

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: P386954

Luminaire Tested: GAW-SA2C-830-U-T2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-830-U-T2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8345 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

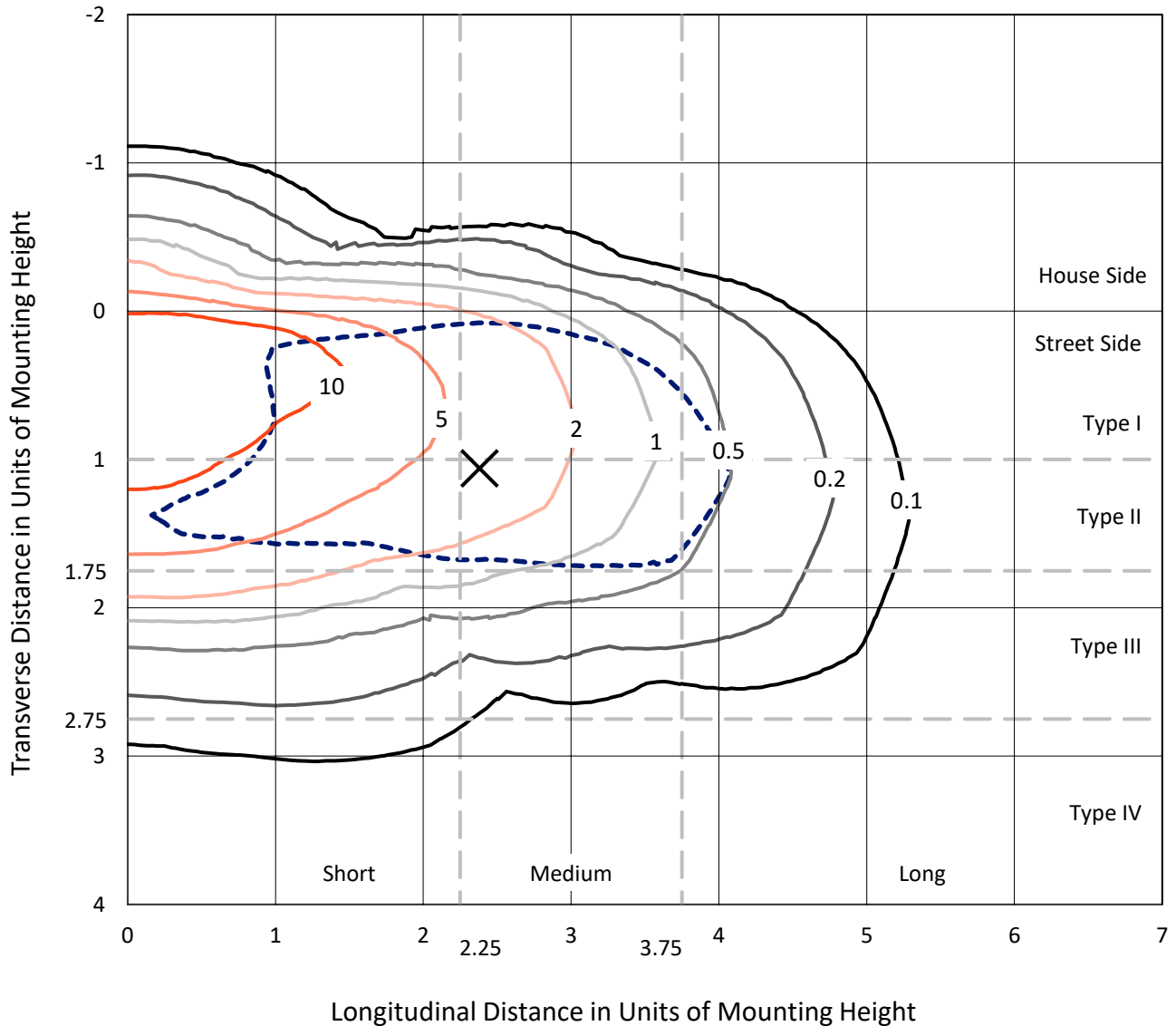
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

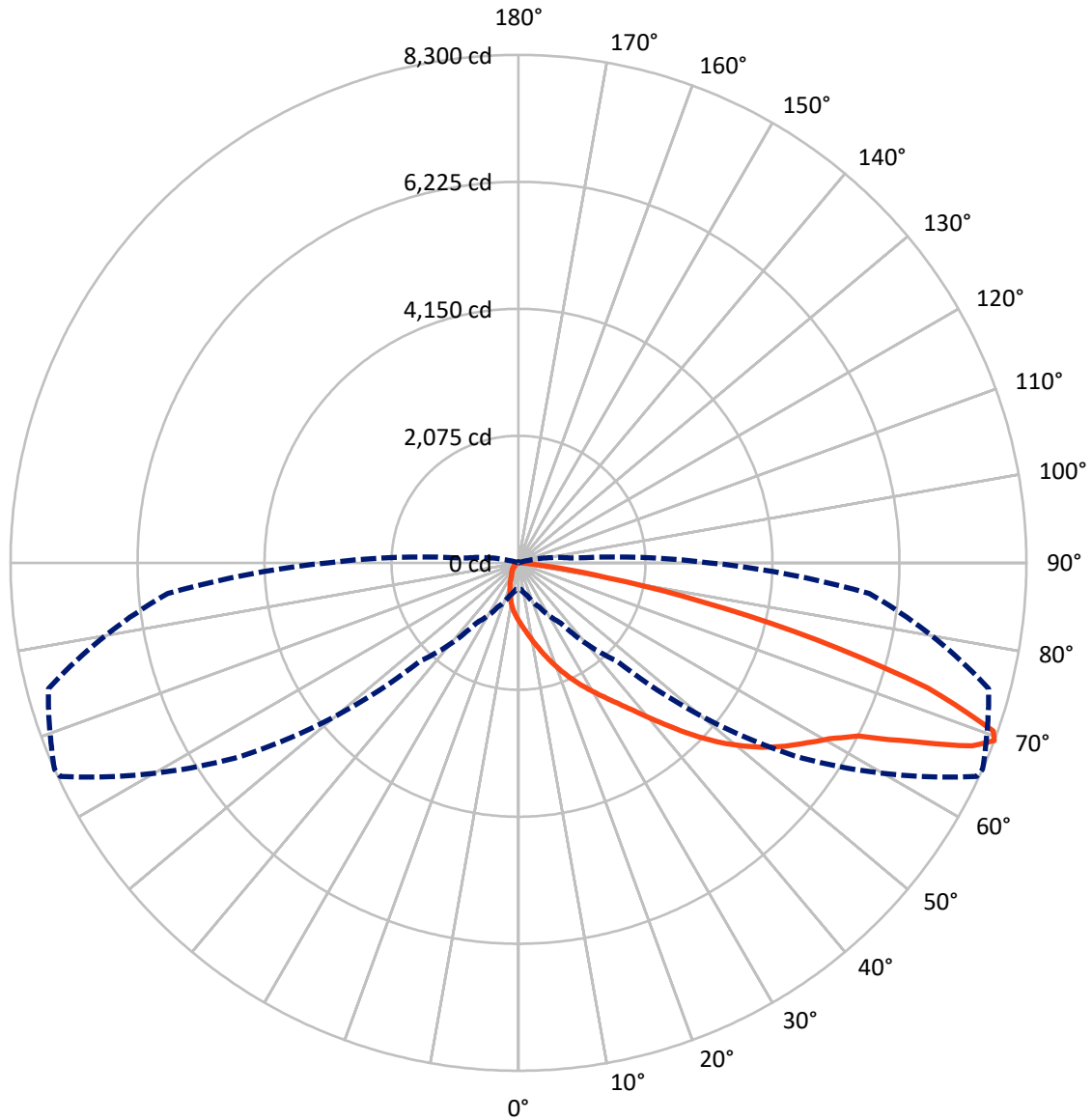
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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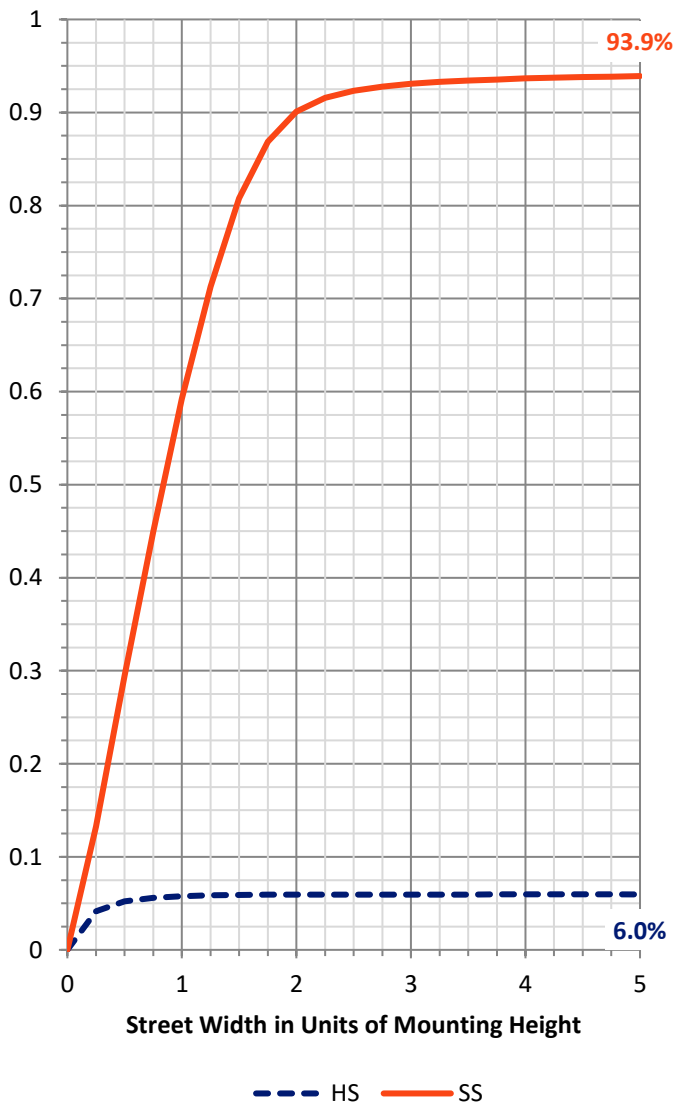
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 500.6 | 0.0 | 500.6 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 7844.4 | 0.0 | 7844.4 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 8345.0 | 0.0 | 8345.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 91.8 | 1.1 |
| 10°-20° | 273.2 | 3.3 |
| 20°-30° | 475.8 | 5.7 |
| 30°-40° | 834.7 | 10.0 |
| 40°-50° | 1397.2 | 16.7 |
| 50°-60° | 2053.8 | 24.6 |
| 60°-70° | 2108.7 | 25.3 |
| 70°-80° | 1041.0 | 12.5 |
| 80°-90° | 68.8 | 0.8 |
| 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° | 8345.0 | 100.0 |
| 0°-180° | 8345.0 | 100.0 |

Coefficient of Utilization



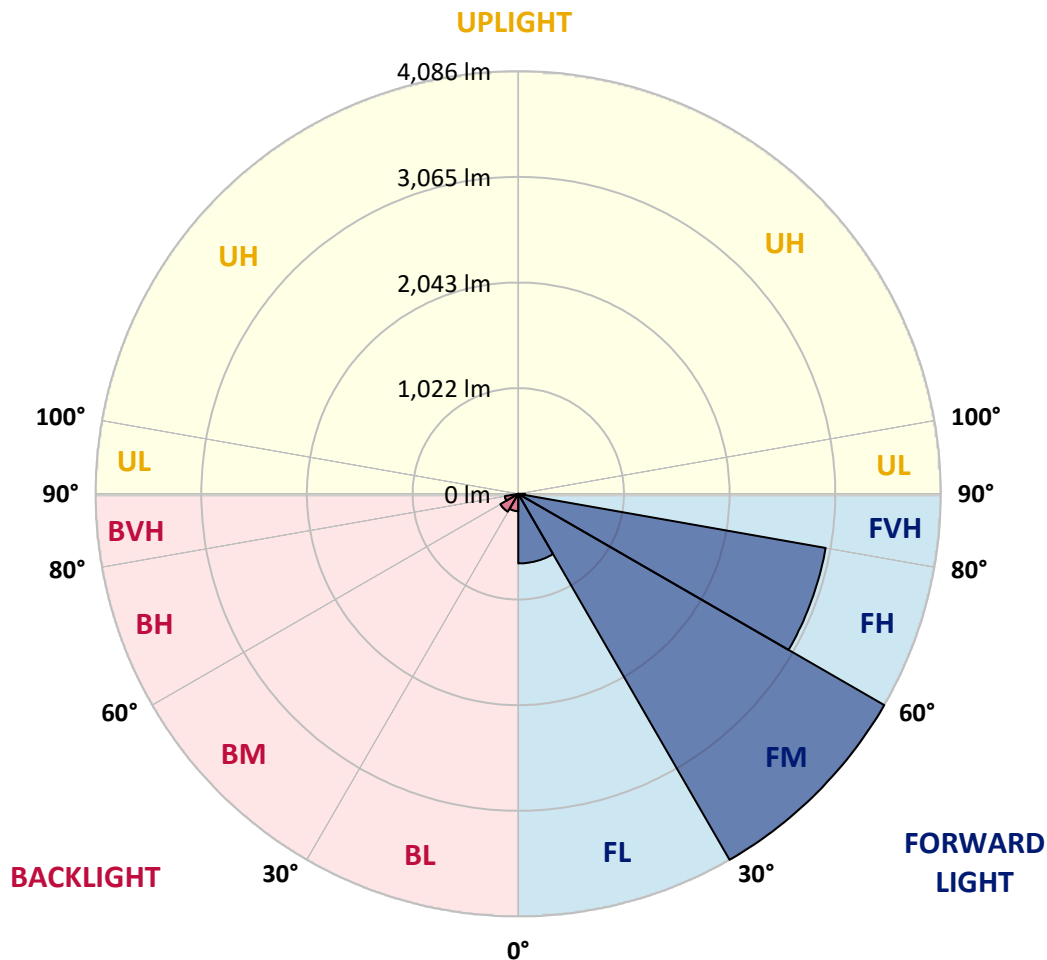
