

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: P320057

Luminaire Tested: **GAN-SA3D-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320057
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-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 22509 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

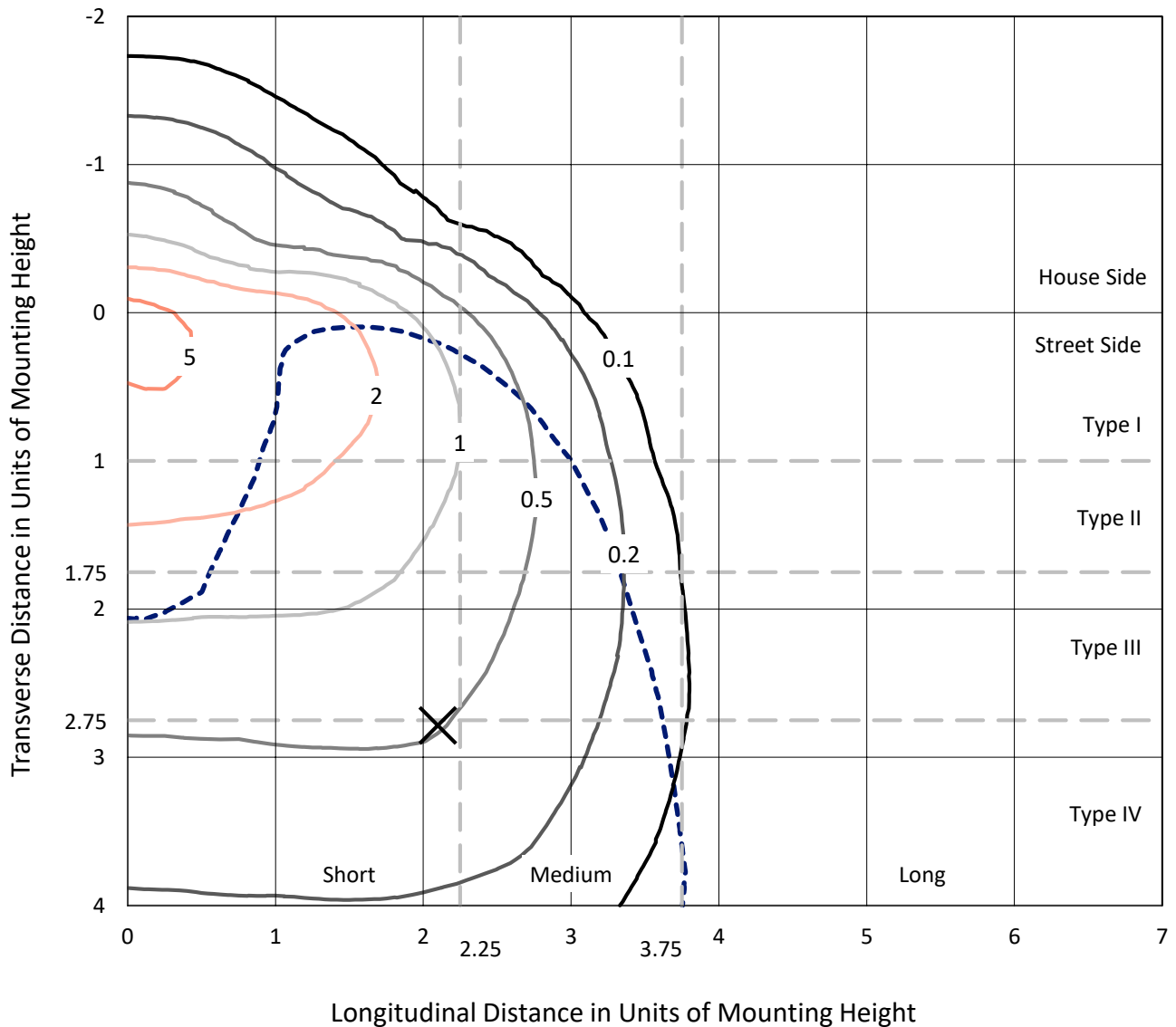
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

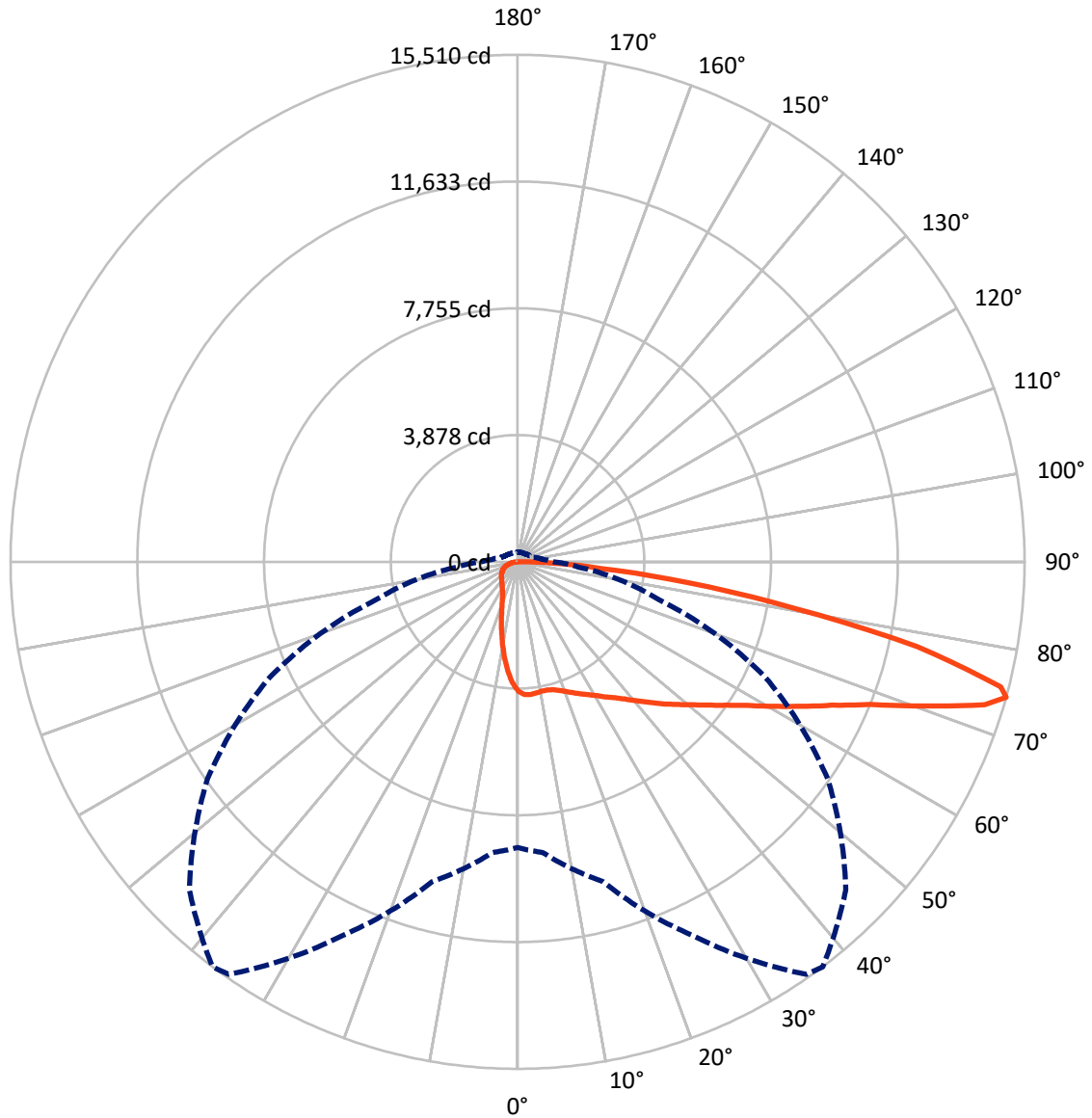
✕ Max cd
 - - - 1/2 Max cd



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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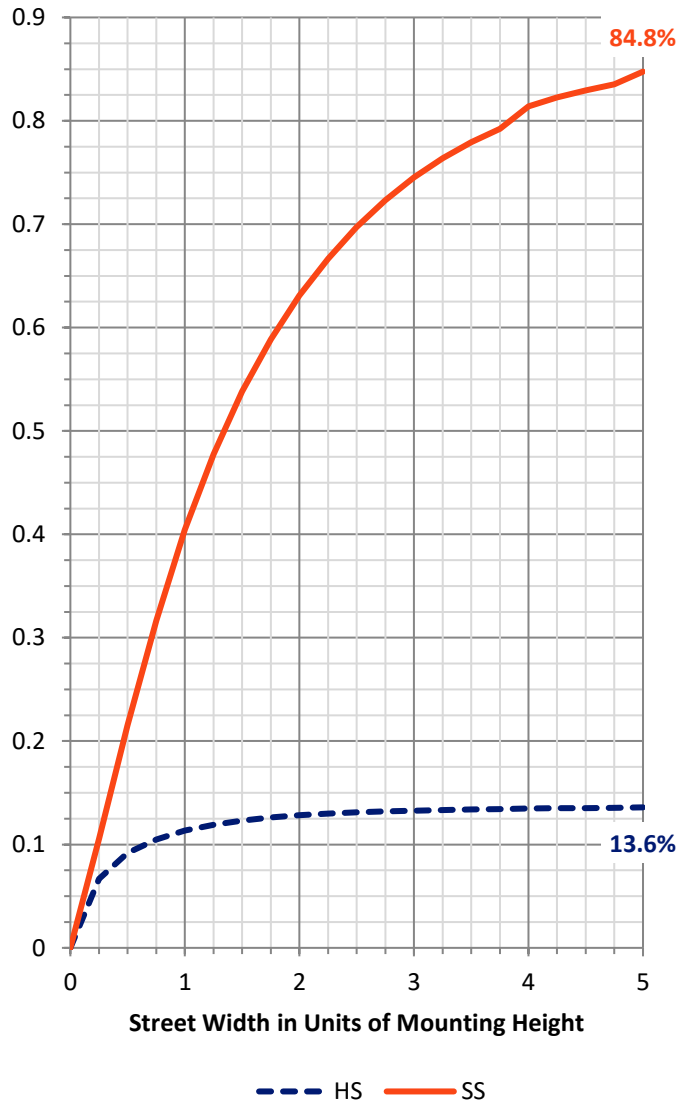
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3097.1 | 0.0 | 3097.1 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 19411.9 | 0.0 | 19411.9 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 22509.0 | 0.0 | 22509.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 349.3 | 1.6 |
| 10°-20° | 895.2 | 4.0 |
| 20°-30° | 1379.4 | 6.1 |
| 30°-40° | 2005.8 | 8.9 |
| 40°-50° | 2952.2 | 13.1 |
| 50°-60° | 4145.8 | 18.4 |
| 60°-70° | 5247.3 | 23.3 |
| 70°-80° | 4620.5 | 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° | 22509.0 | 100.0 |
| 0°-180° | 22509.0 | 100.0 |

Coefficient of Utilization

