

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: P386283

Luminaire Tested: GAW-SA1D-830-U-T2

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1D-830-U-T2
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6461 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

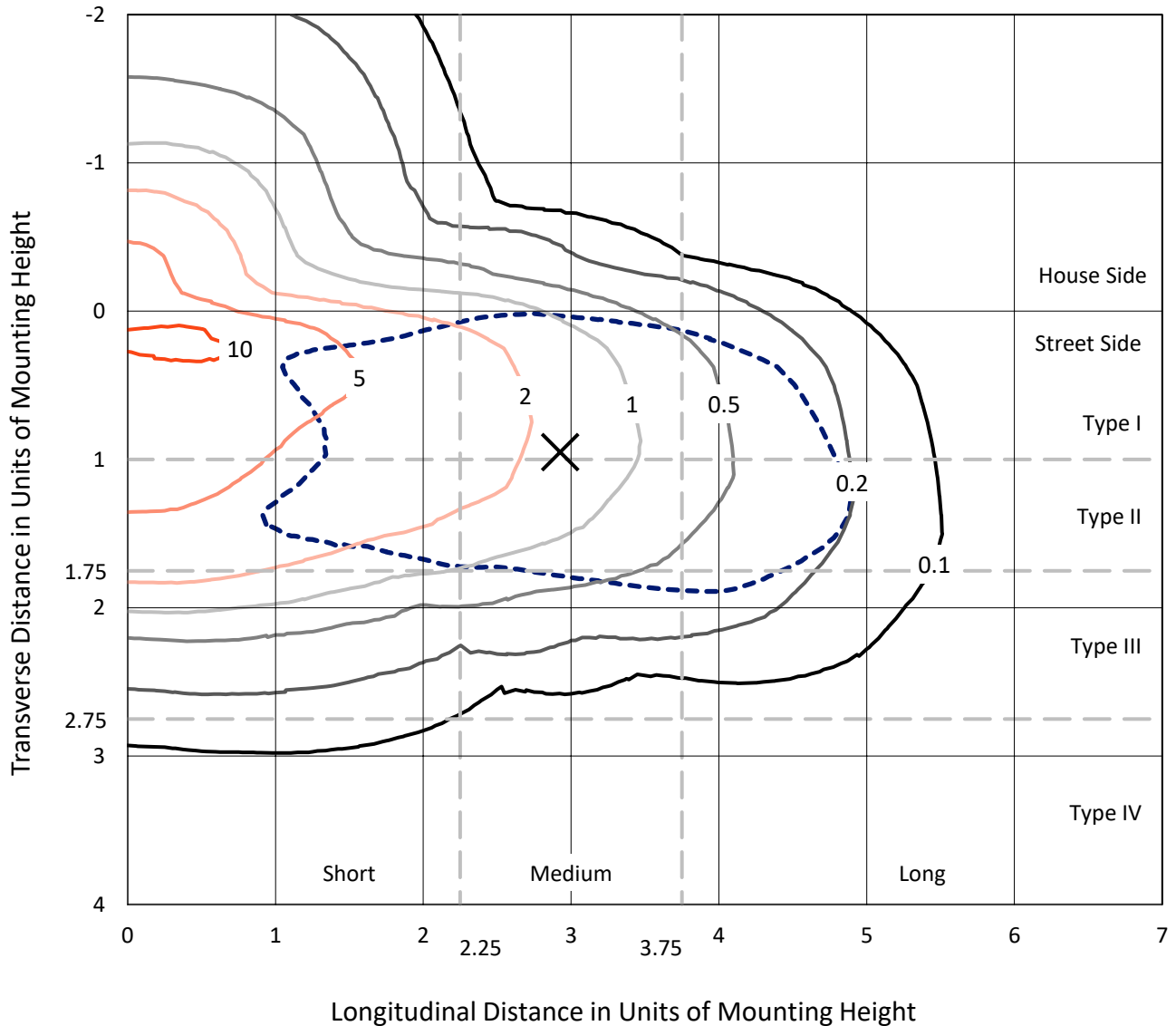
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

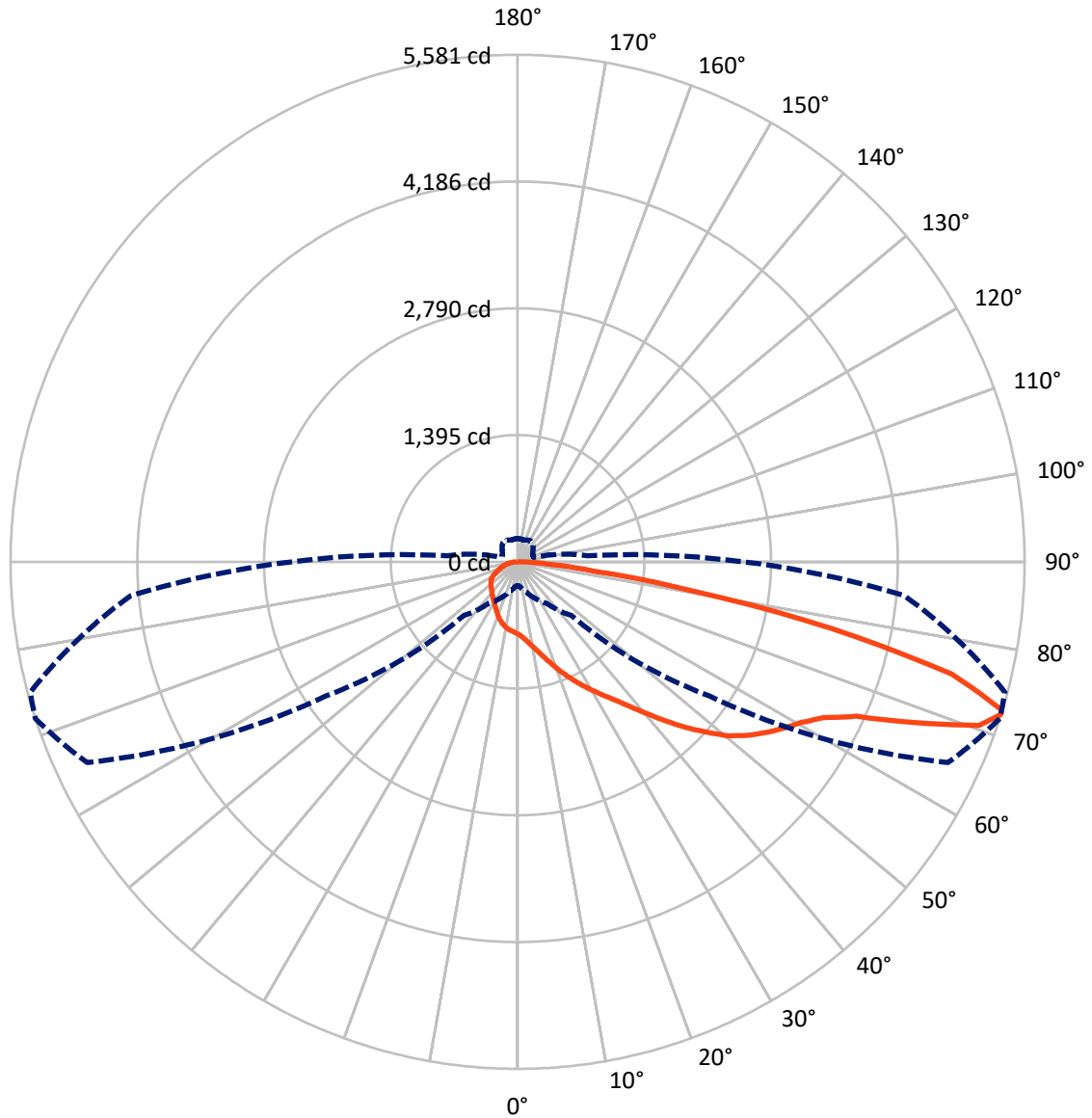
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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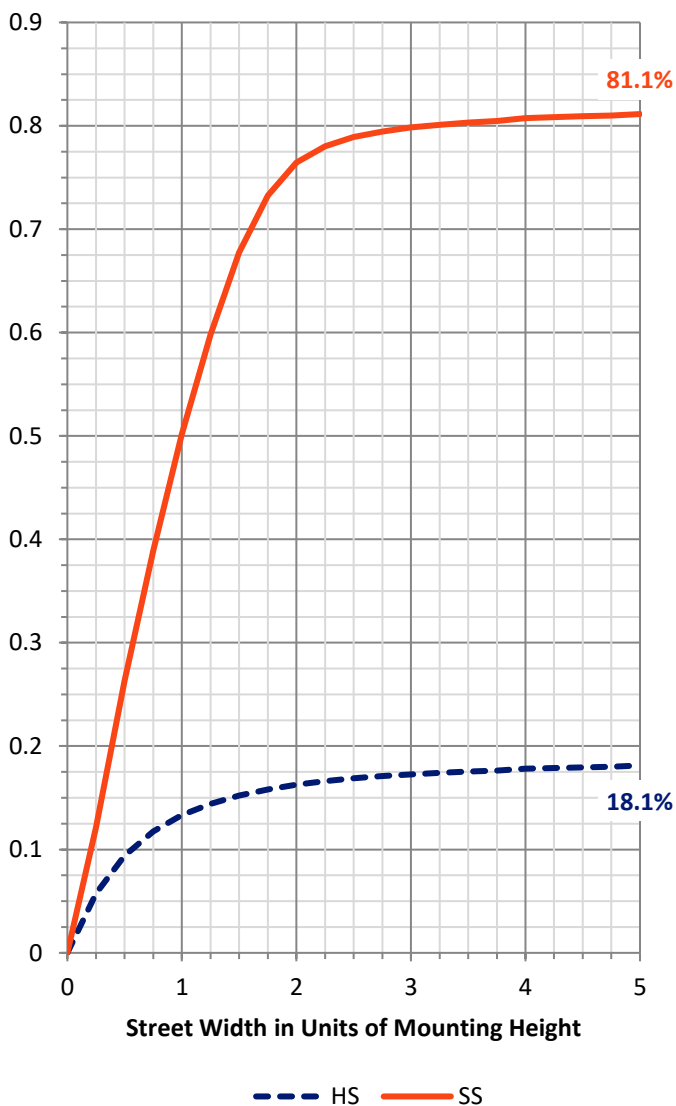
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1198.6 | 0.0 | 1198.6 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 5262.4 | 0.0 | 5262.4 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 6461.0 | 0.0 | 6461.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.6 | 1.2 |
| 10°-20° | 257.4 | 4.0 |
| 20°-30° | 451.0 | 7.0 |
| 30°-40° | 668.7 | 10.4 |
| 40°-50° | 978.1 | 15.1 |
| 50°-60° | 1345.8 | 20.8 |
| 60°-70° | 1498.3 | 23.2 |
| 70°-80° | 1015.2 | 15.7 |
| 80°-90° | 166.9 | 2.6 |
| 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° | 6461.0 | 100.0 |
| 0°-180° | 6461.0 | 100.0 |

Coefficient of Utilization

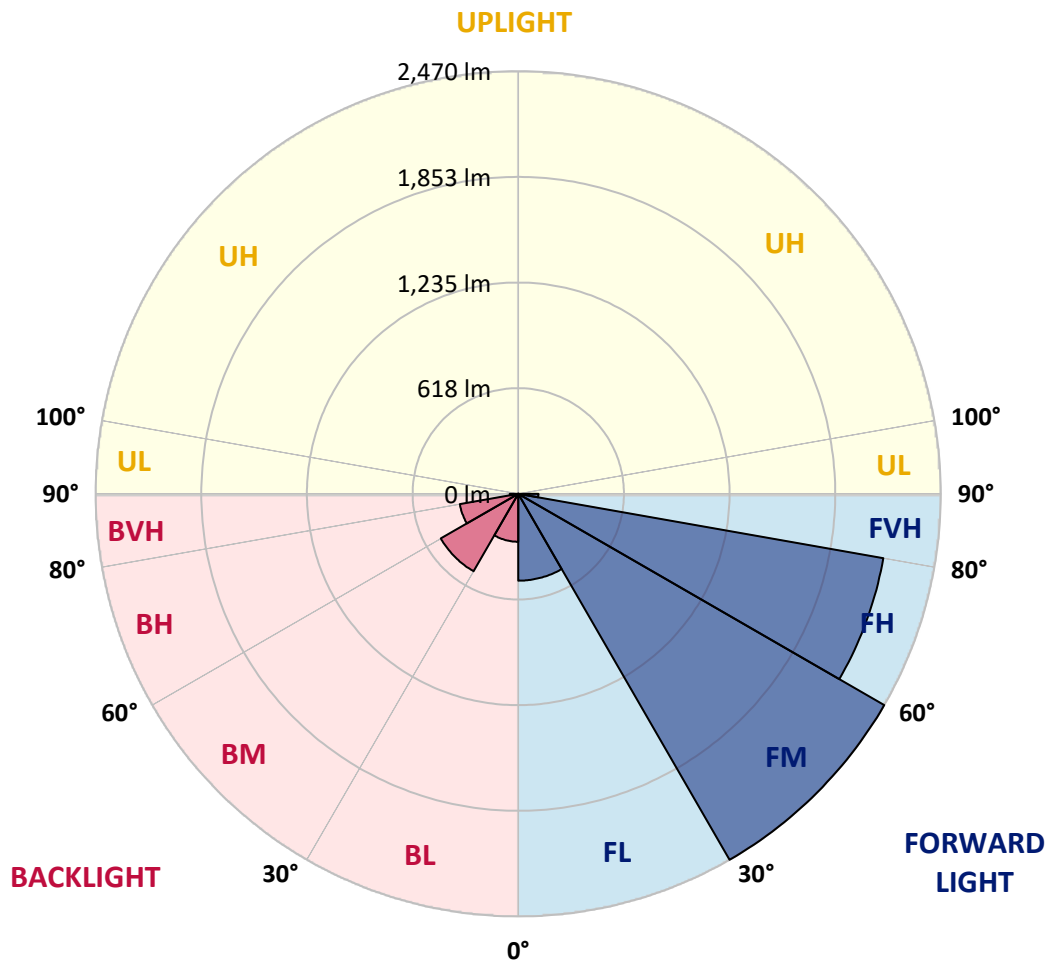


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 507.9 | 7.9 | | | |
