

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: P318998

Luminaire Tested: **GAN-SA4B-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20846 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

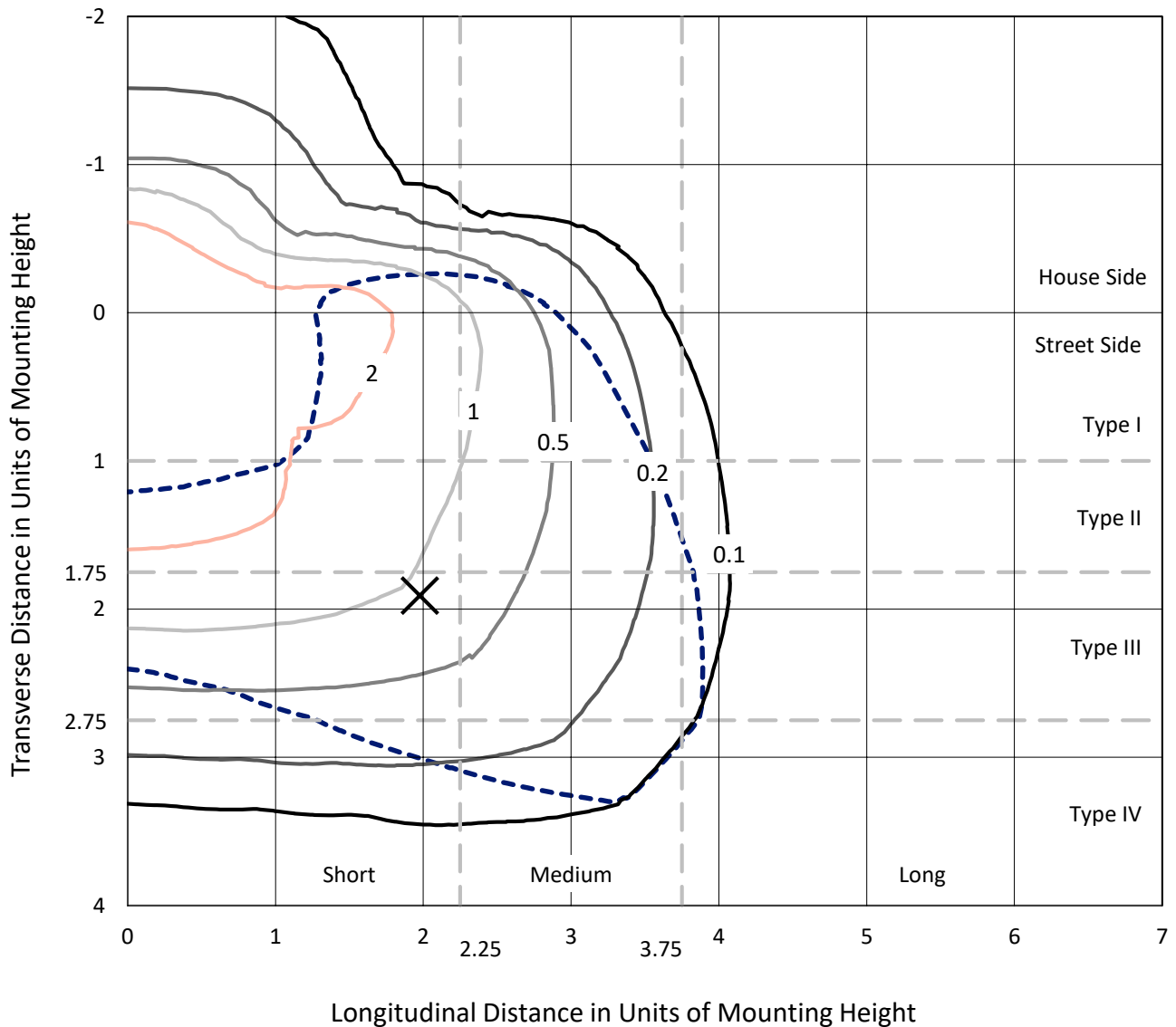
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

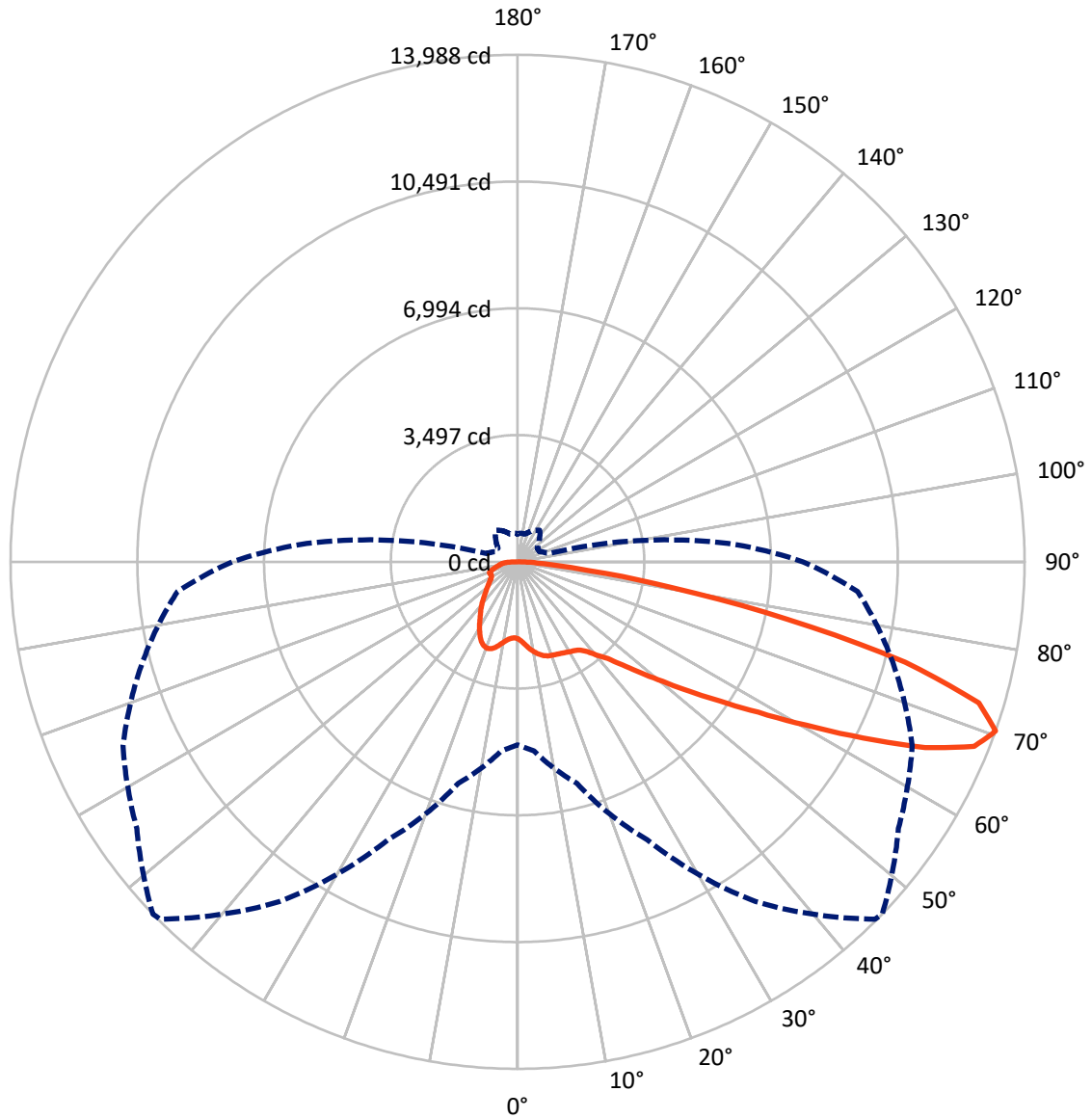
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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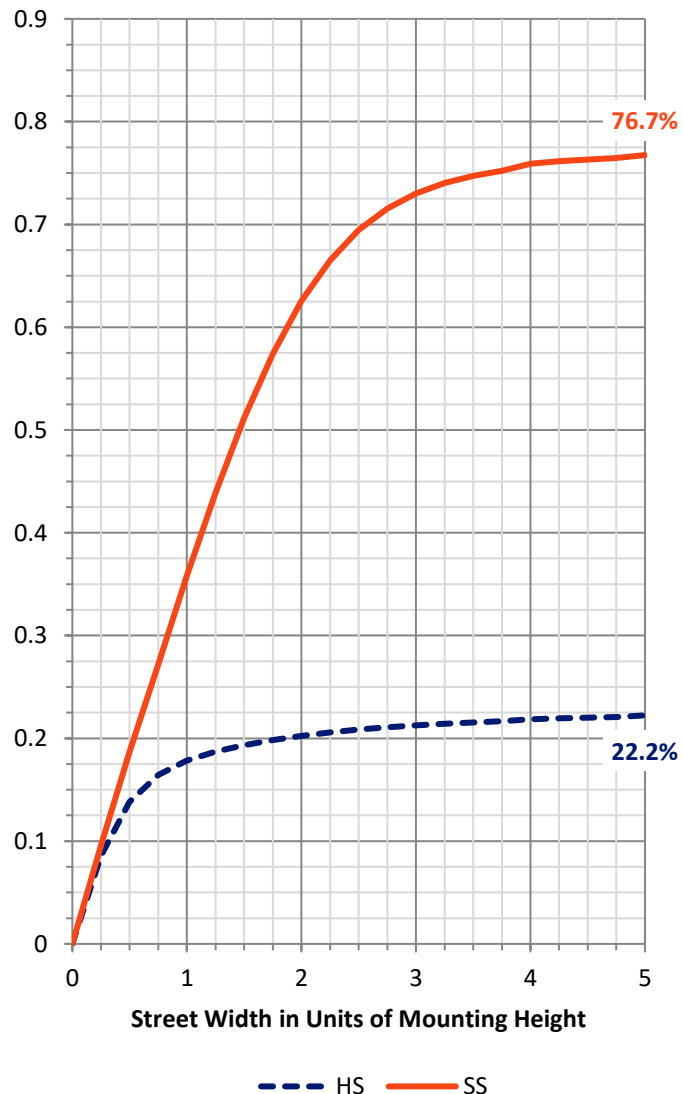
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4777.8 | 0.0 | 4777.8 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 16068.2 | 0.0 | 16068.2 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 20846.0 | 0.0 | 20846.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 216.5 | 1.0 |
| 10°-20° | 721.3 | 3.5 |
| 20°-30° | 1202.7 | 5.8 |
| 30°-40° | 1706.8 | 8.2 |
| 40°-50° | 2510.6 | 12.0 |
| 50°-60° | 4251.6 | 20.4 |
| 60°-70° | 6035.1 | 29.0 |
| 70°-80° | 3666.4 | 17.6 |
| 80°-90° | 535.1 | 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° | 20846.0 | 100.0 |
| 0°-180° | 20846.0 | 100.0 |

Coefficient of Utilization

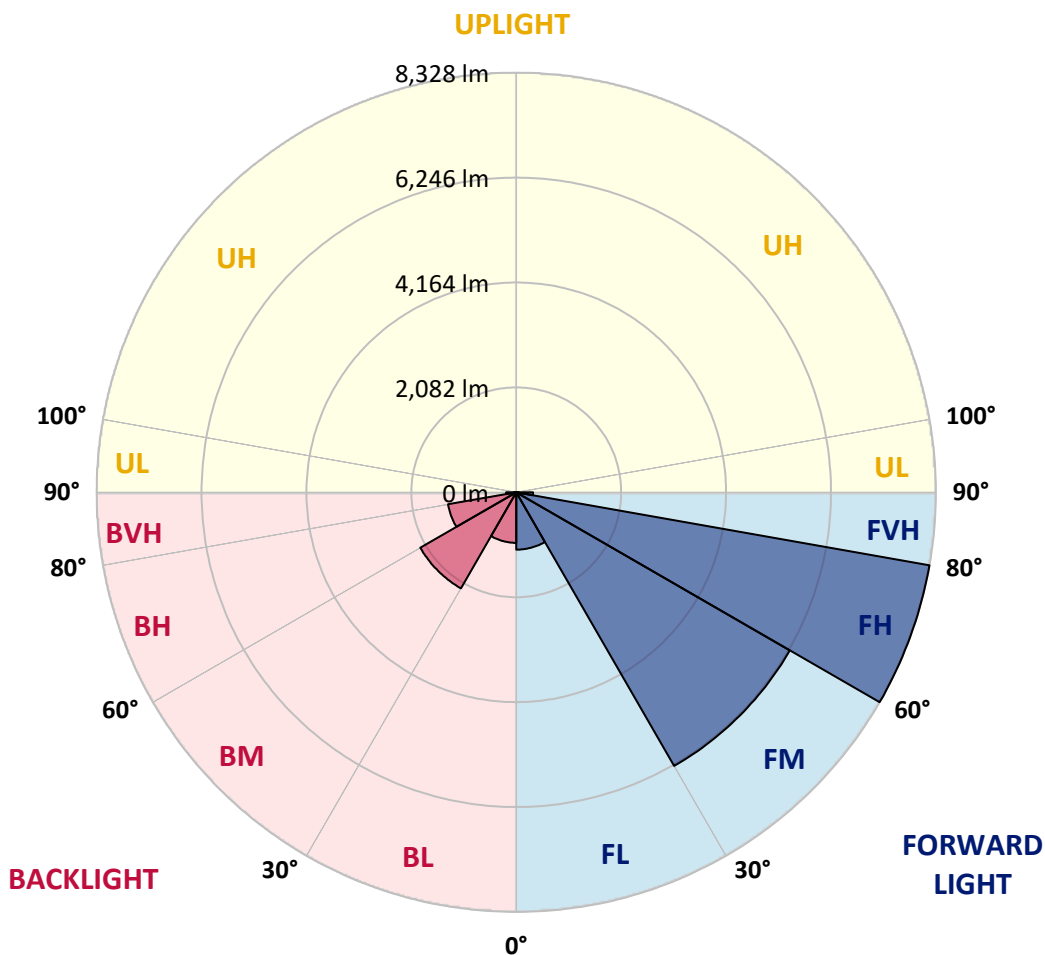


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1137.5 | 5.5 | | | |
| FM (30°-60°) | 6269.6 | 30.1 | | | |
| FH (60°-80°) | 8327.9 | 39.9 | | | G4/12000 |
