

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: P522819

Luminaire Tested: **GLAN-SA6C-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6C-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33153 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

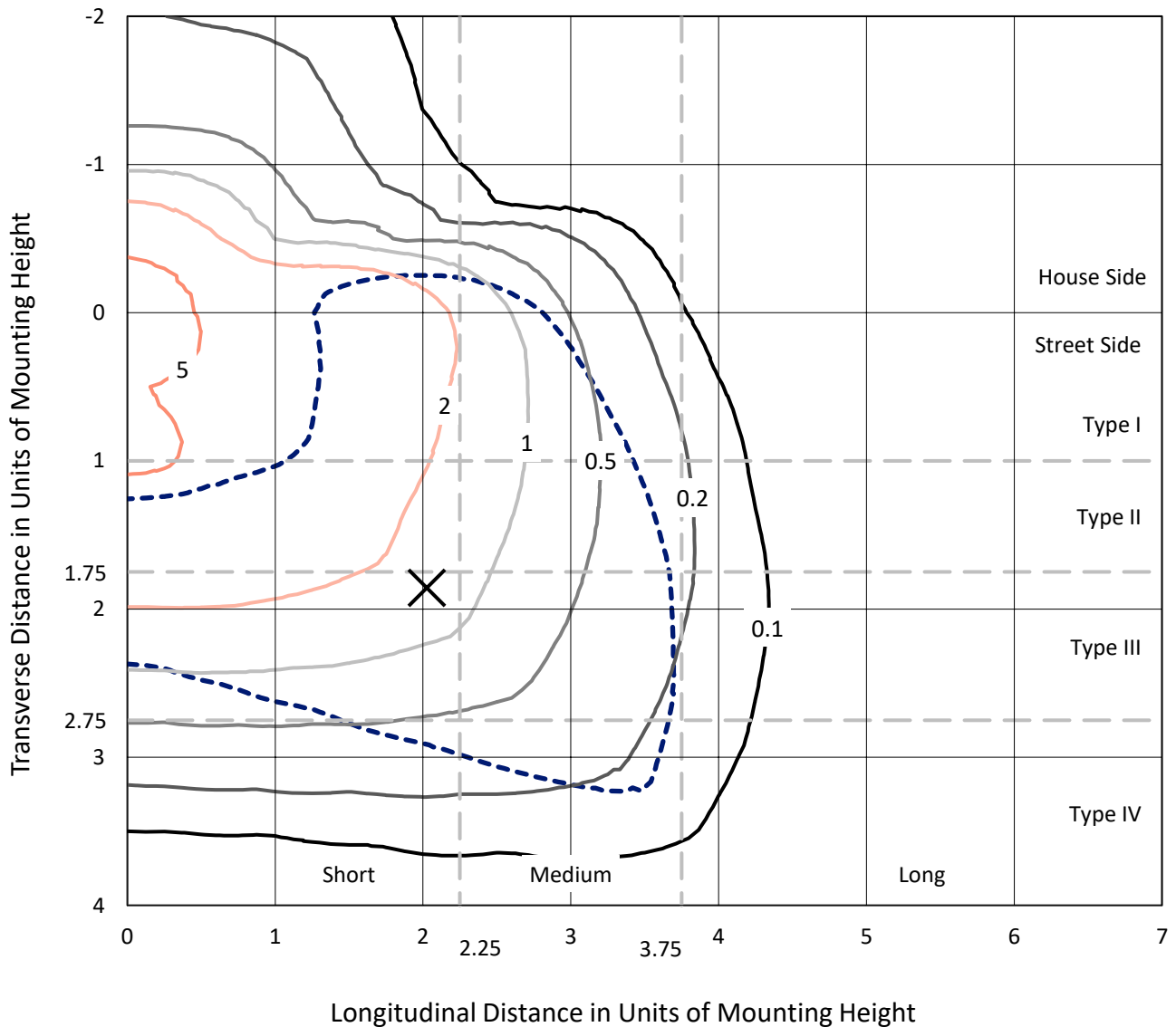
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

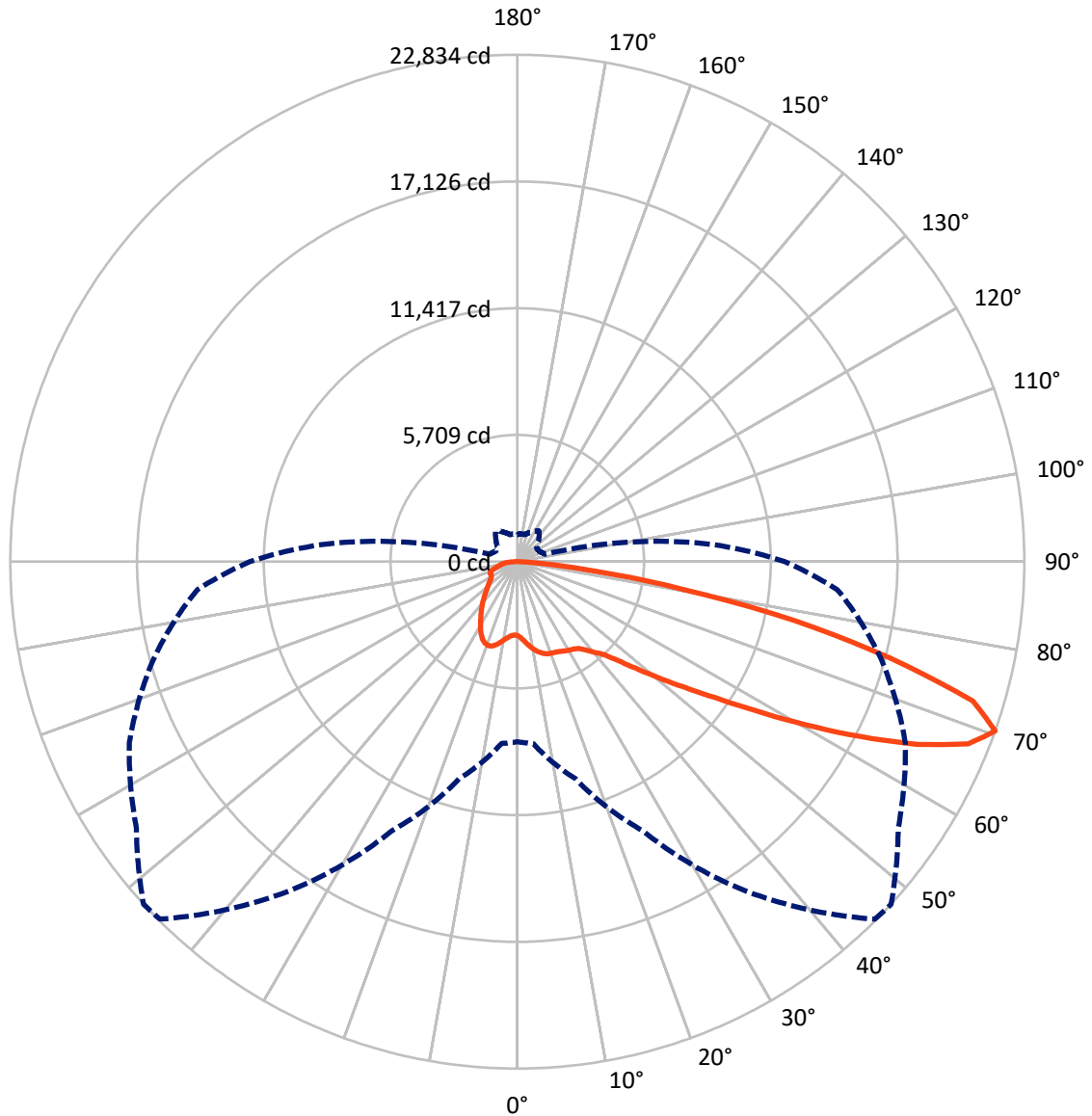
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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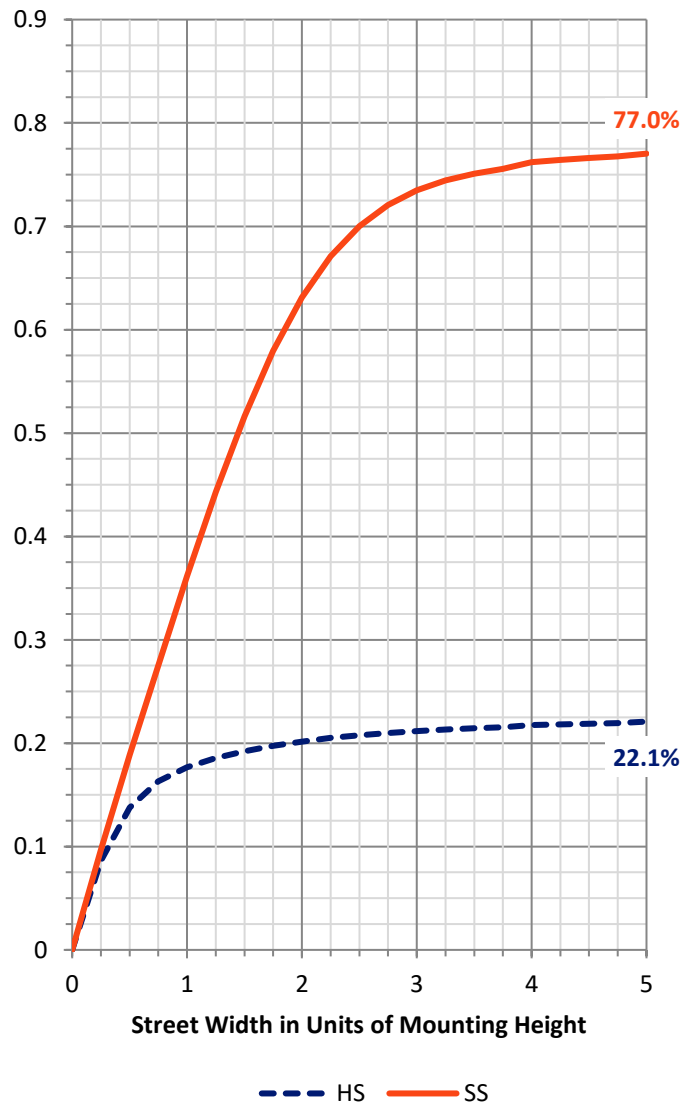
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7506.5 | 0.0 | 7506.5 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 25646.5 | 0.0 | 25646.5 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 33153.0 | 0.0 | 33153.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 343.1 | 1.0 |
| 10°-20° | 1146.9 | 3.5 |
| 20°-30° | 1907.3 | 5.8 |
| 30°-40° | 2703.3 | 8.2 |
| 40°-50° | 3990.6 | 12.0 |
| 50°-60° | 6911.9 | 20.8 |
| 60°-70° | 9763.2 | 29.4 |
| 70°-80° | 5612.4 | 16.9 |
| 80°-90° | 774.4 | 2.3 |
| 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° | 33153.0 | 100.0 |
| 0°-180° | 33153.0 | 100.0 |



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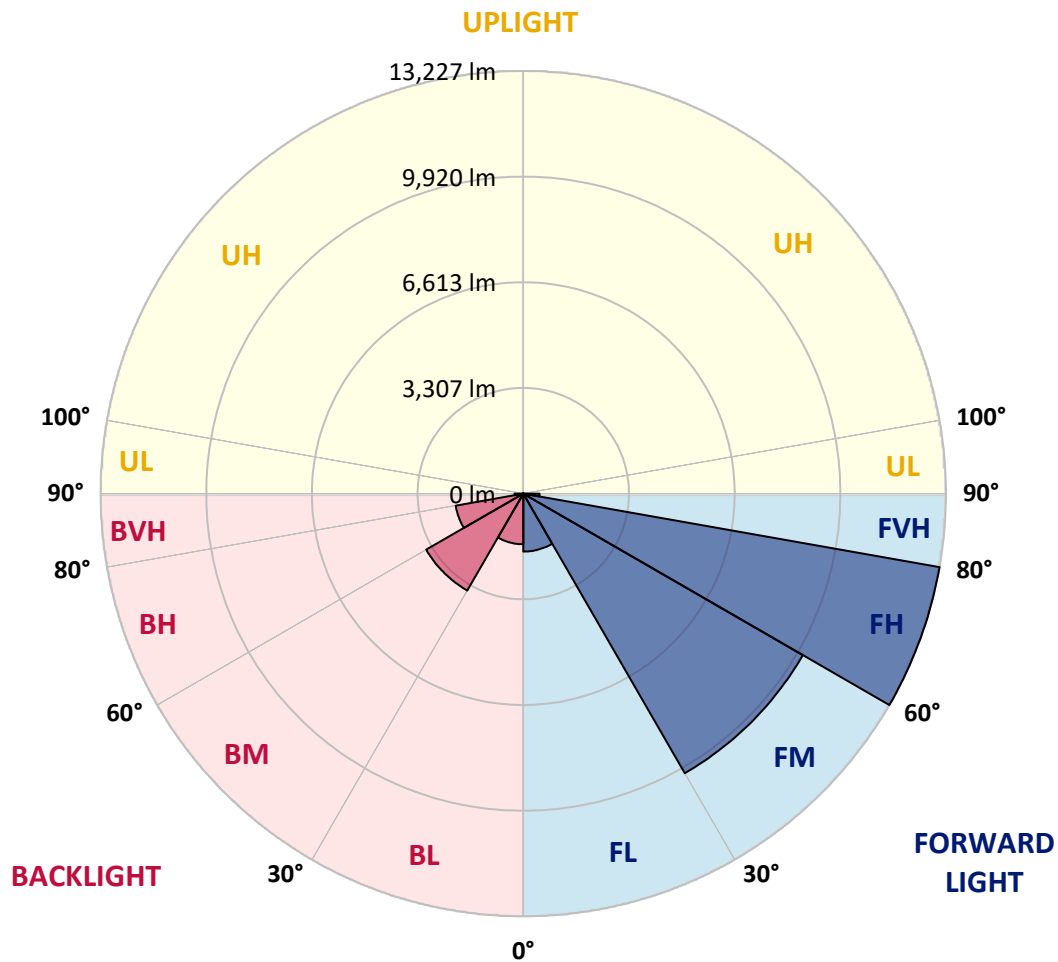
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1812.9 | 5.5 | | | |