| FM (30°-60°) | 2470.1 | 38.2 | | | |
| FH (60°-80°) | 2166.7 | 33.5 | | | G2/5000 |
| FVH (80°-90°) | 117.7 | 1.8 | | | G2/225 |
| BL (0°-30°) | 280.2 | 4.3 | B1/500 | | |
| BM (30°-60°) | 522.5 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 346.8 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 49.2 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 |
| 2.5° | 878.1 | 876.7 | 872.1 | 872.1 | 863.2 | 855.6 | 841.4 | 831.8 | 820.5 | 816.5 | 803.1 |
| 5° | 963.1 | 963.5 | 957.7 | 953.7 | 940.6 | 924.6 | 900.3 | 878.3 | 856.3 | 847.4 | 820.0 |
| 7.5° | 1034.5 | 1033.6 | 1032.0 | 1028.7 | 1016.4 | 1000.0 | 967.3 | 934.6 | 902.1 | 888.8 | 841.6 |
| 10° | 1080.3 | 1082.3 | 1083.6 | 1085.2 | 1080.1 | 1068.3 | 1037.4 | 997.5 | 955.0 | 936.8 | 867.4 |
| 12.5° | 1103.4 | 1107.0 | 1113.2 | 1123.9 | 1132.4 | 1131.0 | 1108.5 | 1066.3 | 1015.8 | 992.9 | 899.7 |
| 15° | 1117.0 | 1121.7 | 1131.5 | 1150.6 | 1174.4 | 1188.0 | 1182.0 | 1143.7 | 1087.4 | 1059.2 | 939.0 |
| 17.5° | 1125.5 | 1129.2 | 1144.4 | 1169.9 | 1205.3 | 1241.4 | 1257.2 | 1225.1 | 1168.4 | 1136.1 | 984.2 |
| 20° | 1131.2 | 1134.1 | 1153.0 | 1183.1 | 1228.9 | 1286.3 | 1330.3 | 1322.3 | 1257.6 | 1215.8 | 1031.4 |
| 22.5° | 1144.1 | 1146.6 | 1164.6 | 1194.9 | 1245.6 | 1319.7 | 1400.9 | 1412.9 | 1351.7 | 1304.3 | 1081.9 |