| FVH (80°-90°) | 333.3 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1003.1 | 4.8 | B3/2500 | | |
| BM (30°-60°) | 2199.4 | 10.6 | B2/2500 | | |
| BH (60°-80°) | 1373.6 | 6.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 201.8 | 1.0 | | | 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° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 |
| 2.5° | 2230.1 | 2231.5 | 2234.4 | 2227.2 | 2207.3 | 2201.6 | 2199.4 | 2178.7 | 2165.2 | 2145.2 | 2128.1 |
| 5° | 2408.4 | 2409.9 | 2405.6 | 2385.6 | 2341.4 | 2308.6 | 2305.7 | 2258.6 | 2215.8 | 2170.2 | 2135.9 |
| 7.5° | 2594.6 | 2596.8 | 2583.2 | 2545.4 | 2483.4 | 2426.3 | 2422.7 | 2358.5 | 2293.6 | 2224.4 | 2173.0 |
| 10° | 2759.4 | 2750.9 | 2728.8 | 2676.0 | 2602.5 | 2532.6 | 2529.7 | 2462.7 | 2387.8 | 2304.3 | 2235.8 |
| 12.5° | 2869.3 | 2862.2 | 2833.6 | 2769.4 | 2688.8 | 2624.6 | 2618.9 | 2556.8 | 2484.1 | 2392.8 | 2310.7 |
| 15° | 2929.9 | 2934.9 | 2896.4 | 2823.6 | 2745.2 | 2691.0 | 2686.0 | 2641.7 | 2576.8 | 2484.8 | 2390.6 |
| 17.5° | 2937.8 | 2942.1 | 2905.0 | 2832.9 | 2768.7 | 2731.6 | 2729.5 | 2700.2 | 2653.1 | 2564.7 | 2466.2 |
| 20° | 2892.1 | 2895.0 | 2864.3 | 2805.1 | 2763.0 | 2751.6 | 2750.9 | 2738.0 | 2703.1 | 2624.6 | 2529.0 |
| 22.5° | 2825.8 | 2827.9 | 2805.8 | 2763.0 | 2748.7 | 2766.6 | 2771.6 | 2766.6 | 2741.6 | 2668.1 | 2578.2 |
