

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: P386221

Luminaire Tested: GAW-SA1D-760-U-SL4

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-760-U-SL4
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7873 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

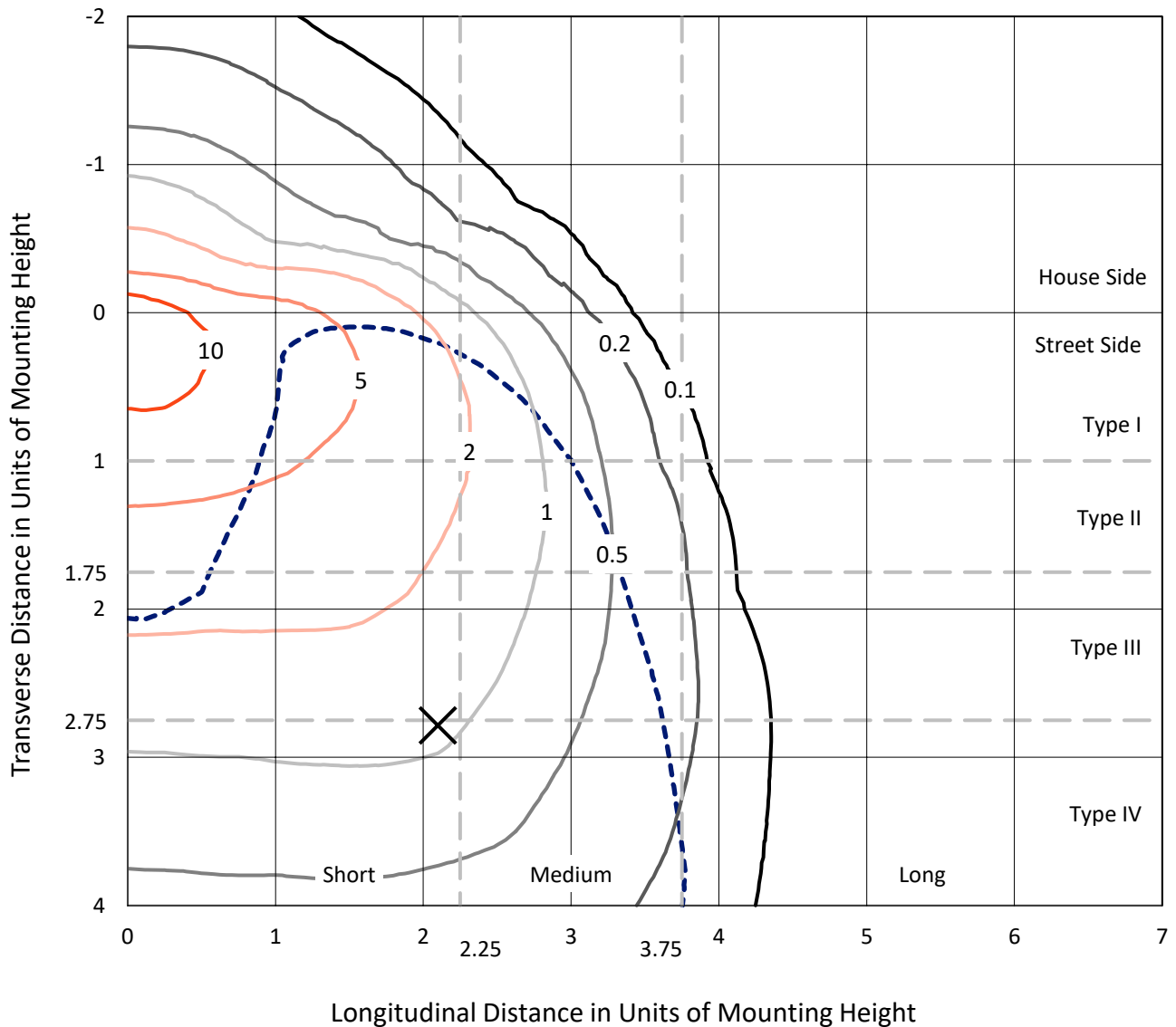
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

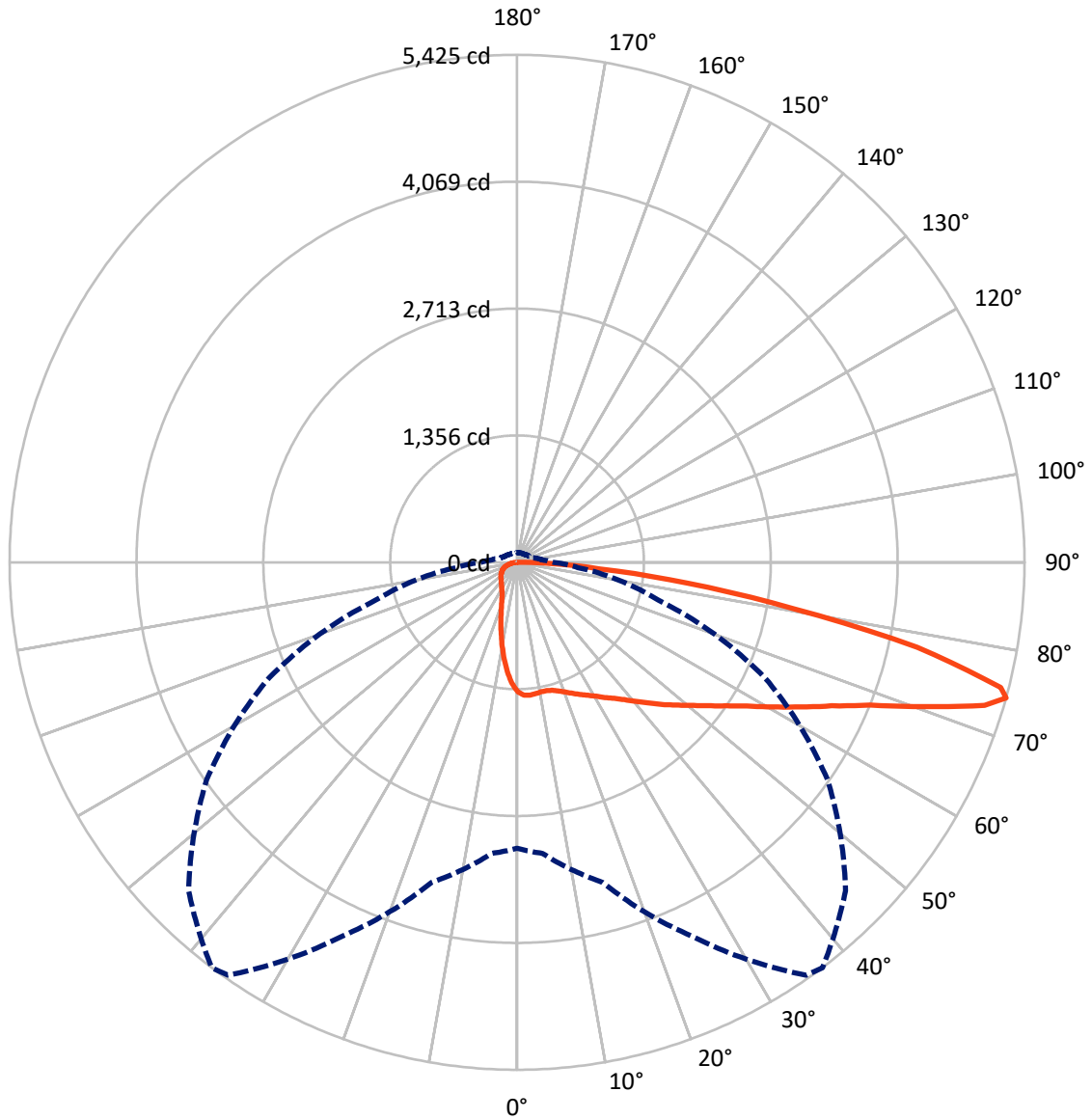
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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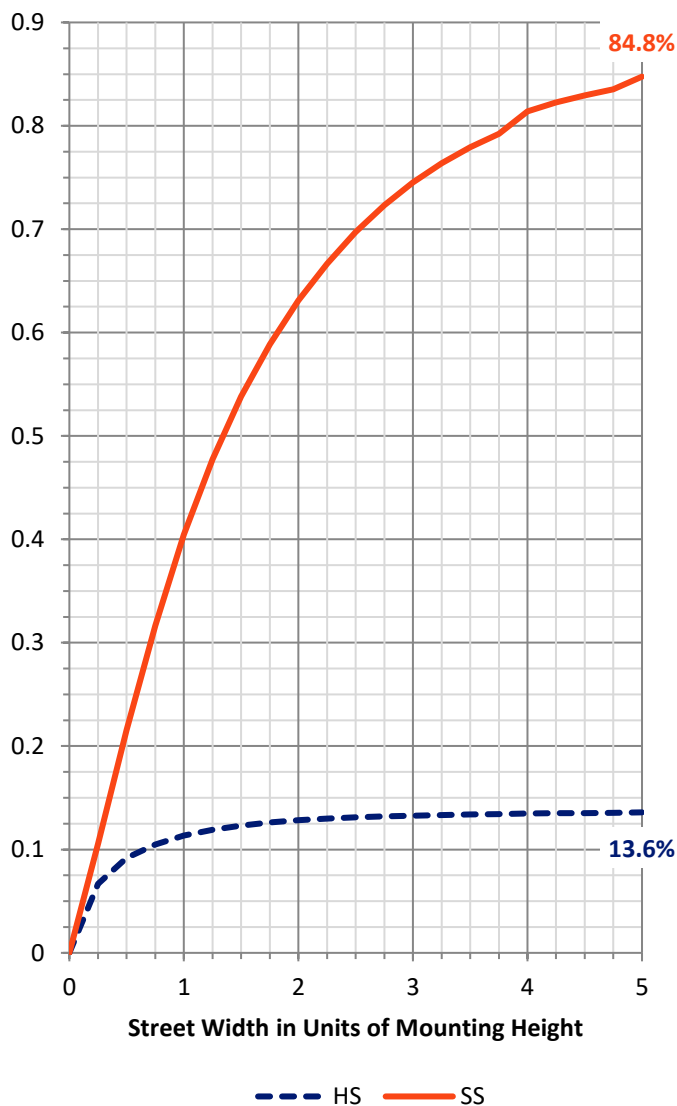
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1083.3 | 0.0 | 1083.3 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 6789.7 | 0.0 | 6789.7 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 7873.0 | 0.0 | 7873.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.2 | 1.6 |
| 10°-20° | 313.1 | 4.0 |
| 20°-30° | 482.5 | 6.1 |
| 30°-40° | 701.6 | 8.9 |
| 40°-50° | 1032.6 | 13.1 |
| 50°-60° | 1450.1 | 18.4 |
| 60°-70° | 1835.4 | 23.3 |
| 70°-80° | 1616.1 | 20.5 |
| 80°-90° | 319.5 | 4.1 |
| 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° | 7873.0 | 100.0 |
| 0°-180° | 7873.0 | 100.0 |

Coefficient of Utilization

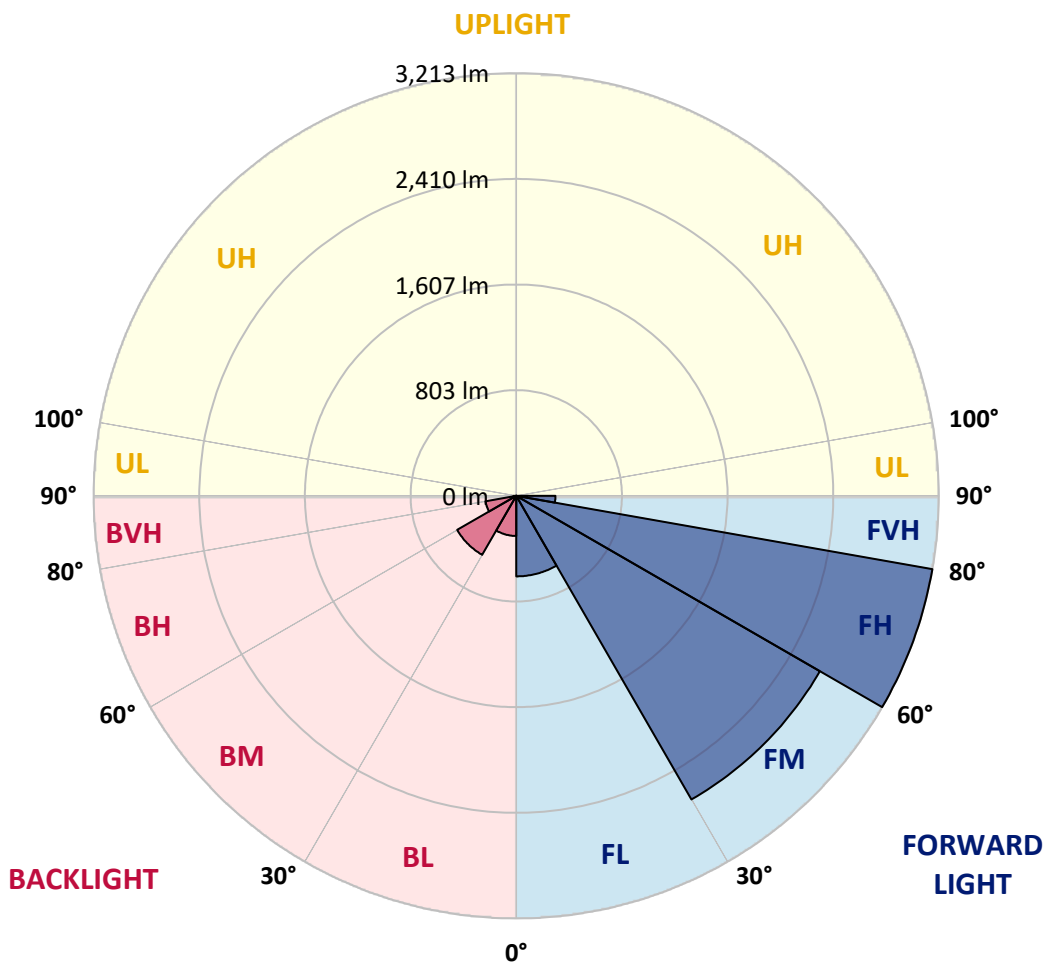


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 612.6 | 7.8 | | | |
