

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: P527396

Luminaire Tested: **GLAN-SA2B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8205 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

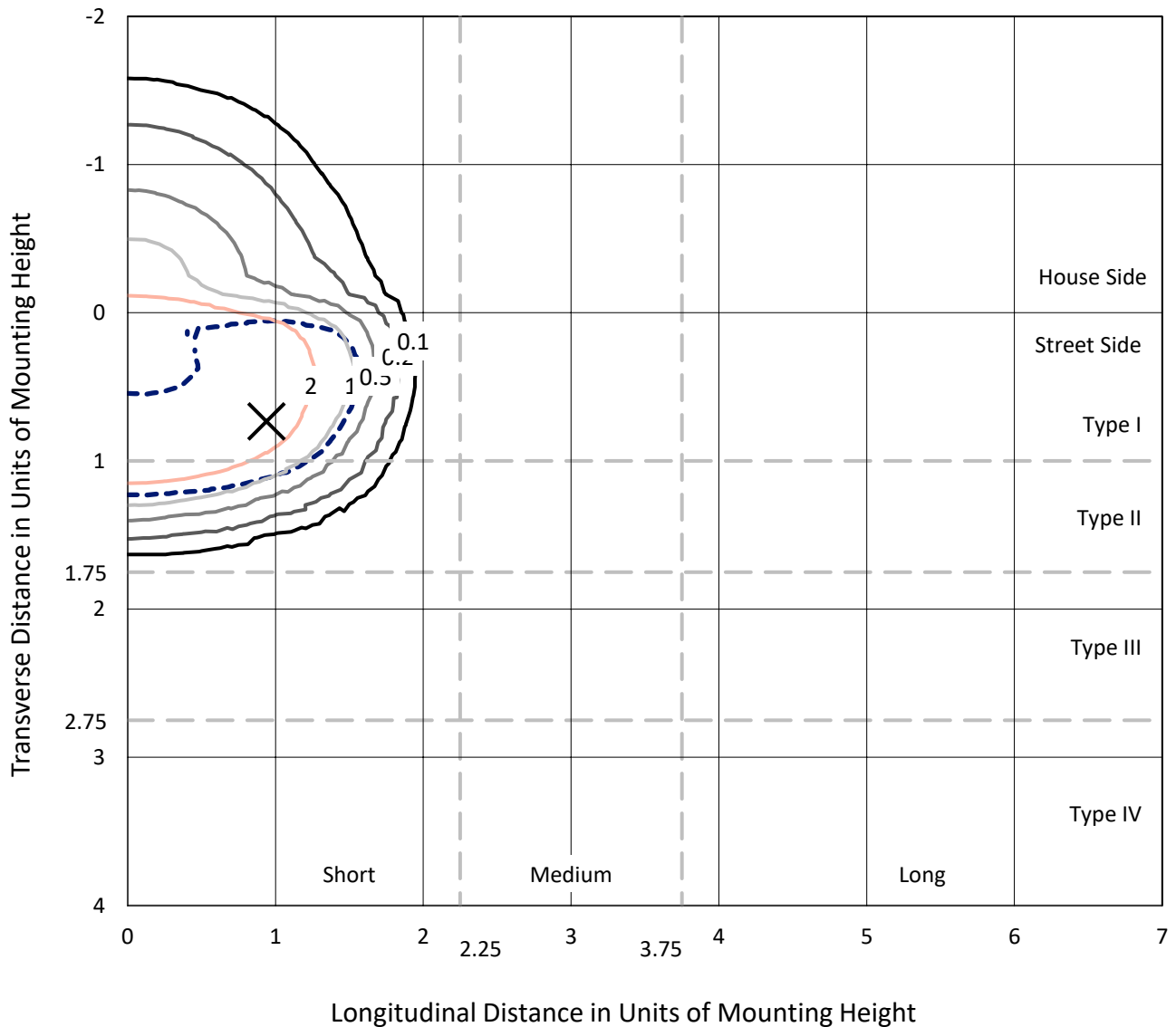
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

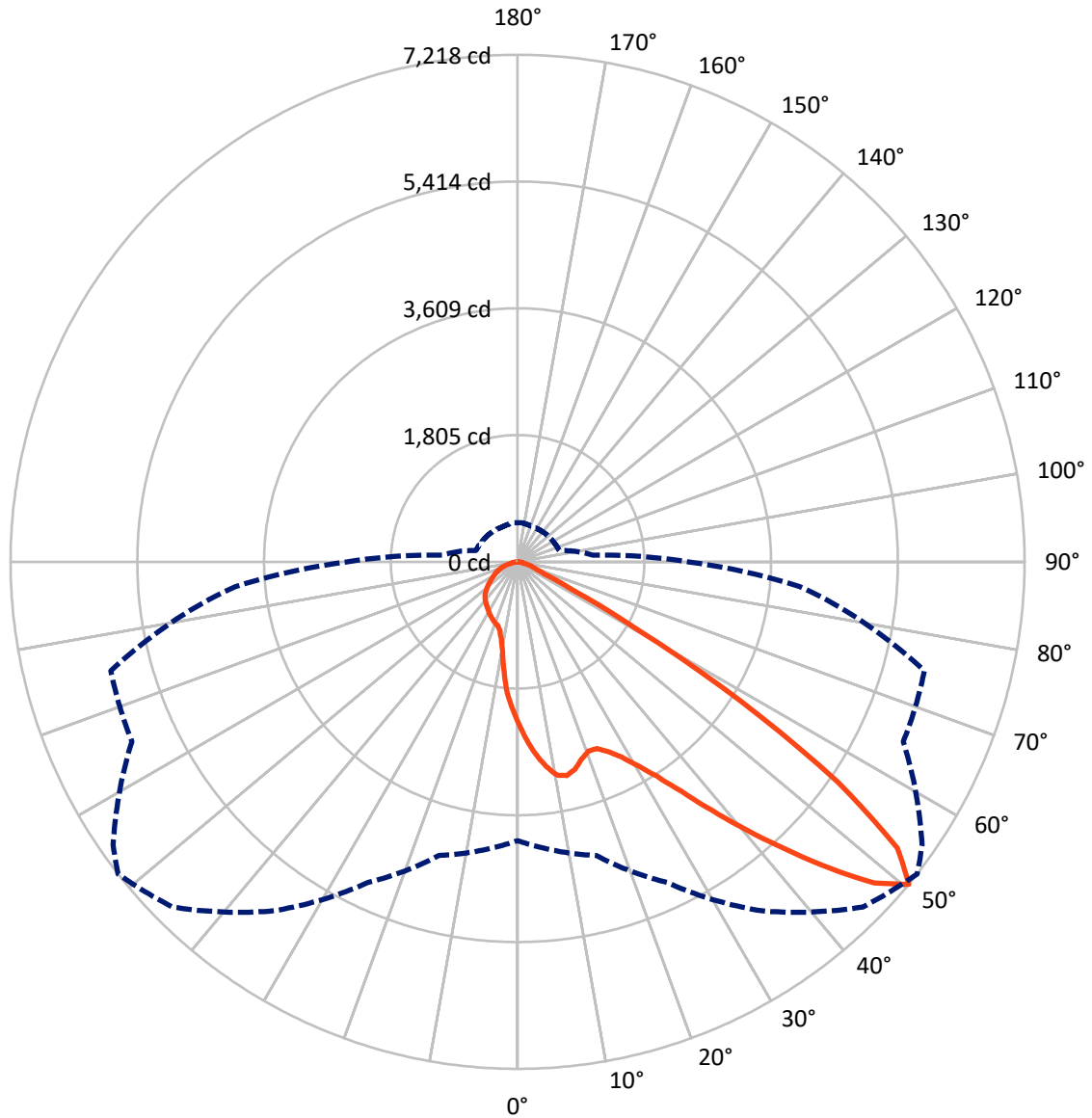
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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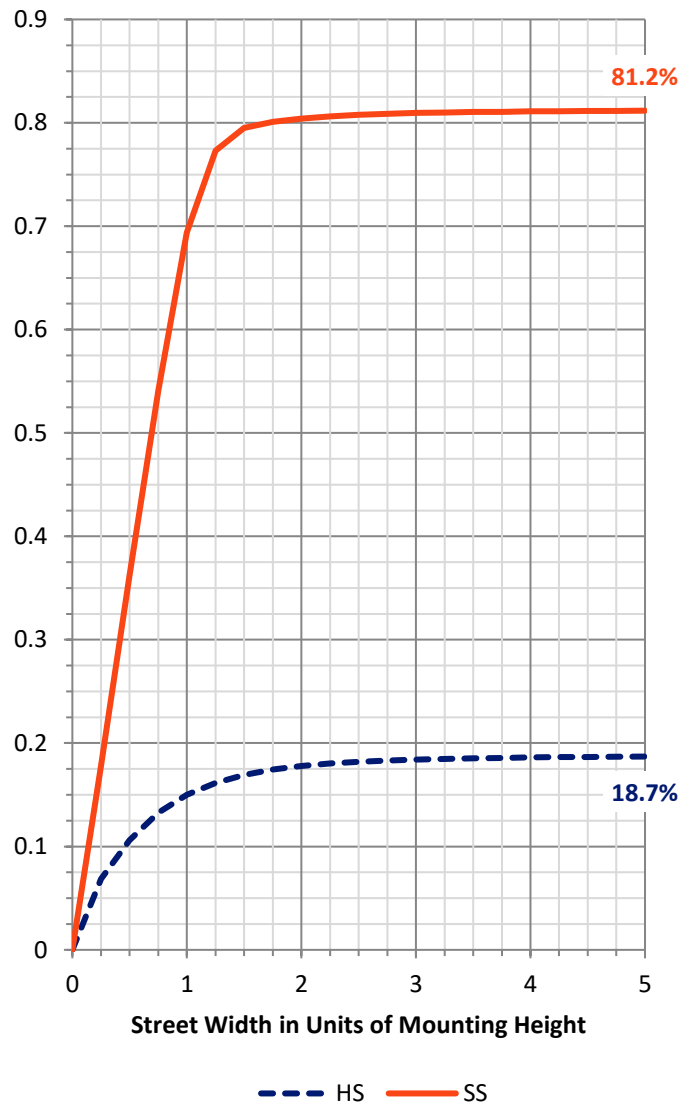
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1542.3 | 0.0 | 1542.3 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 6662.7 | 0.0 | 6662.7 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 8205.0 | 0.0 | 8205.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 213.2 | 2.6 |
| 10°-20° | 571.4 | 7.0 |
| 20°-30° | 962.4 | 11.7 |
| 30°-40° | 1615.0 | 19.7 |
| 40°-50° | 2470.6 | 30.1 |
| 50°-60° | 1801.3 | 22.0 |
| 60°-70° | 400.9 | 4.9 |
| 70°-80° | 144.6 | 1.8 |
| 80°-90° | 25.6 | 0.3 |
| 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° | 8205.0 | 100.0 |
| 0°-180° | 8205.0 | 100.0 |

Coefficient of Utilization

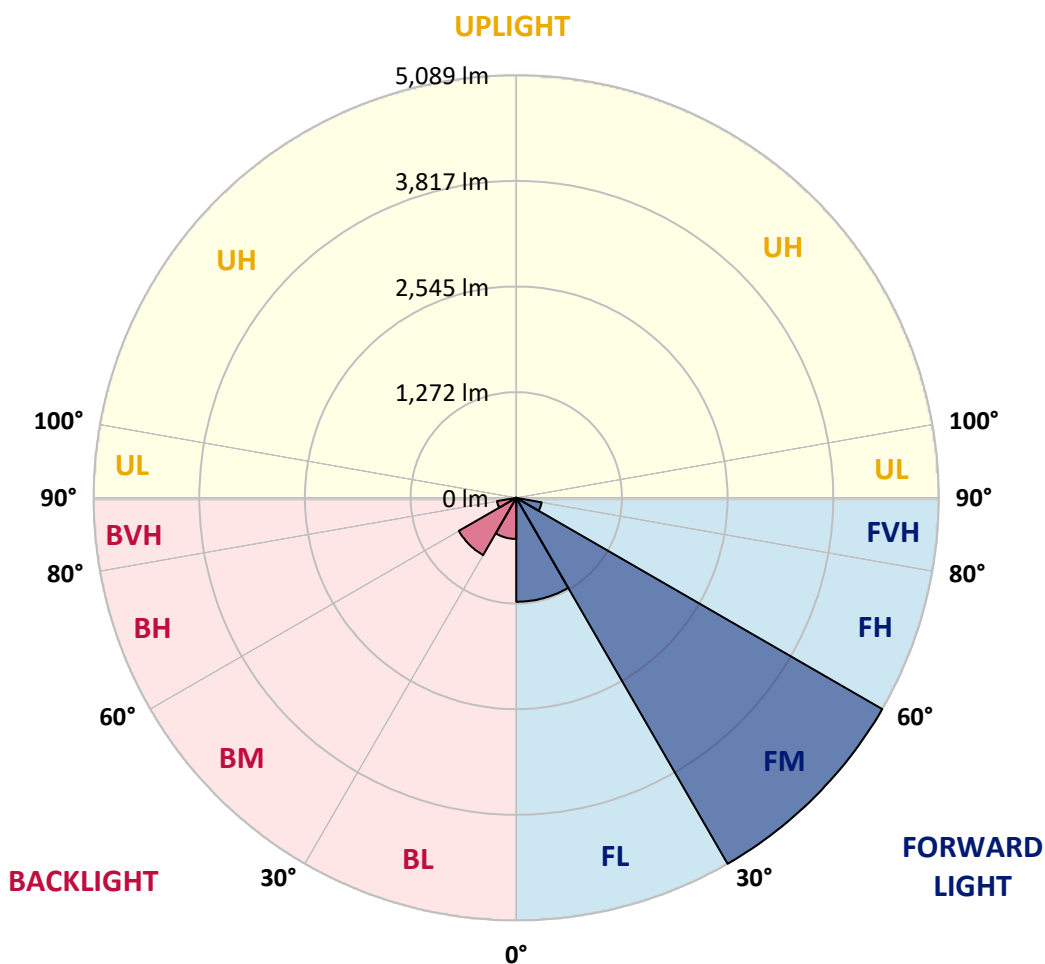


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1251.5 | 15.3 | | | |