| 25° | 2809.4 | 2808.0 | 2785.1 | 2741.6 | 2753.7 | 2791.5 | 2798.0 | 2800.1 | 2783.0 | 2718.8 | 2641.0 |
| 27.5° | 2888.6 | 2883.6 | 2840.1 | 2770.1 | 2778.0 | 2823.6 | 2832.2 | 2852.9 | 2842.2 | 2785.8 | 2712.4 |
| 30° | 3117.6 | 3109.0 | 3019.8 | 2878.6 | 2840.1 | 2863.6 | 2874.3 | 2907.1 | 2909.3 | 2862.2 | 2807.2 |
| 32.5° | 3504.2 | 3493.5 | 3333.7 | 3081.2 | 2944.9 | 2904.3 | 2914.2 | 2963.5 | 2989.9 | 2953.5 | 2894.3 |
| 35° | 3992.9 | 3980.8 | 3771.0 | 3425.8 | 3120.4 | 2982.0 | 2989.2 | 3028.4 | 3081.2 | 3029.8 | 2951.3 |
| 37.5° | 4502.3 | 4473.0 | 4271.1 | 3831.0 | 3399.4 | 3148.2 | 3148.2 | 3153.2 | 3178.2 | 3071.2 | 3018.4 |
| 40° | 5008.8 | 4979.5 | 4796.9 | 4307.5 | 3760.3 | 3410.1 | 3393.7 | 3283.1 | 3263.1 | 3171.1 | 3153.2 |
| 42.5° | 5479.6 | 5471.1 | 5363.4 | 4846.1 | 4184.1 | 3667.6 | 3644.8 | 3457.1 | 3461.4 | 3404.4 | 3405.1 |
| 45° | 5980.5 | 5980.5 | 5892.7 | 5389.8 | 4677.8 | 4081.4 | 4058.5 | 3782.5 | 3825.3 | 3798.9 | 3862.4 |
| 47.5° | 6389.2 | 6402.1 | 6389.9 | 5956.2 | 5252.1 | 4607.2 | 4565.8 | 4233.3 | 4353.2 | 4443.8 | 4628.6 |
| 50° | 6806.6 | 6826.5 | 6828.7 | 6577.6 | 5946.2 | 5232.1 | 5185.0 | 4831.9 | 5099.4 | 5359.1 | 5722.2 |
| 52.5° | 7412.3 | 7457.2 | 7278.1 | 7197.5 | 6796.6 | 5974.0 | 5927.7 | 5601.6 | 6048.2 | 6412.8 | 7038.4 |
