

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: P652970

Luminaire Tested: **GLAN-SA6C-840-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6C-840-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34983.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

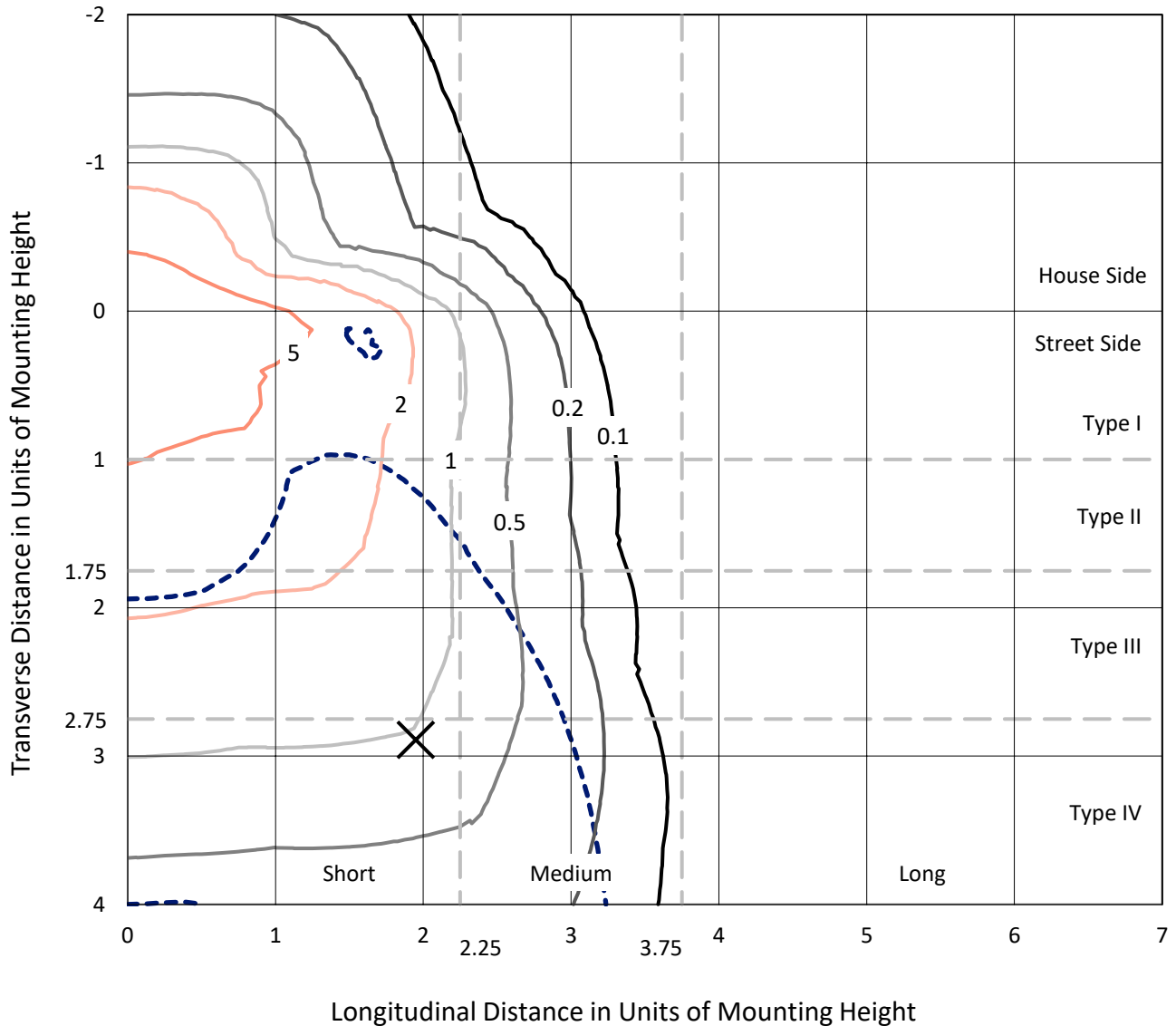
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

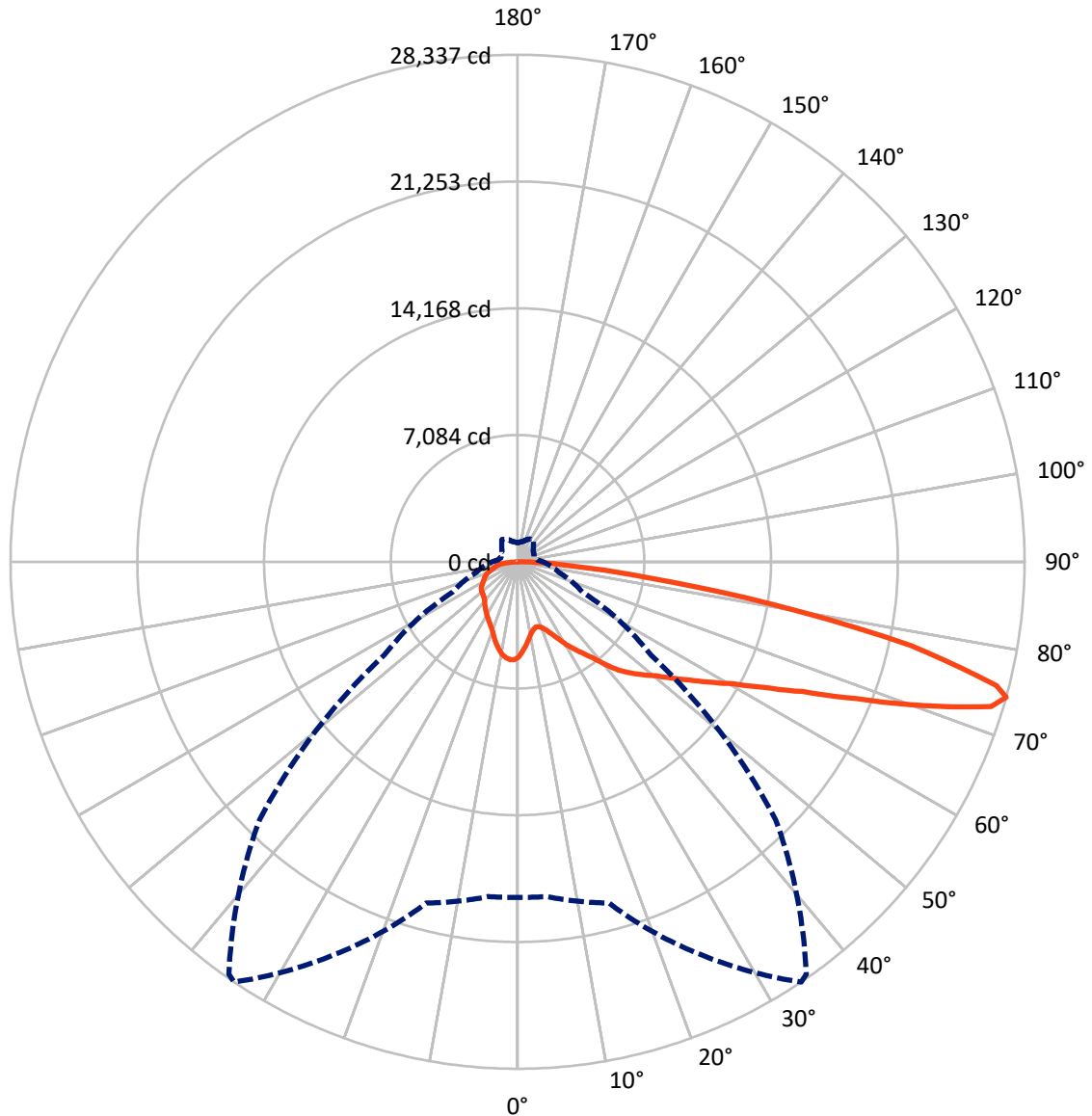
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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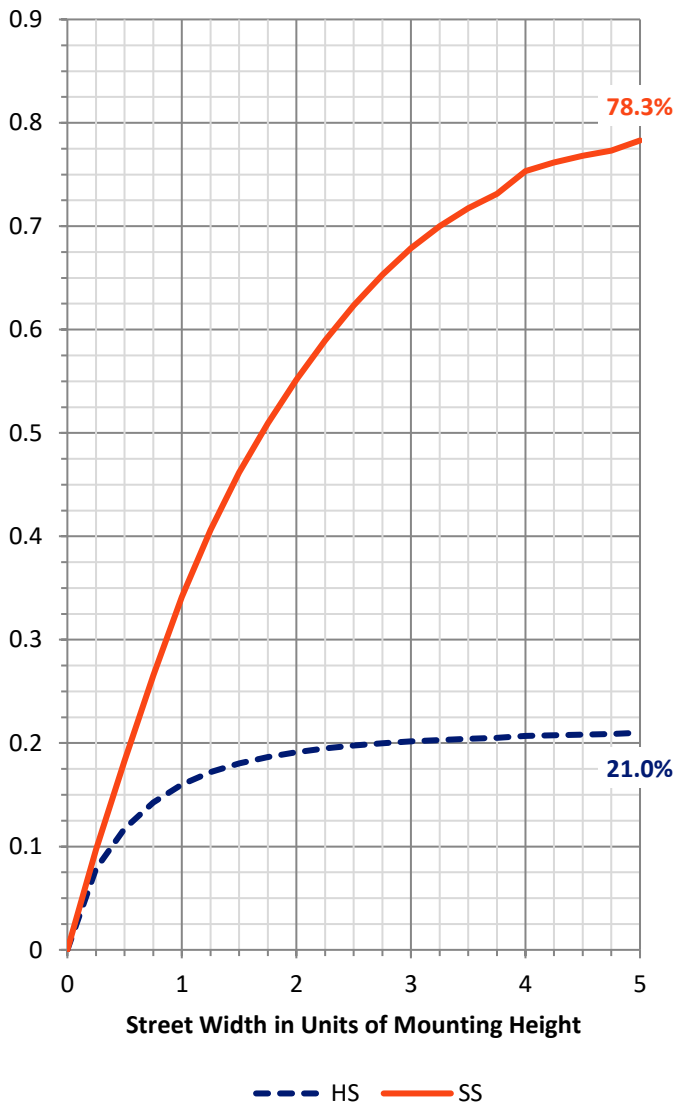
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7444.8 | 0.0 | 7444.8 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 27539.1 | 0.0 | 27539.1 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 34983.9 | 0.0 | 34983.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 485.8 | 1.4 |
| 10°-20° | 1329.8 | 3.8 |
| 20°-30° | 2192.5 | 6.3 |
| 30°-40° | 3284.1 | 9.4 |
| 40°-50° | 4774.1 | 13.6 |
| 50°-60° | 6668.3 | 19.1 |
| 60°-70° | 8348.4 | 23.9 |
| 70°-80° | 6903.5 | 19.7 |
| 80°-90° | 997.5 | 2.9 |
| 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° | 34983.9 | 100.0 |
| 0°-180° | 34983.9 | 100.0 |

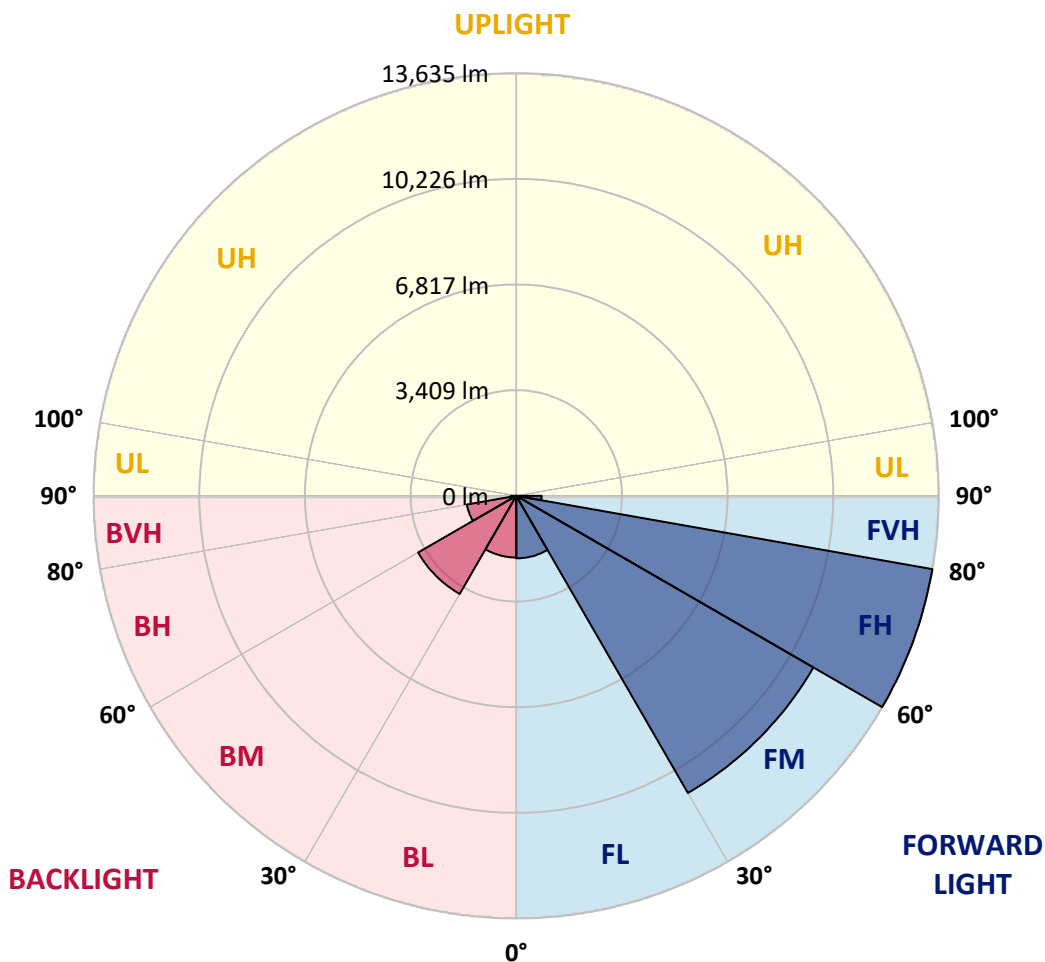


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2016.7 | 5.8 | | | |
| FM (30°-60°) | 11070.4 | 31.6 | | | |
| FH (60°-80°) | 13634.9 | 39.0 | | | G5 |
