.9 | 547.9 |
| 52.5° | 5457.6 | 4893.0 | 2721.9 | 715.8 | 357.4 | 344.7 | 383.0 | 443.8 | 506.7 | 526.3 | 523.4 |
| 55° | 5587.3 | 4911.7 | 2552.1 | 596.0 | 342.7 | 339.8 | 388.8 | 454.6 | 505.7 | 507.7 | 500.8 |
| 57.5° | 5655.0 | 4865.5 | 2413.6 | 506.7 | 329.9 | 341.7 | 395.7 | 457.6 | 534.2 | 557.7 | 561.7 |
| 60° | 5625.6 | 4809.6 | 2256.5 | 450.7 | 318.1 | 338.8 | 393.8 | 480.2 | 622.6 | 671.6 | 662.8 |
| 62.5° | 5597.1 | 4704.5 | 1992.4 | 404.6 | 305.4 | 340.7 | 391.8 | 532.2 | 731.5 | 680.5 | 653.0 |
| 65° | 5494.0 | 4486.5 | 1648.7 | 360.4 | 289.7 | 341.7 | 387.9 | 588.2 | 749.2 | 687.4 | 640.2 |
| 67.5° | 5211.2 | 4123.2 | 1304.0 | 313.2 | 271.0 | 328.0 | 379.0 | 552.8 | 600.0 | 540.1 | 514.5 |
| 70° | 4789.9 | 3596.9 | 894.6 | 271.0 | 248.4 | 311.3 | 373.1 | 523.4 | 563.6 | 521.4 | 489.0 |
| 72.5° | 4110.4 | 2826.0 | 495.9 | 226.8 | 218.0 | 290.7 | 372.2 | 516.5 | 567.6 | 446.8 | 411.4 |
| 75° | 3125.5 | 1874.5 | 322.1 | 177.7 | 178.7 | 259.2 | 354.5 | 492.9 | 549.9 | 420.3 | 372.2 |
| 77.5° | 1841.1 | 789.5 | 224.9 | 126.7 | 139.4 | 201.3 | 315.2 | 472.3 | 520.4 | 411.4 | 372.2 |
| 80° | 625.5 | 347.6 | 146.3 | 85.4 | 85.4 | 128.6 | 224.9 | 385.9 | 463.5 | 400.6 | 396.7 |
| 82.5° | 325.0 | 220.9 | 93.3 | 53.0 | 49.1 | 61.9 | 138.5 | 265.1 | 372.2 | 339.8 | 386.9 |
| 85° | 64.8 | 46.2 | 29.5 | 21.6 | 23.6 | 31.4 | 49.1 | 134.5 | 235.7 | 262.2 | 314.2 |
| 87.5° | 4.9 | 3.9 | 5.9 | 5.9 | 5.9 | 5.9 | 6.9 | 33.4 | 94.3 | 115.9 | 143.4 |
| 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)