

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: P323083

Luminaire Tested: **GAN-SA9B-722-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27221 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 374
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

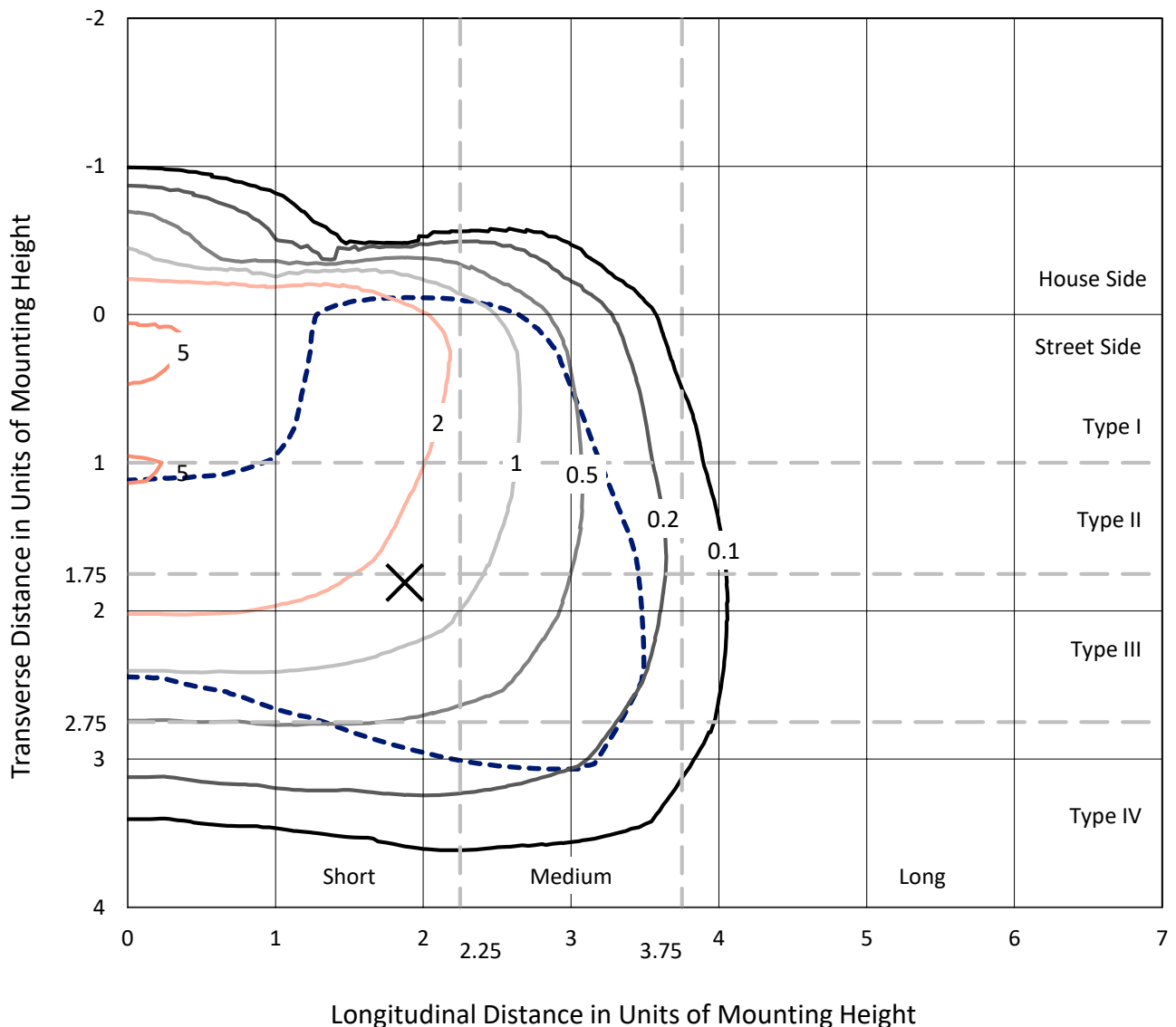




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Iso-Footcandle Lines of Horizontal Illumination

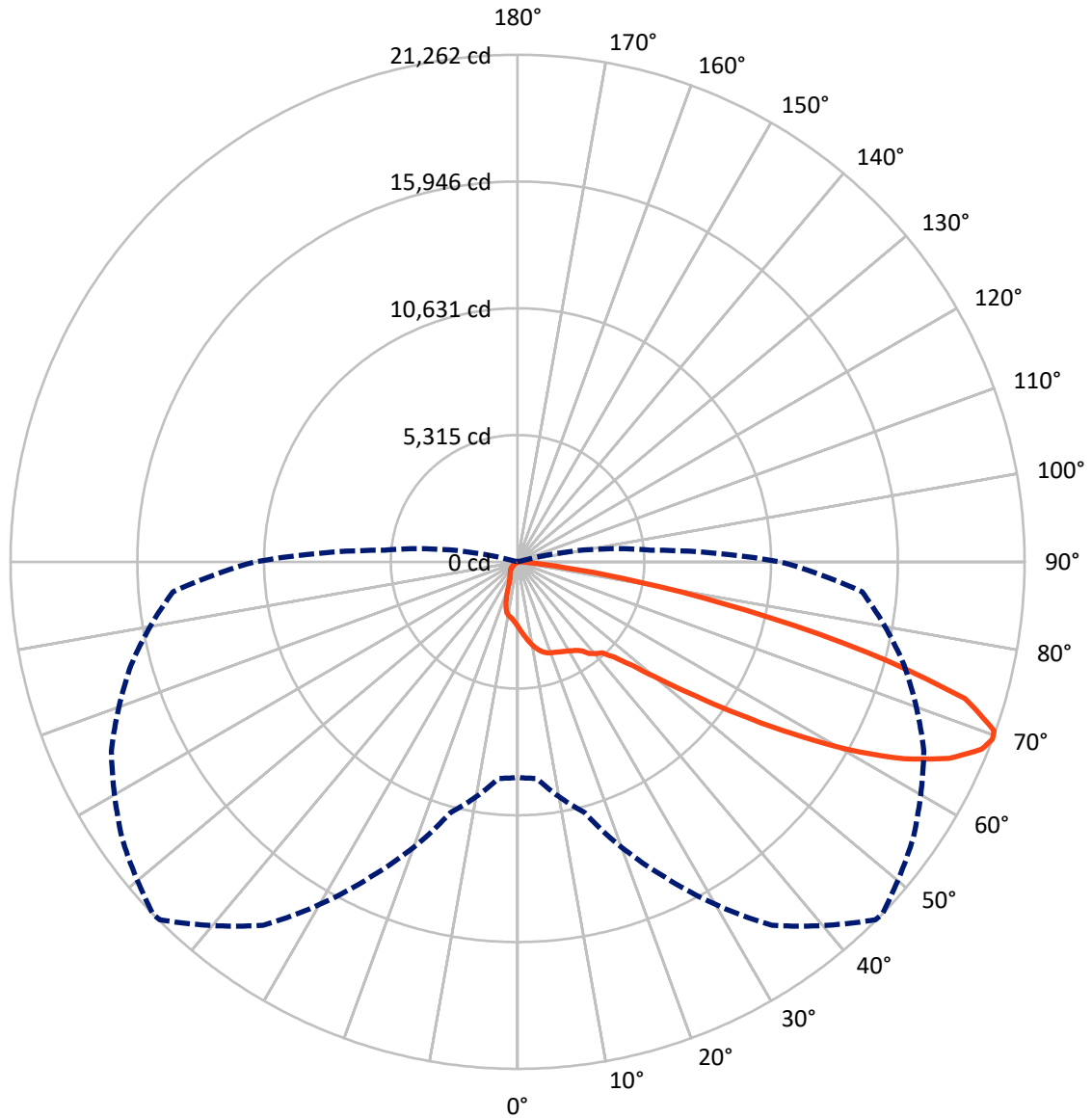
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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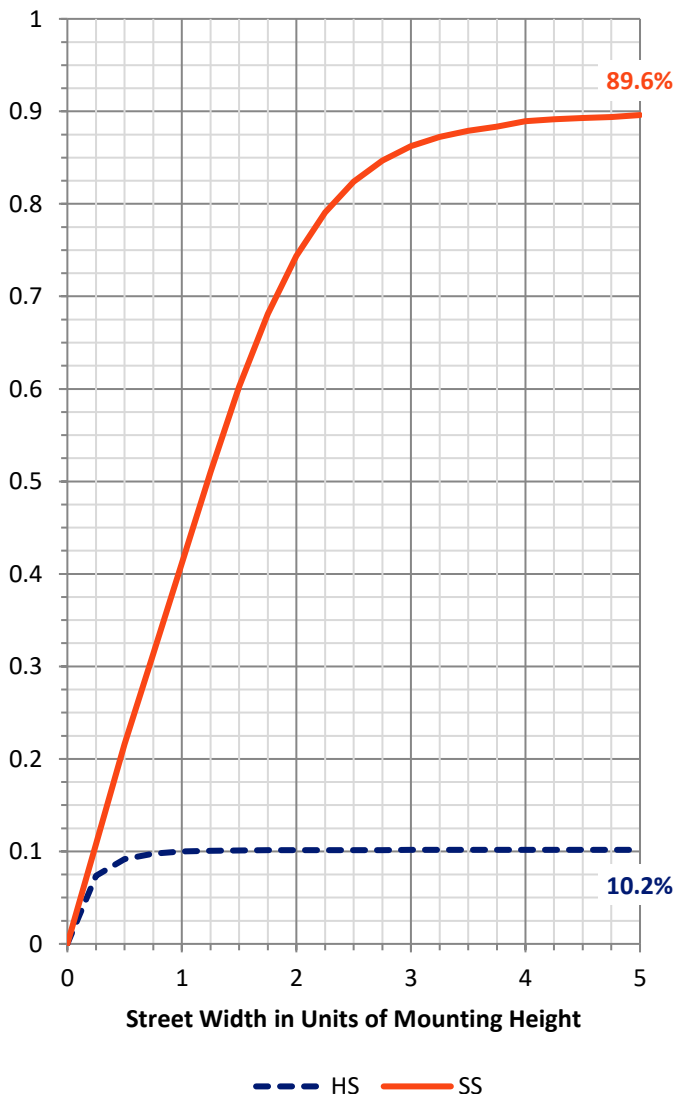
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2793.6 | 0.0 | 2793.6 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 24427.4 | 0.0 | 24427.4 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 27221.0 | 0.0 | 27221.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 271.5 | 1.0 |
| 10°-20° | 823.6 | 3.0 |
| 20°-30° | 1295.2 | 4.8 |
| 30°-40° | 1857.4 | 6.8 |
| 40°-50° | 3210.2 | 11.8 |
| 50°-60° | 6342.1 | 23.3 |
| 60°-70° | 8863.7 | 32.6 |
| 70°-80° | 4282.1 | 15.7 |
| 80°-90° | 275.2 | 1.0 |
| 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° | 27221.0 | 100.0 |
| 0°-180° | 27221.0 | 100.0 |

Coefficient of Utilization

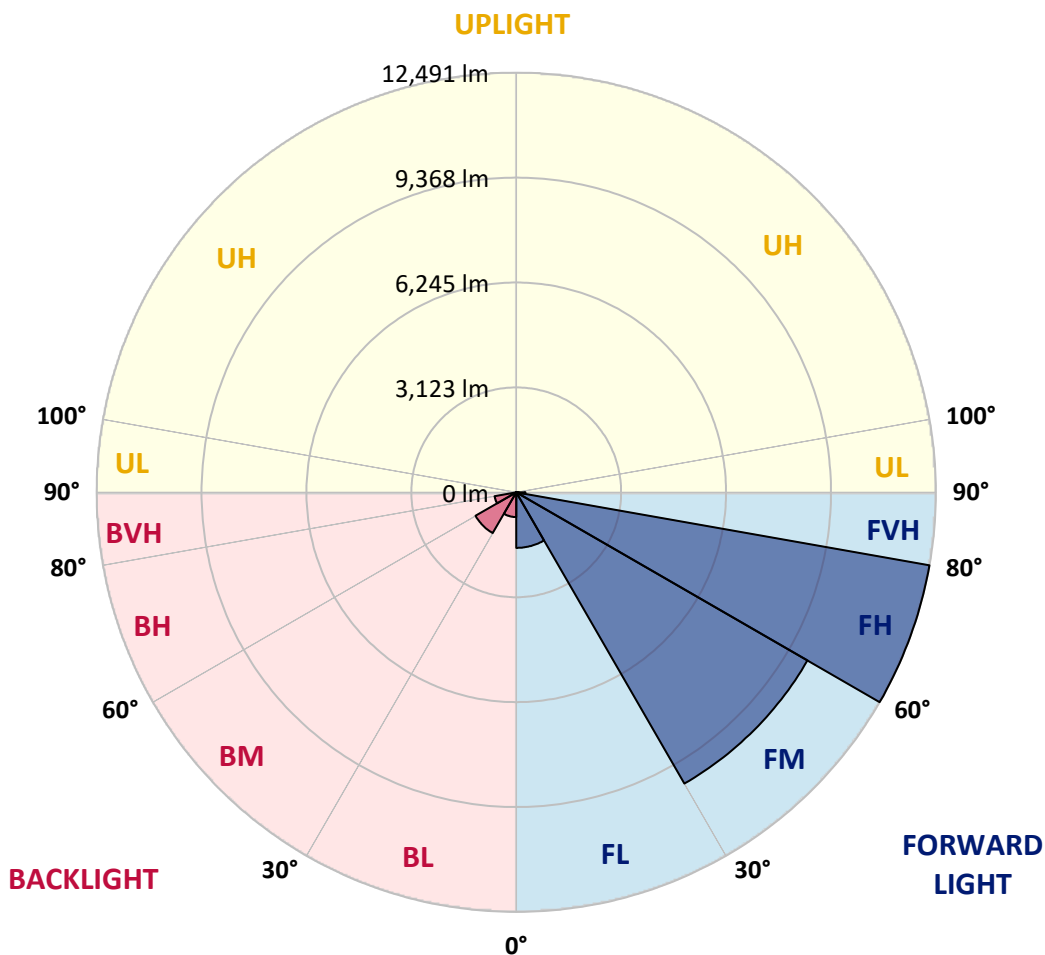