| FVH (80°-90°) | 817.2 | 2.3 | | | G5 |
| BL (0°-30°) | 1991.4 | 5.7 | B3/2500 | | |
| BM (30°-60°) | 3656.2 | 10.5 | B3/5000 | | |
| BH (60°-80°) | 1617.0 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 180.3 | 0.5 | | | G2/225 |
| 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° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 |
| 2.5° | 4936.3 | 4961.5 | 4975.0 | 5023.5 | 5035.2 | 5050.6 | 5091.3 | 5145.6 | 5215.4 | 5277.4 | 5331.7 |
| 5° | 4525.4 | 4564.2 | 4587.4 | 4630.0 | 4713.4 | 4721.2 | 4829.7 | 4953.7 | 5095.2 | 5227.0 | 5335.6 |
| 7.5° | 4135.9 | 4178.5 | 4197.9 | 4275.4 | 4385.9 | 4403.3 | 4562.3 | 4758.0 | 4994.4 | 5194.1 | 5360.7 |
| 10° | 3843.2 | 3864.6 | 3907.2 | 3965.3 | 4097.1 | 4108.7 | 4316.1 | 4577.7 | 4883.9 | 5178.5 | 5403.3 |
| 12.5° | 3684.3 | 3695.9 | 3705.6 | 3767.6 | 3897.4 | 3914.9 | 4132.0 | 4428.5 | 4796.7 | 5190.1 | 5473.1 |
| 15° | 3707.5 | 3711.4 | 3668.8 | 3680.4 | 3785.1 | 3810.2 | 4025.4 | 4329.6 | 4742.5 | 5219.2 | 5577.8 |
| 17.5° | 3903.3 | 3889.7 | 3785.1 | 3730.8 | 3804.4 | 3816.1 | 4004.1 | 4291.0 | 4717.3 | 5273.5 | 5686.3 |
| 20° | 4211.5 | 4192.0 | 4011.8 | 3891.6 | 3934.3 | 3944.0 | 4073.9 | 4320.0 | 4742.5 | 5362.6 | 5855.0 |
| 22.5° | 4595.2 | 4587.4 | 4314.2 | 4168.8 | 4166.9 | 4166.9 | 4234.7 | 4424.7 | 4818.1 | 5484.7 | 6031.3 |
| 25° | 5132.0 | 5091.3 | 4734.7 | 4546.7 | 4494.4 | 4490.5 | 4482.8 | 4597.2 | 4915.0 | 5614.6 | 6240.6 |
