

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: P320017

Luminaire Tested: **GAN-SA3D-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320017
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22510 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

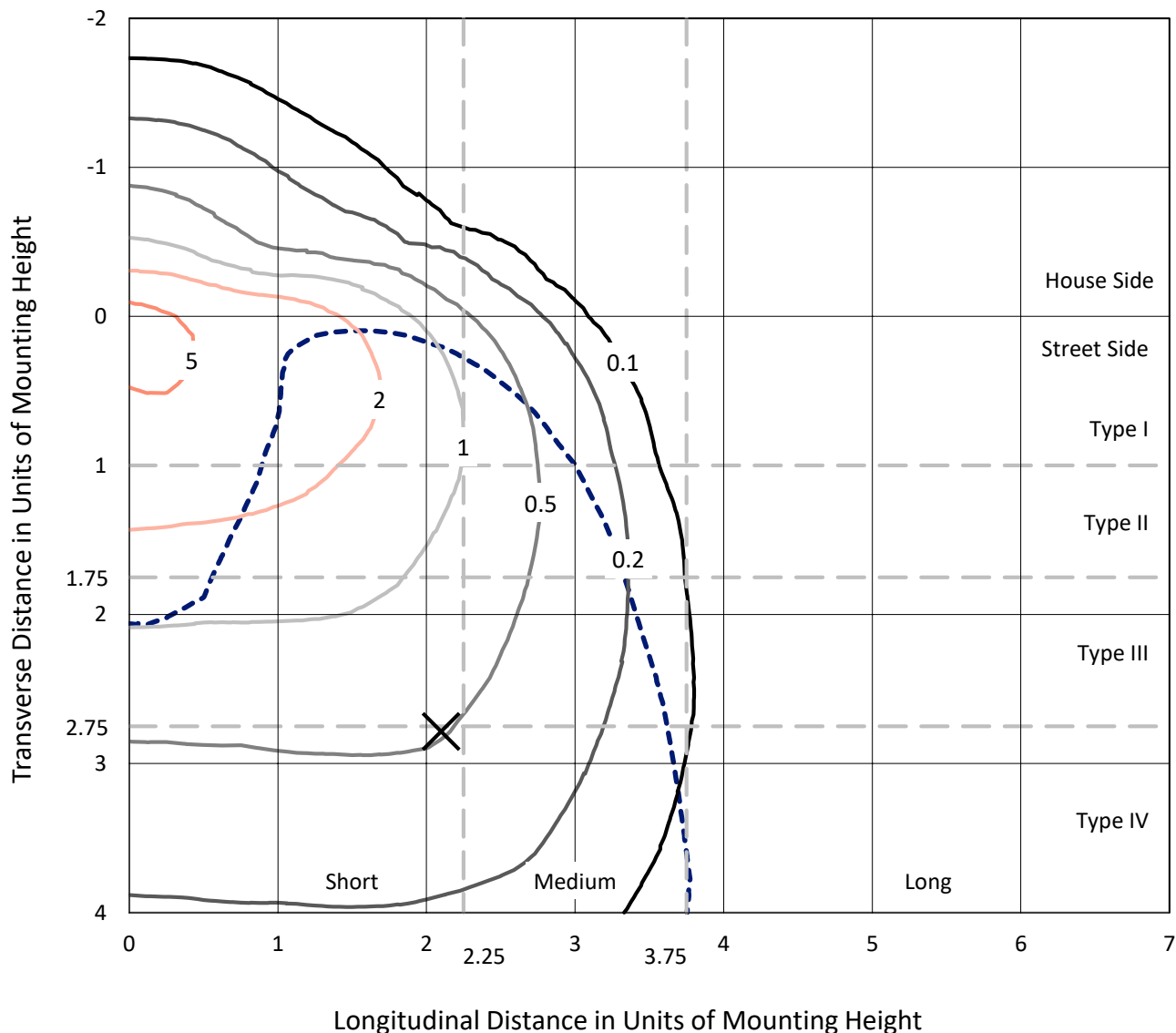
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

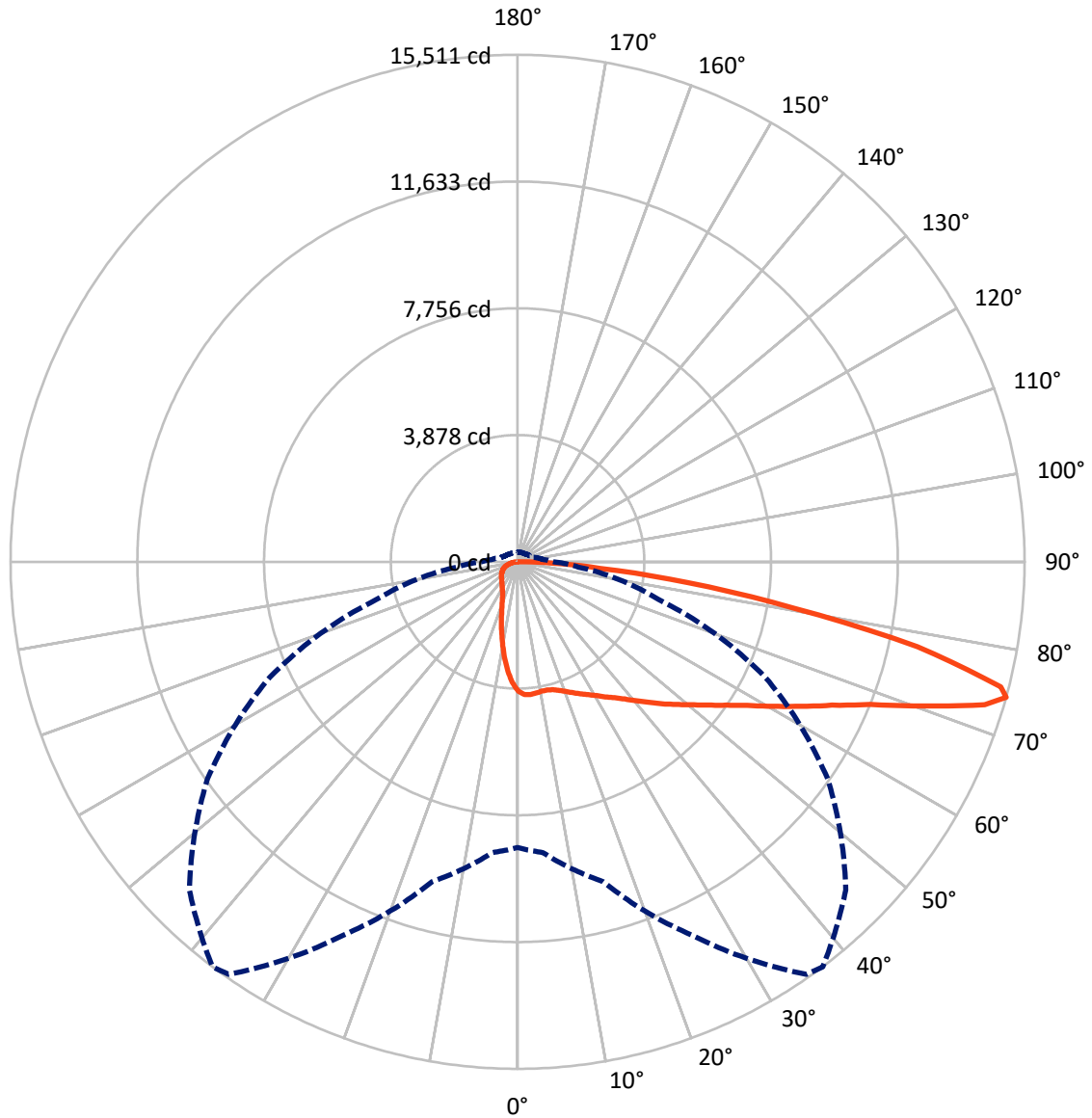
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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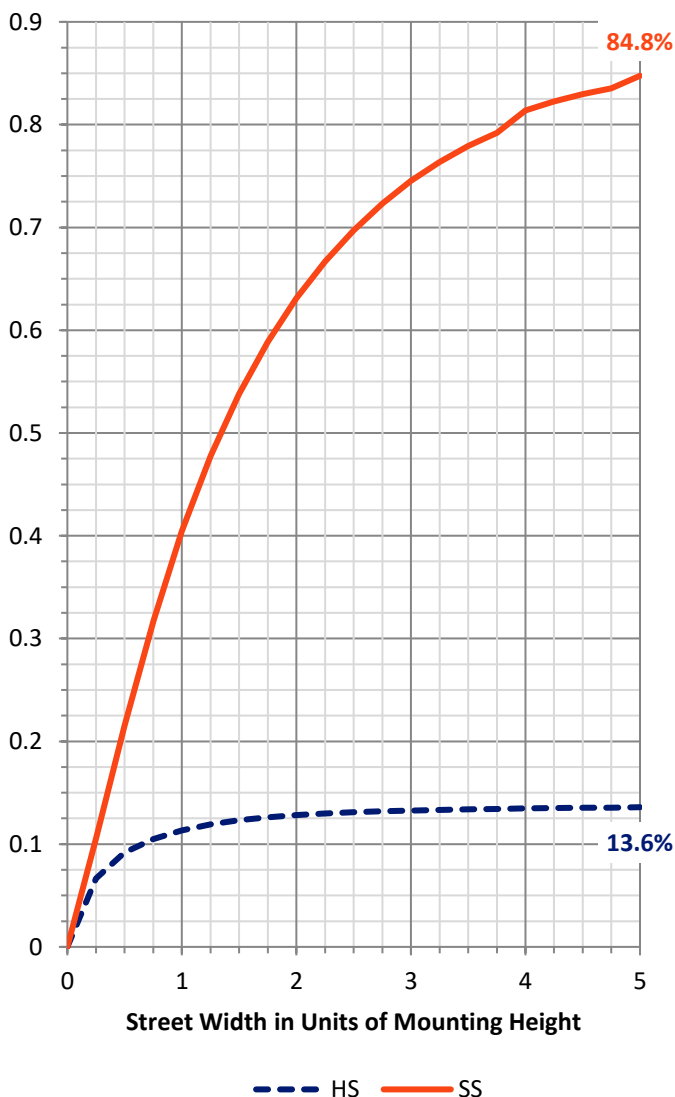
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3097.2 | 0.0 | 3097.2 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 19412.8 | 0.0 | 19412.8 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 22510.0 | 0.0 | 22510.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 349.3 | 1.6 |
| 10°-20° | 895.3 | 4.0 |
| 20°-30° | 1379.4 | 6.1 |
| 30°-40° | 2005.9 | 8.9 |
| 40°-50° | 2952.3 | 13.1 |
| 50°-60° | 4146.0 | 18.4 |
| 60°-70° | 5247.6 | 23.3 |
| 70°-80° | 4620.7 | 20.5 |
| 80°-90° | 913.6 | 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° | 22510.0 | 100.0 |
| 0°-180° | 22510.0 | 100.0 |

Coefficient of Utilization

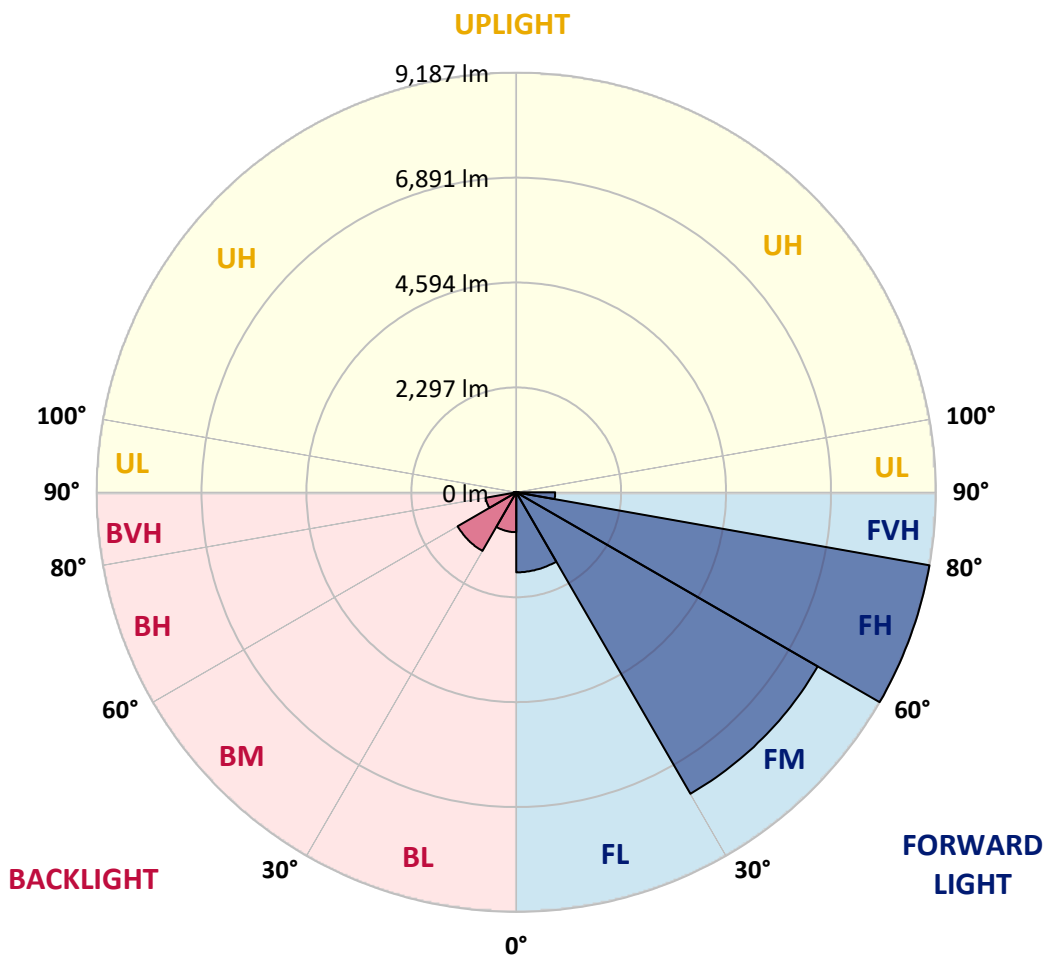


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1751.5 | 7.8 | | | |
| FM (30°-60°) | 7622.1 | 33.9 | | | |