| FM (30°-60°) | 5089.2 | 62.0 | | | |
| FH (60°-80°) | 310.5 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 11.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 495.4 | 6.0 | B1/500 | | |
| BM (30°-60°) | 797.8 | 9.7 | B1/1000 | | |
| BH (60°-80°) | 235.0 | 2.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 14.1 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 |
| 2.5° | 2723.2 | 2670.8 | 2676.7 | 2639.2 | 2598.6 | 2586.8 | 2545.2 | 2505.7 | 2476.0 | 2412.7 | 2354.4 |
| 5° | 2976.4 | 2960.5 | 2936.8 | 2907.1 | 2876.5 | 2801.3 | 2758.8 | 2709.4 | 2600.6 | 2502.7 | 2405.8 |
| 7.5° | 3012.9 | 3010.0 | 3022.8 | 3022.8 | 3033.7 | 3005.0 | 2944.7 | 2910.1 | 2794.4 | 2635.2 | 2455.2 |
| 10° | 2755.8 | 2764.7 | 2827.0 | 2908.1 | 3020.8 | 3099.0 | 3089.1 | 3080.2 | 2953.6 | 2736.1 | 2513.6 |
| 12.5° | 2551.2 | 2531.4 | 2568.0 | 2637.2 | 2806.3 | 2995.1 | 3122.7 | 3123.7 | 3091.1 | 2897.2 | 2556.1 |
| 15° | 2435.5 | 2449.3 | 2459.2 | 2491.8 | 2619.4 | 2837.9 | 3062.4 | 3128.6 | 3272.0 | 3011.0 | 2623.3 |
| 17.5° | 2509.6 | 2463.2 | 2461.2 | 2469.1 | 2534.3 | 2698.5 | 2950.6 | 3064.4 | 3370.9 | 3157.3 | 2706.4 |
| 20° | 2606.5 | 2605.5 | 2577.9 | 2568.0 | 2567.0 | 2713.3 | 2877.5 | 3031.7 | 3423.3 | 3347.2 | 2790.5 |