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 673.4 | 8.1 | | | |
| FM (30°-60°) | 4086.1 | 49.0 | | | |
| FH (60°-80°) | 3017.8 | 36.2 | | | G2/5000 |
| FVH (80°-90°) | 67.2 | 0.8 | | | G1/100 |
| BL (0°-30°) | 167.4 | 2.0 | B1/500 | | |
| BM (30°-60°) | 199.6 | 2.4 | B0/220 | | |
| BH (60°-80°) | 131.9 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.7 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 |
| 2.5° | 1117.7 | 1113.0 | 1111.0 | 1102.3 | 1087.2 | 1075.7 | 1053.5 | 1027.8 | 1023.0 | 998.0 | 967.5 |
| 5° | 1262.8 | 1258.9 | 1256.1 | 1243.8 | 1228.3 | 1199.4 | 1159.0 | 1111.0 | 1101.9 | 1054.3 | 993.3 |
| 7.5° | 1363.9 | 1371.0 | 1371.0 | 1363.1 | 1343.7 | 1321.9 | 1272.3 | 1206.9 | 1195.4 | 1122.5 | 1027.8 |
| 10° | 1422.9 | 1431.7 | 1438.4 | 1445.1 | 1442.4 | 1433.6 | 1386.9 | 1313.2 | 1299.3 | 1202.6 | 1067.8 |
| 12.5° | 1428.5 | 1437.2 | 1456.2 | 1484.4 | 1511.7 | 1531.5 | 1502.2 | 1430.9 | 1415.0 | 1295.3 | 1115.4 |
| 15° | 1397.6 | 1406.7 | 1436.0 | 1490.7 | 1556.9 | 1614.8 | 1624.3 | 1561.3 | 1545.0 | 1405.9 | 1174.8 |
| 17.5° | 1343.7 | 1349.6 | 1391.6 | 1467.3 | 1571.2 | 1677.4 | 1734.9 | 1701.2 | 1686.1 | 1532.3 | 1241.0 |
| 20° | 1303.6 | 1308.0 | 1344.9 | 1426.1 | 1562.5 | 1716.7 | 1839.5 | 1849.8 | 1834.0 | 1667.9 | 1312.8 |
