

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: P553536

Luminaire Tested: **VERD-G-CA2-140-760-U-T2-HSS**

Issue Date: 7/12/2021

Test Information

Test Method: LM-79-08
Report Number: P553536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-155-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-CA2-140-760-U-T2-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 1290mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18776 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

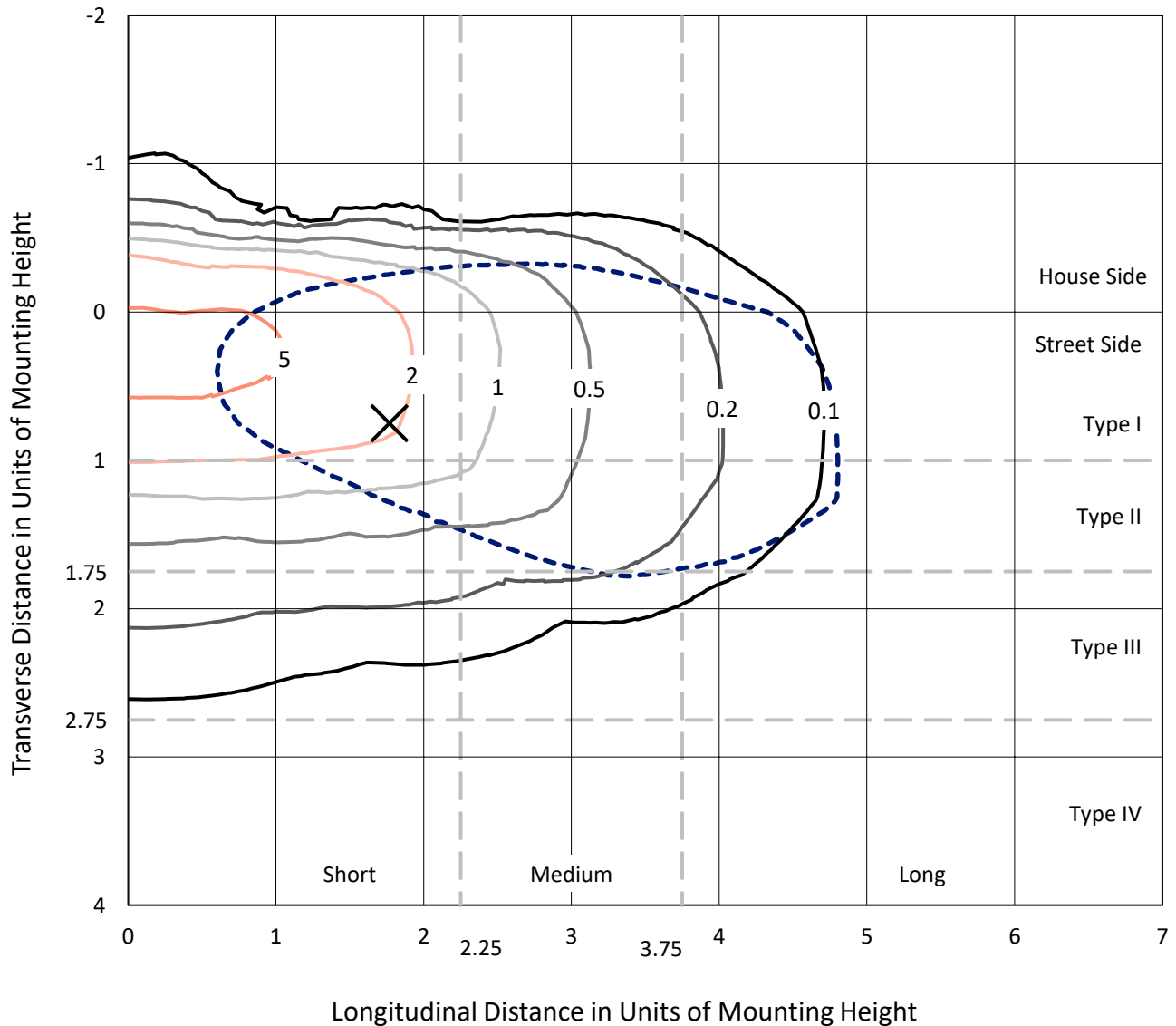
Input Watts (W): 142.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

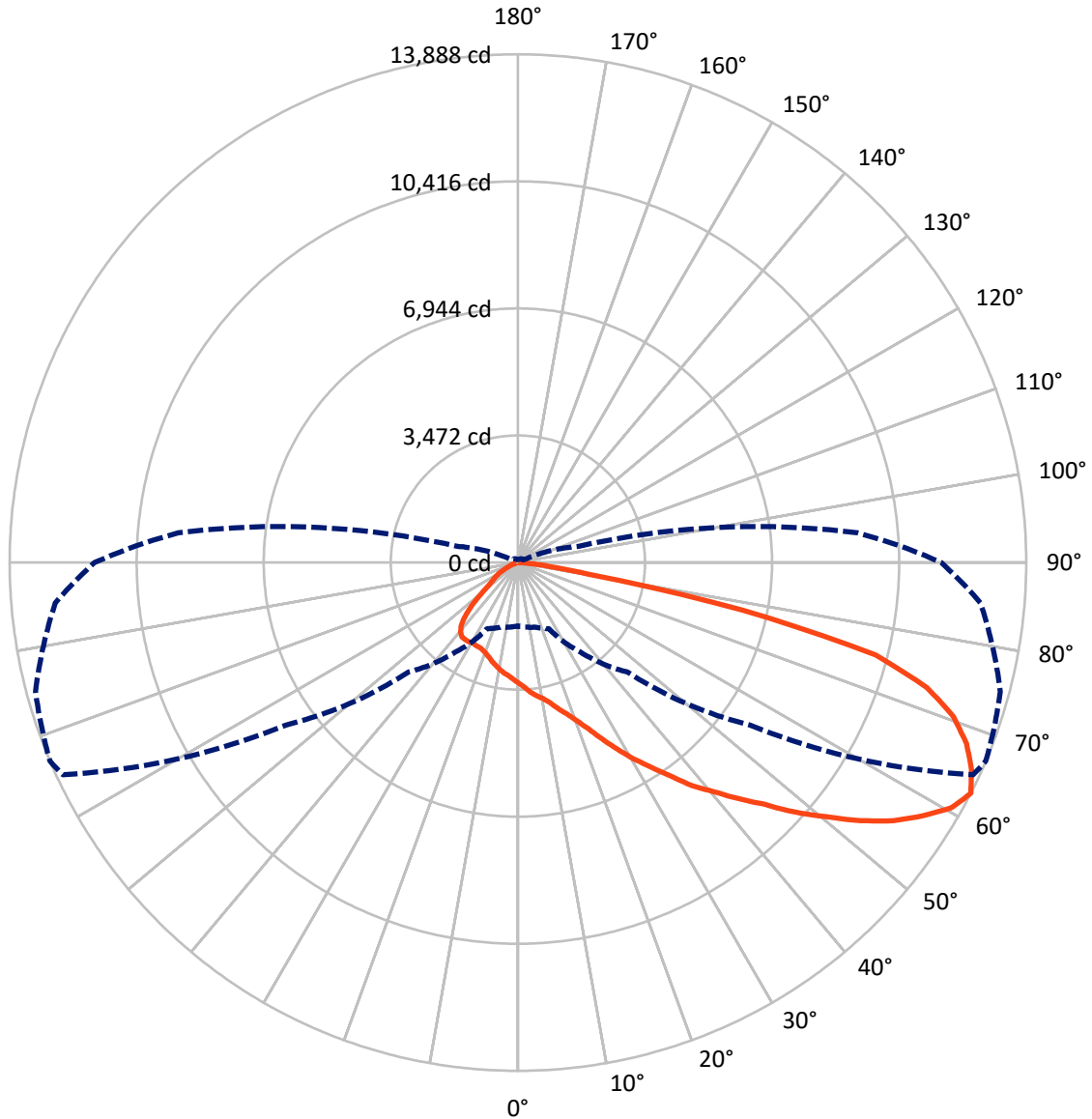
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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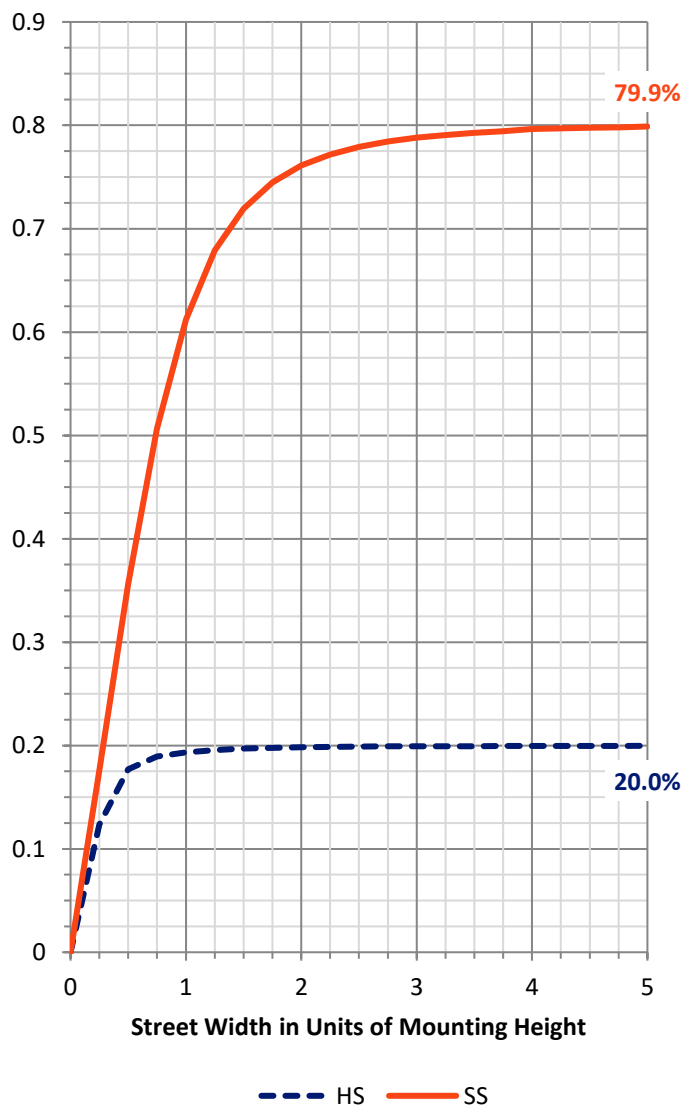
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3794.2 | 0.0 | 3794.2 |
| | % Fixture | 20.2 | 0.0 | 20.2 |
| Street Side | Lumens | 14981.8 | 0.0 | 14981.8 |
| | % Fixture | 79.8 | 0.0 | 79.8 |
| Total | Lumens | 18776.0 | 0.0 | 18776.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 318.8 | 1.7 |
| 10°-20° | 961.4 | 5.1 |
| 20°-30° | 1639.9 | 8.7 |
| 30°-40° | 2402.5 | 12.8 |
| 40°-50° | 3170.6 | 16.9 |
| 50°-60° | 3731.3 | 19.9 |
| 60°-70° | 3837.6 | 20.4 |
| 70°-80° | 2486.3 | 13.2 |
