

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: P387178

Luminaire Tested: GAW-SA2D-830-U-T2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387178
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-SA2D-830-U-T2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA 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: 9153 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

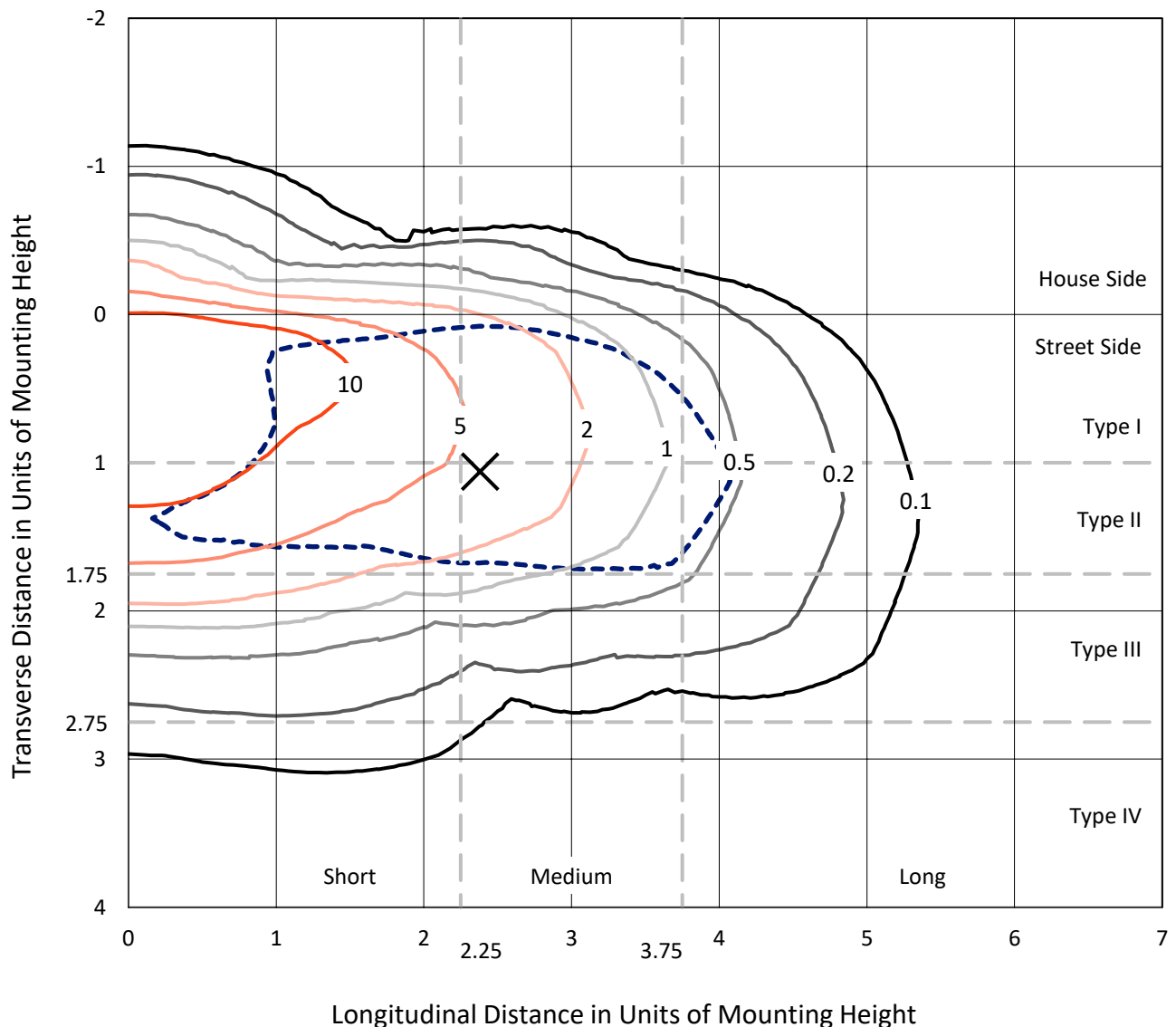
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

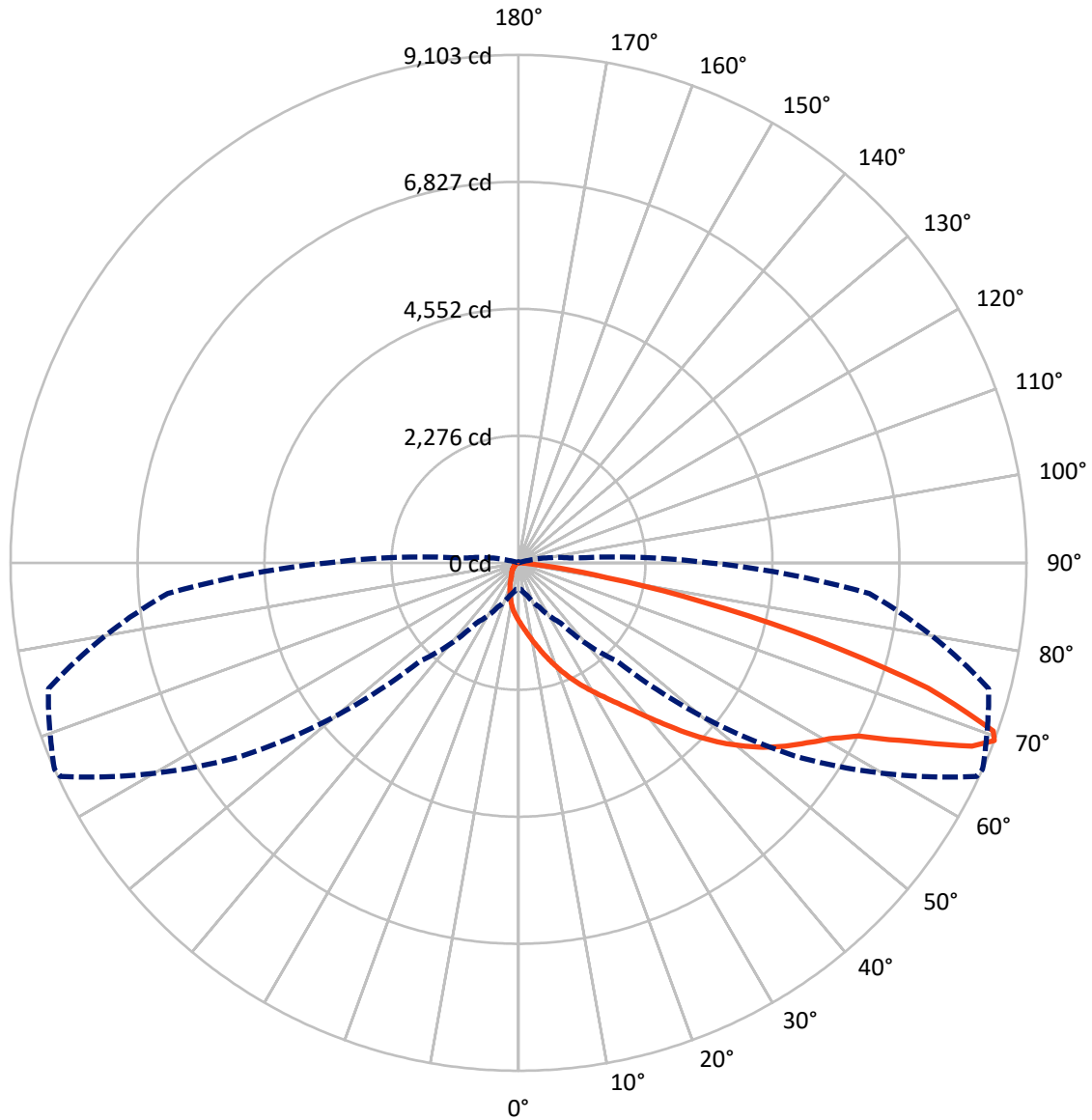
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.2 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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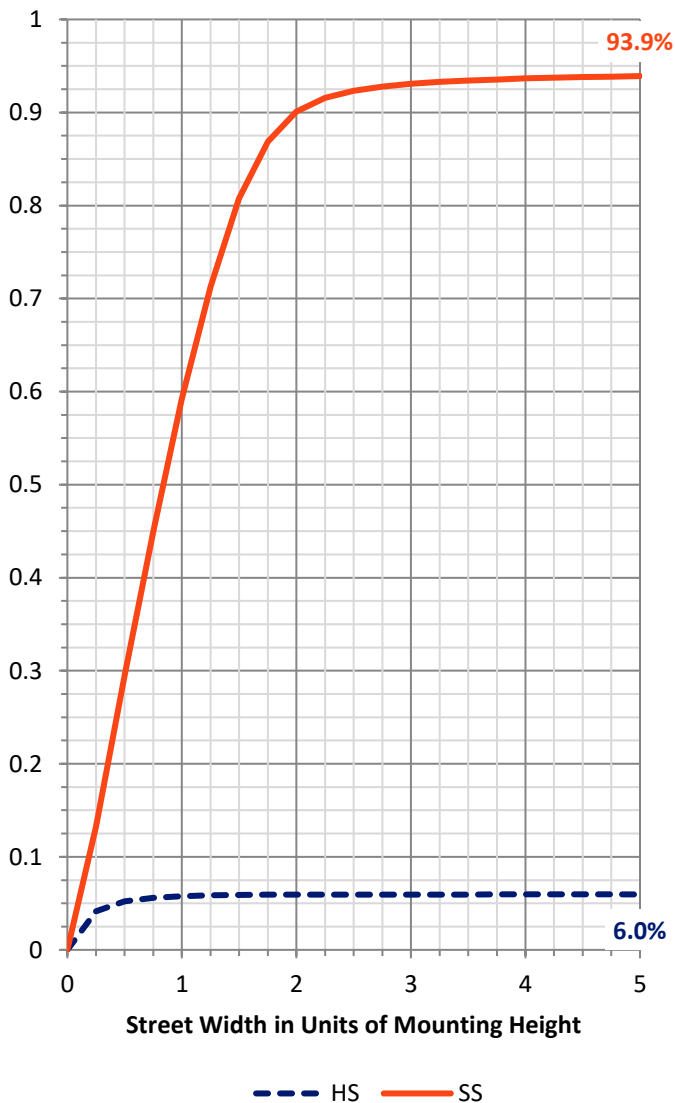
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 549.1 | 0.0 | 549.1 |
| | % Fixture | 6.0 | 0.0 | 6.0 |
| Street Side | Lumens | 8604.0 | 0.0 | 8604.0 |
| | % Fixture | 94.0 | 0.0 | 94.0 |
| Total | Lumens | 9153.0 | 0.0 | 9153.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.7 | 1.1 |
| 10°-20° | 299.7 | 3.3 |
| 20°-30° | 521.8 | 5.7 |
| 30°-40° | 915.6 | 10.0 |
| 40°-50° | 1532.5 | 16.7 |
| 50°-60° | 2252.6 | 24.6 |
| 60°-70° | 2312.9 | 25.3 |
| 70°-80° | 1141.8 | 12.5 |
| 80°-90° | 75.5 | 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° | 9153.0 | 100.0 |