| 22.5° | 1372.2 | 1380.1 | 1381.3 | 1419.8 | 1538.7 | 1736.1 | 1931.5 | 1996.1 | 1984.2 | 1811.8 | 1383.3 |
| 25° | 1559.7 | 1568.8 | 1538.7 | 1514.9 | 1558.9 | 1744.8 | 2010.4 | 2145.9 | 2136.4 | 1966.8 | 1454.3 |
| 27.5° | 1807.4 | 1816.9 | 1778.1 | 1707.1 | 1664.7 | 1777.7 | 2080.5 | 2298.1 | 2297.7 | 2130.9 | 1530.8 |
| 30° | 2050.8 | 2060.3 | 2020.7 | 1949.7 | 1852.2 | 1870.8 | 2141.2 | 2457.5 | 2459.8 | 2300.1 | 1612.0 |
| 32.5° | 2306.0 | 2317.9 | 2277.1 | 2185.9 | 2084.1 | 2031.8 | 2226.4 | 2617.6 | 2631.1 | 2496.3 | 1703.6 |
| 35° | 2596.2 | 2597.8 | 2540.3 | 2444.8 | 2327.4 | 2247.0 | 2363.1 | 2797.1 | 2829.2 | 2739.3 | 1819.7 |
| 37.5° | 2880.8 | 2892.3 | 2845.1 | 2694.5 | 2586.7 | 2495.5 | 2566.5 | 3021.5 | 3067.1 | 3036.1 | 1971.5 |
| 40° | 3091.6 | 3115.8 | 3109.1 | 2946.6 | 2844.3 | 2779.3 | 2818.9 | 3288.2 | 3346.1 | 3381.8 | 2163.0 |
| 42.5° | 3224.0 | 3242.3 | 3273.2 | 3175.3 | 3082.5 | 3093.2 | 3117.0 | 3599.0 | 3670.3 | 3775.8 | 2382.9 |
| 45° | 3375.8 | 3384.6 | 3410.3 | 3367.1 | 3304.5 | 3412.3 | 3433.3 | 3949.0 | 4023.9 | 4199.5 | 2627.1 |
| 47.5° | 3561.3 | 3581.9 | 3589.1 | 3549.4 | 3520.9 | 3694.5 | 3738.1 | 4267.3 | 4372.3 | 4653.3 | 2885.5 |
| 50° | 3797.6 | 3803.1 | 3815.4 | 3789.6 | 3761.1 | 3937.1 | 4011.6 | 4601.4 | 4696.9 | 5108.7 | 3140.4 |
