

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: P320917

Luminaire Tested: **GAN-SA3B-730-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16301 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

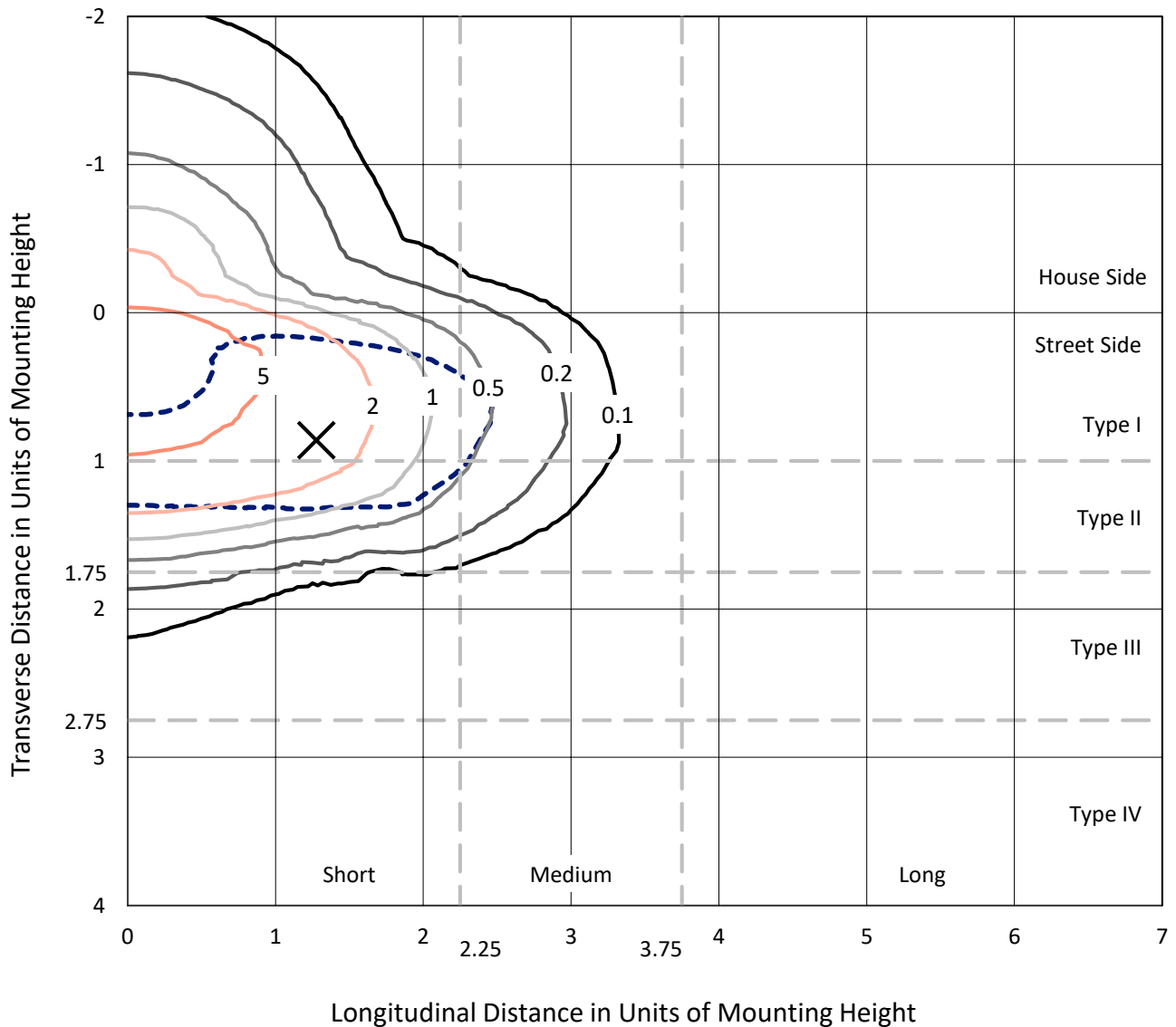
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

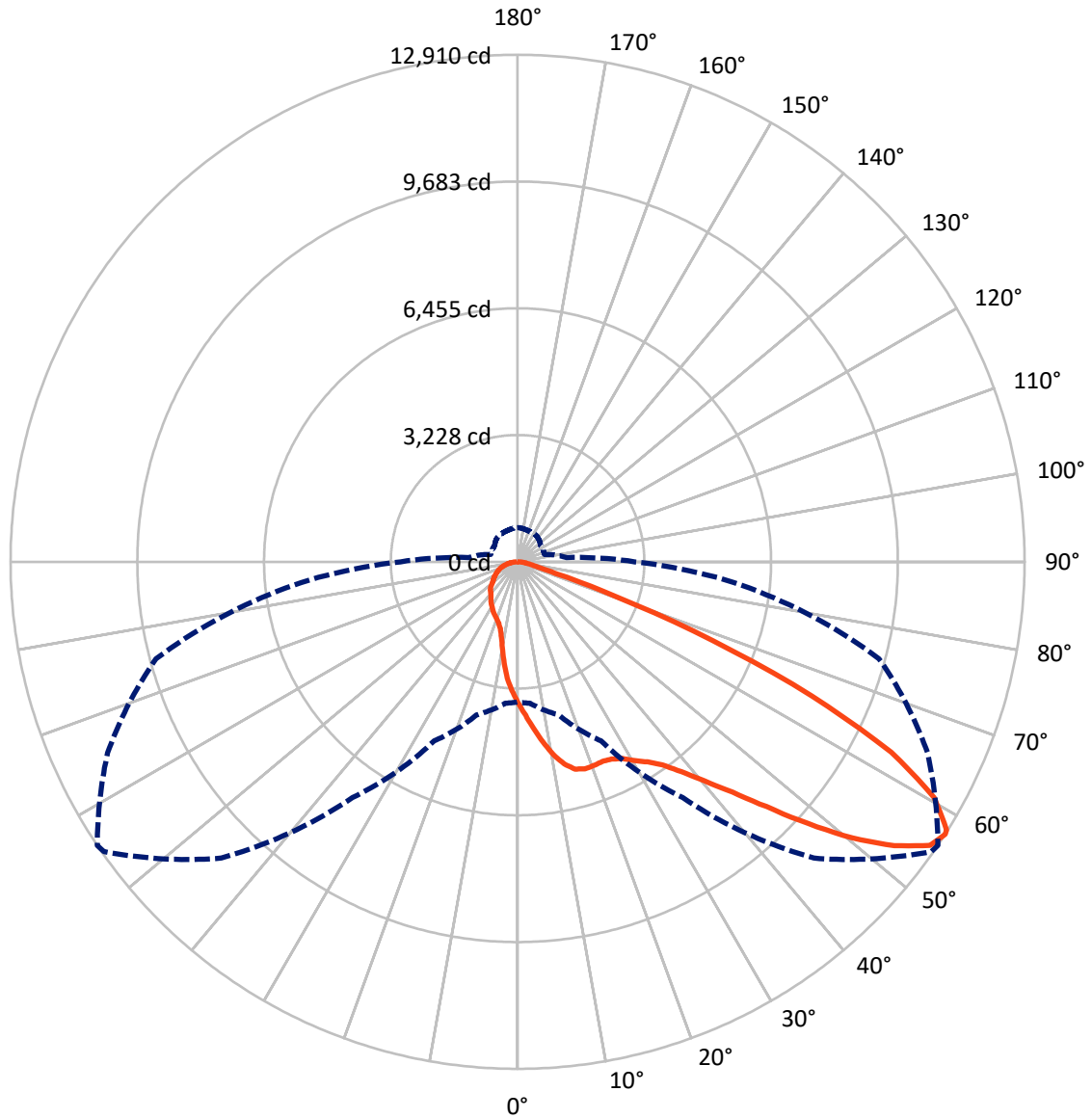
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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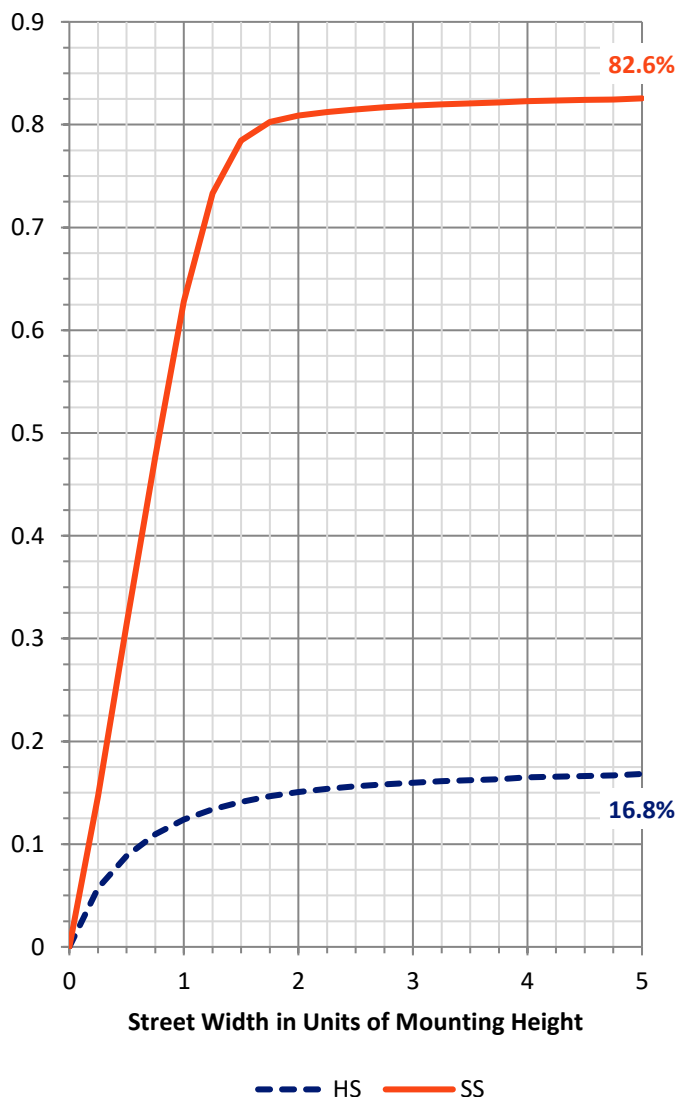
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2809.9 | 0.0 | 2809.9 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 13491.1 | 0.0 | 13491.1 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 16301.0 | 0.0 | 16301.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 345.4 | 2.1 |
| 10°-20° | 976.5 | 6.0 |
| 20°-30° | 1590.5 | 9.8 |
| 30°-40° | 2377.6 | 14.6 |
| 40°-50° | 3606.3 | 22.1 |
| 50°-60° | 4042.0 | 24.8 |
| 60°-70° | 2387.4 | 14.6 |
| 70°-80° | 782.2 | 4.8 |
| 80°-90° | 193.3 | 1.2 |
| 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° | 16301.0 | 100.0 |
| 0°-180° | 16301.0 | 100.0 |

Coefficient of Utilization

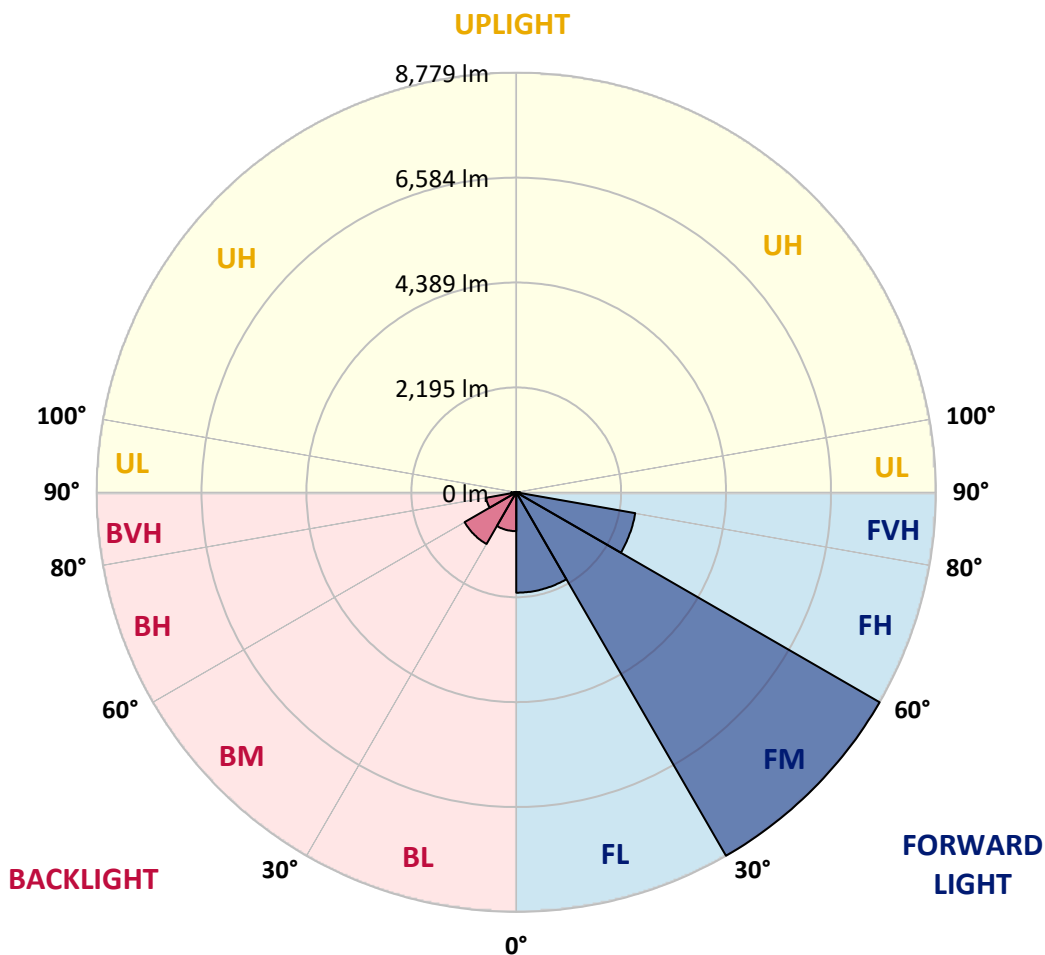


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2099.8 | 12.9 | | | |
| FM (30°-60°) | 8778.6 | 53.9 | | | |
| FH (60°-80°) | 2527.5 | 15.5 | | | G2/5000 |