| 22.5° | 2776.6 | 2776.6 | 2731.1 | 2709.4 | 2662.9 | 2782.5 | 2887.4 | 2992.2 | 3510.3 | 3477.7 | 2831.0 |
| 25° | 3061.4 | 3014.9 | 2936.8 | 2883.4 | 2856.7 | 2899.2 | 2992.2 | 3086.1 | 3586.5 | 3616.1 | 2915.0 |
| 27.5° | 3324.4 | 3251.2 | 3212.7 | 3120.7 | 3085.1 | 3060.4 | 3145.4 | 3240.4 | 3675.4 | 3831.7 | 2960.5 |
| 30° | 3623.0 | 3610.2 | 3541.0 | 3422.3 | 3334.3 | 3288.8 | 3366.9 | 3460.9 | 3838.6 | 4052.2 | 3065.3 |
| 32.5° | 4157.0 | 4040.3 | 3946.4 | 3801.0 | 3657.7 | 3560.7 | 3637.9 | 3700.2 | 4109.5 | 4282.6 | 3180.0 |
| 35° | 4733.5 | 4695.9 | 4533.7 | 4271.7 | 4052.2 | 3965.2 | 4010.7 | 4057.1 | 4425.0 | 4634.6 | 3372.9 |
| 37.5° | 5300.1 | 5248.7 | 5115.2 | 4894.7 | 4627.7 | 4450.7 | 4483.3 | 4537.7 | 4779.0 | 5109.2 | 3608.2 |
| 40° | 5707.5 | 5644.2 | 5577.0 | 5544.3 | 5279.3 | 5037.1 | 5018.3 | 5032.1 | 5257.6 | 5554.2 | 3869.3 |
| 42.5° | 5737.1 | 5815.3 | 5836.0 | 5967.5 | 5905.2 | 5706.5 | 5590.8 | 5593.8 | 5714.4 | 5994.2 | 4133.3 |
| 45° | 5674.8 | 5602.7 | 5755.9 | 6114.9 | 6320.5 | 6413.5 | 6218.7 | 6194.0 | 5997.2 | 6249.4 | 4264.8 |
| 47.5° | 5021.2 | 5041.0 | 5300.1 | 5867.7 | 6461.9 | 6877.3 | 6831.8 | 6749.7 | 6148.5 | 6240.5 | 4244.0 |
| 50° | 3969.1 | 4088.8 | 4329.1 | 5036.1 | 6066.4 | 6950.4 | 7218.4 | 7028.5 | 6058.5 | 5995.2 | 4032.4 |
