

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: P317710

Luminaire Tested: **GAN-SA6A-730-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25953 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

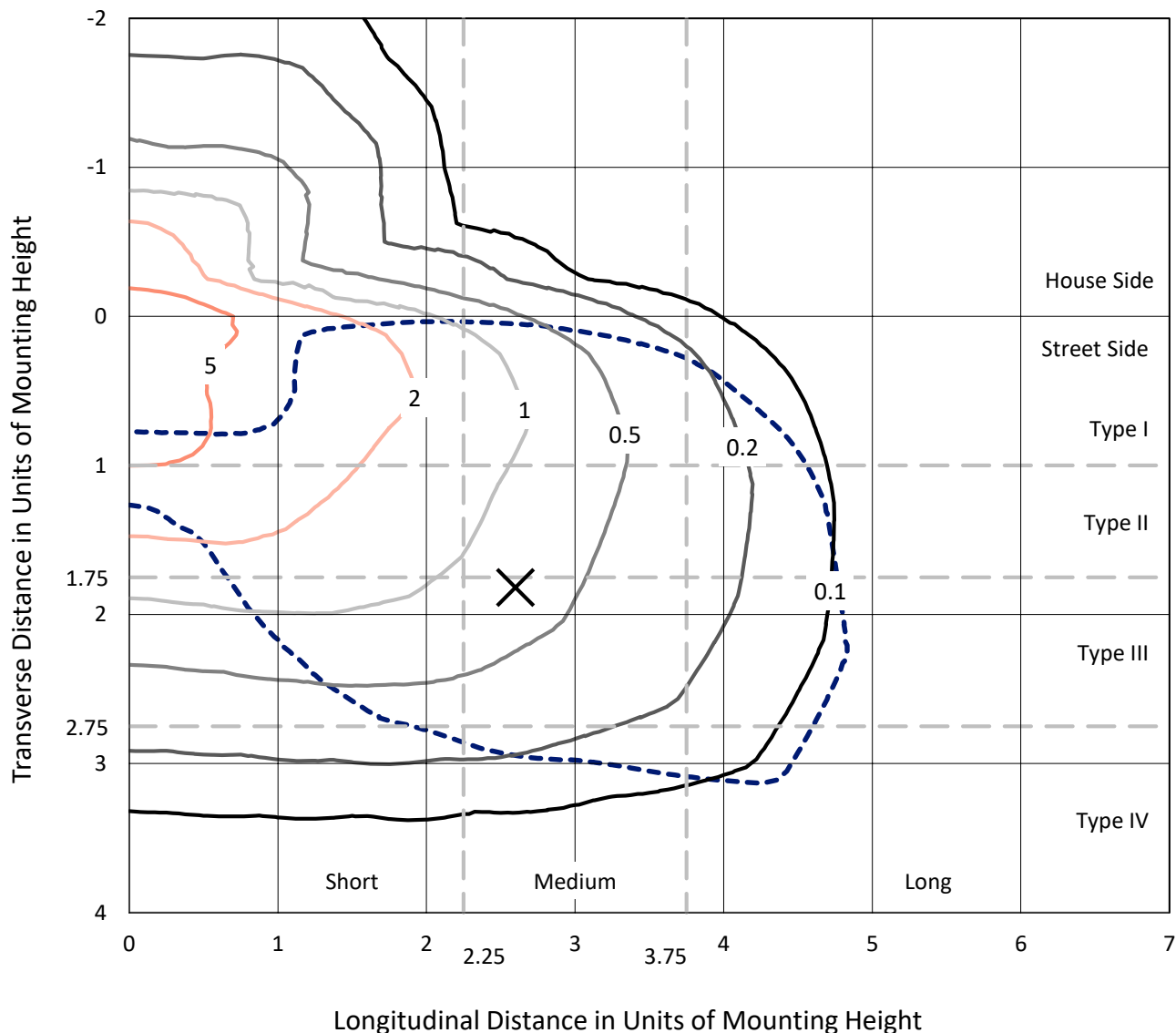
Input Watts (W): 193
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

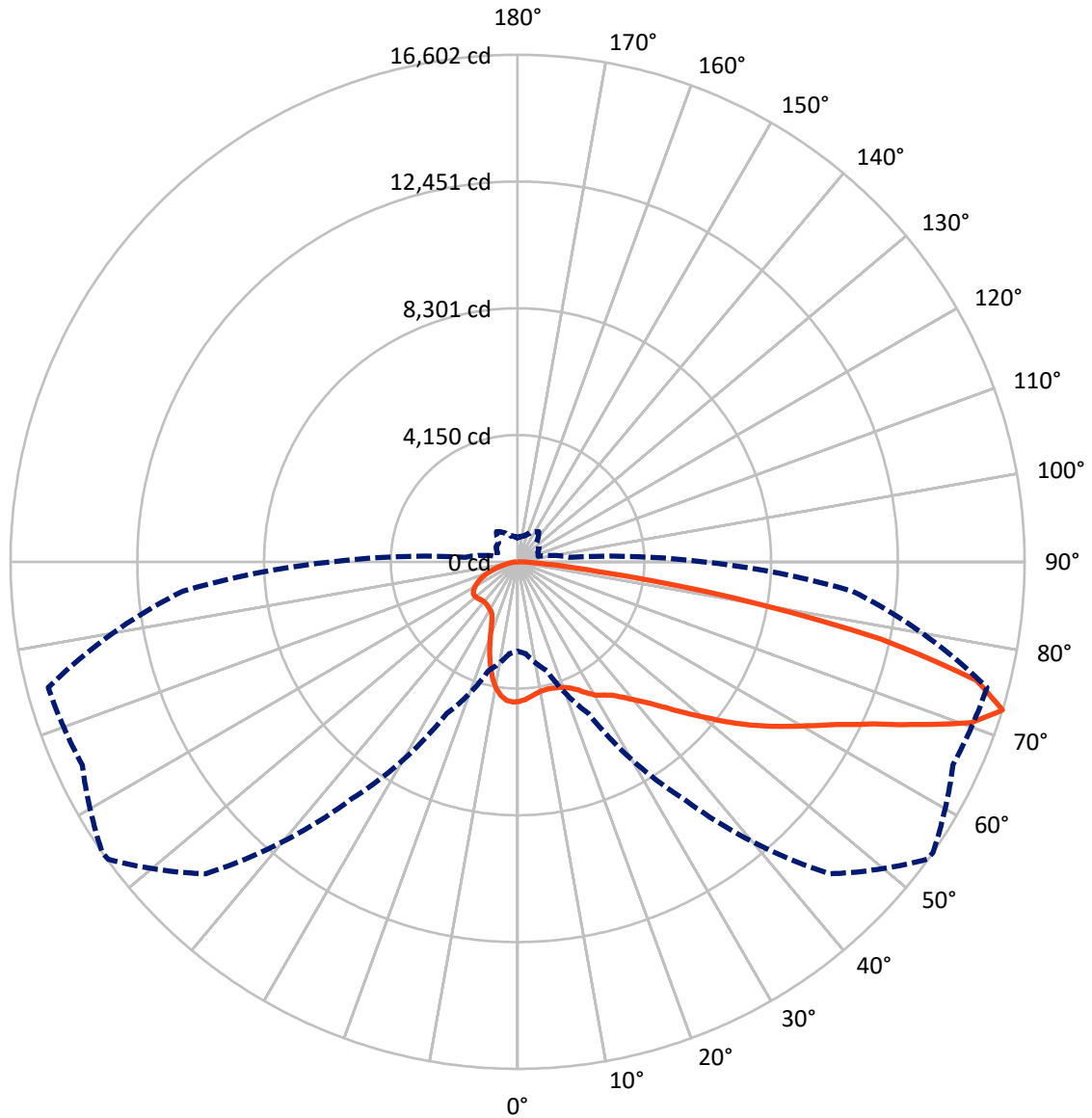
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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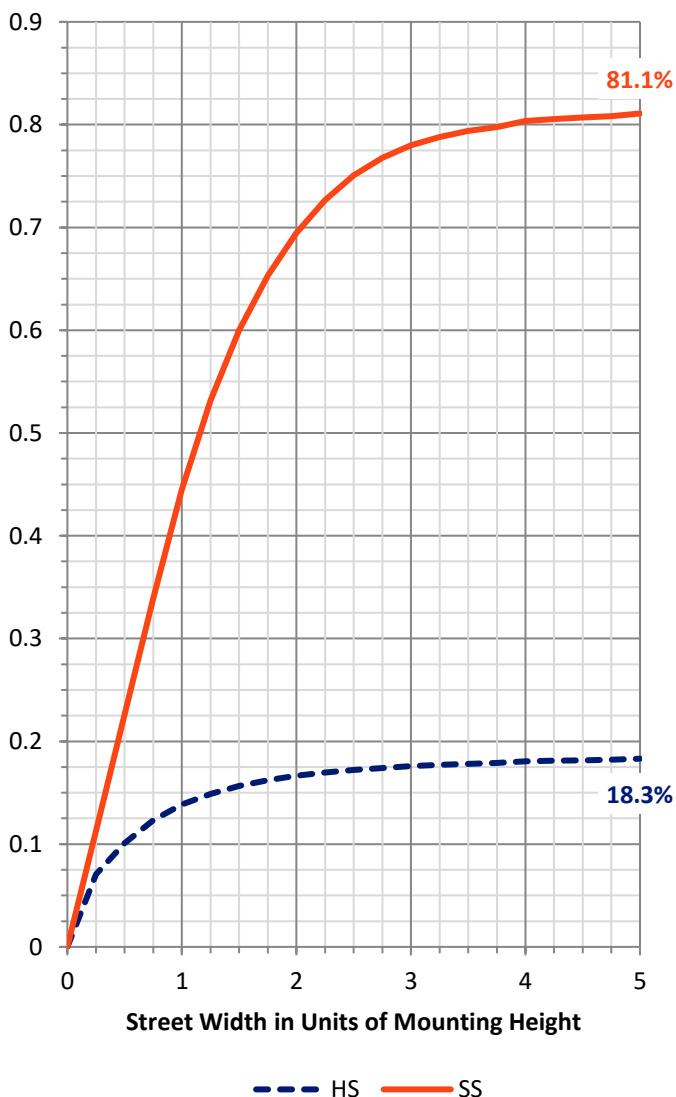
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4823.8 | 0.0 | 4823.8 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 21129.2 | 0.0 | 21129.2 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 25953.0 | 0.0 | 25953.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 414.2 | 1.6 |
| 10°-20° | 1102.8 | 4.2 |
| 20°-30° | 1818.2 | 7.0 |
| 30°-40° | 2689.6 | 10.4 |
| 40°-50° | 3754.1 | 14.5 |
| 50°-60° | 4888.0 | 18.8 |
| 60°-70° | 6007.2 | 23.1 |
| 70°-80° | 4708.9 | 18.1 |
| 80°-90° | 569.8 | 2.2 |
| 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° | 25953.0 | 100.0 |
| 0°-180° | 25953.0 | 100.0 |

Coefficient of Utilization

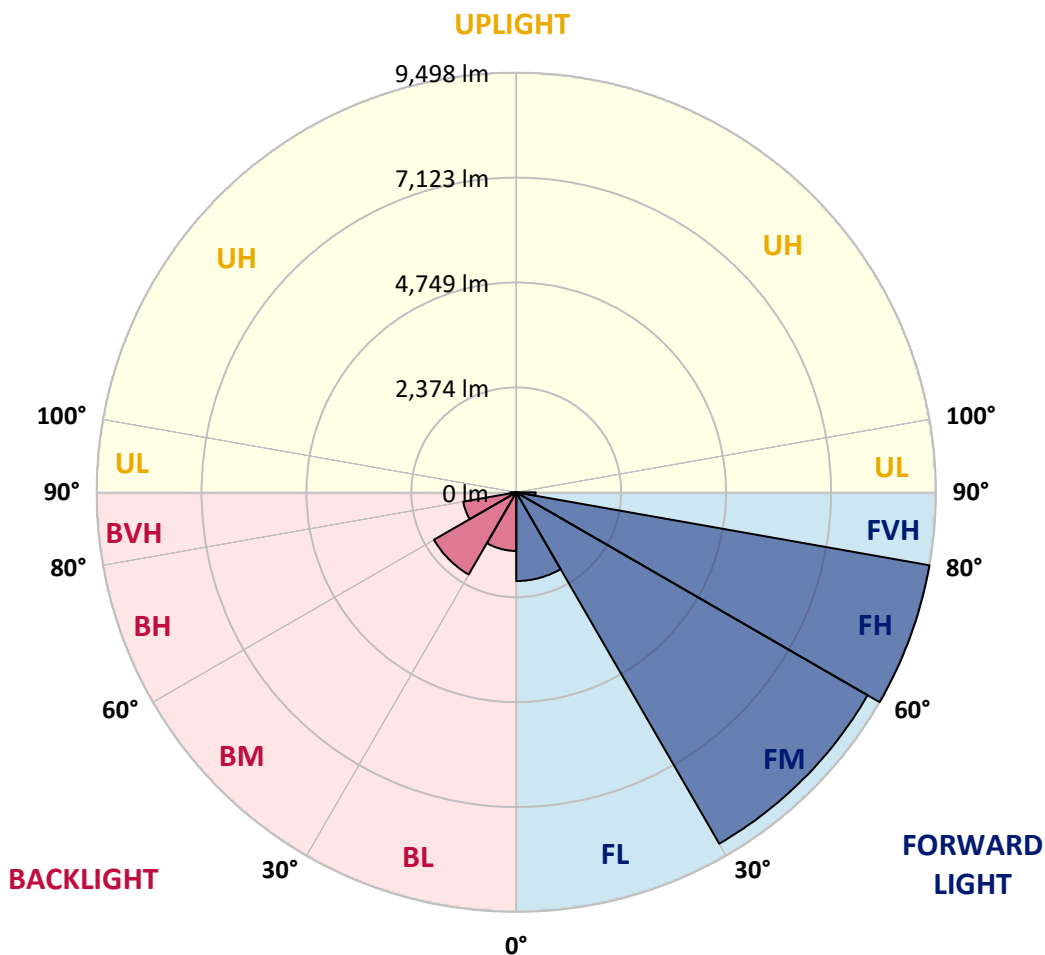


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2008.0 | 7.7 | | | |
| FM (30°-60°) | 9182.7 | 35.4 | | | |