| 27.5° | 5682.5 | 5612.7 | 5294.9 | 5006.1 | 4893.7 | 4880.1 | 4829.7 | 4841.3 | 5039.0 | 5761.9 | 6479.0 |
| 30° | 6176.6 | 6132.1 | 5833.6 | 5513.8 | 5380.1 | 5349.1 | 5209.6 | 5145.6 | 5246.4 | 6027.4 | 6858.9 |
| 32.5° | 6554.6 | 6527.4 | 6294.9 | 6004.2 | 5806.5 | 5800.7 | 5597.2 | 5544.9 | 5570.0 | 6349.1 | 7293.0 |
| 35° | 6860.8 | 6870.5 | 6752.3 | 6500.3 | 6273.6 | 6240.6 | 6105.0 | 6039.1 | 5965.4 | 6814.3 | 7839.5 |
| 37.5° | 7279.4 | 7300.7 | 7293.0 | 7075.9 | 6798.8 | 6806.5 | 6775.5 | 6667.0 | 6471.2 | 7333.7 | 8446.2 |
| 40° | 7740.7 | 7756.2 | 7754.3 | 7670.9 | 7525.6 | 7533.3 | 7521.7 | 7397.7 | 7105.0 | 7994.5 | 9120.6 |
| 42.5° | 8378.3 | 8304.7 | 8112.8 | 8196.1 | 8281.4 | 8318.2 | 8397.7 | 8279.5 | 7878.3 | 8700.1 | 9754.3 |
| 45° | 9091.5 | 8952.0 | 8517.9 | 8556.7 | 8872.6 | 8942.3 | 9380.3 | 9217.5 | 8717.5 | 9510.2 | 10500.6 |
| 47.5° | 9541.1 | 9403.6 | 9037.3 | 9029.5 | 9448.1 | 9516.0 | 10291.2 | 10231.1 | 9481.1 | 10384.2 | 11411.4 |
| 50° | 9942.4 | 9923.0 | 9510.2 | 9609.0 | 10017.9 | 10118.7 | 11283.5 | 11227.3 | 10242.8 | 11415.3 | 12403.7 |
| 52.5° | 10537.3 | 10380.4 | 10050.9 | 10254.4 | 10795.1 | 10926.9 | 12268.1 | 12103.3 | 10942.4 | 12326.2 | 13366.9 |
| 55° | 10804.8 | 10768.0 | 10748.6 | 10924.9 | 11667.3 | 11762.2 | 13225.5 | 12847.5 | 11539.4 | 13097.6 | 14099.5 |