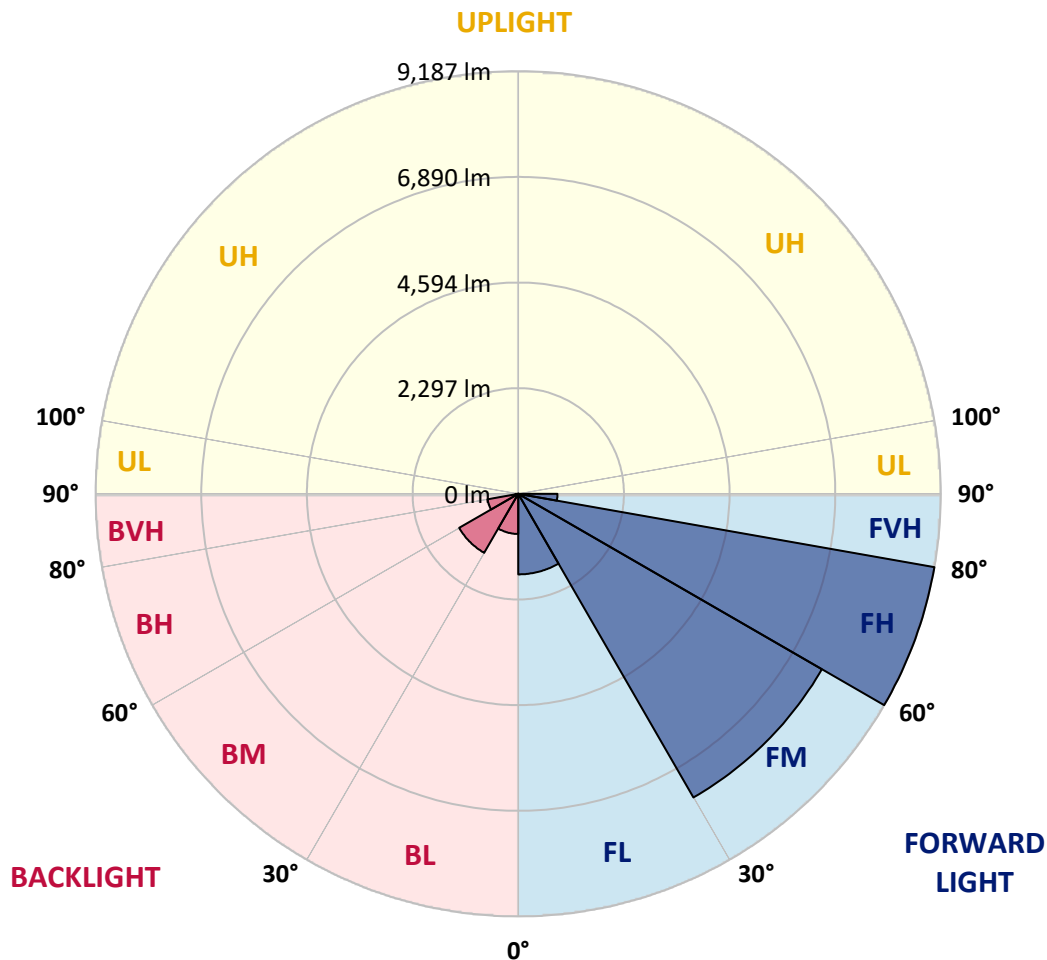


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1751.5 | 7.8 | | | |
| FM (30°-60°) | 7621.7 | 33.9 | | | |
| FH (60°-80°) | 9187.0 | 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° | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 |
| 2.5° | 4101.6 | 4102.4 | 4101.6 | 4095.2 | 4080.2 | 4067.5 | 4057.2 | 4042.1 | 4008.8 | 3983.4 | 3945.4 |
| 5° | 4140.4 | 4135.7 | 4132.5 | 4120.6 | 4096.8 | 4082.6 | 4062.7 | 4034.2 | 3979.5 | 3928.7 | 3866.9 |
| 7.5° | 4122.2 | 4116.6 | 4109.5 | 4095.2 | 4068.3 | 4056.4 | 4028.6 | 3991.4 | 3925.6 | 3859.0 | 3770.2 |
| 10° | 4065.9 | 4064.3 | 4061.1 | 4058.0 | 4035.0 | 4025.5 | 4000.1 | 3960.4 | 3895.4 | 3814.6 | 3710.7 |
| 12.5° | 4003.3 | 4007.2 | 4019.9 | 4036.6 | 4026.3 | 4021.5 | 4005.6 | 3978.7 | 3912.1 | 3824.9 | 3699.6 |
| 15° | 3963.6 | 3974.7 | 4008.8 | 4052.4 | 4061.1 | 4059.6 | 4055.6 | 4038.2 | 3967.6 | 3870.9 | 3725.0 |
| 17.5° | 3950.1 | 3968.4 | 4033.4 | 4105.5 | 4130.9 | 4136.5 | 4138.1 | 4107.9 | 4029.4 | 3927.1 | 3751.1 |
| 20° | 3974.7 | 3997.7 | 4092.9 | 4192.0 | 4232.4 | 4235.6 | 4228.4 | 4176.1 | 4088.1 | 3975.5 | 3765.4 |
| 22.5° | 4049.3 | 4069.9 | 4188.8 | 4300.6 | 4346.6 | 4351.3 | 4329.9 | 4250.6 | 4149.9 | 4032.6 | 3785.2 |