| FH (60°-80°) | 9497.9 | 36.6 | | | G4/12000 |
| FVH (80°-90°) | 440.6 | 1.7 | | | G3/500 |
| BL (0°-30°) | 1327.2 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2149.1 | 8.3 | B2/2500 | | |
| BH (60°-80°) | 1218.2 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 129.3 | 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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 |
| 2.5° | 4428.5 | 4418.0 | 4431.2 | 4449.6 | 4469.7 | 4496.9 | 4512.7 | 4519.7 | 4546.9 | 4557.4 | 4580.2 |
| 5° | 4223.4 | 4218.1 | 4240.1 | 4271.6 | 4316.3 | 4379.4 | 4430.3 | 4439.9 | 4511.8 | 4562.6 | 4609.1 |
| 7.5° | 4074.4 | 4074.4 | 4099.8 | 4137.5 | 4187.5 | 4272.5 | 4344.4 | 4357.5 | 4479.4 | 4588.9 | 4674.9 |
| 10° | 3956.0 | 3960.4 | 3990.2 | 4034.9 | 4093.7 | 4184.0 | 4279.5 | 4294.4 | 4470.6 | 4650.3 | 4787.1 |
| 12.5° | 3877.2 | 3887.7 | 3914.8 | 3955.2 | 4027.9 | 4137.5 | 4258.5 | 4278.6 | 4489.0 | 4738.0 | 4922.1 |
| 15° | 3927.1 | 3944.7 | 3947.3 | 3963.9 | 4004.3 | 4123.5 | 4270.7 | 4291.8 | 4528.5 | 4827.4 | 5075.5 |
| 17.5° | 4146.3 | 4152.4 | 4125.2 | 4090.2 | 4070.9 | 4147.1 | 4307.6 | 4329.5 | 4575.8 | 4915.9 | 5222.7 |
| 20° | 4479.4 | 4475.9 | 4417.1 | 4322.5 | 4224.3 | 4236.6 | 4368.0 | 4390.8 | 4639.8 | 4993.9 | 5370.0 |
| 22.5° | 4900.1 | 4887.9 | 4797.6 | 4623.1 | 4455.7 | 4385.6 | 4474.1 | 4493.4 | 4736.2 | 5105.3 | 5527.8 |