| FM | (30°-60°) | 10101.1 | 30.5 | | | |
| FH | (60°-80°) | 13226.7 | 39.9 | | | G5 |
| FVH | (80°-90°) | 505.8 | 1.5 | | | G4/750 |
| BL | (0°-30°) | 1584.3 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 3504.6 | 10.6 | B3/5000 | | |
| BH | (60°-80°) | 2149.0 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 268.5 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 |
| 2.5° | 3542.8 | 3530.4 | 3528.6 | 3502.0 | 3487.8 | 3461.2 | 3450.6 | 3425.7 | 3395.6 | 3365.4 | 3337.0 |
| 5° | 3821.4 | 3821.4 | 3808.9 | 3771.7 | 3713.1 | 3652.8 | 3626.2 | 3578.3 | 3493.2 | 3424.0 | 3365.4 |
| 7.5° | 4107.0 | 4110.5 | 4085.7 | 4030.7 | 3947.3 | 3849.7 | 3824.9 | 3753.9 | 3633.3 | 3532.2 | 3445.3 |
| 10° | 4353.6 | 4353.6 | 4319.9 | 4245.4 | 4140.7 | 4034.2 | 4009.4 | 3929.6 | 3794.7 | 3668.8 | 3555.2 |
| 12.5° | 4541.6 | 4541.6 | 4497.3 | 4399.7 | 4286.2 | 4190.4 | 4162.0 | 4085.7 | 3959.7 | 3819.6 | 3675.9 |
| 15° | 4664.0 | 4655.2 | 4605.5 | 4495.5 | 4385.5 | 4302.1 | 4282.6 | 4218.7 | 4103.4 | 3961.5 | 3800.1 |
| 17.5° | 4669.4 | 4665.8 | 4617.9 | 4525.7 | 4429.9 | 4373.1 | 4360.7 | 4318.1 | 4227.6 | 4092.8 | 3922.5 |
| 20° | 4566.5 | 4573.6 | 4541.6 | 4476.0 | 4429.9 | 4405.0 | 4399.7 | 4385.5 | 4321.6 | 4195.7 | 4025.4 |
| 22.5° | 4456.5 | 4468.9 | 4438.7 | 4403.3 | 4399.7 | 4424.5 | 4428.1 | 4431.6 | 4390.8 | 4268.4 | 4112.3 |
