

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: P527591

Luminaire Tested: **GLAN-SA2C-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9350 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

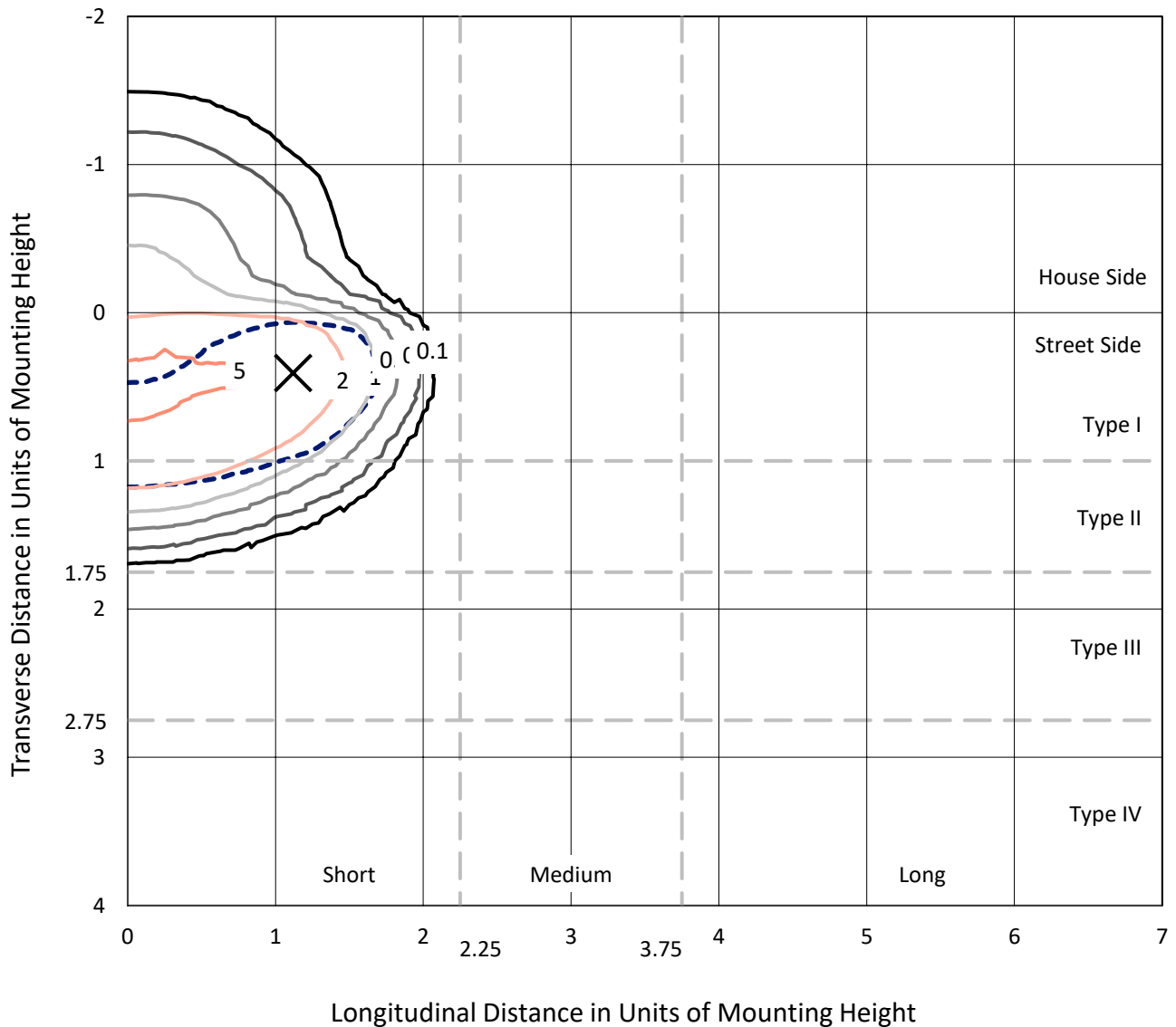
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

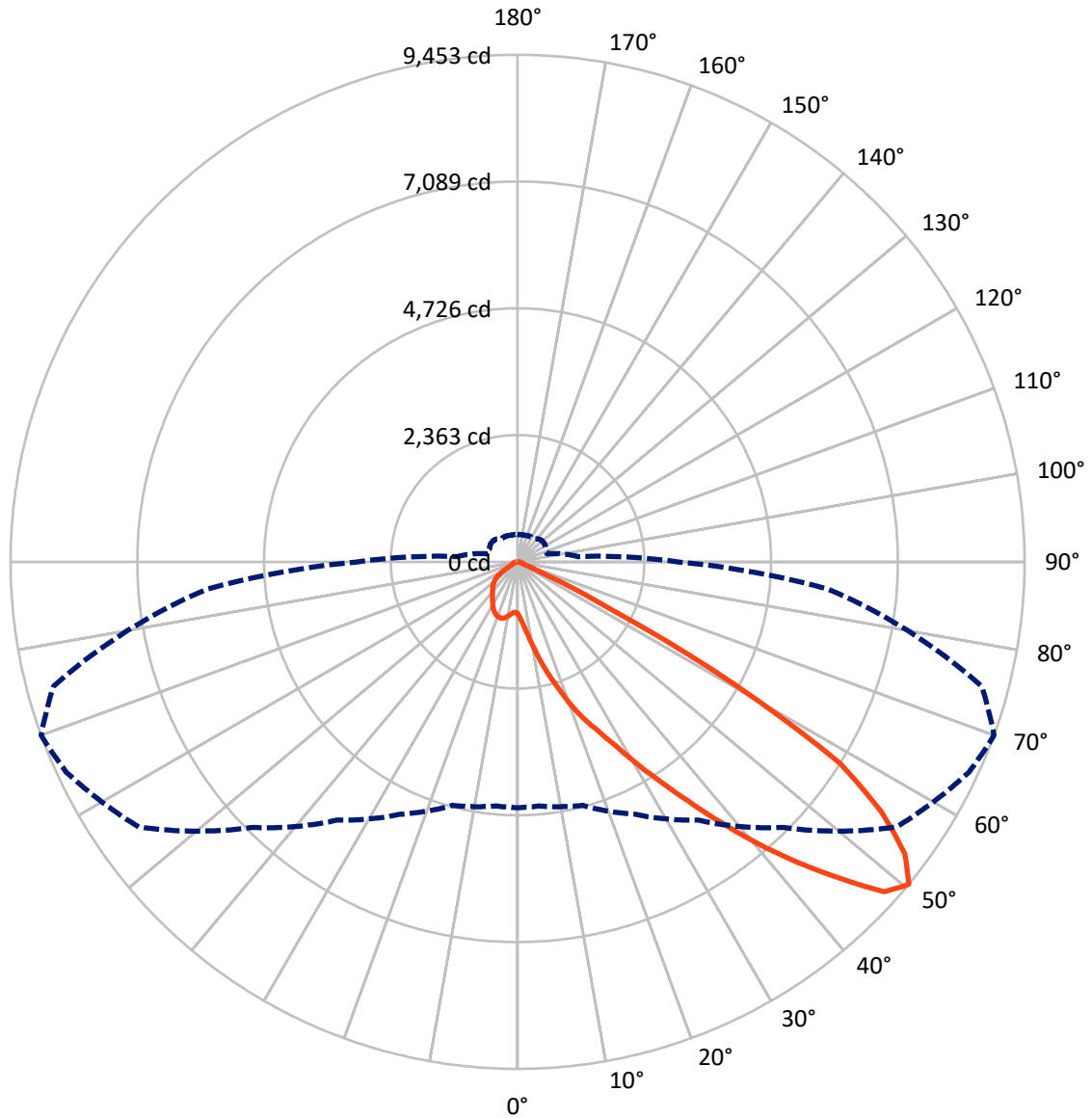
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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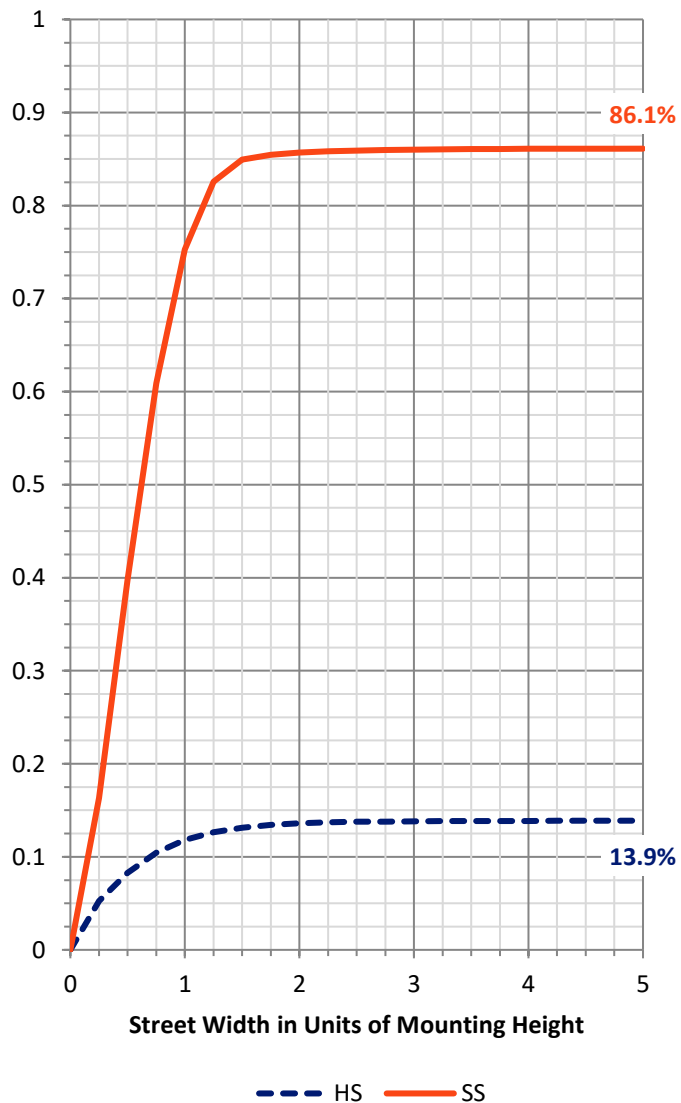
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1305.8 | 0.0 | 1305.8 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 8044.2 | 0.0 | 8044.2 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 9350.0 | 0.0 | 9350.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 125.9 | 1.3 |
| 10°-20° | 544.8 | 5.8 |
| 20°-30° | 1142.8 | 12.2 |
| 30°-40° | 1969.8 | 21.1 |
| 40°-50° | 2878.9 | 30.8 |
| 50°-60° | 2242.2 | 24.0 |
| 60°-70° | 379.9 | 4.1 |
| 70°-80° | 52.2 | 0.6 |
| 80°-90° | 13.5 | 0.1 |
| 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° | 9350.0 | 100.0 |
| 0°-180° | 9350.0 | 100.0 |

Coefficient of Utilization

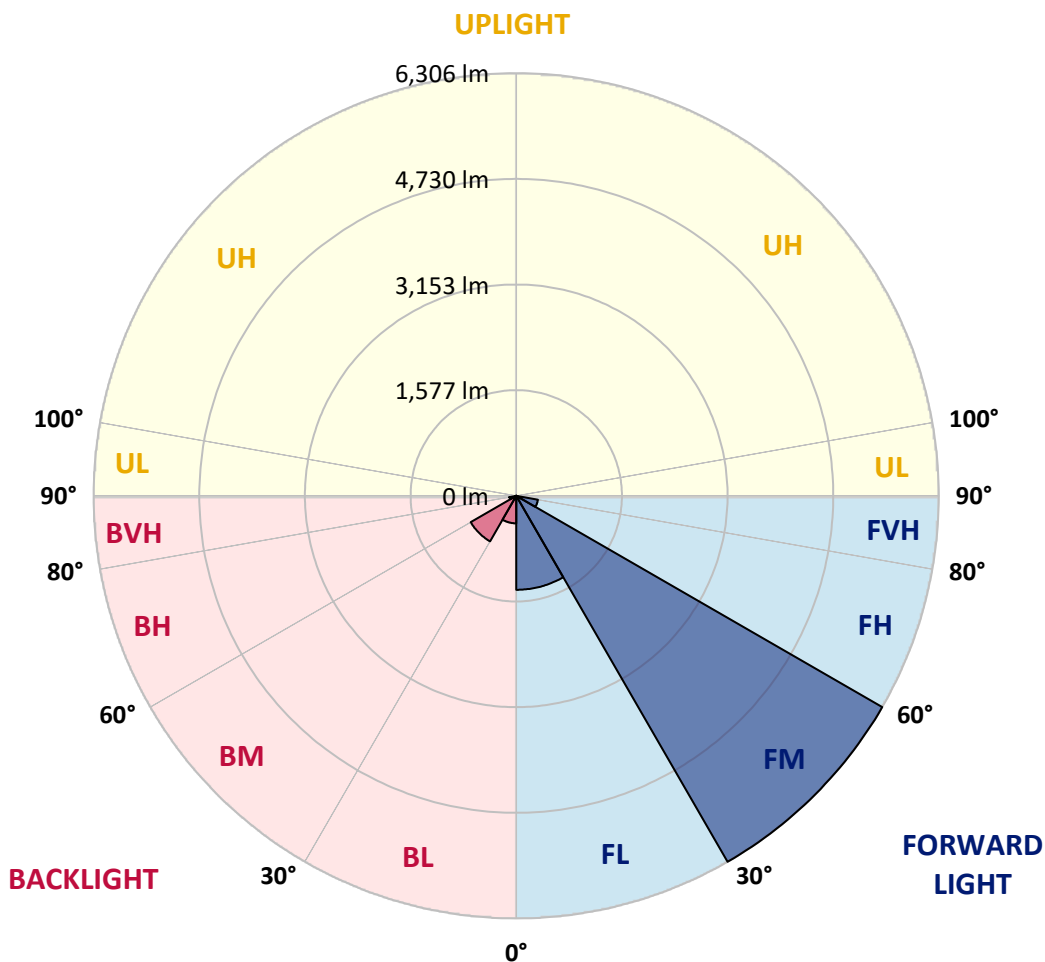


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1402.6 | 15.0 | | | |