| FM (30°-60°) | 2665.9 | 33.9 | | | |
| FH (60°-80°) | 3213.4 | 40.8 | | | G2/5000 |
| FVH (80°-90°) | 297.9 | 3.8 | | | G3/500 |
| BL (0°-30°) | 305.1 | 3.9 | B1/500 | | |
| BM (30°-60°) | 518.4 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 238.1 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 21.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 |
| 2.5° | 1434.6 | 1434.9 | 1434.6 | 1432.4 | 1427.1 | 1422.7 | 1419.1 | 1413.8 | 1402.2 | 1393.3 | 1380.0 |
| 5° | 1448.2 | 1446.5 | 1445.4 | 1441.3 | 1433.0 | 1428.0 | 1421.0 | 1411.0 | 1391.9 | 1374.2 | 1352.5 |
| 7.5° | 1441.8 | 1439.9 | 1437.4 | 1432.4 | 1423.0 | 1418.8 | 1409.1 | 1396.1 | 1373.0 | 1349.8 | 1318.7 |
| 10° | 1422.1 | 1421.6 | 1420.5 | 1419.4 | 1411.3 | 1408.0 | 1399.1 | 1385.3 | 1362.5 | 1334.2 | 1297.9 |
| 12.5° | 1400.2 | 1401.6 | 1406.1 | 1411.9 | 1408.3 | 1406.6 | 1401.1 | 1391.6 | 1368.3 | 1337.8 | 1294.0 |
| 15° | 1386.4 | 1390.2 | 1402.2 | 1417.4 | 1420.5 | 1419.9 | 1418.5 | 1412.4 | 1387.7 | 1353.9 | 1302.9 |
| 17.5° | 1381.6 | 1388.0 | 1410.8 | 1436.0 | 1444.9 | 1446.8 | 1447.4 | 1436.8 | 1409.4 | 1373.6 | 1312.0 |
| 20° | 1390.2 | 1398.3 | 1431.6 | 1466.2 | 1480.4 | 1481.5 | 1479.0 | 1460.7 | 1429.9 | 1390.5 | 1317.0 |
| 22.5° | 1416.3 | 1423.5 | 1465.1 | 1504.2 | 1520.3 | 1522.0 | 1514.5 | 1486.8 | 1451.5 | 1410.5 | 1324.0 |