| 25° | 1180.2 | 1180.2 | 1195.3 | 1216.4 | 1264.1 | 1348.6 | 1460.5 | 1513.7 | 1447.8 | 1392.6 | 1128.6 |
| 27.5° | 1248.9 | 1248.3 | 1253.8 | 1261.2 | 1297.2 | 1378.0 | 1513.7 | 1602.6 | 1547.5 | 1487.2 | 1174.0 |
| 30° | 1330.3 | 1334.8 | 1335.5 | 1331.9 | 1348.8 | 1414.7 | 1562.8 | 1696.5 | 1647.8 | 1582.8 | 1220.4 |
| 32.5° | 1435.1 | 1438.0 | 1434.7 | 1422.9 | 1420.4 | 1466.7 | 1611.1 | 1794.9 | 1756.4 | 1682.7 | 1262.9 |
| 35° | 1568.2 | 1562.6 | 1552.1 | 1528.1 | 1505.2 | 1536.4 | 1666.3 | 1893.2 | 1878.3 | 1803.5 | 1321.4 |
| 37.5° | 1710.8 | 1711.0 | 1698.1 | 1643.6 | 1612.0 | 1625.3 | 1742.4 | 2004.6 | 2025.8 | 1947.2 | 1396.4 |
| 40° | 1825.1 | 1831.1 | 1839.1 | 1767.5 | 1726.6 | 1745.0 | 1839.1 | 2133.9 | 2200.2 | 2117.7 | 1494.1 |
| 42.5° | 1905.0 | 1911.9 | 1934.6 | 1889.6 | 1847.1 | 1881.4 | 1953.0 | 2271.8 | 2396.0 | 2314.3 | 1608.4 |
| 45° | 1989.5 | 1993.3 | 2009.3 | 1990.0 | 1962.8 | 2040.0 | 2081.4 | 2414.6 | 2603.1 | 2523.9 | 1736.3 |
| 47.5° | 2078.5 | 2082.5 | 2099.0 | 2086.1 | 2071.8 | 2188.2 | 2215.3 | 2549.2 | 2801.5 | 2754.1 | 1872.9 |
| 50° | 2188.4 | 2191.1 | 2206.6 | 2183.3 | 2187.7 | 2299.9 | 2335.0 | 2672.7 | 3009.5 | 2961.0 | 2010.0 |
| 52.5° | 2338.3 | 2339.0 | 2360.6 | 2339.5 | 2318.5 | 2381.7 | 2438.0 | 2789.1 | 3172.6 | 3149.7 | 2147.0 |