| 52.5° | 2643.1 | 2692.6 | 2850.8 | 3763.5 | 4877.9 | 6212.8 | 6773.4 | 6816.9 | 5975.4 | 5673.9 | 3764.4 |
| 55° | 1176.7 | 1172.7 | 1395.2 | 1965.8 | 3060.4 | 4727.6 | 5534.4 | 5799.4 | 5656.1 | 5346.6 | 3503.4 |
| 57.5° | 498.4 | 515.2 | 606.1 | 849.4 | 1505.0 | 2852.8 | 3749.6 | 3982.0 | 4349.8 | 4390.4 | 2687.6 |
| 60° | 337.2 | 339.2 | 363.9 | 425.2 | 629.9 | 1339.9 | 1966.8 | 2245.6 | 2508.6 | 2490.8 | 1425.9 |
| 62.5° | 265.0 | 271.9 | 290.7 | 315.4 | 373.8 | 608.1 | 880.1 | 1035.3 | 1052.1 | 885.0 | 540.9 |
| 65° | 226.4 | 227.4 | 246.2 | 267.0 | 292.7 | 354.0 | 424.2 | 432.1 | 437.1 | 421.2 | 397.5 |
| 67.5° | 186.9 | 188.9 | 203.7 | 227.4 | 251.2 | 270.9 | 290.7 | 300.6 | 323.3 | 367.8 | 361.9 |
| 70° | 148.3 | 151.3 | 164.1 | 183.9 | 205.7 | 217.5 | 242.3 | 251.2 | 271.9 | 306.5 | 320.4 |
| 72.5° | 112.7 | 113.7 | 124.6 | 138.4 | 158.2 | 170.1 | 190.8 | 200.7 | 214.6 | 244.2 | 257.1 |
| 75° | 81.1 | 84.0 | 92.0 | 98.9 | 101.8 | 109.8 | 129.5 | 140.4 | 160.2 | 173.0 | 174.0 |
| 77.5° | 42.5 | 44.5 | 46.5 | 46.5 | 56.4 | 71.2 | 84.0 | 90.0 | 103.8 | 113.7 | 108.8 |
| 80° | 16.8 | 17.8 | 22.7 | 30.7 | 39.6 | 51.4 | 60.3 | 63.3 | 75.2 | 81.1 | 84.0 |
| 82.5° | 9.9 | 10.9 | 14.8 | 21.8 | 28.7 | 36.6 | 43.5 | 46.5 | 54.4 | 61.3 | 63.3 |