| FM (30°-60°) | 6306.4 | 67.4 | | | |
| FH (60°-80°) | 328.9 | 3.5 | | | G0/660 |
| FVH (80°-90°) | 6.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 410.9 | 4.4 | B1/500 | | |
| BM (30°-60°) | 784.5 | 8.4 | B1/1000 | | |
| BH (60°-80°) | 103.1 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 7.3 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 |
| 2.5° | 1268.2 | 1259.0 | 1239.0 | 1202.1 | 1186.8 | 1149.9 | 1128.4 | 1086.8 | 1060.7 | 1031.5 | 999.2 |
| 5° | 1786.3 | 1738.6 | 1709.4 | 1667.9 | 1546.5 | 1471.2 | 1346.6 | 1240.6 | 1191.4 | 1137.6 | 1063.8 |
| 7.5° | 2321.3 | 2290.5 | 2250.6 | 2161.4 | 2078.4 | 1921.6 | 1707.9 | 1474.2 | 1374.3 | 1282.1 | 1136.0 |
| 10° | 2764.0 | 2677.9 | 2673.3 | 2607.2 | 2516.5 | 2329.0 | 2072.2 | 1781.7 | 1603.4 | 1468.1 | 1239.0 |
| 12.5° | 3073.0 | 2994.6 | 3029.9 | 3022.3 | 2937.7 | 2765.5 | 2468.8 | 2084.5 | 1898.5 | 1687.9 | 1345.1 |
| 15° | 3354.3 | 3322.0 | 3311.3 | 3302.0 | 3268.2 | 3140.6 | 2874.7 | 2453.5 | 2184.5 | 1930.8 | 1465.0 |
| 17.5° | 3629.5 | 3546.5 | 3586.4 | 3594.1 | 3591.0 | 3475.8 | 3226.7 | 2804.0 | 2487.3 | 2187.5 | 1591.1 |
| 20° | 3873.9 | 3881.6 | 3827.8 | 3817.0 | 3807.8 | 3803.2 | 3560.3 | 3151.4 | 2859.3 | 2456.5 | 1755.6 |