| 25° | 4429.9 | 4438.7 | 4408.6 | 4376.6 | 4396.2 | 4461.8 | 4476.0 | 4490.2 | 4458.2 | 4355.4 | 4215.2 |
| 27.5° | 4564.7 | 4557.6 | 4499.1 | 4429.9 | 4442.3 | 4531.0 | 4550.5 | 4566.5 | 4550.5 | 4461.8 | 4342.9 |
| 30° | 4946.1 | 4923.1 | 4806.0 | 4603.7 | 4539.9 | 4601.9 | 4621.5 | 4665.8 | 4665.8 | 4600.2 | 4481.3 |
| 32.5° | 5584.8 | 5540.4 | 5325.8 | 4928.4 | 4706.6 | 4669.4 | 4688.9 | 4761.6 | 4798.9 | 4747.4 | 4617.9 |
| 35° | 6360.1 | 6313.9 | 6007.0 | 5473.0 | 5011.8 | 4804.2 | 4798.9 | 4880.5 | 4979.8 | 4864.5 | 4696.0 |
| 37.5° | 7138.9 | 7091.0 | 6722.0 | 6122.3 | 5457.1 | 5088.0 | 5056.1 | 5084.5 | 5127.1 | 4916.0 | 4804.2 |
| 40° | 7917.7 | 7860.9 | 7538.0 | 6847.9 | 6001.7 | 5464.1 | 5380.8 | 5253.0 | 5235.3 | 5084.5 | 5013.5 |
| 42.5° | 8689.4 | 8638.0 | 8474.8 | 7662.2 | 6654.6 | 5831.4 | 5703.6 | 5483.7 | 5551.1 | 5460.6 | 5398.5 |
| 45° | 9468.2 | 9471.8 | 9297.9 | 8575.9 | 7442.2 | 6509.1 | 6337.0 | 5992.8 | 6152.5 | 6118.8 | 6154.3 |
| 47.5° | 10158.3 | 10149.5 | 10087.4 | 9462.9 | 8419.8 | 7381.9 | 7160.2 | 6761.0 | 7034.2 | 7158.4 | 7429.8 |
| 50° | 10827.2 | 10821.8 | 10825.4 | 10468.8 | 9555.2 | 8419.8 | 8174.9 | 7756.3 | 8371.9 | 8803.0 | 9289.0 |
| 52.5° | 11785.2 | 11815.3 | 11600.7 | 11506.6 | 10935.4 | 9645.6 | 9376.0 | 8943.1 | 9952.6 | 10632.0 | 11581.2 |
| 55° | 12746.7 | 12721.9 | 12553.3 | 12650.9 | 12379.5 | 11096.8 | 10814.8 | 10470.6 | 11712.4 | 12455.8 | 13882.1 |