| 25° | 5410.3 | 5383.1 | 5263.9 | 5029.9 | 4783.5 | 4603.0 | 4633.7 | 4652.1 | 4876.5 | 5229.7 | 5672.4 |
| 27.5° | 5948.5 | 5921.4 | 5769.7 | 5486.6 | 5158.7 | 4877.3 | 4853.7 | 4869.5 | 5036.0 | 5321.8 | 5779.4 |
| 30° | 6511.3 | 6482.4 | 6343.9 | 6026.6 | 5556.7 | 5161.4 | 5058.8 | 5064.9 | 5148.2 | 5371.7 | 5867.0 |
| 32.5° | 7076.7 | 7049.5 | 6894.4 | 6526.2 | 5988.9 | 5466.4 | 5206.9 | 5199.1 | 5215.7 | 5423.5 | 5966.1 |
| 35° | 7650.0 | 7660.5 | 7479.1 | 7071.4 | 6467.5 | 5805.7 | 5382.3 | 5365.6 | 5328.8 | 5529.5 | 6106.3 |
| 37.5° | 8263.6 | 8256.6 | 8021.7 | 7595.6 | 6968.0 | 6173.8 | 5633.8 | 5631.2 | 5504.1 | 5730.3 | 6326.3 |
| 40° | 8673.9 | 8678.2 | 8535.4 | 8132.1 | 7473.8 | 6581.4 | 5956.4 | 5950.3 | 5783.7 | 6030.9 | 6614.7 |
| 42.5° | 8834.3 | 8863.2 | 8900.0 | 8644.0 | 8003.3 | 7053.9 | 6341.2 | 6332.5 | 6173.8 | 6462.2 | 6954.0 |
| 45° | 8845.7 | 8903.5 | 9131.4 | 9099.0 | 8539.7 | 7594.8 | 6833.0 | 6808.5 | 6694.5 | 7035.5 | 7359.0 |
| 47.5° | 8747.5 | 8807.1 | 9185.8 | 9369.9 | 9019.2 | 8165.4 | 7408.1 | 7388.8 | 7290.6 | 7752.6 | 7797.3 |
| 50° | 8532.7 | 8589.7 | 9073.6 | 9502.2 | 9413.7 | 8714.2 | 8070.8 | 8019.9 | 7967.3 | 8580.9 | 8298.7 |
| 52.5° | 8130.4 | 8239.9 | 8923.7 | 9533.8 | 9649.5 | 9201.6 | 8767.6 | 8734.3 | 8763.3 | 9454.9 | 8801.0 |