| 55° | 2455.8 | 2462.9 | 2533.7 | 2529.2 | 2517.2 | 2456.0 | 2524.1 | 2899.8 | 3318.1 | 3329.0 | 2292.5 |
| 57.5° | 2380.8 | 2408.6 | 2551.9 | 2652.9 | 2751.2 | 2640.9 | 2640.5 | 3024.6 | 3453.3 | 3505.0 | 2452.5 |
| 60° | 2085.2 | 2123.0 | 2334.1 | 2558.1 | 2865.8 | 2962.6 | 2882.0 | 3177.0 | 3589.9 | 3679.4 | 2652.9 |
| 62.5° | 1489.2 | 1551.5 | 1837.6 | 2195.3 | 2708.7 | 3175.7 | 3373.7 | 3418.9 | 3775.7 | 3881.4 | 2913.4 |
| 65° | 752.8 | 800.0 | 1039.8 | 1470.7 | 2164.2 | 3036.4 | 3908.1 | 3948.3 | 4098.5 | 4192.4 | 3314.5 |
| 67.5° | 457.4 | 475.2 | 592.2 | 818.0 | 1326.8 | 2365.3 | 4082.5 | 4830.9 | 4723.2 | 4773.0 | 3886.5 |
| 70° | 337.0 | 350.2 | 423.1 | 543.3 | 763.1 | 1388.0 | 3547.2 | 5460.7 | 5389.9 | 5384.3 | 4309.2 |
| 72° | 262.5 | 272.1 | 336.6 | 438.9 | 557.9 | 832.7 | 2571.0 | 5228.2 | 5580.8 | 5552.8 | 4270.5 |
| 72.5° | 248.9 | 257.4 | 316.1 | 413.1 | 527.2 | 754.8 | 2311.6 | 5071.3 | 5567.0 | 5554.3 | 4220.4 |
| 75° | 196.0 | 202.0 | 234.0 | 319.5 | 412.7 | 428.2 | 1266.7 | 3930.1 | 4938.5 | 5143.9 | 3795.9 |
| 77.5° | 162.2 | 163.1 | 180.0 | 232.5 | 321.7 | 302.8 | 622.2 | 2726.8 | 3536.3 | 3762.1 | 2688.9 |
| 80° | 132.1 | 133.3 | 141.3 | 163.1 | 243.4 | 224.0 | 295.4 | 1567.9 | 1979.9 | 1982.4 | 1278.7 |