| FVH (80°-90°) | 85.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 812.5 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1247.2 | 7.7 | B2/2500 | | |
| BH (60°-80°) | 642.0 | 3.9 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 108.2 | 0.7 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 0° | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 |
| 2.5° | 4151.7 | 4189.8 | 4173.0 | 4114.7 | 4069.9 | 4006.6 | 3936.0 | 3914.7 | 3840.2 | 3756.7 | 3656.5 |
| 5° | 4808.8 | 4789.8 | 4762.3 | 4671.6 | 4575.8 | 4464.3 | 4287.3 | 4259.3 | 4093.4 | 3904.6 | 3705.2 |
| 7.5° | 5183.0 | 5181.4 | 5165.1 | 5111.9 | 5024.5 | 4878.8 | 4665.4 | 4632.4 | 4381.9 | 4078.3 | 3769.1 |
| 10° | 5128.7 | 5124.8 | 5151.7 | 5207.1 | 5233.5 | 5203.2 | 5023.4 | 4990.3 | 4682.8 | 4270.5 | 3843.0 |
| 12.5° | 4820.0 | 4822.3 | 4865.4 | 4981.9 | 5140.5 | 5330.9 | 5301.8 | 5285.6 | 4994.8 | 4487.8 | 3932.7 |
| 15° | 4579.7 | 4584.7 | 4618.9 | 4720.3 | 4907.4 | 5253.1 | 5471.0 | 5476.6 | 5296.8 | 4727.6 | 4037.4 |
| 17.5° | 4474.4 | 4485.0 | 4500.7 | 4571.9 | 4743.3 | 5097.9 | 5511.3 | 5541.6 | 5561.2 | 4976.3 | 4138.2 |
| 20° | 4508.0 | 4518.1 | 4522.6 | 4567.9 | 4708.5 | 5003.8 | 5483.3 | 5537.6 | 5764.0 | 5210.5 | 4239.1 |
| 22.5° | 4658.7 | 4664.8 | 4667.6 | 4679.4 | 4788.7 | 5030.7 | 5464.8 | 5522.0 | 5910.7 | 5420.6 | 4315.3 |