| 57.5° | 13312.6 | 13321.5 | 13493.6 | 13970.8 | 14162.4 | 12906.4 | 12650.9 | 12384.8 | 13690.5 | 14217.4 | 15929.4 |
| 60° | 13821.8 | 13862.6 | 14357.6 | 15258.8 | 15778.6 | 15129.3 | 14902.2 | 14643.2 | 15505.4 | 15714.7 | 17707.0 |
| 62.5° | 13981.5 | 14107.4 | 14971.4 | 16319.7 | 17354.0 | 17637.8 | 17355.8 | 16784.5 | 17233.4 | 17151.7 | 18911.6 |
| 65° | 13184.9 | 13357.0 | 14905.8 | 16717.1 | 18760.8 | 20018.6 | 19839.5 | 18778.6 | 18705.8 | 18214.4 | 19108.5 |
| 67.5° | 11088.0 | 11260.0 | 13248.8 | 15883.3 | 19342.7 | 22080.1 | 21900.9 | 20233.3 | 19600.0 | 18313.8 | 17618.3 |
| 70° | 8112.8 | 8221.1 | 10122.9 | 13373.0 | 18173.6 | 22772.0 | 22834.1 | 20942.9 | 19280.6 | 16963.7 | 14465.8 |
| 72.5° | 4674.7 | 4914.2 | 6246.5 | 9407.9 | 14847.2 | 21022.8 | 21453.9 | 19466.9 | 17261.7 | 14151.8 | 10114.0 |
| 75° | 2010.0 | 2015.3 | 2888.2 | 5189.2 | 10055.4 | 16898.1 | 17315.0 | 16137.0 | 13555.7 | 9785.8 | 5400.3 |
| 77.5° | 956.2 | 974.0 | 1270.2 | 2316.9 | 5535.1 | 11675.2 | 12799.9 | 11400.2 | 8669.9 | 4701.3 | 2040.2 |
| 80° | 620.9 | 633.3 | 777.0 | 1149.6 | 2714.3 | 6769.9 | 7554.0 | 6576.5 | 3824.9 | 1680.0 | 879.9 |
| 82.5° | 376.1 | 379.7 | 519.8 | 702.5 | 1493.8 | 3065.6 | 3613.8 | 2854.5 | 1632.1 | 1005.9 | 518.0 |