| 25° | 1466.5 | 1475.4 | 1517.0 | 1556.1 | 1564.4 | 1564.7 | 1553.9 | 1519.5 | 1479.8 | 1438.5 | 1338.9 |
| 27.5° | 1532.0 | 1540.8 | 1578.3 | 1616.5 | 1612.1 | 1609.6 | 1594.9 | 1560.5 | 1516.7 | 1477.0 | 1365.6 |
| 30° | 1604.9 | 1614.6 | 1650.1 | 1677.3 | 1666.7 | 1661.7 | 1649.8 | 1605.4 | 1568.0 | 1529.7 | 1406.3 |
| 32.5° | 1680.3 | 1689.2 | 1720.3 | 1738.8 | 1725.5 | 1723.3 | 1705.3 | 1664.8 | 1634.8 | 1610.2 | 1472.3 |
| 35° | 1757.7 | 1764.1 | 1794.6 | 1805.1 | 1787.4 | 1786.8 | 1781.8 | 1744.7 | 1725.8 | 1737.5 | 1568.3 |
| 37.5° | 1836.7 | 1838.4 | 1864.5 | 1865.0 | 1859.8 | 1862.0 | 1867.2 | 1844.0 | 1849.2 | 1885.5 | 1693.1 |
| 40° | 1907.2 | 1911.6 | 1930.5 | 1936.3 | 1945.5 | 1953.2 | 1979.6 | 1964.3 | 2005.1 | 2069.4 | 1848.4 |
| 42.5° | 1959.3 | 1967.9 | 1998.1 | 2013.1 | 2042.8 | 2055.0 | 2092.2 | 2106.3 | 2188.4 | 2284.9 | 2033.1 |
| 45° | 2003.4 | 2016.7 | 2065.3 | 2096.0 | 2146.2 | 2167.6 | 2220.8 | 2268.3 | 2395.6 | 2518.7 | 2227.5 |
| 47.5° | 2051.1 | 2068.0 | 2128.8 | 2187.6 | 2255.8 | 2279.9 | 2376.7 | 2447.7 | 2616.6 | 2753.9 | 2410.8 |
| 50° | 2121.3 | 2134.3 | 2193.7 | 2286.0 | 2371.2 | 2402.2 | 2536.2 | 2637.9 | 2841.2 | 2977.9 | 2569.7 |
| 52.5° | 2219.2 | 2214.2 | 2264.4 | 2393.9 | 2508.1 | 2546.4 | 2706.4 | 2840.4 | 3068.9 | 3180.7 | 2703.9 |