| 25° | 4908.5 | 4904.1 | 4886.1 | 4871.0 | 4944.4 | 5137.1 | 5507.4 | 5561.7 | 6030.1 | 5611.0 | 4365.1 |
| 27.5° | 5207.7 | 5202.1 | 5167.4 | 5125.9 | 5167.9 | 5302.9 | 5630.1 | 5673.2 | 6137.1 | 5789.2 | 4390.3 |
| 30° | 5566.8 | 5552.2 | 5486.7 | 5437.4 | 5453.6 | 5551.7 | 5832.3 | 5871.5 | 6302.3 | 5991.4 | 4415.0 |
| 32.5° | 5981.9 | 5966.2 | 5871.5 | 5789.7 | 5789.7 | 5871.5 | 6040.7 | 6073.2 | 6442.4 | 6220.0 | 4454.8 |
| 35° | 6501.8 | 6482.2 | 6358.9 | 6221.7 | 6183.0 | 6224.5 | 6324.7 | 6347.7 | 6694.5 | 6507.9 | 4527.0 |
| 37.5° | 7114.6 | 7088.3 | 6928.6 | 6744.9 | 6660.3 | 6658.1 | 6730.3 | 6777.4 | 7097.3 | 6886.1 | 4649.7 |
| 40° | 7729.2 | 7710.7 | 7571.2 | 7426.7 | 7260.8 | 7207.6 | 7319.1 | 7333.7 | 7623.9 | 7355.5 | 4806.6 |
| 42.5° | 8204.2 | 8200.9 | 8175.1 | 8194.1 | 8024.4 | 7916.8 | 8004.2 | 8016.0 | 8267.0 | 7863.6 | 4973.5 |
| 45° | 8455.2 | 8460.8 | 8585.7 | 8862.5 | 8925.2 | 8846.8 | 8889.9 | 8893.3 | 9002.0 | 8376.2 | 5126.5 |
| 47.5° | 8254.1 | 8283.2 | 8599.2 | 9218.2 | 9731.9 | 9992.4 | 9920.7 | 9962.2 | 9714.6 | 8816.5 | 5246.3 |
| 50° | 7470.4 | 7506.2 | 8044.0 | 9059.7 | 10108.4 | 11101.1 | 11063.5 | 11054.0 | 10289.3 | 9139.2 | 5311.3 |
| 52.5° | 6499.5 | 6527.5 | 6971.2 | 8235.6 | 9832.2 | 11713.9 | 12058.5 | 12009.2 | 10800.2 | 9380.7 | 5323.6 |