| 57.5° | 11519.9 | 11452.1 | 11644.0 | 11764.2 | 12694.5 | 12839.8 | 14225.5 | 13624.7 | 12062.6 | 13710.0 | 14456.1 |
| 60° | 12446.4 | 12409.5 | 12585.9 | 12803.0 | 13841.8 | 14062.7 | 15365.1 | 14287.5 | 12483.2 | 14018.1 | 14260.4 |
| 62.5° | 13830.2 | 13826.3 | 13793.3 | 14258.5 | 15467.8 | 15671.4 | 16673.3 | 14932.9 | 12549.1 | 13787.5 | 13248.7 |
| 65° | 15814.8 | 15744.9 | 15458.2 | 15965.9 | 17491.2 | 17729.5 | 18035.7 | 15293.4 | 12151.8 | 12603.3 | 11155.6 |
| 67.5° | 17890.4 | 17886.6 | 17654.0 | 18312.9 | 20396.4 | 20642.5 | 19739.4 | 15213.9 | 11049.0 | 10209.8 | 7922.9 |
| 70° | 19611.4 | 19528.1 | 19824.6 | 21580.6 | 24107.8 | 24392.7 | 21229.8 | 14277.8 | 8800.8 | 6742.5 | 4707.6 |
| 72.5° | 20024.3 | 20028.2 | 20644.4 | 24100.0 | 27671.9 | 27716.5 | 21766.6 | 11572.2 | 5889.9 | 3719.2 | 2354.8 |
| 74° | 18752.9 | 18785.8 | 19741.3 | 24226.0 | 28336.7 | 28135.2 | 20394.4 | 9095.4 | 3982.7 | 2428.4 | 1697.7 |
| 75° | 17117.1 | 16909.7 | 18291.6 | 23386.9 | 27646.7 | 27429.6 | 18787.8 | 7298.8 | 3039.0 | 1940.0 | 1486.5 |
| 77.5° | 9151.6 | 9362.9 | 11494.8 | 17452.4 | 22460.4 | 22210.4 | 12739.0 | 3500.2 | 1641.5 | 1350.8 | 1069.8 |
| 80° | 3257.9 | 3593.2 | 5050.6 | 9132.3 | 14399.9 | 14477.5 | 6079.8 | 1604.7 | 1155.1 | 996.2 | 755.9 |
| 82.5° | 1329.5 | 1366.4 | 2168.7 | 4052.5 | 7312.4 | 7382.1 | 2482.7 | 953.5 | 825.6 | 686.1 | 451.5 |