| 0°-180° | 9153.0 | 100.0 |

Coefficient of Utilization

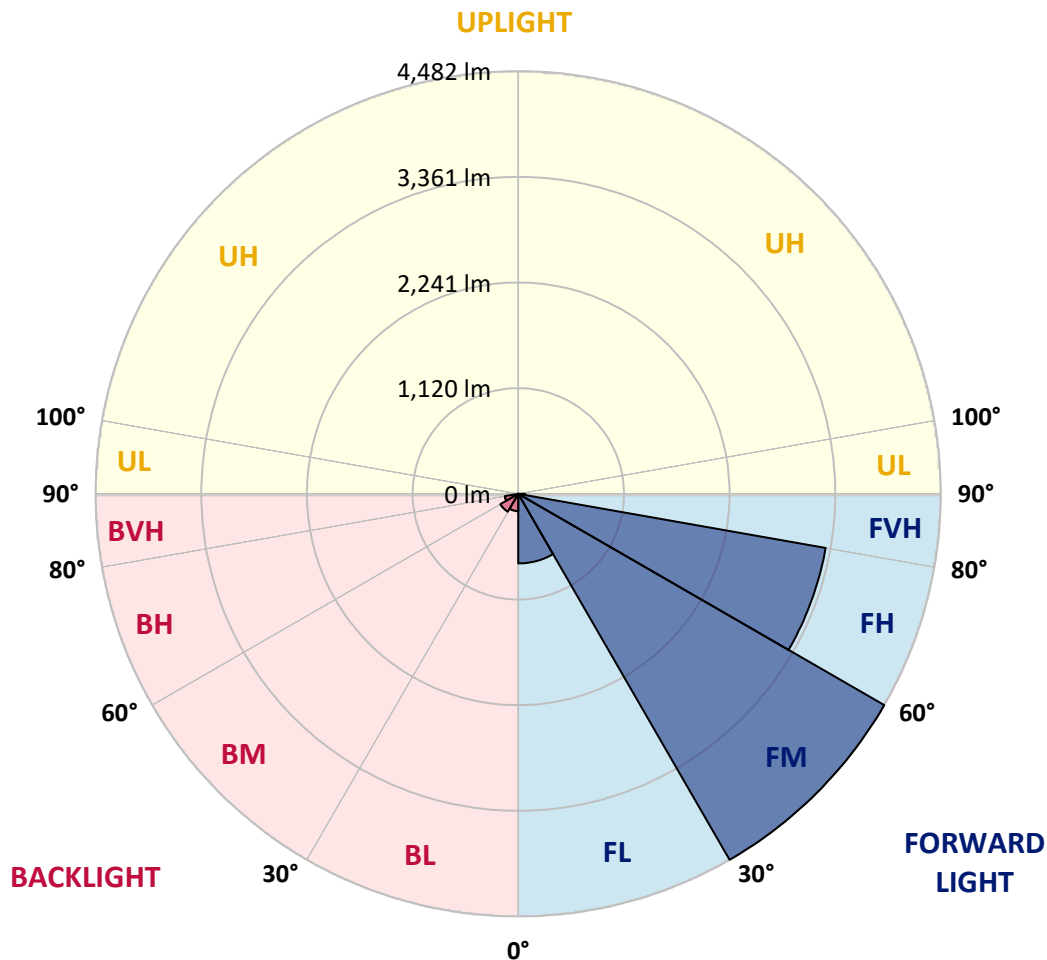


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 738.6 | 8.1 | | | |
| FM (30°-60°) | 4481.7 | 49.0 | | | |
| FH (60°-80°) | 3310.0 | 36.2 | | | G2/5000 |
| FVH (80°-90°) | 73.7 | 0.8 | | | G1/100 |
| BL (0°-30°) | 183.6 | 2.0 | B1/500 | | |
| BM (30°-60°) | 218.9 | 2.4 | B0/220 | | |
| BH (60°-80°) | 144.7 | 1.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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° | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 |
| 2.5° | 1226.0 | 1220.8 | 1218.6 | 1209.0 | 1192.5 | 1179.9 | 1155.5 | 1127.3 | 1122.1 | 1094.7 | 1061.2 |
| 5° | 1385.1 | 1380.7 | 1377.7 | 1364.2 | 1347.3 | 1315.5 | 1271.2 | 1218.6 | 1208.6 | 1156.4 | 1089.5 |
| 7.5° | 1495.9 | 1503.8 | 1503.8 | 1495.1 | 1473.8 | 1449.9 | 1395.5 | 1323.8 | 1311.2 | 1231.2 | 1127.3 |
| 10° | 1560.7 | 1570.3 | 1577.7 | 1585.1 | 1582.0 | 1572.5 | 1521.2 | 1440.3 | 1425.1 | 1319.0 | 1171.2 |
| 12.5° | 1566.8 | 1576.4 | 1597.2 | 1628.1 | 1658.1 | 1679.8 | 1647.7 | 1569.4 | 1552.0 | 1420.7 | 1223.4 |
| 15° | 1532.9 | 1542.9 | 1575.1 | 1635.1 | 1707.7 | 1771.1 | 1781.6 | 1712.4 | 1694.6 | 1542.0 | 1288.6 |