| 55° | 5021.1 | 5064.8 | 5490.0 | 6590.8 | 8715.1 | 11479.8 | 12790.1 | 12745.8 | 11265.8 | 9507.3 | 5309.1 |
| 57° | 3569.6 | 3615.6 | 4038.0 | 5030.1 | 7331.4 | 10669.1 | 12862.9 | 12910.0 | 11517.3 | 9528.6 | 5325.3 |
| 57.5° | 3185.3 | 3232.4 | 3650.9 | 4614.4 | 6900.1 | 10376.2 | 12800.2 | 12878.6 | 11562.7 | 9525.2 | 5334.3 |
| 60° | 1603.9 | 1621.8 | 1888.5 | 2575.8 | 4361.8 | 8388.5 | 11981.7 | 12183.9 | 11603.6 | 9360.5 | 5372.9 |
| 62.5° | 997.2 | 984.3 | 975.9 | 1186.5 | 2122.1 | 5562.9 | 10292.7 | 10682.0 | 10821.0 | 8961.6 | 5279.4 |
| 65° | 876.7 | 852.6 | 760.2 | 743.4 | 937.2 | 2701.9 | 7751.0 | 8235.6 | 9148.7 | 8333.1 | 5056.4 |
| 67.5° | 823.5 | 800.0 | 695.8 | 633.0 | 633.6 | 1071.1 | 4812.2 | 5357.8 | 7127.0 | 7270.4 | 4530.4 |
| 70° | 768.6 | 747.3 | 649.8 | 575.9 | 539.5 | 593.3 | 2213.9 | 2627.9 | 4645.8 | 5714.7 | 3786.4 |
| 72.5° | 698.0 | 683.5 | 591.0 | 514.8 | 476.2 | 444.2 | 847.6 | 1001.1 | 2689.6 | 3838.0 | 2629.6 |
| 75° | 624.1 | 610.6 | 531.6 | 458.8 | 411.8 | 349.6 | 477.3 | 514.3 | 1366.3 | 1963.5 | 1294.6 |
| 77.5° | 542.8 | 535.0 | 472.8 | 405.6 | 368.1 | 289.6 | 337.8 | 355.7 | 586.0 | 842.0 | 649.3 |
| 80° | 431.9 | 447.0 | 413.4 | 361.3 | 326.6 | 231.9 | 239.2 | 251.0 | 341.2 | 411.2 | 368.6 |
| 82.5° | 281.2 | 307.6 | 323.8 | 293.5 | 268.9 | 182.6 | 172.0 | 177.0 | 222.4 | 251.0 | 160.2 |