| 55° | 7973.7 | 7934.5 | 7806.8 | 7856.7 | 7706.9 | 6818.7 | 6783.7 | 6497.7 | 7105.5 | 7579.2 | 8391.8 |
| 57.5° | 8277.6 | 8274.8 | 8403.2 | 8617.2 | 8688.5 | 7860.3 | 7831.0 | 7552.8 | 8297.6 | 8653.6 | 9662.3 |
| 60° | 8634.3 | 8639.3 | 8957.5 | 9443.3 | 9737.2 | 9157.2 | 9144.4 | 8933.2 | 9455.4 | 9656.6 | 10658.9 |
| 62.5° | 8684.2 | 8774.1 | 9322.0 | 10158.1 | 10718.9 | 10672.5 | 10701.0 | 10176.7 | 10491.3 | 10457.1 | 11403.0 |
| 65° | 8110.0 | 8228.4 | 9220.0 | 10374.3 | 11694.8 | 12329.7 | 12356.1 | 11427.3 | 11308.1 | 11141.2 | 11669.1 |
| 67.5° | 6932.8 | 7108.3 | 8185.6 | 9904.2 | 12016.6 | 13554.6 | 13591.7 | 12396.8 | 11985.9 | 11373.1 | 11028.5 |
| 70° | 5045.2 | 5239.9 | 6324.3 | 8458.8 | 11443.0 | 13946.3 | 13988.4 | 12825.6 | 12011.6 | 10713.2 | 9414.8 |
| 72.5° | 3047.7 | 3200.3 | 4094.2 | 6227.3 | 9658.0 | 13232.9 | 13307.8 | 12281.9 | 10966.4 | 9074.5 | 6952.1 |
| 75° | 1338.3 | 1438.2 | 1979.7 | 3588.4 | 6914.3 | 10948.6 | 11042.0 | 10512.7 | 8910.4 | 6594.7 | 4109.2 |
| 77.5° | 570.0 | 598.5 | 811.9 | 1558.8 | 3908.7 | 7481.5 | 7609.9 | 7681.2 | 6045.4 | 3588.4 | 1736.4 |
| 80° | 355.3 | 366.7 | 459.4 | 705.6 | 1829.2 | 4201.9 | 4340.3 | 4519.4 | 3002.0 | 1319.1 | 606.4 |
| 82.5° | 216.2 | 229.0 | 305.3 | 426.6 | 952.4 | 1904.8 | 1971.1 | 2097.4 | 1165.0 | 570.0 | 313.9 |