| 55° | 2317.6 | 2309.3 | 2344.5 | 2506.8 | 2667.9 | 2708.1 | 2893.9 | 3043.7 | 3285.5 | 3363.2 | 2806.8 |
| 57.5° | 2427.2 | 2411.4 | 2441.0 | 2634.1 | 2849.8 | 2897.8 | 3103.8 | 3259.7 | 3498.5 | 3510.7 | 2872.3 |
| 60° | 2540.0 | 2518.7 | 2552.0 | 2791.9 | 3080.8 | 3137.4 | 3349.6 | 3470.5 | 3699.3 | 3628.8 | 2893.4 |
| 62.5° | 2638.8 | 2623.8 | 2675.1 | 2968.0 | 3341.2 | 3403.4 | 3590.8 | 3694.6 | 3897.3 | 3677.9 | 2817.4 |
| 65° | 2725.0 | 2727.5 | 2816.3 | 3166.0 | 3631.6 | 3697.9 | 3867.6 | 3970.8 | 4053.1 | 3648.8 | 2639.6 |
| 67.5° | 2827.9 | 2842.1 | 2993.5 | 3426.7 | 3997.1 | 4069.8 | 4270.3 | 4272.0 | 4140.2 | 3478.0 | 2289.6 |
| 70° | 2977.9 | 3007.1 | 3237.2 | 3788.3 | 4516.8 | 4616.7 | 4771.4 | 4448.9 | 4017.9 | 3014.8 | 1801.5 |
| 72.5° | 3111.1 | 3165.4 | 3496.5 | 4202.1 | 5150.2 | 5226.0 | 5064.6 | 4346.8 | 3506.8 | 2259.4 | 1122.3 |
| 74° | 3057.0 | 3124.4 | 3543.7 | 4405.9 | 5388.8 | 5425.1 | 4965.5 | 4049.0 | 2923.9 | 1564.7 | 652.3 |
| 75° | 2940.5 | 3013.7 | 3474.9 | 4404.0 | 5358.5 | 5338.3 | 4726.5 | 3708.7 | 2408.0 | 1067.2 | 434.0 |
| 77.5° | 2373.1 | 2450.5 | 2928.0 | 3774.4 | 4393.7 | 4374.6 | 3630.8 | 2487.9 | 1054.7 | 350.0 | 220.5 |
| 80° | 1379.7 | 1438.8 | 1817.6 | 2396.9 | 2962.7 | 2997.4 | 2387.8 | 1231.1 | 414.9 | 196.6 | 149.5 |