| 85° | 4.9 | 5.9 | 8.9 | 13.8 | 18.8 | 22.7 | 21.8 | 20.8 | 20.8 | 19.8 | 20.8 |
| 87.5° | 2.0 | 2.0 | 3.0 | 3.0 | 3.0 | 4.0 | 4.9 | 4.9 | 4.9 | 5.9 | 5.9 |
| 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° | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 | 2312.9 |
| 2.5° | 2315.8 | 2276.3 | 2239.7 | 2172.4 | 2099.3 | 2078.5 | 1993.5 | 1962.8 | 1941.1 | 1915.3 | 1907.4 |
| 5° | 2327.7 | 2275.3 | 2157.6 | 2022.1 | 1914.4 | 1775.9 | 1685.0 | 1587.1 | 1515.9 | 1498.1 | 1493.1 |
| 7.5° | 2352.4 | 2262.4 | 2059.7 | 1855.0 | 1634.5 | 1446.6 | 1303.3 | 1226.1 | 1157.9 | 1154.0 | 1147.0 |
| 10° | 2380.1 | 2223.9 | 1952.9 | 1631.6 | 1349.7 | 1175.7 | 1089.7 | 1056.1 | 1039.3 | 1035.3 | 1033.3 |
| 12.5° | 2402.8 | 2215.9 | 1833.3 | 1414.0 | 1148.0 | 1043.2 | 1017.5 | 1014.5 | 1021.5 | 1023.4 | 1027.4 |
| 15° | 2412.7 | 2184.3 | 1688.9 | 1219.2 | 1022.4 | 983.9 | 994.8 | 1006.6 | 1011.6 | 1024.4 | 1014.5 |
| 17.5° | 2431.5 | 2143.8 | 1510.9 | 1065.0 | 952.2 | 959.2 | 977.9 | 991.8 | 999.7 | 1008.6 | 995.7 |
| 20° | 2441.4 | 2107.2 | 1343.8 | 973.0 | 927.5 | 940.4 | 966.1 | 977.0 | 986.8 | 990.8 | 976.0 |
| 22.5° | 2432.5 | 2032.0 | 1196.5 | 898.8 | 903.8 | 920.6 | 943.3 | 955.2 | 949.3 | 933.4 | 924.5 |