| 80°-90° | 227.6 | 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° | 18776.0 | 100.0 |
| 0°-180° | 18776.0 | 100.0 |

Coefficient of Utilization

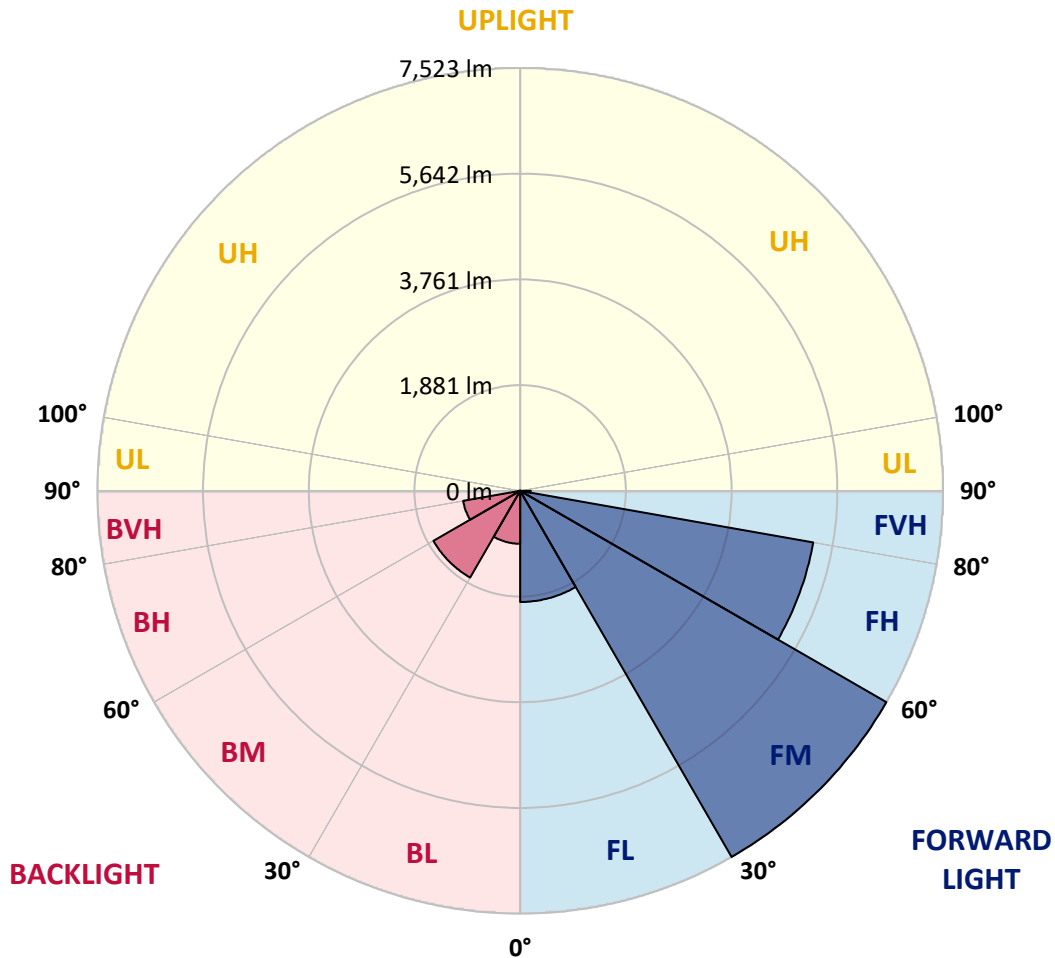


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1977.1 | 10.5 | | | |
| FM (30°-60°) | 7522.6 | 40.1 | | | |
| FH (60°-80°) | 5293.8 | 28.2 | | | G3/7500 |
| FVH (80°-90°) | 188.2 | 1.0 | | | G2/225 |
| BL (0°-30°) | 943.0 | 5.0 | B2/1000 | | |
| BM (30°-60°) | 1781.7 | 9.5 | B2/2500 | | |
| BH (60°-80°) | 1030.1 | 5.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 39.4 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 |
| 2.5° | 3658.9 | 3654.8 | 3615.6 | 3579.1 | 3554.7 | 3553.4 | 3489.8 | 3433.0 | 3407.3 | 3377.5 | 3311.3 |
| 5° | 3848.2 | 3880.7 | 3837.4 | 3783.3 | 3740.0 | 3707.6 | 3652.1 | 3587.2 | 3560.1 | 3489.8 | 3389.7 |
| 7.5° | 4122.8 | 4122.8 | 4082.3 | 4036.3 | 3986.2 | 3899.6 | 3805.0 | 3691.3 | 3677.8 | 3599.4 | 3468.2 |
| 10° | 4255.4 | 4287.9 | 4235.1 | 4181.0 | 4125.5 | 4080.9 | 3952.4 | 3813.1 | 3779.3 | 3661.6 | 3499.3 |
| 12.5° | 4440.7 | 4440.7 | 4412.3 | 4366.3 | 4302.7 | 4213.5 | 4130.9 | 3990.3 | 3933.5 | 3757.6 | 3554.7 |
| 15° | 4615.2 | 4600.3 | 4576.0 | 4500.2 | 4467.8 | 4412.3 | 4304.1 | 4156.6 | 4145.8 | 3951.0 | 3639.9 |
| 17.5° | 4751.8 | 4727.5 | 4704.5 | 4663.9 | 4624.7 | 4603.0 | 4525.9 | 4397.4 | 4352.8 | 4174.2 | 3800.9 |