| FH (60°-80°) | 9187.4 | 40.8 | | | G4/12000 |
| FVH (80°-90°) | 851.7 | 3.8 | | | G5 |
| BL (0°-30°) | 872.4 | 3.9 | B2/1000 | | |
| BM (30°-60°) | 1482.1 | 6.6 | B2/2500 | | |
| BH (60°-80°) | 680.8 | 3.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 61.9 | 0.3 | | | G1/100 |
| 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° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 |
| 2.5° | 4101.8 | 4102.6 | 4101.8 | 4095.4 | 4080.4 | 4067.7 | 4057.4 | 4042.3 | 4009.0 | 3983.6 | 3945.6 |
| 5° | 4140.6 | 4135.9 | 4132.7 | 4120.8 | 4097.0 | 4082.7 | 4062.9 | 4034.4 | 3979.7 | 3928.9 | 3867.1 |
| 7.5° | 4122.4 | 4116.8 | 4109.7 | 4095.4 | 4068.5 | 4056.6 | 4028.8 | 3991.5 | 3925.7 | 3859.1 | 3770.3 |
| 10° | 4066.1 | 4064.5 | 4061.3 | 4058.2 | 4035.2 | 4025.6 | 4000.3 | 3960.6 | 3895.6 | 3814.7 | 3710.9 |
| 12.5° | 4003.4 | 4007.4 | 4020.1 | 4036.7 | 4026.4 | 4021.7 | 4005.8 | 3978.9 | 3912.3 | 3825.0 | 3699.8 |
| 15° | 3963.8 | 3974.9 | 4009.0 | 4052.6 | 4061.3 | 4059.7 | 4055.8 | 4038.3 | 3967.8 | 3871.0 | 3725.1 |
| 17.5° | 3950.3 | 3968.6 | 4033.6 | 4105.7 | 4131.1 | 4136.7 | 4138.2 | 4108.1 | 4029.6 | 3927.3 | 3751.3 |
| 20° | 3974.9 | 3997.9 | 4093.0 | 4192.2 | 4232.6 | 4235.8 | 4228.6 | 4176.3 | 4088.3 | 3975.7 | 3765.6 |
| 22.5° | 4049.4 | 4070.0 | 4189.0 | 4300.8 | 4346.8 | 4351.5 | 4330.1 | 4250.8 | 4150.1 | 4032.8 | 3785.4 |