| 25° | 4192.8 | 4218.1 | 4337.1 | 4448.9 | 4472.7 | 4473.4 | 4442.5 | 4344.2 | 4230.8 | 4112.7 | 3828.0 |
| 27.5° | 4379.9 | 4405.3 | 4512.3 | 4621.7 | 4609.0 | 4601.9 | 4559.9 | 4461.6 | 4336.3 | 4222.9 | 3904.2 |
| 30° | 4588.4 | 4616.2 | 4717.7 | 4795.4 | 4765.2 | 4751.0 | 4716.9 | 4590.0 | 4483.0 | 4373.5 | 4020.7 |
| 32.5° | 4804.1 | 4829.4 | 4918.3 | 4971.4 | 4933.3 | 4927.0 | 4875.4 | 4759.7 | 4674.0 | 4603.5 | 4209.4 |
| 35° | 5025.3 | 5043.5 | 5130.7 | 5160.9 | 5110.1 | 5108.5 | 5094.3 | 4988.0 | 4934.1 | 4967.4 | 4483.8 |
| 37.5° | 5251.3 | 5256.0 | 5330.5 | 5332.1 | 5317.1 | 5323.4 | 5338.5 | 5271.9 | 5286.9 | 5390.8 | 4840.5 |
| 40° | 5452.7 | 5465.3 | 5519.3 | 5535.9 | 5562.1 | 5584.3 | 5659.6 | 5616.0 | 5732.5 | 5916.5 | 5284.6 |
| 42.5° | 5601.7 | 5626.3 | 5712.7 | 5755.5 | 5840.4 | 5875.3 | 5981.5 | 6021.9 | 6256.6 | 6532.6 | 5812.6 |
| 45° | 5727.8 | 5765.8 | 5904.6 | 5992.6 | 6136.1 | 6197.2 | 6349.4 | 6485.0 | 6848.9 | 7201.0 | 6368.4 |
| 47.5° | 5864.2 | 5912.5 | 6086.2 | 6254.3 | 6449.3 | 6518.3 | 6795.0 | 6998.0 | 7480.8 | 7873.3 | 6892.5 |
| 50° | 6064.8 | 6102.0 | 6271.7 | 6535.7 | 6779.1 | 6867.9 | 7250.9 | 7541.9 | 8123.1 | 8514.0 | 7346.8 |
| 52.5° | 6344.6 | 6330.4 | 6473.9 | 6844.2 | 7170.8 | 7280.2 | 7737.7 | 8120.7 | 8774.0 | 9093.6 | 7730.6 |