| 20° | 4822.1 | 4842.4 | 4787.0 | 4785.6 | 4797.8 | 4781.6 | 4730.2 | 4634.1 | 4615.2 | 4402.8 | 3964.6 |
| 22.5° | 4902.0 | 4929.0 | 4915.5 | 4929.0 | 4965.5 | 4992.6 | 4989.9 | 4969.6 | 4939.8 | 4708.5 | 4228.3 |
| 25° | 4919.5 | 4902.0 | 4958.8 | 5084.6 | 5176.5 | 5241.5 | 5368.6 | 5342.9 | 5334.8 | 5130.5 | 4586.8 |
| 27.5° | 4865.4 | 4881.7 | 4970.9 | 5152.2 | 5388.9 | 5566.1 | 5670.2 | 5798.7 | 5770.3 | 5612.1 | 5018.3 |
| 30° | 4833.0 | 4861.4 | 4979.1 | 5191.4 | 5509.3 | 5829.9 | 6035.5 | 6195.1 | 6219.4 | 6093.6 | 5443.0 |
| 32.5° | 4720.7 | 4758.6 | 4880.3 | 5222.5 | 5627.0 | 6112.6 | 6368.2 | 6665.8 | 6655.0 | 6603.6 | 5959.7 |
| 35° | 4547.6 | 4597.6 | 4784.3 | 5181.9 | 5759.5 | 6366.9 | 6706.4 | 7139.2 | 7147.3 | 7169.0 | 6450.7 |
| 37.5° | 4408.2 | 4424.5 | 4636.8 | 5061.6 | 5812.3 | 6572.5 | 7021.5 | 7607.2 | 7738.4 | 7707.3 | 7008.0 |
| 40° | 4185.1 | 4233.7 | 4463.7 | 4914.1 | 5806.9 | 6711.8 | 7342.1 | 8155.0 | 8225.4 | 8322.8 | 7591.0 |
| 42.5° | 3910.5 | 3963.2 | 4183.7 | 4713.9 | 5731.1 | 6833.5 | 7650.5 | 8713.7 | 8812.4 | 8965.3 | 8125.3 |
| 45° | 3646.7 | 3669.7 | 3876.7 | 4421.8 | 5583.7 | 6929.6 | 7950.8 | 9264.2 | 9415.7 | 9634.8 | 8663.6 |
| 47.5° | 3318.0 | 3380.2 | 3611.5 | 4116.1 | 5257.7 | 6964.7 | 8172.6 | 9913.5 | 10192.1 | 10326.0 | 9277.7 |