| 25° | 2408.8 | 1926.2 | 1043.2 | 851.4 | 870.2 | 899.8 | 917.6 | 908.7 | 897.8 | 889.0 | 886.0 |
| 27.5° | 2407.8 | 1796.7 | 932.5 | 807.9 | 841.5 | 882.0 | 876.1 | 868.2 | 873.1 | 866.2 | 858.3 |
| 30° | 2412.7 | 1671.1 | 841.5 | 783.1 | 820.7 | 840.5 | 847.4 | 839.5 | 845.4 | 832.6 | 836.5 |
| 32.5° | 2387.0 | 1548.5 | 782.2 | 754.5 | 796.0 | 795.0 | 817.8 | 823.7 | 809.8 | 783.1 | 787.1 |
| 35° | 2397.9 | 1449.6 | 731.7 | 741.6 | 768.3 | 768.3 | 786.1 | 779.2 | 742.6 | 726.8 | 730.7 |
| 37.5° | 2473.0 | 1352.7 | 707.0 | 723.8 | 741.6 | 749.5 | 743.6 | 713.9 | 705.0 | 705.0 | 707.0 |
| 40° | 2544.2 | 1269.6 | 692.2 | 719.9 | 716.9 | 721.8 | 678.3 | 681.3 | 681.3 | 682.3 | 677.3 |
| 42.5° | 2607.5 | 1213.3 | 680.3 | 696.1 | 701.1 | 675.4 | 648.7 | 645.7 | 652.6 | 651.6 | 647.7 |
| 45° | 2630.3 | 1166.8 | 663.5 | 669.4 | 673.4 | 630.9 | 618.0 | 612.1 | 620.0 | 623.0 | 626.9 |
| 47.5° | 2543.2 | 1128.2 | 644.7 | 632.8 | 624.9 | 597.2 | 580.4 | 569.6 | 579.4 | 596.3 | 600.2 |
| 50° | 2431.5 | 1077.8 | 615.0 | 592.3 | 575.5 | 563.6 | 551.8 | 540.9 | 547.8 | 559.7 | 556.7 |
| 52.5° | 2266.4 | 998.7 | 577.5 | 553.7 | 525.1 | 528.0 | 517.2 | 511.2 | 515.2 | 515.2 | 512.2 |
| 55° | 2031.0 | 820.7 | 514.2 | 497.4 | 473.6 | 481.6 | 483.5 | 475.6 | 467.7 | 474.6 | 468.7 |