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1654.0 | 6.1 | | | |
| FM (30°-60°) | 10009.8 | 36.8 | | | |
| FH (60°-80°) | 12490.7 | 45.9 | | | G5 |
| FVH (80°-90°) | 272.9 | 1.0 | | | G3/500 |
| BL (0°-30°) | 736.3 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 1399.9 | 5.1 | B2/2500 | | |
| BH (60°-80°) | 655.0 | 2.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 2.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 |
| 2.5° | 3029.9 | 3026.1 | 3008.2 | 3000.6 | 2957.2 | 2931.6 | 2921.4 | 2889.5 | 2843.6 | 2797.6 | 2746.6 |
| 5° | 3374.5 | 3373.2 | 3340.1 | 3308.2 | 3226.5 | 3149.9 | 3135.9 | 3061.8 | 2958.5 | 2861.5 | 2764.5 |
| 7.5° | 3726.8 | 3710.2 | 3677.0 | 3615.7 | 3497.0 | 3374.5 | 3363.0 | 3258.4 | 3111.6 | 2971.2 | 2832.1 |
| 10° | 4025.4 | 4015.2 | 3971.8 | 3878.7 | 3739.5 | 3600.4 | 3586.4 | 3457.5 | 3291.6 | 3119.3 | 2941.9 |
| 12.5° | 4257.7 | 4250.1 | 4192.6 | 4076.5 | 3928.4 | 3784.2 | 3765.1 | 3650.2 | 3472.8 | 3280.1 | 3070.8 |
| 15° | 4399.4 | 4395.6 | 4325.4 | 4201.6 | 4056.1 | 3931.0 | 3914.4 | 3813.6 | 3648.9 | 3447.3 | 3211.2 |
| 17.5° | 4432.6 | 4433.8 | 4361.1 | 4236.0 | 4116.1 | 4026.7 | 4013.9 | 3937.4 | 3799.5 | 3599.2 | 3351.6 |
| 20° | 4358.5 | 4373.9 | 4308.8 | 4200.3 | 4126.3 | 4079.0 | 4068.8 | 4022.9 | 3906.7 | 3717.8 | 3463.9 |