| 55° | 7177.5 | 7300.2 | 8537.1 | 9507.5 | 9823.9 | 9610.9 | 9464.5 | 9462.8 | 9612.7 | 10371.8 | 9340.1 |
| 57.5° | 6643.7 | 6730.5 | 7749.9 | 9462.8 | 10030.8 | 10017.7 | 10154.4 | 10171.1 | 10463.0 | 11370.2 | 9904.6 |
| 60° | 6342.1 | 6433.3 | 7351.1 | 9297.1 | 10351.6 | 10543.6 | 10858.3 | 10891.6 | 11327.3 | 12475.6 | 10583.9 |
| 62.5° | 6067.8 | 6167.7 | 7103.9 | 8959.6 | 10729.5 | 11295.7 | 11701.6 | 11731.4 | 12242.5 | 13611.7 | 11240.5 |
| 65° | 5598.8 | 5711.9 | 6741.9 | 8737.8 | 11073.1 | 12276.6 | 12773.7 | 12793.8 | 13293.5 | 14802.1 | 11742.8 |
| 67.5° | 4936.1 | 5039.5 | 6059.0 | 8247.8 | 11327.3 | 13467.9 | 14199.0 | 14210.4 | 14335.7 | 15642.7 | 11999.6 |
| 70° | 4162.0 | 4201.5 | 5086.0 | 7236.2 | 11026.6 | 14582.1 | 15761.1 | 15763.7 | 15286.0 | 16181.0 | 11957.6 |
| 72.5° | 2924.3 | 3017.2 | 3692.2 | 5477.8 | 9475.9 | 14446.2 | 16571.9 | 16601.7 | 15727.8 | 15909.2 | 11002.1 |
| 75° | 1793.5 | 1891.7 | 2315.9 | 3319.6 | 6011.7 | 11361.5 | 15311.4 | 15518.3 | 14899.4 | 14185.0 | 8987.7 |
| 77.5° | 1199.2 | 1236.0 | 1511.2 | 1935.5 | 2723.6 | 6536.7 | 11771.7 | 12160.9 | 12377.4 | 10344.6 | 5747.8 |
| 80° | 668.8 | 739.0 | 1001.9 | 1202.7 | 1211.4 | 2597.3 | 7058.3 | 7149.5 | 6886.5 | 4119.1 | 1773.3 |
| 82.5° | 354.1 | 392.7 | 668.8 | 706.5 | 660.9 | 869.6 | 2630.6 | 2633.3 | 2200.2 | 1104.5 | 526.8 |