| 55° | 6626.1 | 6602.3 | 6703.0 | 7166.9 | 7627.5 | 7742.5 | 8273.7 | 8701.9 | 9393.3 | 9615.3 | 8024.8 |
| 57.5° | 6939.3 | 6894.1 | 6979.0 | 7530.8 | 8147.7 | 8284.8 | 8873.9 | 9319.5 | 10002.2 | 10037.1 | 8211.9 |
| 60° | 7262.0 | 7201.0 | 7296.1 | 7981.9 | 8808.1 | 8969.9 | 9576.4 | 9922.1 | 10576.3 | 10374.9 | 8272.1 |
| 62.5° | 7544.3 | 7501.5 | 7648.1 | 8485.4 | 9552.6 | 9730.3 | 10266.2 | 10562.8 | 11142.4 | 10515.2 | 8054.9 |
| 65° | 7790.9 | 7798.0 | 8051.7 | 9051.5 | 10382.8 | 10572.3 | 11057.5 | 11352.5 | 11588.0 | 10432.0 | 7546.7 |
| 67.5° | 8085.0 | 8125.5 | 8558.4 | 9796.9 | 11427.8 | 11635.6 | 12208.8 | 12213.6 | 11836.9 | 9943.5 | 6546.0 |
| 70° | 8514.0 | 8597.2 | 9255.3 | 10830.8 | 12913.7 | 13199.1 | 13641.5 | 12719.4 | 11487.3 | 8619.4 | 5150.6 |
| 72.5° | 8894.6 | 9050.0 | 9996.7 | 12013.8 | 14724.6 | 14941.1 | 14479.6 | 12427.6 | 10026.0 | 6459.6 | 3208.8 |
| 74° | 8739.9 | 8932.6 | 10131.5 | 12596.5 | 15406.5 | 15510.4 | 14196.6 | 11576.1 | 8359.4 | 4473.4 | 1864.9 |
| 75° | 8406.9 | 8616.3 | 9934.8 | 12591.0 | 15320.1 | 15262.2 | 13513.1 | 10603.2 | 6884.6 | 3051.0 | 1240.9 |
| 77.5° | 6784.7 | 7005.9 | 8371.3 | 10791.1 | 12561.6 | 12506.9 | 10380.4 | 7112.9 | 3015.3 | 1000.6 | 630.3 |