| 22.5° | 4253.9 | 4261.5 | 4216.9 | 4144.1 | 4113.5 | 4122.4 | 4117.3 | 4091.8 | 3993.5 | 3820.0 | 3574.9 |
| 25° | 4190.1 | 4190.1 | 4163.3 | 4102.0 | 4122.4 | 4177.3 | 4178.6 | 4173.5 | 4095.6 | 3945.0 | 3710.2 |
| 27.5° | 4187.5 | 4179.9 | 4149.2 | 4103.3 | 4159.4 | 4243.7 | 4248.8 | 4283.2 | 4234.7 | 4096.9 | 3878.7 |
| 30° | 4289.6 | 4280.7 | 4215.6 | 4155.6 | 4227.1 | 4317.7 | 4330.5 | 4405.8 | 4381.5 | 4261.5 | 4066.3 |
| 32.5° | 4528.3 | 4496.4 | 4352.2 | 4253.9 | 4307.5 | 4416.0 | 4432.6 | 4552.5 | 4590.8 | 4464.5 | 4247.5 |
| 35° | 4855.0 | 4754.2 | 4546.2 | 4440.2 | 4445.3 | 4558.9 | 4574.2 | 4750.4 | 4864.0 | 4650.8 | 4387.9 |
| 37.5° | 5305.6 | 5255.8 | 4917.6 | 4634.2 | 4657.2 | 4829.5 | 4874.2 | 5065.6 | 5033.7 | 4752.9 | 4547.4 |
| 40° | 6293.4 | 6215.6 | 5855.6 | 5177.9 | 4860.1 | 5049.0 | 5063.1 | 5165.2 | 5167.7 | 4983.9 | 4879.3 |
| 42.5° | 7638.6 | 7606.7 | 7227.7 | 6164.5 | 5259.6 | 5195.8 | 5221.3 | 5393.6 | 5586.3 | 5471.5 | 5466.4 |
| 45° | 9128.1 | 9111.5 | 8709.4 | 7474.0 | 6067.5 | 5677.0 | 5708.9 | 5939.9 | 6308.7 | 6334.3 | 6496.3 |
| 47.5° | 10326.5 | 10318.8 | 10087.8 | 8935.3 | 7304.2 | 6492.5 | 6502.7 | 6747.8 | 7396.1 | 7716.5 | 7975.6 |
| 50° | 11419.0 | 11456.0 | 11273.5 | 10516.7 | 8988.9 | 7770.1 | 7745.8 | 7909.2 | 8950.7 | 9475.2 | 9796.8 |
| 52.5° | 12937.8 | 12990.1 | 12478.3 | 11992.1 | 10756.6 | 9355.2 | 9336.1 | 9507.1 | 10819.2 | 11212.3 | 11269.7 |