| 52.5° | 4028.6 | 4048.5 | 4091.3 | 4075.0 | 4063.5 | 4143.6 | 4255.4 | 4902.6 | 5009.2 | 5488.5 | 3394.9 |
| 55° | 4095.2 | 4112.3 | 4260.1 | 4361.2 | 4454.7 | 4398.1 | 4488.4 | 5172.5 | 5287.9 | 5827.7 | 3639.8 |
| 57.5° | 3829.3 | 3863.8 | 4119.8 | 4383.0 | 4771.0 | 4793.6 | 4808.7 | 5449.6 | 5553.1 | 6087.8 | 3894.7 |
| 60° | 3157.0 | 3163.8 | 3583.9 | 4035.4 | 4718.7 | 5138.9 | 5276.4 | 5747.3 | 5834.1 | 6329.9 | 4199.9 |
| 62.5° | 2008.0 | 2076.6 | 2537.5 | 3174.9 | 4165.4 | 5088.9 | 5842.0 | 6197.5 | 6229.3 | 6620.5 | 4637.5 |
| 65° | 956.4 | 1000.8 | 1333.0 | 1961.6 | 3017.1 | 4449.6 | 6232.4 | 7012.1 | 7026.3 | 7196.4 | 5222.1 |
| 67.5° | 529.5 | 550.9 | 709.1 | 1055.9 | 1763.8 | 3146.7 | 6074.7 | 7976.8 | 7990.3 | 7784.6 | 5735.0 |
| 69° | 414.2 | 432.4 | 556.9 | 795.9 | 1195.8 | 2261.7 | 5497.2 | 8259.4 | 8299.5 | 7953.0 | 5753.2 |
| 70° | 351.6 | 369.4 | 479.6 | 672.2 | 961.6 | 1747.6 | 4893.1 | 8189.3 | 8231.7 | 7937.2 | 5617.3 |
| 72.5° | 215.2 | 225.5 | 319.5 | 473.3 | 644.5 | 879.1 | 3017.5 | 6925.7 | 6997.4 | 7280.8 | 4827.7 |
| 75° | 145.1 | 150.6 | 199.8 | 326.6 | 461.0 | 452.6 | 1567.6 | 4881.6 | 5037.0 | 5663.6 | 3565.7 |
| 77.5° | 103.8 | 109.0 | 134.0 | 211.3 | 323.0 | 298.9 | 709.9 | 3033.8 | 3067.1 | 3396.8 | 1944.6 |