| 25° | 4192.9 | 4218.3 | 4337.3 | 4449.1 | 4472.8 | 4473.6 | 4442.7 | 4344.4 | 4231.0 | 4112.9 | 3828.2 |
| 27.5° | 4380.1 | 4405.5 | 4512.5 | 4621.9 | 4609.2 | 4602.1 | 4560.1 | 4461.7 | 4336.5 | 4223.1 | 3904.3 |
| 30° | 4588.6 | 4616.4 | 4717.9 | 4795.6 | 4765.4 | 4751.2 | 4717.1 | 4590.2 | 4483.2 | 4373.7 | 4020.9 |
| 32.5° | 4804.3 | 4829.7 | 4918.5 | 4971.6 | 4933.5 | 4927.2 | 4875.7 | 4759.9 | 4674.3 | 4603.7 | 4209.6 |
| 35° | 5025.5 | 5043.8 | 5131.0 | 5161.1 | 5110.4 | 5108.8 | 5094.5 | 4988.2 | 4934.3 | 4967.6 | 4484.0 |
| 37.5° | 5251.5 | 5256.3 | 5330.8 | 5332.4 | 5317.3 | 5323.7 | 5338.7 | 5272.1 | 5287.2 | 5391.0 | 4840.8 |
| 40° | 5452.9 | 5465.6 | 5519.5 | 5536.2 | 5562.3 | 5584.5 | 5659.8 | 5616.2 | 5732.8 | 5916.8 | 5284.8 |
| 42.5° | 5602.0 | 5626.5 | 5713.0 | 5755.8 | 5840.6 | 5875.5 | 5981.8 | 6022.2 | 6256.9 | 6532.8 | 5812.9 |
| 45° | 5728.0 | 5766.1 | 5904.9 | 5992.9 | 6136.4 | 6197.4 | 6349.7 | 6485.3 | 6849.2 | 7201.3 | 6368.7 |
| 47.5° | 5864.4 | 5912.8 | 6086.4 | 6254.5 | 6449.6 | 6518.6 | 6795.3 | 6998.3 | 7481.2 | 7873.7 | 6892.8 |
| 50° | 6065.0 | 6102.3 | 6272.0 | 6536.0 | 6779.4 | 6868.3 | 7251.2 | 7542.2 | 8123.4 | 8514.4 | 7347.2 |
| 52.5° | 6344.9 | 6330.7 | 6474.2 | 6844.5 | 7171.1 | 7280.6 | 7738.1 | 8121.1 | 8774.4 | 9094.0 | 7730.9 |