| 85° | 117.1 | 131.6 | 212.9 | 192.2 | 178.7 | 133.3 | 115.4 | 117.6 | 137.8 | 142.9 | 65.5 |
| 87.5° | 52.1 | 55.5 | 93.6 | 88.0 | 75.6 | 45.9 | 49.3 | 53.8 | 73.4 | 69.5 | 25.2 |
| 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° | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 | 3615.6 |
| 2.5° | 3618.9 | 3571.9 | 3491.2 | 3402.1 | 3329.3 | 3271.0 | 3212.2 | 3171.9 | 3124.8 | 3099.6 | 3086.7 |
| 5° | 3621.7 | 3529.3 | 3359.6 | 3185.3 | 3029.6 | 2887.3 | 2751.7 | 2647.5 | 2550.1 | 2497.4 | 2482.8 |
| 7.5° | 3633.5 | 3494.6 | 3220.1 | 2933.2 | 2656.5 | 2403.8 | 2208.9 | 2086.8 | 1998.8 | 1959.6 | 1948.4 |
| 10° | 3643.0 | 3453.7 | 3047.5 | 2622.9 | 2246.4 | 1990.4 | 1839.2 | 1770.8 | 1740.6 | 1735.5 | 1730.5 |
| 12.5° | 3665.4 | 3411.7 | 2866.0 | 2299.1 | 1927.7 | 1750.6 | 1698.0 | 1693.5 | 1701.9 | 1714.2 | 1714.2 |
| 15° | 3700.7 | 3370.2 | 2658.7 | 2021.2 | 1724.9 | 1662.7 | 1673.3 | 1698.0 | 1721.0 | 1740.0 | 1742.8 |
| 17.5° | 3726.5 | 3319.2 | 2435.8 | 1798.8 | 1616.8 | 1633.6 | 1671.7 | 1706.4 | 1729.9 | 1748.4 | 1750.1 |
| 20° | 3745.0 | 3240.2 | 2197.7 | 1629.1 | 1554.6 | 1606.7 | 1654.3 | 1685.1 | 1701.3 | 1719.8 | 1722.6 |
| 22.5° | 3735.5 | 3134.4 | 1986.5 | 1507.5 | 1504.2 | 1567.5 | 1612.8 | 1649.8 | 1637.5 | 1619.6 | 1631.3 |
| 25° | 3689.5 | 2988.7 | 1769.1 | 1416.8 | 1450.9 | 1514.8 | 1570.8 | 1546.2 | 1504.7 | 1496.9 | 1501.4 |