| 82.5° | 612.9 | 653.7 | 878.0 | 1223.6 | 1787.9 | 1832.6 | 1250.5 | 645.1 | 256.3 | 119.5 | 89.9 |
| 85° | 402.1 | 432.4 | 533.0 | 582.7 | 851.4 | 881.9 | 612.1 | 502.2 | 169.2 | 65.7 | 66.0 |
| 87.5° | 289.3 | 318.4 | 396.0 | 345.8 | 390.8 | 370.0 | 333.1 | 464.8 | 67.9 | 37.4 | 22.2 |
| 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° | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 | 1387.2 |
| 2.5° | 1374.2 | 1369.7 | 1359.7 | 1340.9 | 1330.3 | 1321.5 | 1306.8 | 1298.2 | 1294.3 | 1294.0 | 1295.7 |
| 5° | 1340.0 | 1329.8 | 1304.0 | 1272.4 | 1247.1 | 1224.1 | 1195.6 | 1178.4 | 1166.2 | 1159.0 | 1160.9 |
| 7.5° | 1300.4 | 1284.3 | 1243.8 | 1193.3 | 1152.9 | 1108.2 | 1064.1 | 1037.8 | 1017.2 | 1002.0 | 1004.8 |
| 10° | 1273.2 | 1251.0 | 1192.0 | 1119.3 | 1051.9 | 987.0 | 926.3 | 889.9 | 861.1 | 838.9 | 840.6 |
| 12.5° | 1264.1 | 1234.1 | 1152.3 | 1055.2 | 960.7 | 871.9 | 792.6 | 736.9 | 707.2 | 681.9 | 683.9 |
| 15° | 1265.4 | 1225.2 | 1119.0 | 997.5 | 878.6 | 766.8 | 670.6 | 605.4 | 565.2 | 547.7 | 548.0 |
| 17.5° | 1266.6 | 1215.0 | 1084.1 | 935.7 | 797.3 | 668.6 | 564.1 | 498.1 | 460.1 | 444.0 | 444.3 |
| 20° | 1262.9 | 1198.3 | 1040.8 | 864.7 | 712.5 | 578.5 | 477.3 | 421.3 | 392.4 | 379.9 | 379.9 |
| 22.5° | 1258.2 | 1178.6 | 992.0 | 793.4 | 628.7 | 500.3 | 415.2 | 372.5 | 355.8 | 347.5 | 347.2 |