| 85° | 228.9 | 230.6 | 315.8 | 434.6 | 906.6 | 1059.1 | 1087.5 | 1078.6 | 958.0 | 658.2 | 276.8 |
| 87.5° | 110.0 | 113.5 | 163.2 | 205.8 | 356.6 | 328.2 | 310.5 | 360.1 | 452.4 | 354.8 | 118.9 |
| 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° | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 | 3328.2 |
| 2.5° | 3324.6 | 3319.3 | 3306.9 | 3301.6 | 3298.0 | 3299.8 | 3298.0 | 3298.0 | 3299.8 | 3299.8 | 3299.8 |
| 5° | 3340.6 | 3331.7 | 3312.2 | 3312.2 | 3322.8 | 3347.7 | 3370.7 | 3388.5 | 3408.0 | 3406.2 | 3406.2 |
| 7.5° | 3409.8 | 3393.8 | 3370.7 | 3377.8 | 3404.4 | 3443.5 | 3484.3 | 3523.3 | 3562.3 | 3565.9 | 3564.1 |
| 10° | 3510.9 | 3494.9 | 3470.1 | 3479.0 | 3521.5 | 3580.1 | 3631.5 | 3688.3 | 3730.9 | 3743.3 | 3739.7 |
| 12.5° | 3626.2 | 3594.3 | 3573.0 | 3597.8 | 3665.2 | 3743.3 | 3793.0 | 3835.5 | 3865.7 | 3883.4 | 3876.4 |
| 15° | 3743.3 | 3713.1 | 3688.3 | 3739.7 | 3821.4 | 3894.1 | 3918.9 | 3926.0 | 3931.3 | 3949.1 | 3945.5 |
| 17.5° | 3856.8 | 3816.0 | 3807.2 | 3874.6 | 3952.6 | 3984.6 | 3970.4 | 3940.2 | 3917.2 | 3931.3 | 3929.6 |
| 20° | 3958.0 | 3926.0 | 3922.5 | 3989.9 | 4020.1 | 3989.9 | 3929.6 | 3876.4 | 3835.5 | 3839.1 | 3837.3 |
| 22.5° | 4053.8 | 4028.9 | 4032.5 | 4060.9 | 4013.0 | 3910.1 | 3810.7 | 3738.0 | 3693.6 | 3702.5 | 3707.8 |
| 25° | 4160.2 | 4135.4 | 4144.2 | 4098.1 | 3940.2 | 3761.0 | 3617.3 | 3555.2 | 3537.5 | 3555.2 | 3567.7 |