| 27.5° | 3607.7 | 2802.7 | 1568.0 | 1332.7 | 1389.3 | 1466.1 | 1462.7 | 1438.1 | 1423.5 | 1413.4 | 1419.6 |
| 30° | 3519.8 | 2601.0 | 1392.1 | 1259.3 | 1321.0 | 1384.3 | 1371.4 | 1370.8 | 1356.3 | 1340.0 | 1347.9 |
| 32.5° | 3432.9 | 2398.2 | 1252.6 | 1198.8 | 1269.4 | 1277.8 | 1305.8 | 1314.2 | 1285.7 | 1251.5 | 1249.3 |
| 35° | 3357.3 | 2206.7 | 1146.7 | 1143.9 | 1207.2 | 1208.4 | 1249.3 | 1237.5 | 1166.4 | 1131.1 | 1131.1 |
| 37.5° | 3300.7 | 2015.6 | 1066.1 | 1094.6 | 1125.5 | 1154.6 | 1175.3 | 1126.6 | 1114.8 | 1095.2 | 1094.6 |
| 40° | 3276.1 | 1847.6 | 1015.7 | 1057.1 | 1067.8 | 1104.7 | 1051.5 | 1070.6 | 1076.2 | 1066.1 | 1066.1 |
| 42.5° | 3250.3 | 1701.3 | 972.0 | 1028.5 | 1026.9 | 1021.8 | 994.9 | 1019.6 | 1042.0 | 1042.5 | 1040.9 |
| 45° | 3224.6 | 1575.3 | 933.3 | 967.5 | 991.0 | 936.7 | 941.7 | 968.0 | 999.4 | 1010.6 | 1010.6 |
| 47.5° | 3196.0 | 1475.6 | 898.0 | 903.1 | 939.5 | 903.1 | 899.1 | 919.3 | 956.3 | 974.2 | 978.1 |
| 50° | 3133.2 | 1386.0 | 857.7 | 846.5 | 856.6 | 868.9 | 872.2 | 881.8 | 922.7 | 951.2 | 958.0 |
| 52.5° | 3046.4 | 1305.8 | 806.1 | 794.4 | 794.4 | 840.9 | 856.6 | 859.4 | 894.1 | 928.3 | 935.0 |
| 55° | 2974.1 | 1254.9 | 752.9 | 750.7 | 748.4 | 811.2 | 838.1 | 842.6 | 866.6 | 893.5 | 896.9 |
| 57° | 2979.2 | 1250.9 | 712.0 | 714.3 | 713.7 | 780.9 | 820.7 | 830.2 | 842.6 | 865.5 | 869.4 |