| 22.5° | 4187.5 | 4133.7 | 4181.4 | 4150.6 | 4090.7 | 4053.8 | 3867.8 | 3458.8 | 3182.1 | 2780.9 | 1923.1 |
| 25° | 4558.0 | 4601.0 | 4488.8 | 4476.5 | 4410.4 | 4282.8 | 4115.3 | 3803.2 | 3492.7 | 3082.2 | 2104.5 |
| 27.5° | 5014.6 | 4939.2 | 4910.0 | 4842.4 | 4722.5 | 4668.7 | 4471.9 | 4158.3 | 3867.8 | 3398.9 | 2279.8 |
| 30° | 5406.6 | 5386.6 | 5240.5 | 5160.6 | 5056.1 | 5054.5 | 4779.4 | 4639.5 | 4356.6 | 3895.4 | 2521.1 |
| 32.5° | 5726.3 | 5638.7 | 5584.9 | 5529.5 | 5445.0 | 5468.0 | 5235.9 | 5162.1 | 4877.7 | 4356.6 | 2805.5 |
| 35° | 5940.0 | 5877.0 | 5844.7 | 5760.1 | 5735.5 | 5838.5 | 5741.7 | 5710.9 | 5477.3 | 5005.3 | 3139.1 |
| 37.5° | 6007.6 | 6027.6 | 6021.5 | 5915.4 | 5967.7 | 6245.9 | 6370.4 | 6290.5 | 6167.5 | 5689.4 | 3500.3 |
| 40° | 6067.6 | 6081.4 | 6050.7 | 6175.2 | 6324.3 | 6641.0 | 7091.4 | 6959.2 | 6913.1 | 6382.7 | 4003.0 |
| 42.5° | 6101.4 | 6090.6 | 6090.6 | 6305.9 | 6531.8 | 7168.3 | 7787.8 | 7700.2 | 7664.8 | 7120.6 | 4584.1 |
| 45° | 5955.4 | 5850.8 | 5963.0 | 6255.1 | 6710.2 | 7428.1 | 8344.3 | 8465.7 | 8415.0 | 7998.4 | 5263.6 |
| 47.5° | 5409.6 | 5474.2 | 5537.2 | 5927.7 | 6493.4 | 7348.1 | 8685.5 | 9099.1 | 9192.8 | 8736.3 | 5709.4 |
| 50° | 4584.1 | 4570.3 | 4701.0 | 5192.9 | 5880.0 | 7003.8 | 8619.4 | 9282.0 | 9452.6 | 8957.6 | 5803.2 |