| 85° | 519.4 | 534.9 | 959.3 | 1821.8 | 3120.3 | 3323.8 | 858.6 | 503.9 | 507.8 | 393.4 | 230.6 |
| 87.5° | 174.4 | 197.7 | 393.4 | 606.6 | 1060.2 | 1038.8 | 250.0 | 149.2 | 182.2 | 170.6 | 71.7 |
| 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° | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 | 5341.4 |
| 2.5° | 5358.8 | 5395.6 | 5420.8 | 5447.9 | 5473.1 | 5480.9 | 5475.1 | 5492.5 | 5494.4 | 5496.4 | 5498.4 |
| 5° | 5389.8 | 5440.2 | 5488.6 | 5515.8 | 5527.4 | 5517.7 | 5484.7 | 5467.3 | 5451.8 | 5440.2 | 5444.0 |
| 7.5° | 5432.4 | 5504.2 | 5548.7 | 5560.4 | 5529.3 | 5484.7 | 5403.3 | 5339.4 | 5298.7 | 5271.6 | 5269.6 |
| 10° | 5498.4 | 5568.1 | 5604.9 | 5572.0 | 5486.7 | 5378.2 | 5250.3 | 5130.1 | 5039.0 | 5011.9 | 5009.9 |
| 12.5° | 5581.6 | 5661.1 | 5659.2 | 5562.3 | 5413.1 | 5219.2 | 5011.9 | 4872.3 | 4748.3 | 4686.3 | 4711.5 |
| 15° | 5690.2 | 5750.3 | 5694.1 | 5519.7 | 5283.2 | 5017.7 | 4761.8 | 4571.9 | 4432.4 | 4366.5 | 4370.3 |
| 17.5° | 5816.2 | 5868.5 | 5719.3 | 5444.0 | 5101.0 | 4759.9 | 4463.4 | 4283.1 | 4172.7 | 4124.3 | 4120.4 |
| 20° | 5973.2 | 5988.7 | 5719.3 | 5312.3 | 4866.5 | 4459.5 | 4176.6 | 4050.6 | 3988.6 | 3963.4 | 3971.1 |
| 22.5° | 6141.7 | 6110.8 | 5688.3 | 5126.2 | 4558.4 | 4145.5 | 3955.6 | 3899.4 | 3868.4 | 3864.6 | 3868.4 |
| 25° | 6331.7 | 6244.5 | 5624.3 | 4874.3 | 4236.6 | 3874.2 | 3763.7 | 3773.5 | 3779.3 | 3779.3 | 3792.8 |