| 85° | 129.8 | 139.1 | 186.9 | 269.7 | 542.2 | 749.1 | 748.4 | 827.5 | 548.6 | 366.7 | 165.5 |
| 87.5° | 62.1 | 69.2 | 99.9 | 139.8 | 273.2 | 281.1 | 263.2 | 298.2 | 333.2 | 240.4 | 83.5 |
| 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° | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 | 2123.8 |
| 2.5° | 2122.4 | 2119.5 | 2110.2 | 2103.1 | 2101.7 | 2097.4 | 2093.8 | 2096.0 | 2098.8 | 2099.5 | 2099.5 |
| 5° | 2121.7 | 2113.8 | 2101.7 | 2096.7 | 2103.1 | 2111.7 | 2122.4 | 2136.6 | 2145.2 | 2151.6 | 2155.9 |
| 7.5° | 2155.9 | 2140.9 | 2127.4 | 2124.5 | 2137.4 | 2160.2 | 2184.4 | 2214.4 | 2235.1 | 2249.4 | 2252.2 |
| 10° | 2213.0 | 2194.4 | 2180.9 | 2183.7 | 2206.6 | 2239.4 | 2273.6 | 2312.1 | 2343.5 | 2362.8 | 2364.2 |
| 12.5° | 2278.6 | 2260.8 | 2247.9 | 2260.1 | 2297.9 | 2337.8 | 2373.5 | 2407.0 | 2435.6 | 2454.8 | 2454.8 |
| 15° | 2354.2 | 2341.4 | 2326.4 | 2354.2 | 2405.6 | 2441.3 | 2456.2 | 2472.7 | 2488.3 | 2502.6 | 2499.8 |
| 17.5° | 2427.0 | 2414.9 | 2407.0 | 2439.8 | 2493.3 | 2509.8 | 2499.8 | 2487.6 | 2487.6 | 2495.5 | 2496.9 |
| 20° | 2489.8 | 2479.1 | 2484.1 | 2516.2 | 2544.0 | 2526.9 | 2489.8 | 2451.3 | 2435.6 | 2439.8 | 2444.1 |
| 22.5° | 2544.7 | 2539.7 | 2554.7 | 2569.7 | 2549.7 | 2489.8 | 2421.3 | 2369.2 | 2349.9 | 2348.5 | 2349.9 |
| 25° | 2608.9 | 2608.2 | 2626.7 | 2599.6 | 2511.2 | 2400.6 | 2308.6 | 2257.9 | 2247.2 | 2255.8 | 2270.0 |