| 55° | 14279.2 | 14189.8 | 13785.3 | 13644.9 | 12912.3 | 11313.1 | 11308.0 | 11458.6 | 12626.4 | 12793.6 | 12899.5 |
| 57.5° | 14871.4 | 14836.9 | 15032.2 | 15353.8 | 15170.0 | 13627.0 | 13615.5 | 13500.6 | 14243.5 | 14261.3 | 14586.8 |
| 60° | 15245.3 | 15287.5 | 15886.0 | 16877.7 | 17335.9 | 16117.1 | 16043.0 | 15342.3 | 15787.8 | 15748.2 | 16096.6 |
| 62.5° | 14964.6 | 15047.5 | 16124.7 | 17777.5 | 18956.8 | 18290.6 | 18185.9 | 17029.6 | 17107.5 | 16970.9 | 17295.1 |
| 65° | 13473.8 | 13602.8 | 15367.9 | 17607.8 | 19760.9 | 19989.3 | 19883.4 | 18519.0 | 18155.3 | 17930.7 | 17750.7 |
| 67.5° | 10940.4 | 11017.0 | 12859.9 | 16131.1 | 19398.4 | 21002.7 | 20981.0 | 19824.7 | 18946.6 | 17768.6 | 16372.3 |
| 69° | 9041.3 | 9116.6 | 10890.6 | 14576.6 | 18600.7 | 21219.7 | 21261.8 | 20243.3 | 18796.0 | 16783.3 | 14506.4 |
| 70° | 7657.8 | 7738.2 | 9391.0 | 13244.1 | 17675.4 | 21118.9 | 21194.2 | 20203.8 | 18364.6 | 15642.3 | 12868.9 |
| 72.5° | 4016.5 | 4085.4 | 5781.6 | 9124.2 | 14409.4 | 19392.0 | 19620.5 | 18496.1 | 15567.0 | 11360.3 | 7609.3 |
| 75° | 1262.3 | 1301.8 | 2257.8 | 4769.5 | 9865.8 | 15078.1 | 15130.5 | 14508.9 | 11054.0 | 6248.7 | 3169.0 |
| 77.5° | 481.2 | 469.7 | 751.7 | 1757.5 | 4987.8 | 9494.4 | 9814.7 | 9066.8 | 5800.8 | 2209.3 | 731.3 |