| 17.5° | 1473.8 | 1480.3 | 1526.4 | 1609.4 | 1723.3 | 1839.8 | 1902.9 | 1865.9 | 1849.4 | 1680.7 | 1361.2 |
| 20° | 1429.9 | 1434.6 | 1475.1 | 1564.2 | 1713.8 | 1882.9 | 2017.6 | 2028.9 | 2011.5 | 1829.4 | 1439.9 |
| 22.5° | 1505.1 | 1513.8 | 1515.1 | 1557.2 | 1687.7 | 1904.2 | 2118.5 | 2189.4 | 2176.3 | 1987.2 | 1517.2 |
| 25° | 1710.7 | 1720.7 | 1687.7 | 1661.6 | 1709.8 | 1913.7 | 2205.0 | 2353.7 | 2343.3 | 2157.2 | 1595.1 |
| 27.5° | 1982.4 | 1992.9 | 1950.3 | 1872.4 | 1825.9 | 1949.8 | 2282.0 | 2520.6 | 2520.2 | 2337.2 | 1679.0 |
| 30° | 2249.4 | 2259.8 | 2216.3 | 2138.5 | 2031.5 | 2052.0 | 2348.5 | 2695.4 | 2698.0 | 2522.8 | 1768.1 |
| 32.5° | 2529.3 | 2542.4 | 2497.6 | 2397.6 | 2285.9 | 2228.5 | 2441.9 | 2871.0 | 2885.8 | 2738.0 | 1868.5 |
| 35° | 2847.6 | 2849.3 | 2786.3 | 2681.5 | 2552.8 | 2464.5 | 2591.9 | 3068.0 | 3103.2 | 3004.5 | 1995.9 |
| 37.5° | 3159.7 | 3172.3 | 3120.6 | 2955.4 | 2837.1 | 2737.1 | 2815.0 | 3314.0 | 3364.0 | 3330.1 | 2162.4 |
| 40° | 3391.0 | 3417.5 | 3410.1 | 3231.9 | 3119.7 | 3048.4 | 3091.9 | 3606.6 | 3670.1 | 3709.2 | 2372.4 |
| 42.5° | 3536.2 | 3556.2 | 3590.1 | 3482.7 | 3381.0 | 3392.7 | 3418.8 | 3947.5 | 4025.7 | 4141.3 | 2613.7 |
| 45° | 3702.7 | 3712.3 | 3740.5 | 3693.1 | 3624.4 | 3742.7 | 3765.7 | 4331.3 | 4413.5 | 4606.1 | 2881.5 |
| 47.5° | 3906.2 | 3928.8 | 3936.6 | 3893.1 | 3861.8 | 4052.2 | 4100.0 | 4680.4 | 4795.6 | 5103.9 | 3164.9 |