| 50° | 2552.4 | 2591.6 | 3240.9 | 3846.9 | 4903.3 | 6855.2 | 8460.7 | 10737.2 | 10913.1 | 11052.4 | 9899.9 |
| 52.5° | 2249.4 | 2284.6 | 2536.2 | 3535.8 | 4508.3 | 6571.1 | 8636.6 | 11502.8 | 11715.2 | 11685.4 | 10524.9 |
| 55° | 2122.3 | 2139.9 | 2248.1 | 2885.2 | 4148.5 | 6043.6 | 8759.7 | 12338.7 | 12453.7 | 12261.6 | 11144.4 |
| 57.5° | 1974.8 | 1995.1 | 2076.3 | 2418.5 | 3742.7 | 5375.4 | 8656.9 | 13008.3 | 13051.6 | 12813.5 | 11696.2 |
| 60° | 1843.6 | 1857.2 | 1978.9 | 2164.2 | 3301.8 | 4727.5 | 8397.2 | 13489.8 | 13610.2 | 13219.3 | 12291.4 |
| 62.5° | 1731.4 | 1763.8 | 1827.4 | 1991.1 | 2993.4 | 4225.6 | 7739.8 | 13717.1 | 13887.5 | 13644.0 | 12686.4 |
| 65° | 1620.5 | 1635.3 | 1708.4 | 1853.1 | 2662.0 | 3929.4 | 7363.7 | 13418.1 | 13617.0 | 13700.8 | 12929.8 |
| 67.5° | 1469.0 | 1490.6 | 1562.3 | 1666.4 | 2221.0 | 3641.3 | 6485.9 | 12932.5 | 13216.6 | 13401.9 | 12785.1 |
| 70° | 1291.8 | 1310.7 | 1383.7 | 1470.3 | 1854.5 | 3216.6 | 5474.1 | 12437.5 | 12624.1 | 12636.3 | 12138.6 |
| 72.5° | 1086.2 | 1103.8 | 1176.8 | 1263.4 | 1539.3 | 2678.2 | 4290.6 | 11264.7 | 11682.7 | 11947.8 | 11053.7 |
| 75° | 691.2 | 766.9 | 948.2 | 1045.6 | 1267.4 | 2166.9 | 3061.0 | 8993.7 | 10092.0 | 10849.5 | 9565.8 |
| 77.5° | 112.3 | 125.8 | 372.0 | 530.2 | 737.2 | 1469.0 | 1700.3 | 4983.1 | 6268.1 | 9066.7 | 7723.5 |