| 27.5° | 6564.3 | 6389.8 | 5517.7 | 4556.5 | 3860.7 | 3622.3 | 3591.2 | 3659.1 | 3690.1 | 3695.9 | 3705.6 |
| 30° | 6870.5 | 6548.8 | 5341.4 | 4159.1 | 3540.9 | 3395.5 | 3449.8 | 3540.9 | 3575.8 | 3597.0 | 3593.2 |
| 32.5° | 7234.9 | 6723.2 | 5102.9 | 3761.8 | 3283.1 | 3236.6 | 3302.5 | 3395.5 | 3434.3 | 3445.9 | 3430.4 |
| 35° | 7663.2 | 6920.9 | 4789.0 | 3389.7 | 3058.3 | 3085.5 | 3162.9 | 3192.0 | 3226.9 | 3226.9 | 3234.7 |
| 37.5° | 8124.4 | 7079.8 | 4405.2 | 3048.6 | 2883.9 | 2982.7 | 3039.0 | 3011.8 | 2996.3 | 2976.9 | 2986.6 |
| 40° | 8593.4 | 7198.0 | 3907.2 | 2711.4 | 2709.4 | 2876.1 | 2891.6 | 2814.1 | 2752.1 | 2732.7 | 2723.0 |
| 42.5° | 9002.4 | 7271.7 | 3457.5 | 2449.7 | 2544.7 | 2771.4 | 2783.1 | 2659.1 | 2560.2 | 2502.1 | 2482.7 |
| 45° | 9485.0 | 7357.0 | 3017.6 | 2232.7 | 2391.6 | 2688.1 | 2717.2 | 2550.5 | 2405.2 | 2283.1 | 2252.0 |
| 47.5° | 10145.8 | 7550.8 | 2670.7 | 2064.1 | 2281.1 | 2635.8 | 2676.5 | 2461.4 | 2269.5 | 2110.6 | 2085.3 |
| 50° | 10892.0 | 7816.3 | 2401.3 | 1949.7 | 2195.9 | 2589.3 | 2639.6 | 2370.3 | 2143.5 | 1967.2 | 1947.8 |
| 52.5° | 11576.2 | 7959.7 | 2168.7 | 1847.0 | 2112.5 | 2504.0 | 2591.2 | 2304.3 | 2019.5 | 1823.7 | 1806.3 |
| 55° | 11950.2 | 7727.1 | 1940.0 | 1746.3 | 1998.1 | 2393.6 | 2523.4 | 2213.3 | 1899.3 | 1748.2 | 1723.0 |
| 57.5° | 12000.6 | 7246.5 | 1732.6 | 1637.7 | 1878.0 | 2257.8 | 2397.4 | 2102.8 | 1821.8 | 1695.8 | 1674.5 |