| 57.5° | 2982.0 | 1253.7 | 703.1 | 704.2 | 703.6 | 772.5 | 815.7 | 826.3 | 835.8 | 859.9 | 863.8 |
| 60° | 3024.0 | 1261.0 | 666.6 | 654.3 | 657.1 | 727.7 | 787.1 | 800.5 | 806.7 | 838.6 | 843.7 |
| 62.5° | 2961.8 | 1228.5 | 637.5 | 607.8 | 607.8 | 680.7 | 747.3 | 768.6 | 778.1 | 821.3 | 829.7 |
| 65° | 2781.4 | 1137.2 | 603.3 | 555.2 | 560.8 | 633.6 | 699.7 | 734.4 | 749.0 | 802.8 | 811.7 |
| 67.5° | 2503.0 | 1031.3 | 566.9 | 508.1 | 513.7 | 584.3 | 650.4 | 687.9 | 710.9 | 782.6 | 789.9 |
| 70° | 2140.6 | 901.9 | 517.6 | 458.2 | 465.0 | 530.5 | 592.1 | 634.7 | 668.9 | 763.6 | 765.8 |
| 72.5° | 1578.1 | 739.5 | 448.7 | 403.3 | 410.6 | 467.8 | 533.3 | 582.6 | 628.6 | 715.9 | 714.8 |
| 75° | 938.3 | 578.1 | 372.5 | 347.9 | 352.9 | 406.2 | 480.1 | 540.0 | 608.9 | 697.5 | 708.1 |
| 77.5° | 569.2 | 435.3 | 303.6 | 291.3 | 297.5 | 351.8 | 442.0 | 505.9 | 600.5 | 657.7 | 654.3 |
| 80° | 344.0 | 310.9 | 242.6 | 234.7 | 240.9 | 300.8 | 409.0 | 480.1 | 524.9 | 561.9 | 561.9 |
| 82.5° | 179.8 | 189.9 | 178.1 | 172.0 | 180.4 | 244.3 | 372.0 | 419.0 | 463.9 | 398.3 | 372.0 |
| 85° | 73.4 | 99.2 | 108.1 | 107.6 | 112.6 | 169.2 | 321.0 | 358.5 | 299.2 | 284.0 | 290.7 |
| 87.5° | 24.6 | 42.0 | 52.7 | 45.4 | 47.6 | 106.4 | 222.4 | 173.1 | 205.6 | 143.4 | 136.1 |
| 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)