| 80° | 59.1 | 63.8 | 94.7 | 125.6 | 219.2 | 199.4 | 282.2 | 1449.1 | 1465.8 | 1456.6 | 649.2 |
| 82.5° | 30.9 | 34.9 | 51.9 | 82.8 | 140.7 | 130.4 | 117.3 | 485.1 | 487.5 | 405.5 | 142.3 |
| 85° | 5.9 | 7.1 | 25.8 | 56.7 | 72.5 | 56.7 | 48.0 | 113.8 | 116.1 | 102.7 | 35.3 |
| 87.5° | 0.0 | 0.4 | 10.3 | 12.7 | 14.3 | 14.7 | 15.5 | 22.2 | 23.8 | 32.1 | 9.5 |
| 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° | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 | 949.7 |
| 2.5° | 954.0 | 939.8 | 912.4 | 880.7 | 856.1 | 832.0 | 812.9 | 793.1 | 786.0 | 782.4 | 782.0 |
| 5° | 963.6 | 933.4 | 875.6 | 816.1 | 767.4 | 721.4 | 688.5 | 657.2 | 642.5 | 635.8 | 633.0 |
| 7.5° | 979.4 | 931.1 | 837.9 | 747.1 | 677.0 | 619.5 | 573.9 | 539.8 | 522.8 | 515.7 | 512.9 |
| 10° | 998.0 | 927.9 | 793.9 | 674.2 | 584.6 | 525.2 | 480.0 | 446.3 | 427.7 | 419.7 | 415.8 |
| 12.5° | 1019.8 | 922.3 | 743.2 | 600.5 | 505.8 | 446.3 | 391.6 | 350.0 | 328.6 | 319.5 | 315.1 |
| 15° | 1046.8 | 916.8 | 690.1 | 531.1 | 436.4 | 363.9 | 304.0 | 275.9 | 271.5 | 269.9 | 270.3 |
| 17.5° | 1073.4 | 908.1 | 632.2 | 462.6 | 363.5 | 284.2 | 253.7 | 252.1 | 252.9 | 252.9 | 252.9 |