| 80° | 259.1 | 260.4 | 390.5 | 727.5 | 2134.0 | 4879.3 | 5149.9 | 4394.3 | 2061.2 | 689.2 | 168.5 |
| 82.5° | 112.3 | 117.4 | 219.5 | 385.4 | 980.2 | 1799.6 | 1934.9 | 1610.7 | 787.5 | 463.3 | 62.5 |
| 85° | 24.2 | 26.8 | 105.9 | 209.3 | 399.5 | 505.4 | 529.7 | 522.0 | 501.6 | 359.9 | 24.2 |
| 87.5° | 0.0 | 0.0 | 47.2 | 75.3 | 100.8 | 114.9 | 100.8 | 131.5 | 277.0 | 242.5 | 12.8 |
| 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° | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 | 2727.4 |
| 2.5° | 2730.0 | 2707.0 | 2667.5 | 2624.1 | 2593.4 | 2561.5 | 2536.0 | 2524.5 | 2511.7 | 2502.8 | 2514.3 |
| 5° | 2724.9 | 2680.2 | 2603.6 | 2529.6 | 2476.0 | 2432.6 | 2396.9 | 2382.8 | 2368.8 | 2358.6 | 2357.3 |
| 7.5° | 2769.6 | 2707.0 | 2589.6 | 2481.1 | 2398.2 | 2339.4 | 2290.9 | 2270.5 | 2253.9 | 2246.3 | 2239.9 |
| 10° | 2855.1 | 2774.7 | 2617.7 | 2476.0 | 2368.8 | 2269.3 | 2164.6 | 2084.2 | 2031.9 | 2007.6 | 1998.7 |
| 12.5° | 2966.1 | 2865.3 | 2671.3 | 2502.8 | 2347.1 | 2155.7 | 1933.6 | 1742.1 | 1618.3 | 1577.5 | 1553.3 |
| 15° | 3096.3 | 2971.2 | 2741.5 | 2537.3 | 2268.0 | 1918.3 | 1541.8 | 1291.6 | 1176.7 | 1153.8 | 1128.2 |
| 17.5° | 3221.4 | 3083.5 | 2825.7 | 2543.7 | 2094.4 | 1532.8 | 1129.5 | 959.8 | 915.1 | 930.4 | 934.2 |
| 20° | 3331.1 | 3194.6 | 2908.7 | 2487.5 | 1779.2 | 1149.9 | 874.3 | 832.1 | 848.7 | 878.1 | 883.2 |