| 50° | 4165.3 | 4171.3 | 4184.8 | 4156.6 | 4125.3 | 4318.3 | 4400.0 | 5046.9 | 5151.7 | 5603.4 | 3444.5 |
| 52.5° | 4418.7 | 4440.5 | 4487.4 | 4469.6 | 4457.0 | 4544.8 | 4667.4 | 5377.3 | 5494.3 | 6019.9 | 3723.6 |
| 55° | 4491.7 | 4510.4 | 4672.6 | 4783.5 | 4886.1 | 4823.9 | 4923.0 | 5673.4 | 5799.9 | 6392.0 | 3992.2 |
| 57.5° | 4200.0 | 4237.9 | 4518.7 | 4807.4 | 5233.0 | 5257.8 | 5274.3 | 5977.3 | 6090.7 | 6677.2 | 4271.8 |
| 60° | 3462.7 | 3470.1 | 3930.9 | 4426.1 | 5175.6 | 5636.4 | 5787.3 | 6303.8 | 6399.0 | 6942.8 | 4606.5 |
| 62.5° | 2202.4 | 2277.6 | 2783.2 | 3482.3 | 4568.7 | 5581.6 | 6407.7 | 6797.6 | 6832.4 | 7261.5 | 5086.5 |
| 65° | 1049.0 | 1097.7 | 1462.0 | 2151.5 | 3309.3 | 4880.4 | 6835.9 | 7691.0 | 7706.7 | 7893.2 | 5727.7 |
| 67.5° | 580.8 | 604.3 | 777.8 | 1158.2 | 1934.6 | 3451.4 | 6662.8 | 8749.2 | 8764.0 | 8538.3 | 6290.3 |
| 69° | 454.3 | 474.3 | 610.8 | 873.0 | 1311.6 | 2480.6 | 6029.4 | 9059.1 | 9103.1 | 8723.1 | 6310.3 |
| 70° | 385.6 | 405.2 | 526.0 | 737.3 | 1054.7 | 1916.8 | 5366.9 | 8982.2 | 9028.7 | 8705.7 | 6161.2 |
| 72.5° | 236.1 | 247.4 | 350.4 | 519.1 | 706.9 | 964.3 | 3309.7 | 7596.2 | 7674.9 | 7985.8 | 5295.2 |
| 75° | 159.1 | 165.2 | 219.1 | 358.2 | 505.6 | 496.5 | 1719.4 | 5354.3 | 5524.7 | 6212.0 | 3910.9 |