| 27.5° | 4298.6 | 4282.6 | 4277.3 | 4099.9 | 3810.7 | 3541.1 | 3377.8 | 3354.8 | 3370.7 | 3409.8 | 3429.3 |
| 30° | 4447.6 | 4447.6 | 4419.2 | 4069.7 | 3633.3 | 3276.7 | 3134.8 | 3138.3 | 3193.3 | 3248.3 | 3267.8 |
| 32.5° | 4591.3 | 4621.5 | 4532.8 | 3988.1 | 3404.4 | 3019.5 | 2911.3 | 2914.8 | 2962.7 | 3030.1 | 3047.9 |
| 35° | 4710.2 | 4797.1 | 4630.3 | 3839.1 | 3134.8 | 2803.0 | 2721.4 | 2673.5 | 2675.3 | 2726.8 | 2740.9 |
| 37.5° | 4873.4 | 5034.8 | 4687.1 | 3617.3 | 2847.4 | 2618.5 | 2526.3 | 2442.9 | 2387.9 | 2366.6 | 2366.6 |
| 40° | 5157.2 | 5395.0 | 4701.3 | 3289.1 | 2576.0 | 2442.9 | 2311.6 | 2212.3 | 2105.8 | 2010.0 | 1992.3 |
| 42.5° | 5638.0 | 5937.8 | 4672.9 | 2911.3 | 2331.1 | 2249.5 | 2121.8 | 1999.4 | 1852.1 | 1717.3 | 1706.7 |
| 45° | 6489.6 | 6643.9 | 4596.6 | 2519.2 | 2112.9 | 2063.2 | 1939.1 | 1806.0 | 1649.9 | 1529.3 | 1520.4 |
| 47.5° | 7853.8 | 7635.6 | 4495.5 | 2171.5 | 1914.2 | 1900.0 | 1804.2 | 1649.9 | 1493.8 | 1410.4 | 1401.5 |
| 50° | 9846.1 | 9196.8 | 4481.3 | 1919.5 | 1754.6 | 1761.7 | 1683.6 | 1541.7 | 1405.1 | 1335.9 | 1325.2 |
| 52.5° | 12244.7 | 11082.6 | 4575.3 | 1742.1 | 1614.4 | 1641.0 | 1602.0 | 1470.7 | 1350.1 | 1291.5 | 1280.9 |
| 55° | 14572.2 | 12778.7 | 4632.1 | 1603.8 | 1483.1 | 1532.8 | 1538.1 | 1428.1 | 1318.1 | 1259.6 | 1252.5 |
| 57.5° | 16461.6 | 14056.0 | 4380.2 | 1477.8 | 1369.6 | 1445.9 | 1484.9 | 1403.3 | 1302.2 | 1257.8 | 1250.7 |