| 85° | 274.4 | 306.8 | 458.5 | 431.3 | 337.5 | 385.7 | 867.8 | 915.2 | 748.6 | 452.3 | 171.8 |
| 87.5° | 136.7 | 170.1 | 311.2 | 273.5 | 132.4 | 110.5 | 310.3 | 331.4 | 295.4 | 177.1 | 62.2 |
| 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° | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 | 4577.6 |
| 2.5° | 4588.9 | 4596.8 | 4606.5 | 4596.0 | 4592.5 | 4578.4 | 4554.8 | 4549.5 | 4537.2 | 4538.1 | 4545.1 |
| 5° | 4629.3 | 4642.4 | 4637.2 | 4596.8 | 4548.6 | 4481.1 | 4411.0 | 4351.4 | 4311.9 | 4309.3 | 4306.7 |
| 7.5° | 4706.4 | 4715.2 | 4674.0 | 4559.1 | 4424.1 | 4268.1 | 4120.8 | 3992.0 | 3914.0 | 3894.7 | 3890.3 |
| 10° | 4827.4 | 4825.6 | 4712.5 | 4481.1 | 4212.0 | 3933.3 | 3696.6 | 3517.8 | 3413.4 | 3382.8 | 3374.9 |
| 12.5° | 4962.4 | 4942.2 | 4725.7 | 4339.1 | 3912.2 | 3525.6 | 3225.8 | 3026.9 | 2918.2 | 2883.1 | 2874.3 |
| 15° | 5101.8 | 5051.8 | 4693.3 | 4127.0 | 3544.1 | 3086.5 | 2771.8 | 2587.7 | 2529.0 | 2509.7 | 2506.2 |
| 17.5° | 5231.5 | 5135.1 | 4600.3 | 3839.5 | 3124.2 | 2649.1 | 2403.6 | 2330.0 | 2344.0 | 2369.4 | 2370.3 |
| 20° | 5358.6 | 5191.2 | 4451.3 | 3476.6 | 2681.5 | 2288.8 | 2205.5 | 2259.8 | 2326.5 | 2378.2 | 2385.2 |
| 22.5° | 5483.9 | 5230.6 | 4259.3 | 3057.5 | 2285.3 | 2086.3 | 2145.0 | 2244.1 | 2320.3 | 2376.4 | 2386.1 |
| 25° | 5589.1 | 5240.3 | 3994.6 | 2610.5 | 2010.0 | 2010.0 | 2116.1 | 2209.9 | 2285.3 | 2340.5 | 2350.1 |