| 77.5° | 113.9 | 119.6 | 146.9 | 231.7 | 354.3 | 327.8 | 778.6 | 3327.5 | 3364.0 | 3725.7 | 2132.8 |
| 80° | 64.8 | 70.0 | 103.9 | 137.8 | 240.4 | 218.7 | 309.5 | 1589.4 | 1607.7 | 1597.7 | 712.1 |
| 82.5° | 33.9 | 38.3 | 57.0 | 90.9 | 154.3 | 143.0 | 128.7 | 532.1 | 534.7 | 444.7 | 156.1 |
| 85° | 6.5 | 7.8 | 28.3 | 62.2 | 79.6 | 62.2 | 52.6 | 124.8 | 127.4 | 112.6 | 38.7 |
| 87.5° | 0.0 | 0.4 | 11.3 | 13.9 | 15.7 | 16.1 | 17.0 | 24.3 | 26.1 | 35.2 | 10.4 |
| 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° | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 | 1041.6 |
| 2.5° | 1046.4 | 1030.8 | 1000.8 | 966.0 | 939.0 | 912.5 | 891.7 | 869.9 | 862.1 | 858.2 | 857.7 |
| 5° | 1056.9 | 1023.8 | 960.3 | 895.1 | 841.7 | 791.2 | 755.1 | 720.8 | 704.7 | 697.3 | 694.3 |
| 7.5° | 1074.2 | 1021.2 | 919.0 | 819.5 | 742.5 | 679.5 | 629.5 | 592.1 | 573.4 | 565.6 | 562.6 |
| 10° | 1094.7 | 1017.7 | 870.8 | 739.5 | 641.2 | 576.0 | 526.5 | 489.5 | 469.1 | 460.4 | 456.0 |
| 12.5° | 1118.6 | 1011.6 | 815.1 | 658.6 | 554.7 | 489.5 | 429.5 | 383.9 | 360.4 | 350.4 | 345.6 |
| 15° | 1148.2 | 1005.6 | 756.9 | 582.6 | 478.7 | 399.1 | 333.4 | 302.6 | 297.8 | 296.1 | 296.5 |
| 17.5° | 1177.3 | 996.0 | 693.4 | 507.3 | 398.7 | 311.7 | 278.2 | 276.5 | 277.4 | 277.4 | 277.4 |