| 20° | 1097.1 | 888.3 | 569.2 | 403.9 | 294.1 | 239.8 | 233.5 | 230.7 | 228.7 | 227.1 | 225.1 |
| 22.5° | 1115.8 | 861.7 | 508.5 | 345.6 | 240.2 | 219.6 | 209.7 | 201.0 | 193.8 | 189.1 | 186.7 |
| 25° | 1128.4 | 826.4 | 453.0 | 289.7 | 216.0 | 199.8 | 181.9 | 167.3 | 156.2 | 149.4 | 146.7 |
| 27.5° | 1138.0 | 788.4 | 403.5 | 242.6 | 199.4 | 176.8 | 153.4 | 136.0 | 124.5 | 118.5 | 116.1 |
| 30° | 1144.7 | 745.2 | 359.9 | 213.2 | 180.7 | 152.6 | 127.6 | 110.6 | 102.3 | 99.1 | 97.5 |
| 32.5° | 1151.0 | 697.2 | 318.7 | 199.4 | 163.3 | 130.4 | 107.0 | 93.9 | 88.8 | 84.8 | 83.6 |
| 35° | 1166.9 | 652.8 | 279.4 | 184.7 | 145.5 | 111.4 | 92.0 | 82.4 | 77.3 | 74.9 | 74.1 |
| 37.5° | 1204.5 | 619.9 | 241.8 | 169.6 | 127.6 | 96.3 | 80.5 | 73.7 | 69.0 | 66.6 | 65.8 |
| 40° | 1265.2 | 603.3 | 210.1 | 153.4 | 110.2 | 84.8 | 72.9 | 66.6 | 61.4 | 57.9 | 57.1 |
| 42.5° | 1354.4 | 605.6 | 187.9 | 137.1 | 96.3 | 75.7 | 65.8 | 58.3 | 52.7 | 49.5 | 48.8 |
| 45° | 1462.6 | 623.1 | 172.4 | 121.3 | 84.8 | 68.6 | 57.9 | 49.9 | 44.8 | 42.0 | 41.2 |
| 47.5° | 1579.9 | 651.2 | 159.7 | 107.0 | 75.7 | 61.8 | 49.9 | 41.6 | 37.3 | 34.9 | 34.5 |
| 50° | 1703.6 | 678.6 | 146.7 | 93.1 | 67.8 | 55.1 | 42.0 | 34.5 | 30.9 | 28.9 | 28.1 |
| 52.5° | 1828.8 | 710.3 | 134.8 | 80.5 | 61.0 | 47.2 | 34.9 | 28.1 | 25.4 | 23.8 | 23.0 |