| 55° | 6626.4 | 6602.6 | 6703.3 | 7167.2 | 7627.9 | 7742.8 | 8274.1 | 8702.3 | 9393.7 | 9615.7 | 8025.1 |
| 57.5° | 6939.6 | 6894.4 | 6979.3 | 7531.1 | 8148.0 | 8285.2 | 8874.3 | 9320.0 | 10002.7 | 10037.5 | 8212.2 |
| 60° | 7262.3 | 7201.3 | 7296.4 | 7982.3 | 8808.5 | 8970.3 | 9576.9 | 9922.6 | 10576.7 | 10375.3 | 8272.5 |
| 62.5° | 7544.6 | 7501.8 | 7648.5 | 8485.8 | 9553.1 | 9730.7 | 10266.7 | 10563.3 | 11142.9 | 10515.7 | 8055.3 |
| 65° | 7791.2 | 7798.3 | 8052.1 | 9051.9 | 10383.3 | 10572.8 | 11058.0 | 11353.0 | 11588.5 | 10432.4 | 7547.0 |
| 67.5° | 8085.4 | 8125.8 | 8558.8 | 9797.3 | 11428.3 | 11636.1 | 12209.3 | 12214.1 | 11837.5 | 9944.0 | 6546.3 |
| 70° | 8514.4 | 8597.6 | 9255.7 | 10831.3 | 12914.3 | 13199.7 | 13642.2 | 12720.0 | 11487.8 | 8619.8 | 5150.8 |
| 72.5° | 8895.0 | 9050.4 | 9997.1 | 12014.3 | 14725.3 | 14941.7 | 14480.3 | 12428.2 | 10026.4 | 6459.9 | 3208.9 |
| 74° | 8740.3 | 8933.0 | 10131.9 | 12597.1 | 15407.2 | 15511.1 | 14197.2 | 11576.6 | 8359.7 | 4473.6 | 1864.9 |
| 75° | 8407.3 | 8616.6 | 9935.3 | 12591.5 | 15320.8 | 15262.9 | 13513.7 | 10603.7 | 6884.9 | 3051.1 | 1240.9 |
| 77.5° | 6785.0 | 7006.2 | 8371.6 | 10791.6 | 12562.2 | 12507.5 | 10380.9 | 7113.3 | 3015.5 | 1000.7 | 630.4 |
| 80° | 3944.8 | 4113.7 | 5196.8 | 6853.2 | 8470.7 | 8569.9 | 6827.0 | 3519.8 | 1186.2 | 562.2 | 427.4 |
| 82.5° | 1752.3 | 1868.9 | 2510.4 | 3498.4 | 5111.9 | 5239.6 | 3575.3 | 1844.3 | 732.7 | 341.7 | 256.9 |