| 20° | 1203.4 | 974.3 | 624.3 | 443.0 | 322.6 | 263.0 | 256.1 | 253.0 | 250.8 | 249.1 | 246.9 |
| 22.5° | 1223.8 | 945.1 | 557.8 | 379.1 | 263.5 | 240.8 | 230.0 | 220.4 | 212.6 | 207.4 | 204.8 |
| 25° | 1237.7 | 906.4 | 496.9 | 317.8 | 236.9 | 219.1 | 199.5 | 183.5 | 171.3 | 163.9 | 160.9 |
| 27.5° | 1248.1 | 864.7 | 442.6 | 266.1 | 218.7 | 193.9 | 168.2 | 149.1 | 136.5 | 130.0 | 127.4 |
| 30° | 1255.5 | 817.3 | 394.7 | 233.9 | 198.2 | 167.4 | 140.0 | 121.3 | 112.2 | 108.7 | 106.9 |
| 32.5° | 1262.5 | 764.7 | 349.5 | 218.7 | 179.1 | 143.0 | 117.4 | 103.0 | 97.4 | 93.0 | 91.7 |
| 35° | 1279.9 | 716.0 | 306.5 | 202.6 | 159.6 | 122.2 | 100.9 | 90.4 | 84.8 | 82.2 | 81.3 |
| 37.5° | 1321.2 | 679.9 | 265.2 | 186.1 | 140.0 | 105.6 | 88.3 | 80.9 | 75.6 | 73.0 | 72.2 |
| 40° | 1387.7 | 661.7 | 230.4 | 168.2 | 120.9 | 93.0 | 80.0 | 73.0 | 67.4 | 63.5 | 62.6 |
| 42.5° | 1485.5 | 664.3 | 206.1 | 150.4 | 105.6 | 83.0 | 72.2 | 63.9 | 57.8 | 54.3 | 53.5 |
| 45° | 1604.2 | 683.4 | 189.1 | 133.0 | 93.0 | 75.2 | 63.5 | 54.8 | 49.1 | 46.1 | 45.2 |
| 47.5° | 1732.9 | 714.3 | 175.2 | 117.4 | 83.0 | 67.8 | 54.8 | 45.6 | 40.9 | 38.3 | 37.8 |
| 50° | 1868.5 | 744.3 | 160.9 | 102.2 | 74.3 | 60.4 | 46.1 | 37.8 | 33.9 | 31.7 | 30.9 |
| 52.5° | 2005.9 | 779.1 | 147.8 | 88.3 | 67.0 | 51.7 | 38.3 | 30.9 | 27.8 | 26.1 | 25.2 |