| 52.5° | 3334.3 | 3435.8 | 3577.2 | 4066.1 | 4880.8 | 6112.2 | 7766.3 | 8810.1 | 9037.6 | 8685.5 | 5741.7 |
| 55° | 1941.6 | 1829.3 | 2147.6 | 2561.1 | 3329.7 | 4610.3 | 6565.7 | 7809.3 | 8230.5 | 8190.5 | 5431.2 |
| 57.5° | 777.9 | 753.3 | 862.4 | 1162.2 | 1737.1 | 2857.8 | 4774.7 | 6416.5 | 7091.4 | 7501.8 | 4773.2 |
| 60° | 341.3 | 333.6 | 392.0 | 473.5 | 710.2 | 1317.4 | 2611.8 | 3990.7 | 4694.8 | 5242.1 | 3285.1 |
| 62.5° | 246.0 | 242.9 | 272.1 | 301.3 | 375.1 | 573.4 | 1097.6 | 1608.0 | 2004.6 | 2421.2 | 1471.2 |
| 65° | 198.3 | 206.0 | 226.0 | 241.4 | 276.7 | 318.2 | 387.4 | 447.3 | 548.8 | 568.8 | 324.4 |
| 67.5° | 161.4 | 167.6 | 186.0 | 202.9 | 209.1 | 172.2 | 178.3 | 156.8 | 156.8 | 139.9 | 112.2 |
| 70° | 118.4 | 119.9 | 141.4 | 161.4 | 129.1 | 69.2 | 121.4 | 121.4 | 109.1 | 104.5 | 95.3 |
| 72.5° | 87.6 | 89.2 | 106.1 | 99.9 | 50.7 | 43.0 | 89.2 | 98.4 | 89.2 | 84.5 | 76.9 |
| 75° | 64.6 | 66.1 | 55.3 | 23.1 | 21.5 | 27.7 | 52.3 | 67.6 | 64.6 | 63.0 | 58.4 |
| 77.5° | 12.3 | 9.2 | 7.7 | 10.8 | 15.4 | 23.1 | 33.8 | 41.5 | 43.0 | 46.1 | 43.0 |
| 80° | 1.5 | 1.5 | 4.6 | 9.2 | 16.9 | 24.6 | 35.4 | 40.0 | 41.5 | 43.0 | 40.0 |