| 82.5° | 105.2 | 105.4 | 114.3 | 119.2 | 174.9 | 160.2 | 169.3 | 736.1 | 865.2 | 832.2 | 459.6 |
| 85° | 74.1 | 72.5 | 111.7 | 97.9 | 114.3 | 102.8 | 93.4 | 291.4 | 357.7 | 342.2 | 143.9 |
| 87.5° | 24.7 | 25.6 | 49.6 | 63.4 | 66.7 | 58.3 | 41.6 | 111.7 | 135.0 | 133.9 | 45.6 |
| 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° | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 | 794.9 |
| 2.5° | 798.9 | 791.8 | 781.3 | 769.7 | 760.6 | 751.3 | 744.4 | 740.8 | 736.8 | 733.5 | 737.5 |
| 5° | 807.3 | 794.0 | 771.7 | 749.9 | 733.9 | 719.7 | 709.4 | 704.1 | 699.2 | 695.9 | 696.3 |
| 7.5° | 821.1 | 799.5 | 762.2 | 730.4 | 708.1 | 692.8 | 682.3 | 678.7 | 675.6 | 674.7 | 675.9 |
| 10° | 835.8 | 804.0 | 749.5 | 707.2 | 681.9 | 669.2 | 664.5 | 667.0 | 669.2 | 671.2 | 673.4 |
| 12.5° | 852.5 | 808.0 | 731.0 | 680.1 | 658.5 | 653.6 | 658.3 | 669.0 | 676.7 | 681.4 | 684.3 |
| 15° | 874.3 | 811.6 | 709.7 | 652.9 | 638.5 | 644.0 | 659.8 | 678.3 | 691.9 | 700.5 | 701.9 |
| 17.5° | 894.3 | 811.3 | 682.3 | 625.6 | 622.2 | 638.5 | 662.3 | 688.3 | 706.6 | 718.8 | 721.2 |
| 20° | 915.0 | 805.3 | 650.5 | 598.9 | 605.8 | 632.5 | 663.4 | 694.8 | 716.8 | 731.0 | 734.4 |
| 22.5° | 934.4 | 794.9 | 615.6 | 574.6 | 592.0 | 624.5 | 659.2 | 691.0 | 713.0 | 724.6 | 728.1 |
| 25° | 947.5 | 776.6 | 580.2 | 554.2 | 579.7 | 614.7 | 645.4 | 671.0 | 687.4 | 693.2 | 694.1 |