| 25° | 1260.5 | 1163.9 | 942.1 | 720.2 | 551.6 | 437.9 | 373.8 | 345.6 | 334.5 | 329.2 | 328.9 |
| 27.5° | 1272.4 | 1157.0 | 896.0 | 647.3 | 484.2 | 391.0 | 346.1 | 326.1 | 318.9 | 315.6 | 315.6 |
| 30° | 1294.0 | 1157.0 | 848.1 | 585.2 | 428.2 | 356.4 | 324.8 | 311.2 | 306.2 | 304.0 | 304.0 |
| 32.5° | 1331.7 | 1163.4 | 801.8 | 523.6 | 383.5 | 329.2 | 307.0 | 297.8 | 294.0 | 292.9 | 292.9 |
| 35° | 1396.6 | 1185.0 | 756.5 | 465.4 | 347.5 | 307.0 | 290.1 | 284.8 | 282.0 | 281.8 | 282.6 |
| 37.5° | 1487.9 | 1229.1 | 714.1 | 422.4 | 322.0 | 289.0 | 275.9 | 271.8 | 270.1 | 271.5 | 272.6 |
| 40° | 1602.7 | 1289.0 | 675.6 | 383.5 | 302.6 | 274.6 | 262.9 | 260.1 | 259.3 | 261.2 | 262.9 |
| 42.5° | 1741.3 | 1370.0 | 644.0 | 355.5 | 287.6 | 262.4 | 251.8 | 248.5 | 247.7 | 249.9 | 252.1 |
| 45° | 1891.4 | 1457.1 | 621.8 | 334.7 | 275.9 | 253.2 | 242.1 | 238.5 | 236.8 | 237.9 | 240.4 |
| 47.5° | 2027.8 | 1539.4 | 612.9 | 320.0 | 264.8 | 245.4 | 233.5 | 229.1 | 226.3 | 225.7 | 227.7 |
| 50° | 2142.9 | 1600.7 | 617.1 | 311.2 | 256.0 | 236.8 | 225.2 | 220.2 | 216.0 | 213.5 | 214.9 |
| 52.5° | 2226.7 | 1639.3 | 620.9 | 307.3 | 249.0 | 227.4 | 216.0 | 211.3 | 205.8 | 201.6 | 201.6 |
| 55° | 2287.4 | 1648.2 | 612.3 | 304.2 | 243.8 | 217.1 | 205.8 | 201.3 | 195.8 | 191.1 | 190.5 |
| 57.5° | 2311.2 | 1623.2 | 580.4 | 299.8 | 240.2 | 207.4 | 195.0 | 191.6 | 186.9 | 181.4 | 181.1 |