| 82.5° | 0.0 | 1.5 | 4.6 | 9.2 | 16.9 | 23.1 | 30.7 | 35.4 | 38.4 | 40.0 | 38.4 |
| 85° | 0.0 | 1.5 | 3.1 | 7.7 | 13.8 | 16.9 | 15.4 | 10.8 | 9.2 | 10.8 | 7.7 |
| 87.5° | 0.0 | 0.0 | 1.5 | 1.5 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| 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° | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 | 968.5 |
| 2.5° | 980.8 | 974.6 | 953.1 | 930.0 | 910.1 | 919.3 | 910.1 | 902.4 | 905.4 | 902.4 | 899.3 |
| 5° | 1034.6 | 1006.9 | 960.8 | 940.8 | 923.9 | 922.4 | 917.7 | 916.2 | 917.7 | 917.7 | 903.9 |
| 7.5° | 1085.3 | 1040.7 | 991.5 | 970.0 | 950.0 | 951.6 | 940.8 | 940.8 | 939.3 | 931.6 | 928.5 |
| 10° | 1162.2 | 1102.2 | 1039.2 | 1000.8 | 976.2 | 971.6 | 960.8 | 950.0 | 950.0 | 950.0 | 934.7 |
| 12.5° | 1246.7 | 1171.4 | 1085.3 | 1040.7 | 1011.5 | 988.5 | 971.6 | 968.5 | 951.6 | 948.5 | 940.8 |
| 15° | 1320.5 | 1225.2 | 1116.1 | 1054.6 | 1017.7 | 986.9 | 960.8 | 943.9 | 936.2 | 931.6 | 925.4 |
| 17.5° | 1392.8 | 1271.3 | 1133.0 | 1054.6 | 1014.6 | 979.2 | 951.6 | 936.2 | 917.7 | 920.8 | 908.5 |
| 20° | 1489.6 | 1320.5 | 1137.6 | 1034.6 | 985.4 | 951.6 | 914.7 | 907.0 | 896.2 | 887.0 | 890.1 |
| 22.5° | 1583.4 | 1355.9 | 1123.7 | 1010.0 | 939.3 | 899.3 | 880.9 | 871.6 | 867.0 | 859.3 | 848.6 |