| 27.5° | 954.2 | 752.8 | 546.8 | 536.4 | 567.1 | 598.7 | 619.8 | 632.5 | 637.1 | 636.7 | 635.8 |
| 30° | 955.0 | 721.5 | 518.1 | 521.9 | 552.4 | 575.1 | 585.1 | 582.6 | 576.6 | 566.4 | 567.3 |
| 32.5° | 952.2 | 686.1 | 494.1 | 508.1 | 533.7 | 546.4 | 546.8 | 535.0 | 519.0 | 502.8 | 498.3 |
| 35° | 953.0 | 651.4 | 473.0 | 492.5 | 511.0 | 516.6 | 511.4 | 494.1 | 472.3 | 451.4 | 446.9 |
| 37.5° | 962.8 | 621.1 | 454.7 | 474.5 | 485.9 | 487.2 | 479.9 | 461.6 | 445.6 | 425.1 | 423.4 |
| 40° | 986.2 | 599.5 | 437.4 | 454.3 | 460.7 | 461.4 | 450.9 | 438.0 | 439.4 | 428.5 | 428.2 |
| 42.5° | 1028.2 | 590.2 | 422.0 | 433.1 | 437.1 | 438.5 | 430.5 | 422.2 | 433.8 | 426.7 | 424.2 |
| 45° | 1082.5 | 592.4 | 409.1 | 412.5 | 419.8 | 426.0 | 421.1 | 411.1 | 415.6 | 384.6 | 374.4 |
| 47.5° | 1145.3 | 606.7 | 398.9 | 394.7 | 407.3 | 419.1 | 411.6 | 396.4 | 380.6 | 349.9 | 344.2 |
| 50° | 1218.7 | 628.7 | 389.5 | 377.1 | 393.8 | 409.8 | 402.2 | 380.6 | 356.8 | 341.9 | 339.9 |
| 52.5° | 1295.2 | 655.6 | 380.2 | 357.7 | 376.6 | 402.7 | 398.9 | 377.1 | 347.7 | 333.0 | 330.4 |
| 55° | 1382.0 | 682.7 | 368.4 | 335.3 | 358.2 | 399.3 | 397.3 | 364.2 | 340.8 | 332.6 | 330.6 |
| 57.5° | 1489.9 | 713.7 | 352.8 | 311.9 | 340.8 | 387.3 | 381.1 | 356.4 | 333.7 | 327.5 | 326.8 |