| 27.5° | 5627.7 | 5175.4 | 3621.2 | 2196.7 | 1871.5 | 1975.0 | 2075.8 | 2153.8 | 2217.8 | 2276.5 | 2287.0 |
| 30° | 5642.6 | 5055.3 | 3189.9 | 1864.5 | 1814.5 | 1937.3 | 2021.4 | 2088.0 | 2148.5 | 2203.7 | 2213.4 |
| 32.5° | 5645.2 | 4910.7 | 2732.3 | 1676.0 | 1775.1 | 1897.8 | 1953.9 | 2012.6 | 2077.5 | 2099.4 | 2102.9 |
| 35° | 5661.9 | 4739.7 | 2250.2 | 1579.6 | 1738.3 | 1861.0 | 1905.7 | 1947.8 | 1842.6 | 1850.5 | 1857.5 |
| 37.5° | 5710.1 | 4570.5 | 1847.0 | 1525.3 | 1714.6 | 1841.7 | 1895.2 | 1742.7 | 1660.3 | 1641.0 | 1638.3 |
| 40° | 5800.4 | 4390.0 | 1548.1 | 1481.4 | 1705.8 | 1851.4 | 1827.7 | 1627.0 | 1484.9 | 1378.9 | 1363.1 |
| 42.5° | 5925.7 | 4195.4 | 1357.0 | 1452.5 | 1712.0 | 1897.8 | 1733.9 | 1515.6 | 1279.8 | 1211.4 | 1202.7 |
| 45° | 6066.9 | 3991.1 | 1253.5 | 1432.3 | 1733.0 | 1933.8 | 1714.6 | 1367.5 | 1184.3 | 1132.6 | 1128.2 |
| 47.5° | 6203.6 | 3741.3 | 1200.1 | 1423.6 | 1761.9 | 1904.8 | 1633.1 | 1321.9 | 1138.7 | 1111.5 | 1114.1 |
| 50° | 6360.5 | 3516.0 | 1167.6 | 1413.9 | 1787.4 | 1886.4 | 1541.0 | 1298.2 | 1121.2 | 1154.5 | 1189.5 |
| 52.5° | 6492.9 | 3282.8 | 1138.7 | 1394.7 | 1797.0 | 1854.0 | 1517.4 | 1302.6 | 1121.2 | 1185.1 | 1218.5 |
| 55° | 6649.8 | 3106.6 | 1105.4 | 1354.3 | 1778.6 | 1761.9 | 1500.7 | 1328.9 | 1134.3 | 1094.0 | 1097.5 |