| 85° | 1149.7 | 1236.2 | 1524.0 | 1665.9 | 2434.3 | 2521.5 | 1750.0 | 1436.0 | 483.7 | 187.9 | 188.7 |
| 87.5° | 827.0 | 910.3 | 1132.3 | 988.8 | 1117.2 | 1057.8 | 952.3 | 1328.9 | 194.3 | 107.0 | 63.4 |
| 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° | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 | 3966.2 |
| 2.5° | 3928.9 | 3916.2 | 3887.7 | 3833.8 | 3803.6 | 3778.3 | 3736.2 | 3711.6 | 3700.5 | 3699.8 | 3704.5 |
| 5° | 3831.4 | 3802.0 | 3728.3 | 3637.9 | 3565.8 | 3499.9 | 3418.3 | 3369.1 | 3334.2 | 3313.6 | 3319.2 |
| 7.5° | 3718.0 | 3672.0 | 3556.2 | 3411.9 | 3296.2 | 3168.5 | 3042.4 | 2967.1 | 2908.4 | 2864.8 | 2872.7 |
| 10° | 3640.3 | 3576.9 | 3408.0 | 3200.2 | 3007.5 | 2822.0 | 2648.3 | 2544.5 | 2462.0 | 2398.6 | 2403.3 |
| 12.5° | 3614.1 | 3528.5 | 3294.6 | 3017.1 | 2746.7 | 2492.9 | 2266.2 | 2106.8 | 2021.9 | 1949.8 | 1955.3 |
| 15° | 3618.1 | 3503.1 | 3199.4 | 2852.1 | 2512.0 | 2192.4 | 1917.3 | 1730.9 | 1616.0 | 1566.0 | 1566.8 |
| 17.5° | 3621.3 | 3473.8 | 3099.5 | 2675.3 | 2279.6 | 1911.7 | 1612.8 | 1424.1 | 1315.5 | 1269.5 | 1270.3 |
| 20° | 3610.9 | 3426.2 | 2975.8 | 2472.3 | 2037.0 | 1654.0 | 1364.6 | 1204.4 | 1122.0 | 1086.3 | 1086.3 |
| 22.5° | 3597.5 | 3369.9 | 2836.3 | 2268.5 | 1797.5 | 1430.4 | 1187.0 | 1064.9 | 1017.3 | 993.5 | 992.7 |