| 80° | 3944.6 | 4113.5 | 5196.6 | 6852.9 | 8470.4 | 8569.5 | 6826.7 | 3519.6 | 1186.2 | 562.2 | 427.4 |
| 82.5° | 1752.3 | 1868.8 | 2510.3 | 3498.2 | 5111.7 | 5239.4 | 3575.1 | 1844.2 | 732.6 | 341.7 | 256.9 |
| 85° | 1149.7 | 1236.1 | 1523.9 | 1665.8 | 2434.1 | 2521.4 | 1749.9 | 1435.9 | 483.7 | 187.9 | 188.7 |
| 87.5° | 827.0 | 910.2 | 1132.2 | 988.7 | 1117.2 | 1057.7 | 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° | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 | 3966.0 |
| 2.5° | 3928.7 | 3916.0 | 3887.5 | 3833.6 | 3803.5 | 3778.1 | 3736.1 | 3711.5 | 3700.4 | 3699.6 | 3704.3 |
| 5° | 3831.2 | 3801.9 | 3728.1 | 3637.7 | 3565.6 | 3499.8 | 3418.1 | 3369.0 | 3334.1 | 3313.5 | 3319.0 |
| 7.5° | 3717.8 | 3671.8 | 3556.1 | 3411.8 | 3296.0 | 3168.4 | 3042.3 | 2967.0 | 2908.3 | 2864.7 | 2872.6 |
| 10° | 3640.1 | 3576.7 | 3407.8 | 3200.1 | 3007.4 | 2821.9 | 2648.2 | 2544.4 | 2461.9 | 2398.5 | 2403.2 |
| 12.5° | 3614.0 | 3528.3 | 3294.4 | 3016.9 | 2746.5 | 2492.8 | 2266.1 | 2106.7 | 2021.9 | 1949.7 | 1955.2 |
| 15° | 3617.9 | 3503.0 | 3199.3 | 2852.0 | 2511.9 | 2192.3 | 1917.2 | 1730.9 | 1615.9 | 1565.9 | 1566.7 |
| 17.5° | 3621.1 | 3473.6 | 3099.4 | 2675.2 | 2279.5 | 1911.6 | 1612.7 | 1424.0 | 1315.4 | 1269.4 | 1270.2 |