| 60° | 1630.5 | 759.3 | 330.4 | 287.0 | 319.7 | 368.8 | 367.5 | 345.0 | 322.4 | 317.9 | 317.0 |
| 62.5° | 1841.4 | 834.7 | 299.4 | 262.1 | 296.1 | 337.5 | 349.7 | 329.7 | 310.3 | 310.1 | 310.6 |
| 65° | 2168.4 | 948.2 | 265.8 | 240.3 | 272.3 | 311.0 | 329.0 | 313.9 | 298.1 | 302.6 | 303.2 |
| 67.5° | 2547.5 | 1042.3 | 232.9 | 218.9 | 248.0 | 285.9 | 310.3 | 298.1 | 281.9 | 293.4 | 293.7 |
| 70° | 2673.6 | 958.2 | 204.0 | 197.8 | 222.9 | 261.6 | 290.1 | 280.8 | 264.3 | 275.9 | 274.7 |
| 72° | 2488.1 | 773.5 | 185.3 | 181.8 | 204.0 | 241.6 | 272.1 | 264.5 | 248.3 | 256.1 | 253.2 |
| 72.5° | 2429.6 | 737.5 | 180.6 | 177.8 | 198.9 | 236.5 | 267.4 | 260.5 | 244.3 | 250.9 | 248.3 |
| 75° | 2167.3 | 640.5 | 155.3 | 155.9 | 173.5 | 211.6 | 241.2 | 238.9 | 222.2 | 222.9 | 222.0 |
| 77.5° | 1571.9 | 469.6 | 130.8 | 135.3 | 147.7 | 186.0 | 214.7 | 213.3 | 195.1 | 191.8 | 191.1 |
| 80° | 729.5 | 239.6 | 106.6 | 108.6 | 121.5 | 155.5 | 183.1 | 181.3 | 166.6 | 162.4 | 160.0 |
| 82.5° | 249.8 | 113.9 | 80.1 | 81.4 | 94.1 | 125.2 | 158.8 | 157.7 | 145.5 | 137.3 | 132.1 |
| 85° | 89.2 | 56.7 | 56.1 | 54.7 | 67.2 | 98.6 | 138.4 | 132.4 | 114.3 | 97.4 | 97.0 |
| 87.5° | 28.9 | 24.2 | 28.9 | 28.7 | 39.2 | 66.7 | 100.6 | 85.6 | 83.0 | 69.0 | 67.6 |
| 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)