| 25° | 3603.8 | 3327.9 | 2693.5 | 2059.2 | 1577.1 | 1252.0 | 1068.9 | 988.0 | 956.3 | 941.2 | 940.4 |
| 27.5° | 3637.9 | 3308.1 | 2561.9 | 1850.7 | 1384.4 | 1118.0 | 989.6 | 932.5 | 911.9 | 902.3 | 902.3 |
| 30° | 3699.8 | 3308.1 | 2424.7 | 1673.1 | 1224.3 | 1018.9 | 928.5 | 889.7 | 875.4 | 869.0 | 869.0 |
| 32.5° | 3807.6 | 3326.3 | 2292.3 | 1497.0 | 1096.6 | 941.2 | 877.8 | 851.6 | 840.5 | 837.3 | 837.3 |
| 35° | 3993.1 | 3388.1 | 2163.1 | 1330.5 | 993.5 | 877.8 | 829.4 | 814.3 | 806.4 | 805.6 | 808.0 |
| 37.5° | 4254.0 | 3514.2 | 2041.8 | 1207.6 | 920.6 | 826.2 | 789.0 | 777.1 | 772.3 | 776.3 | 779.4 |
| 40° | 4582.3 | 3685.5 | 1931.5 | 1096.6 | 865.1 | 785.0 | 751.7 | 743.8 | 741.4 | 746.9 | 751.7 |
| 42.5° | 4978.7 | 3917.0 | 1841.2 | 1016.5 | 822.3 | 750.1 | 720.0 | 710.5 | 708.1 | 714.4 | 720.8 |
| 45° | 5407.7 | 4166.0 | 1777.7 | 957.1 | 789.0 | 723.9 | 692.2 | 681.9 | 677.2 | 680.3 | 687.5 |
| 47.5° | 5797.8 | 4401.5 | 1752.3 | 915.0 | 757.2 | 701.7 | 667.6 | 655.0 | 647.0 | 645.4 | 651.0 |
| 50° | 6126.9 | 4576.7 | 1764.2 | 889.7 | 731.9 | 677.2 | 643.8 | 629.6 | 617.7 | 610.5 | 614.5 |
| 52.5° | 6366.3 | 4686.9 | 1775.3 | 878.6 | 712.0 | 650.2 | 617.7 | 604.2 | 588.3 | 576.5 | 576.5 |
| 55° | 6540.0 | 4712.3 | 1750.8 | 869.8 | 697.0 | 620.9 | 588.3 | 575.7 | 559.8 | 546.3 | 544.7 |
| 57.5° | 6608.2 | 4640.9 | 1659.6 | 857.1 | 686.7 | 593.1 | 557.4 | 547.9 | 534.4 | 518.6 | 517.8 |