| 80° | 85.2 | 96.0 | 135.3 | 359.8 | 473.4 | 914.4 | 669.6 | 1617.8 | 1950.5 | 4239.2 | 4327.1 |
| 82.5° | 36.5 | 43.3 | 81.2 | 201.5 | 223.2 | 243.5 | 179.9 | 723.7 | 856.2 | 1289.1 | 1501.4 |
| 85° | 12.2 | 16.2 | 37.9 | 63.6 | 70.3 | 54.1 | 39.2 | 286.8 | 353.0 | 618.2 | 572.2 |
| 87.5° | 0.0 | 1.4 | 8.1 | 9.5 | 8.1 | 5.4 | 4.1 | 2.7 | 2.7 | 4.1 | 4.1 |
| 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° | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 | 3299.1 |
| 2.5° | 3297.7 | 3251.7 | 3246.3 | 3190.9 | 3140.8 | 3084.0 | 3048.8 | 3036.7 | 3052.9 | 3069.1 | 3085.4 |
| 5° | 3338.3 | 3268.0 | 3197.6 | 3082.7 | 3031.3 | 2969.0 | 2886.5 | 2836.5 | 2813.5 | 2833.8 | 2840.5 |
| 7.5° | 3368.1 | 3277.4 | 3169.2 | 3012.3 | 2901.4 | 2782.4 | 2703.9 | 2620.1 | 2574.1 | 2582.2 | 2588.9 |
| 10° | 3373.5 | 3273.4 | 3089.4 | 2937.9 | 2759.4 | 2595.7 | 2492.9 | 2453.7 | 2422.6 | 2395.5 | 2399.6 |
| 12.5° | 3423.5 | 3276.1 | 3021.8 | 2837.8 | 2649.8 | 2438.8 | 2323.8 | 2273.8 | 2268.4 | 2212.9 | 2207.5 |
| 15° | 3491.2 | 3335.6 | 2986.6 | 2747.2 | 2506.4 | 2307.6 | 2171.0 | 2081.7 | 2084.4 | 2056.0 | 2051.9 |
| 17.5° | 3600.7 | 3393.8 | 2960.9 | 2641.7 | 2356.3 | 2173.7 | 2000.5 | 1919.4 | 1893.7 | 1885.6 | 1878.8 |
| 20° | 3723.8 | 3479.0 | 2929.8 | 2548.4 | 2225.1 | 2012.7 | 1819.3 | 1736.8 | 1665.1 | 1643.5 | 1646.2 |