| 22.5° | 3442.2 | 3301.8 | 2985.3 | 2339.4 | 1375.8 | 873.0 | 787.5 | 797.7 | 814.3 | 843.6 | 848.7 |
| 25° | 3577.5 | 3432.0 | 3056.7 | 2067.6 | 1032.5 | 742.8 | 747.9 | 763.2 | 779.8 | 806.6 | 809.2 |
| 27.5° | 3733.2 | 3596.6 | 3103.9 | 1714.1 | 765.8 | 682.8 | 699.4 | 722.4 | 739.0 | 764.5 | 769.6 |
| 30° | 3939.9 | 3813.6 | 3119.3 | 1347.8 | 642.0 | 629.2 | 636.9 | 664.9 | 689.2 | 712.2 | 716.0 |
| 32.5° | 4133.9 | 4028.0 | 3068.2 | 1017.2 | 594.8 | 579.4 | 579.4 | 596.0 | 624.1 | 645.8 | 650.9 |
| 35° | 4312.6 | 4243.7 | 2904.8 | 744.1 | 559.0 | 533.5 | 520.7 | 520.7 | 538.6 | 556.5 | 561.6 |
| 37.5° | 4548.7 | 4546.2 | 2640.7 | 593.5 | 524.6 | 495.2 | 468.4 | 448.0 | 441.6 | 445.4 | 448.0 |
| 40° | 4953.3 | 4957.1 | 2296.1 | 532.2 | 495.2 | 455.6 | 414.8 | 377.8 | 343.3 | 331.8 | 330.6 |
| 42.5° | 5585.1 | 5527.6 | 1934.9 | 502.9 | 469.7 | 414.8 | 353.5 | 303.8 | 250.2 | 233.6 | 232.3 |
| 45° | 6588.2 | 6247.5 | 1552.0 | 476.1 | 442.9 | 368.8 | 292.3 | 224.6 | 181.2 | 168.5 | 168.5 |
| 47.5° | 8049.6 | 7193.2 | 1202.3 | 446.7 | 407.1 | 316.5 | 220.8 | 162.1 | 132.7 | 126.4 | 127.6 |
| 50° | 9560.7 | 8119.8 | 921.5 | 409.7 | 363.7 | 261.6 | 163.4 | 117.4 | 100.8 | 100.8 | 102.1 |
| 52.5° | 10900.8 | 8798.8 | 718.6 | 370.1 | 310.1 | 205.5 | 123.8 | 91.9 | 84.2 | 83.0 | 84.2 |