| 60° | 6516.2 | 4420.5 | 1483.5 | 830.2 | 673.2 | 570.1 | 526.5 | 520.2 | 513.8 | 498.7 | 498.0 |
| 62.5° | 6146.7 | 3936.8 | 1256.0 | 775.5 | 646.2 | 545.5 | 498.0 | 501.1 | 501.9 | 491.6 | 490.0 |
| 65° | 5476.7 | 3272.4 | 1034.0 | 704.1 | 605.8 | 516.2 | 468.6 | 483.7 | 492.4 | 490.8 | 488.4 |
| 67.5° | 4503.0 | 2546.9 | 876.2 | 628.8 | 552.7 | 475.8 | 436.9 | 454.3 | 461.5 | 467.0 | 465.4 |
| 70° | 3342.1 | 1796.0 | 724.7 | 549.5 | 488.4 | 428.2 | 395.7 | 404.4 | 399.6 | 406.0 | 408.4 |
| 72.5° | 1863.4 | 1077.6 | 590.7 | 470.2 | 421.8 | 372.7 | 349.7 | 348.1 | 337.8 | 337.8 | 337.8 |
| 74° | 1118.0 | 790.5 | 519.4 | 421.0 | 381.4 | 336.2 | 316.4 | 309.2 | 299.7 | 300.5 | 299.7 |
| 75° | 899.2 | 679.5 | 476.5 | 388.5 | 352.8 | 314.8 | 295.0 | 285.5 | 278.3 | 278.3 | 277.5 |
| 77.5° | 567.7 | 516.2 | 383.8 | 309.2 | 282.3 | 259.3 | 245.8 | 233.1 | 233.1 | 232.3 | 231.5 |
| 80° | 429.0 | 410.7 | 298.9 | 233.9 | 216.5 | 199.0 | 190.3 | 184.7 | 184.7 | 187.1 | 186.3 |
| 82.5° | 294.2 | 309.2 | 210.1 | 163.3 | 154.6 | 141.9 | 140.3 | 141.1 | 138.8 | 135.6 | 134.8 |
| 85° | 214.9 | 232.3 | 141.9 | 103.1 | 94.4 | 86.4 | 92.8 | 95.9 | 92.0 | 84.8 | 81.7 |
| 87.5° | 82.5 | 152.2 | 76.1 | 42.8 | 39.6 | 34.1 | 39.6 | 41.2 | 44.4 | 34.9 | 35.7 |
| 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)