| 22.5° | 3905.1 | 3591.2 | 2955.5 | 2478.0 | 2079.0 | 1855.8 | 1663.7 | 1502.8 | 1379.7 | 1347.2 | 1343.2 |
| 25° | 4225.6 | 3813.1 | 3032.6 | 2417.2 | 1988.4 | 1703.0 | 1444.6 | 1218.7 | 1056.4 | 1021.2 | 1023.9 |
| 27.5° | 4582.7 | 4105.2 | 3139.5 | 2391.5 | 1873.4 | 1533.9 | 1178.1 | 926.6 | 775.1 | 734.5 | 737.2 |
| 30° | 5006.1 | 4452.9 | 3301.8 | 2319.8 | 1750.3 | 1287.7 | 877.9 | 679.0 | 561.3 | 514.0 | 516.7 |
| 32.5° | 5413.2 | 4800.5 | 3510.1 | 2308.9 | 1596.1 | 967.1 | 634.4 | 493.7 | 397.7 | 362.5 | 366.6 |
| 35° | 5862.3 | 5198.2 | 3729.2 | 2254.8 | 1343.2 | 693.9 | 445.0 | 342.2 | 290.8 | 280.0 | 278.6 |
| 37.5° | 6370.9 | 5552.6 | 3891.5 | 2204.8 | 1005.0 | 488.3 | 304.3 | 263.8 | 257.0 | 242.1 | 242.1 |
| 40° | 6843.0 | 5921.8 | 4013.3 | 2072.2 | 703.4 | 331.4 | 238.1 | 239.4 | 232.7 | 212.4 | 208.3 |
| 42.5° | 7278.5 | 6303.3 | 4125.5 | 1859.9 | 476.1 | 225.9 | 213.7 | 217.8 | 220.5 | 197.5 | 192.1 |
| 45° | 7772.2 | 6774.0 | 4101.2 | 1540.7 | 303.0 | 204.2 | 192.1 | 204.2 | 217.8 | 194.8 | 189.4 |
| 47.5° | 8313.3 | 7118.9 | 4152.6 | 1111.9 | 213.7 | 193.4 | 178.5 | 194.8 | 205.6 | 190.7 | 182.6 |
| 50° | 8924.7 | 7570.7 | 3997.0 | 646.6 | 196.1 | 182.6 | 171.8 | 178.5 | 194.8 | 186.7 | 177.2 |
| 52.5° | 9484.7 | 7973.8 | 3784.7 | 316.5 | 185.3 | 171.8 | 161.0 | 166.4 | 182.6 | 173.1 | 175.8 |