| 55° | 2153.7 | 805.1 | 135.2 | 77.4 | 59.6 | 43.9 | 31.7 | 25.6 | 23.0 | 20.9 | 20.4 |
| 57.5° | 2327.6 | 845.6 | 122.2 | 67.0 | 50.9 | 36.5 | 26.1 | 20.4 | 18.3 | 16.1 | 15.7 |
| 60° | 2562.4 | 893.0 | 108.3 | 59.1 | 41.7 | 30.0 | 21.3 | 16.5 | 13.9 | 12.2 | 11.7 |
| 62.5° | 2871.9 | 945.6 | 90.9 | 51.7 | 33.9 | 24.3 | 17.0 | 13.0 | 10.0 | 7.8 | 7.8 |
| 65° | 3264.5 | 1031.2 | 74.3 | 43.5 | 27.8 | 20.0 | 13.0 | 9.6 | 5.7 | 3.5 | 3.5 |
| 67.5° | 3493.6 | 1046.0 | 60.0 | 35.6 | 22.6 | 17.0 | 10.9 | 6.5 | 1.7 | 0.4 | 0.0 |
| 69° | 3420.1 | 960.3 | 50.9 | 30.4 | 19.6 | 16.1 | 10.0 | 4.8 | 0.9 | 0.0 | 0.0 |
| 70° | 3281.9 | 878.2 | 44.8 | 27.0 | 17.8 | 15.2 | 9.6 | 3.5 | 0.9 | 0.0 | 0.0 |
| 72.5° | 2711.9 | 625.2 | 33.9 | 20.0 | 13.0 | 13.5 | 8.7 | 2.2 | 0.9 | 0.0 | 0.0 |
| 75° | 1975.5 | 380.0 | 24.3 | 13.9 | 8.3 | 10.0 | 6.1 | 0.9 | 0.4 | 0.0 | 0.0 |
| 77.5° | 1099.0 | 179.1 | 15.2 | 7.8 | 5.2 | 6.1 | 3.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 356.9 | 48.7 | 7.0 | 4.3 | 3.0 | 3.5 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 66.1 | 13.9 | 3.9 | 2.2 | 0.9 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 14.3 | 5.7 | 2.2 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.8 | 1.7 | 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)