| 55° | 12155.4 | 9236.5 | 550.1 | 324.2 | 246.3 | 153.2 | 94.4 | 75.3 | 70.2 | 67.6 | 66.4 |
| 57.5° | 13365.4 | 9453.5 | 412.2 | 261.6 | 178.7 | 111.0 | 75.3 | 63.8 | 58.7 | 54.9 | 53.6 |
| 60° | 14170.7 | 9277.4 | 283.3 | 192.7 | 123.8 | 80.4 | 62.5 | 54.9 | 48.5 | 44.7 | 43.4 |
| 62.5° | 14625.1 | 8796.2 | 182.5 | 139.1 | 88.1 | 60.0 | 49.8 | 45.9 | 37.0 | 33.2 | 33.2 |
| 65° | 14441.3 | 8002.4 | 127.6 | 99.6 | 63.8 | 44.7 | 37.0 | 37.0 | 26.8 | 21.7 | 20.4 |
| 67.5° | 12797.4 | 6760.5 | 97.0 | 74.0 | 45.9 | 33.2 | 28.1 | 31.9 | 16.6 | 10.2 | 10.2 |
| 69° | 11010.6 | 5602.9 | 83.0 | 61.3 | 38.3 | 26.8 | 24.2 | 29.4 | 11.5 | 7.7 | 6.4 |
| 70° | 9569.7 | 4833.3 | 75.3 | 53.6 | 31.9 | 23.0 | 21.7 | 28.1 | 11.5 | 6.4 | 5.1 |
| 72.5° | 5725.5 | 2695.5 | 57.4 | 38.3 | 20.4 | 17.9 | 17.9 | 31.9 | 11.5 | 6.4 | 5.1 |
| 75° | 2313.9 | 949.6 | 42.1 | 26.8 | 15.3 | 15.3 | 21.7 | 40.8 | 10.2 | 5.1 | 3.8 |
| 77.5° | 524.6 | 208.0 | 24.2 | 16.6 | 10.2 | 15.3 | 25.5 | 31.9 | 6.4 | 2.6 | 0.0 |
| 80° | 127.6 | 51.1 | 15.3 | 10.2 | 6.4 | 11.5 | 19.1 | 17.9 | 1.3 | 0.0 | 0.0 |
| 82.5° | 42.1 | 17.9 | 6.4 | 5.1 | 1.3 | 3.8 | 8.9 | 5.1 | 0.0 | 0.0 | 0.0 |
| 85° | 17.9 | 10.2 | 2.6 | 1.3 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 11.5 | 3.8 | 0.0 | 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)