| 60° | 11611.0 | 6529.4 | 1571.7 | 1548.5 | 1755.9 | 2104.8 | 2255.9 | 2006.0 | 1742.3 | 1637.7 | 1616.3 |
| 62.5° | 10642.0 | 5750.3 | 1459.4 | 1467.1 | 1631.9 | 1943.9 | 2151.3 | 1912.9 | 1666.8 | 1573.8 | 1554.3 |
| 65° | 8975.2 | 4746.4 | 1350.8 | 1383.8 | 1521.4 | 1817.9 | 2056.3 | 1835.4 | 1591.2 | 1525.2 | 1507.8 |
| 67.5° | 6234.8 | 3426.5 | 1261.7 | 1296.6 | 1416.7 | 1690.0 | 1945.8 | 1752.1 | 1505.9 | 1471.0 | 1443.8 |
| 70° | 3451.7 | 2108.6 | 1157.0 | 1197.8 | 1308.2 | 1546.6 | 1821.8 | 1626.1 | 1381.8 | 1366.4 | 1327.6 |
| 72.5° | 1814.0 | 1343.1 | 1038.8 | 1083.4 | 1160.9 | 1362.5 | 1631.9 | 1488.5 | 1259.7 | 1193.9 | 1143.5 |
| 74° | 1416.7 | 1100.9 | 959.3 | 1005.8 | 1058.2 | 1253.9 | 1519.4 | 1389.6 | 1172.5 | 1095.0 | 1056.3 |
| 75° | 1234.6 | 980.7 | 891.5 | 951.6 | 998.1 | 1180.3 | 1432.2 | 1319.9 | 1124.1 | 1050.4 | 1015.6 |
| 77.5° | 872.1 | 734.5 | 728.7 | 800.5 | 825.6 | 1034.9 | 1290.8 | 1201.6 | 1002.0 | 924.4 | 891.5 |
| 80° | 612.4 | 550.4 | 577.5 | 622.1 | 657.0 | 914.8 | 1197.8 | 1038.8 | 821.7 | 730.7 | 719.1 |
| 82.5° | 399.2 | 360.5 | 412.8 | 453.6 | 465.2 | 674.5 | 967.1 | 788.8 | 598.9 | 486.4 | 451.5 |
| 85° | 184.1 | 180.2 | 236.4 | 230.6 | 228.7 | 329.5 | 573.6 | 461.3 | 345.0 | 257.8 | 242.3 |
| 87.5° | 46.5 | 44.6 | 58.1 | 48.4 | 58.1 | 50.4 | 52.3 | 13.5 | 1.9 | 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)