| 20° | 3610.8 | 3426.0 | 2975.7 | 2472.2 | 2036.9 | 1654.0 | 1364.6 | 1204.4 | 1121.9 | 1086.2 | 1086.2 |
| 22.5° | 3597.3 | 3369.8 | 2836.1 | 2268.4 | 1797.5 | 1430.4 | 1186.9 | 1064.8 | 1017.3 | 993.5 | 992.7 |
| 25° | 3603.7 | 3327.7 | 2693.4 | 2059.1 | 1577.0 | 1252.0 | 1068.8 | 987.9 | 956.2 | 941.2 | 940.4 |
| 27.5° | 3637.7 | 3307.9 | 2561.8 | 1850.6 | 1384.4 | 1118.0 | 989.5 | 932.4 | 911.8 | 902.3 | 902.3 |
| 30° | 3699.6 | 3307.9 | 2424.6 | 1673.0 | 1224.2 | 1018.9 | 928.5 | 889.6 | 875.3 | 869.0 | 869.0 |
| 32.5° | 3807.4 | 3326.1 | 2292.2 | 1497.0 | 1096.6 | 941.2 | 877.7 | 851.6 | 840.5 | 837.3 | 837.3 |
| 35° | 3993.0 | 3388.0 | 2163.0 | 1330.5 | 993.5 | 877.7 | 829.4 | 814.3 | 806.4 | 805.6 | 807.9 |
| 37.5° | 4253.8 | 3514.1 | 2041.7 | 1207.6 | 920.5 | 826.2 | 788.9 | 777.0 | 772.3 | 776.2 | 779.4 |
| 40° | 4582.1 | 3685.3 | 1931.5 | 1096.6 | 865.0 | 785.0 | 751.7 | 743.7 | 741.3 | 746.9 | 751.7 |
| 42.5° | 4978.5 | 3916.8 | 1841.1 | 1016.5 | 822.2 | 750.1 | 719.9 | 710.4 | 708.0 | 714.4 | 720.7 |
| 45° | 5407.5 | 4165.8 | 1777.6 | 957.0 | 788.9 | 723.9 | 692.2 | 681.9 | 677.1 | 680.3 | 687.4 |
| 47.5° | 5797.6 | 4401.3 | 1752.3 | 915.0 | 757.2 | 701.7 | 667.6 | 654.9 | 647.0 | 645.4 | 651.0 |