| 25° | 1667.9 | 1394.3 | 1102.2 | 965.4 | 890.1 | 860.9 | 844.0 | 842.4 | 831.7 | 831.7 | 811.7 |
| 27.5° | 1754.0 | 1408.1 | 1065.3 | 913.1 | 847.0 | 830.1 | 822.4 | 819.4 | 814.7 | 804.0 | 790.2 |
| 30° | 1852.4 | 1412.7 | 1011.5 | 859.3 | 808.6 | 790.2 | 800.9 | 808.6 | 788.6 | 768.6 | 774.8 |
| 32.5° | 1933.9 | 1402.0 | 947.0 | 808.6 | 780.9 | 771.7 | 793.2 | 800.9 | 777.9 | 756.3 | 745.6 |
| 35° | 2032.3 | 1375.9 | 883.9 | 768.6 | 753.3 | 771.7 | 790.2 | 790.2 | 744.0 | 717.9 | 711.8 |
| 37.5° | 2181.4 | 1346.6 | 825.5 | 734.8 | 724.1 | 762.5 | 787.1 | 770.2 | 697.9 | 665.6 | 657.9 |
| 40° | 2341.3 | 1328.2 | 768.6 | 701.0 | 708.7 | 747.1 | 760.9 | 708.7 | 634.9 | 614.9 | 608.8 |
| 42.5° | 2573.4 | 1291.3 | 717.9 | 671.8 | 694.8 | 725.6 | 725.6 | 631.8 | 604.1 | 593.4 | 591.8 |
| 45° | 2862.4 | 1265.2 | 673.3 | 647.2 | 674.9 | 682.5 | 657.9 | 591.8 | 571.9 | 568.8 | 570.3 |
| 47.5° | 3003.8 | 1214.4 | 627.2 | 618.0 | 638.0 | 639.5 | 574.9 | 559.6 | 542.7 | 538.0 | 535.0 |
| 50° | 2982.3 | 1123.7 | 567.3 | 579.5 | 607.2 | 591.8 | 524.2 | 527.3 | 511.9 | 510.4 | 502.7 |
| 52.5° | 2831.6 | 980.8 | 507.3 | 536.5 | 567.3 | 522.7 | 482.7 | 479.6 | 479.6 | 459.6 | 452.0 |
| 55° | 2510.4 | 790.2 | 435.0 | 471.9 | 508.8 | 439.7 | 428.9 | 425.8 | 418.1 | 399.7 | 395.1 |