| 55° | 9956.7 | 8393.1 | 3353.2 | 225.9 | 178.5 | 159.6 | 155.6 | 156.9 | 166.4 | 154.2 | 162.3 |
| 57.5° | 10535.7 | 8738.0 | 2914.9 | 211.0 | 173.1 | 151.5 | 152.8 | 142.0 | 144.7 | 138.0 | 129.9 |
| 60° | 11051.0 | 9064.0 | 2319.8 | 194.8 | 165.0 | 155.6 | 138.0 | 123.1 | 115.0 | 110.9 | 109.6 |
| 62.5° | 11566.4 | 9311.5 | 1709.7 | 177.2 | 156.9 | 140.7 | 121.7 | 105.5 | 92.0 | 86.6 | 85.2 |
| 65° | 11761.2 | 9444.1 | 1167.3 | 162.3 | 147.4 | 128.5 | 108.2 | 85.2 | 70.3 | 64.9 | 60.9 |
| 67.5° | 11616.4 | 9028.8 | 676.3 | 146.1 | 142.0 | 117.7 | 94.7 | 69.0 | 54.1 | 50.0 | 47.3 |
| 70° | 10945.5 | 8376.9 | 361.2 | 132.6 | 124.4 | 104.2 | 83.9 | 56.8 | 43.3 | 37.9 | 36.5 |
| 72.5° | 9791.7 | 7204.1 | 189.4 | 110.9 | 104.2 | 85.2 | 66.3 | 47.3 | 35.2 | 28.4 | 27.1 |
| 75° | 8314.7 | 5655.4 | 132.6 | 81.2 | 71.7 | 66.3 | 50.0 | 37.9 | 28.4 | 21.6 | 20.3 |
| 77.5° | 6563.0 | 3675.1 | 100.1 | 52.8 | 41.9 | 43.3 | 36.5 | 31.1 | 23.0 | 16.2 | 16.2 |
| 80° | 3389.7 | 1909.9 | 75.7 | 35.2 | 24.3 | 25.7 | 25.7 | 23.0 | 17.6 | 12.2 | 12.2 |
| 82.5° | 1344.5 | 703.4 | 52.8 | 20.3 | 14.9 | 16.2 | 14.9 | 14.9 | 12.2 | 8.1 | 8.1 |
| 85° | 443.7 | 154.2 | 18.9 | 12.2 | 9.5 | 9.5 | 8.1 | 6.8 | 4.1 | 2.7 | 2.7 |
| 87.5° | 4.1 | 4.1 | 5.4 | 6.8 | 6.8 | 5.4 | 4.1 | 1.4 | 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)