| 50° | 6126.6 | 4576.5 | 1764.2 | 889.6 | 731.8 | 677.1 | 643.8 | 629.5 | 617.7 | 610.5 | 614.5 |
| 52.5° | 6366.1 | 4686.7 | 1775.3 | 878.5 | 712.0 | 650.2 | 617.7 | 604.2 | 588.3 | 576.4 | 576.4 |
| 55° | 6539.7 | 4712.1 | 1750.7 | 869.8 | 696.9 | 620.8 | 588.3 | 575.6 | 559.8 | 546.3 | 544.7 |
| 57.5° | 6607.9 | 4640.7 | 1659.5 | 857.1 | 686.6 | 593.1 | 557.4 | 547.9 | 534.4 | 518.5 | 517.8 |
| 60° | 6515.9 | 4420.3 | 1483.5 | 830.1 | 673.2 | 570.1 | 526.5 | 520.1 | 513.8 | 498.7 | 497.9 |
| 62.5° | 6146.4 | 3936.7 | 1255.9 | 775.4 | 646.2 | 545.5 | 497.9 | 501.1 | 501.9 | 491.6 | 490.0 |
| 65° | 5476.4 | 3272.2 | 1033.9 | 704.1 | 605.8 | 516.2 | 468.6 | 483.7 | 492.4 | 490.8 | 488.4 |
| 67.5° | 4502.8 | 2546.7 | 876.1 | 628.8 | 552.6 | 475.7 | 436.9 | 454.3 | 461.5 | 467.0 | 465.4 |
| 70° | 3342.0 | 1795.9 | 724.7 | 549.5 | 488.4 | 428.2 | 395.6 | 404.4 | 399.6 | 406.0 | 408.3 |
| 72.5° | 1863.3 | 1077.5 | 590.7 | 470.2 | 421.8 | 372.7 | 349.7 | 348.1 | 337.8 | 337.8 | 337.8 |
| 74° | 1118.0 | 790.5 | 519.3 | 421.0 | 381.4 | 336.2 | 316.4 | 309.2 | 299.7 | 300.5 | 299.7 |
| 75° | 899.1 | 679.5 | 476.5 | 388.5 | 352.8 | 314.8 | 295.0 | 285.4 | 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° | 428.9 | 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)