| 57.5° | 1987.7 | 579.5 | 327.4 | 367.4 | 432.0 | 373.6 | 372.0 | 358.2 | 338.2 | 324.4 | 324.4 |
| 60° | 1182.2 | 333.6 | 206.0 | 224.4 | 285.9 | 302.8 | 336.7 | 330.5 | 296.7 | 275.2 | 269.0 |
| 62.5° | 539.6 | 172.2 | 130.7 | 133.7 | 153.7 | 196.8 | 264.4 | 305.9 | 258.3 | 221.4 | 218.3 |
| 65° | 181.4 | 127.6 | 107.6 | 103.0 | 106.1 | 118.4 | 158.3 | 216.8 | 206.0 | 170.6 | 164.5 |
| 67.5° | 110.7 | 113.8 | 101.5 | 93.8 | 93.8 | 92.2 | 90.7 | 98.4 | 121.4 | 118.4 | 119.9 |
| 70° | 95.3 | 104.5 | 93.8 | 84.5 | 81.5 | 76.9 | 64.6 | 53.8 | 46.1 | 53.8 | 56.9 |
| 72.5° | 76.9 | 83.0 | 79.9 | 72.3 | 64.6 | 58.4 | 46.1 | 35.4 | 26.1 | 23.1 | 23.1 |
| 75° | 56.9 | 61.5 | 64.6 | 55.3 | 49.2 | 41.5 | 33.8 | 23.1 | 13.8 | 9.2 | 9.2 |
| 77.5° | 41.5 | 46.1 | 47.7 | 43.0 | 36.9 | 29.2 | 21.5 | 15.4 | 7.7 | 3.1 | 3.1 |
| 80° | 35.4 | 41.5 | 46.1 | 43.0 | 38.4 | 27.7 | 20.0 | 10.8 | 6.1 | 1.5 | 1.5 |
| 82.5° | 33.8 | 41.5 | 46.1 | 41.5 | 36.9 | 26.1 | 20.0 | 12.3 | 4.6 | 1.5 | 1.5 |
| 85° | 7.7 | 10.8 | 13.8 | 16.9 | 20.0 | 20.0 | 15.4 | 9.2 | 4.6 | 1.5 | 1.5 |
| 87.5° | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 1.5 | 1.5 | 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)