| 57.5° | 1386.3 | 579.4 | 458.8 | 458.8 | 435.1 | 446.0 | 445.0 | 426.2 | 407.4 | 409.4 | 405.4 |
| 60° | 801.9 | 461.8 | 423.2 | 419.3 | 394.5 | 403.4 | 405.4 | 392.6 | 363.9 | 365.9 | 361.9 |
| 62.5° | 455.8 | 394.5 | 369.8 | 363.9 | 358.9 | 366.9 | 366.9 | 350.0 | 325.3 | 327.3 | 323.3 |
| 65° | 387.6 | 365.9 | 330.3 | 329.3 | 327.3 | 329.3 | 321.4 | 303.6 | 281.8 | 272.9 | 273.9 |
| 67.5° | 352.0 | 338.2 | 303.6 | 294.7 | 288.7 | 287.7 | 272.9 | 256.1 | 246.2 | 238.3 | 237.3 |
| 70° | 308.5 | 297.6 | 271.9 | 260.1 | 254.1 | 240.3 | 225.5 | 214.6 | 200.7 | 196.8 | 200.7 |
| 72.5° | 244.2 | 243.3 | 233.4 | 220.5 | 207.7 | 196.8 | 183.9 | 169.1 | 156.2 | 153.3 | 146.3 |
| 75° | 169.1 | 171.1 | 173.0 | 171.1 | 160.2 | 146.3 | 131.5 | 119.6 | 103.8 | 94.9 | 92.9 |
| 77.5° | 110.7 | 113.7 | 116.7 | 112.7 | 105.8 | 92.9 | 83.1 | 68.2 | 56.4 | 49.4 | 48.5 |
| 80° | 81.1 | 85.0 | 87.0 | 84.0 | 76.1 | 66.3 | 55.4 | 43.5 | 34.6 | 28.7 | 28.7 |
| 82.5° | 62.3 | 66.3 | 68.2 | 63.3 | 55.4 | 47.5 | 39.6 | 30.7 | 23.7 | 18.8 | 17.8 |
| 85° | 21.8 | 20.8 | 24.7 | 25.7 | 30.7 | 28.7 | 23.7 | 17.8 | 13.8 | 9.9 | 8.9 |
| 87.5° | 5.9 | 5.9 | 6.9 | 6.9 | 5.9 | 4.9 | 4.9 | 4.9 | 4.0 | 3.0 | 3.0 |
| 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)