| 60° | 2279.1 | 1546.1 | 518.9 | 290.4 | 235.5 | 199.4 | 184.1 | 181.9 | 179.7 | 174.4 | 174.2 |
| 62.5° | 2149.8 | 1376.9 | 439.3 | 271.2 | 226.0 | 190.8 | 174.2 | 175.3 | 175.5 | 171.9 | 171.4 |
| 65° | 1915.5 | 1144.5 | 361.6 | 246.3 | 211.9 | 180.5 | 163.9 | 169.2 | 172.2 | 171.7 | 170.8 |
| 67.5° | 1574.9 | 890.8 | 306.4 | 219.9 | 193.3 | 166.4 | 152.8 | 158.9 | 161.4 | 163.3 | 162.8 |
| 70° | 1168.9 | 628.1 | 253.5 | 192.2 | 170.8 | 149.8 | 138.4 | 141.4 | 139.8 | 142.0 | 142.8 |
| 72.5° | 651.7 | 376.9 | 206.6 | 164.5 | 147.5 | 130.3 | 122.3 | 121.7 | 118.1 | 118.1 | 118.1 |
| 74° | 391.0 | 276.5 | 181.6 | 147.3 | 133.4 | 117.6 | 110.7 | 108.2 | 104.8 | 105.1 | 104.8 |
| 75° | 314.5 | 237.7 | 166.7 | 135.9 | 123.4 | 110.1 | 103.2 | 99.8 | 97.3 | 97.3 | 97.1 |
| 77.5° | 198.6 | 180.5 | 134.2 | 108.2 | 98.7 | 90.7 | 86.0 | 81.5 | 81.5 | 81.3 | 81.0 |
| 80° | 150.0 | 143.7 | 104.6 | 81.8 | 75.7 | 69.6 | 66.6 | 64.6 | 64.6 | 65.4 | 65.2 |
| 82.5° | 102.9 | 108.2 | 73.5 | 57.1 | 54.1 | 49.6 | 49.1 | 49.4 | 48.5 | 47.4 | 47.1 |
| 85° | 75.2 | 81.3 | 49.6 | 36.1 | 33.0 | 30.2 | 32.4 | 33.6 | 32.2 | 29.7 | 28.6 |
| 87.5° | 28.8 | 53.2 | 26.6 | 15.0 | 13.9 | 11.9 | 13.9 | 14.4 | 15.5 | 12.2 | 12.5 |
| 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)