| 27.5° | 2688.8 | 2696.7 | 2705.9 | 2606.8 | 2432.7 | 2265.8 | 2172.3 | 2137.4 | 2148.1 | 2168.7 | 2182.3 |
| 30° | 2790.8 | 2812.2 | 2792.3 | 2588.9 | 2320.0 | 2111.7 | 2022.5 | 2012.5 | 2041.8 | 2071.0 | 2085.3 |
| 32.5° | 2890.0 | 2923.5 | 2875.0 | 2542.6 | 2174.5 | 1948.3 | 1879.1 | 1876.2 | 1911.9 | 1940.5 | 1960.4 |
| 35° | 2969.9 | 3036.2 | 2937.1 | 2450.5 | 2006.1 | 1797.8 | 1747.1 | 1727.9 | 1740.7 | 1774.2 | 1797.1 |
| 37.5° | 3074.1 | 3184.6 | 2979.9 | 2310.0 | 1823.5 | 1673.6 | 1614.4 | 1570.2 | 1558.8 | 1572.3 | 1583.8 |
| 40° | 3264.5 | 3410.8 | 2999.9 | 2113.8 | 1645.1 | 1549.5 | 1489.6 | 1424.7 | 1379.7 | 1346.9 | 1347.6 |
| 42.5° | 3575.6 | 3705.4 | 2987.0 | 1875.5 | 1480.3 | 1428.2 | 1360.5 | 1285.6 | 1212.8 | 1138.6 | 1132.9 |
| 45° | 4080.7 | 4143.4 | 2948.5 | 1623.0 | 1335.5 | 1301.2 | 1237.8 | 1162.8 | 1065.8 | 981.6 | 973.8 |
| 47.5° | 4888.9 | 4749.8 | 2888.6 | 1402.5 | 1207.8 | 1193.5 | 1135.0 | 1048.7 | 946.0 | 878.2 | 872.5 |
| 50° | 5991.2 | 5625.2 | 2859.3 | 1227.1 | 1095.1 | 1099.4 | 1051.6 | 960.2 | 863.2 | 813.3 | 807.6 |
| 52.5° | 7309.5 | 6644.6 | 2915.7 | 1091.5 | 1004.5 | 1019.5 | 983.8 | 898.2 | 816.8 | 777.6 | 771.9 |
| 55° | 8677.1 | 7700.5 | 2976.3 | 993.1 | 918.9 | 948.1 | 936.0 | 865.4 | 791.9 | 755.5 | 750.5 |