| 57.5° | 6852.3 | 3048.8 | 1068.6 | 1291.2 | 1717.2 | 1627.8 | 1492.8 | 1354.3 | 1126.4 | 1101.0 | 1109.8 |
| 60° | 7132.8 | 3110.1 | 1053.7 | 1208.8 | 1621.7 | 1522.6 | 1493.7 | 1341.2 | 1071.2 | 1027.4 | 1028.2 |
| 62.5° | 7400.2 | 3178.5 | 1052.8 | 1157.1 | 1504.2 | 1428.8 | 1473.5 | 1298.2 | 1043.1 | 1017.7 | 1027.4 |
| 65° | 7487.8 | 3109.3 | 1010.7 | 1099.2 | 1371.9 | 1316.6 | 1436.7 | 1252.6 | 1022.1 | 983.5 | 981.8 |
| 67.5° | 7370.4 | 2894.5 | 925.7 | 1005.4 | 1220.2 | 1186.0 | 1388.5 | 1198.3 | 988.8 | 957.2 | 952.0 |
| 70° | 7021.5 | 2415.0 | 820.5 | 881.8 | 1047.5 | 1038.8 | 1312.3 | 1135.2 | 944.1 | 916.9 | 894.1 |
| 72.5° | 6082.7 | 1720.7 | 691.6 | 733.7 | 852.9 | 881.0 | 1207.1 | 1052.8 | 881.0 | 822.2 | 787.2 |
| 75° | 4995.7 | 1273.7 | 568.0 | 576.8 | 647.8 | 724.1 | 1062.4 | 956.4 | 806.5 | 706.5 | 679.4 |
| 77.5° | 3059.3 | 779.3 | 452.3 | 455.8 | 464.6 | 577.7 | 874.8 | 848.5 | 711.8 | 589.1 | 569.8 |
| 80° | 990.5 | 425.1 | 327.0 | 343.6 | 317.3 | 423.4 | 676.7 | 722.3 | 611.0 | 492.6 | 471.6 |
| 82.5° | 376.9 | 248.1 | 220.9 | 232.3 | 220.0 | 284.0 | 493.5 | 578.5 | 500.5 | 405.0 | 329.6 |
| 85° | 182.3 | 140.3 | 130.6 | 146.4 | 135.9 | 145.5 | 315.6 | 426.0 | 379.6 | 263.9 | 245.4 |
| 87.5° | 64.9 | 62.2 | 50.0 | 67.5 | 57.9 | 51.7 | 96.4 | 214.8 | 250.7 | 181.5 | 162.2 |
| 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)