| 60° | 17776.2 | 14659.2 | 3663.5 | 1366.0 | 1286.2 | 1376.7 | 1465.4 | 1405.1 | 1341.2 | 1346.5 | 1350.1 |
| 62.5° | 18194.9 | 14391.3 | 2748.0 | 1282.7 | 1229.4 | 1353.6 | 1497.3 | 1477.8 | 1412.2 | 1453.0 | 1460.1 |
| 65° | 17501.2 | 13284.3 | 1992.3 | 1217.0 | 1179.8 | 1369.6 | 1593.1 | 1531.0 | 1387.3 | 1417.5 | 1417.5 |
| 67.5° | 15179.0 | 11444.5 | 1550.5 | 1156.7 | 1123.0 | 1399.7 | 1688.9 | 1525.7 | 1328.8 | 1364.3 | 1332.3 |
| 70° | 12040.6 | 8852.6 | 1291.5 | 1089.3 | 1062.7 | 1355.4 | 1697.8 | 1470.7 | 1259.6 | 1266.7 | 1206.4 |
| 72.5° | 7990.4 | 5820.7 | 1110.6 | 1025.4 | 970.4 | 1218.8 | 1625.1 | 1399.7 | 1192.2 | 1151.4 | 1091.1 |
| 75° | 3915.4 | 2902.4 | 968.6 | 945.6 | 849.8 | 1060.9 | 1525.7 | 1332.3 | 1119.4 | 1055.6 | 1021.9 |
| 77.5° | 1516.8 | 1234.8 | 826.7 | 844.5 | 739.8 | 934.9 | 1394.4 | 1236.5 | 1023.6 | 936.7 | 910.1 |
| 80° | 736.2 | 700.8 | 677.7 | 704.3 | 608.5 | 796.6 | 1273.8 | 1153.1 | 934.9 | 839.1 | 800.1 |
| 82.5° | 457.7 | 432.9 | 519.8 | 548.2 | 468.4 | 727.4 | 1208.1 | 1082.2 | 823.2 | 695.4 | 663.5 |
| 85° | 232.4 | 248.4 | 347.7 | 374.3 | 335.3 | 578.3 | 995.3 | 812.5 | 594.3 | 493.2 | 496.7 |
| 87.5° | 88.7 | 118.9 | 182.7 | 196.9 | 179.2 | 305.1 | 548.2 | 473.7 | 381.4 | 259.0 | 239.5 |
| 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)