| 57.5° | 9847.8 | 8488.8 | 2855.0 | 913.2 | 842.5 | 888.2 | 898.9 | 844.7 | 779.0 | 746.2 | 740.5 |
| 60° | 10584.8 | 8806.2 | 2536.9 | 838.2 | 781.9 | 840.4 | 877.5 | 839.0 | 784.0 | 781.2 | 776.9 |
| 62.5° | 10934.3 | 8778.4 | 2059.6 | 779.0 | 744.1 | 819.7 | 893.2 | 871.1 | 841.1 | 866.8 | 868.9 |
| 65° | 10777.4 | 8358.9 | 1533.8 | 739.8 | 717.0 | 827.5 | 940.3 | 931.7 | 857.5 | 883.2 | 886.8 |
| 67.5° | 9744.4 | 7358.0 | 1135.7 | 705.6 | 687.0 | 849.7 | 1025.9 | 951.7 | 825.4 | 844.0 | 832.5 |
| 70° | 7876.0 | 5833.5 | 876.1 | 667.0 | 656.3 | 846.8 | 1064.4 | 939.6 | 790.5 | 794.7 | 764.1 |
| 72.5° | 5431.1 | 3977.9 | 712.7 | 631.4 | 612.1 | 771.9 | 1037.3 | 909.6 | 761.2 | 728.4 | 687.7 |
| 75° | 2953.5 | 2135.2 | 605.7 | 594.3 | 534.3 | 677.7 | 987.3 | 888.2 | 734.8 | 691.3 | 668.5 |
| 77.5° | 1162.1 | 886.0 | 525.8 | 543.6 | 467.3 | 598.5 | 931.7 | 847.5 | 698.4 | 641.3 | 629.9 |
| 80° | 474.4 | 452.3 | 435.9 | 470.1 | 401.6 | 523.6 | 864.6 | 799.7 | 654.9 | 595.0 | 572.1 |
| 82.5° | 269.0 | 281.1 | 338.9 | 371.0 | 326.0 | 482.3 | 832.5 | 761.2 | 602.8 | 532.9 | 505.8 |
| 85° | 137.7 | 164.8 | 236.1 | 266.1 | 239.7 | 410.2 | 766.9 | 666.3 | 483.7 | 408.1 | 410.2 |
| 87.5° | 66.3 | 92.0 | 149.1 | 166.9 | 155.5 | 296.8 | 572.9 | 483.0 | 376.7 | 298.2 | 288.9 |
| 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)