| 55° | 1963.6 | 734.1 | 123.3 | 70.6 | 54.3 | 40.0 | 28.9 | 23.4 | 21.0 | 19.0 | 18.6 |
| 57.5° | 2122.1 | 770.9 | 111.4 | 61.0 | 46.4 | 33.3 | 23.8 | 18.6 | 16.6 | 14.7 | 14.3 |
| 60° | 2336.2 | 814.1 | 98.7 | 53.9 | 38.1 | 27.3 | 19.4 | 15.1 | 12.7 | 11.1 | 10.7 |
| 62.5° | 2618.4 | 862.1 | 82.8 | 47.2 | 30.9 | 22.2 | 15.5 | 11.9 | 9.1 | 7.1 | 7.1 |
| 65° | 2976.3 | 940.2 | 67.8 | 39.6 | 25.4 | 18.2 | 11.9 | 8.7 | 5.2 | 3.2 | 3.2 |
| 67.5° | 3185.2 | 953.7 | 54.7 | 32.5 | 20.6 | 15.5 | 9.9 | 5.9 | 1.6 | 0.4 | 0.0 |
| 69° | 3118.2 | 875.6 | 46.4 | 27.7 | 17.8 | 14.7 | 9.1 | 4.4 | 0.8 | 0.0 | 0.0 |
| 70° | 2992.2 | 800.7 | 40.8 | 24.6 | 16.3 | 13.9 | 8.7 | 3.2 | 0.8 | 0.0 | 0.0 |
| 72.5° | 2472.5 | 570.0 | 30.9 | 18.2 | 11.9 | 12.3 | 7.9 | 2.0 | 0.8 | 0.0 | 0.0 |
| 75° | 1801.1 | 346.4 | 22.2 | 12.7 | 7.5 | 9.1 | 5.5 | 0.8 | 0.4 | 0.0 | 0.0 |
| 77.5° | 1002.0 | 163.3 | 13.9 | 7.1 | 4.8 | 5.5 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 325.4 | 44.4 | 6.3 | 4.0 | 2.8 | 3.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 60.2 | 12.7 | 3.6 | 2.0 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.1 | 5.2 | 2.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.4 | 1.6 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)