

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: P318400

Luminaire Tested: **GAN-SA6B-740-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-740-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34186 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

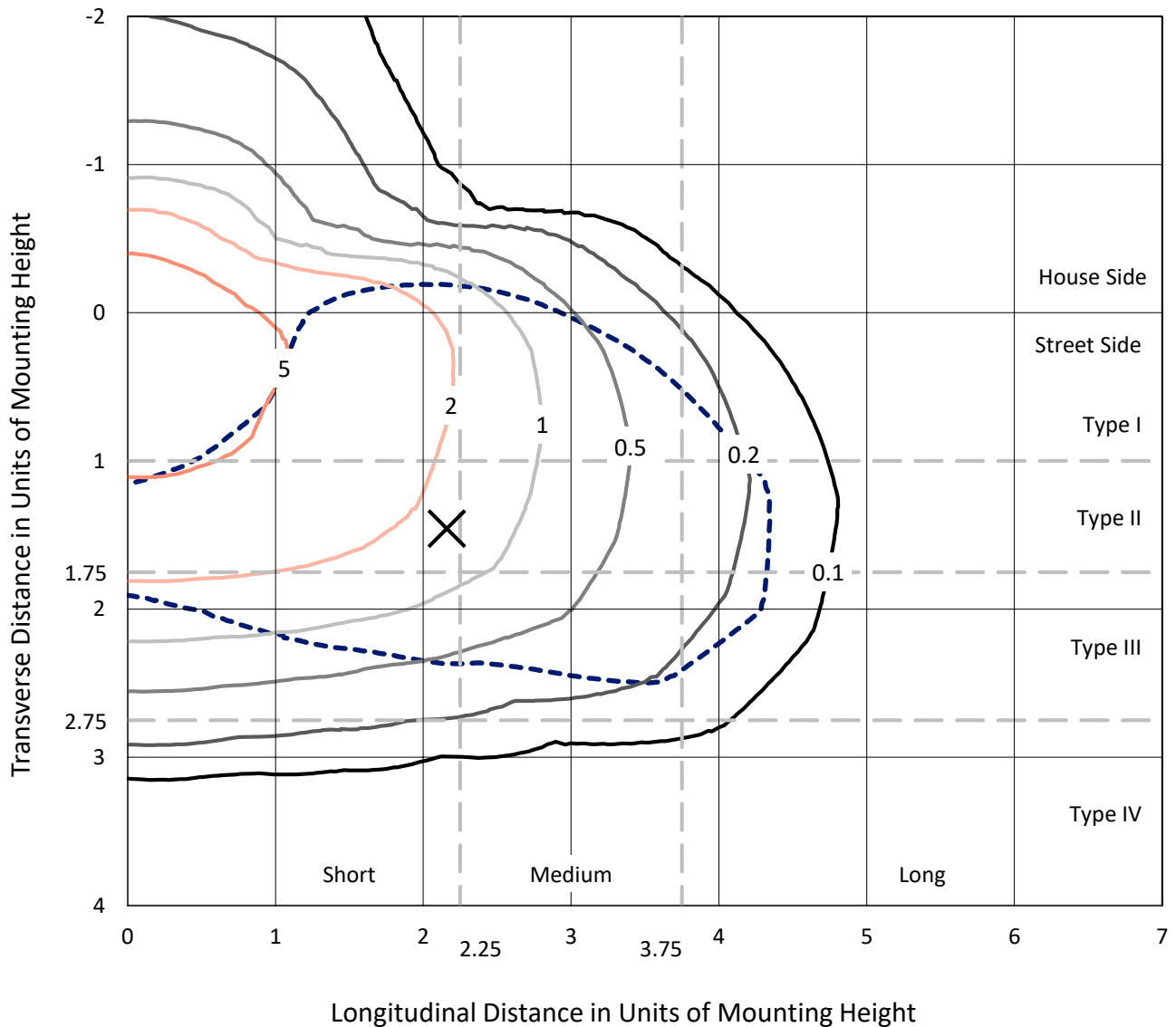
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

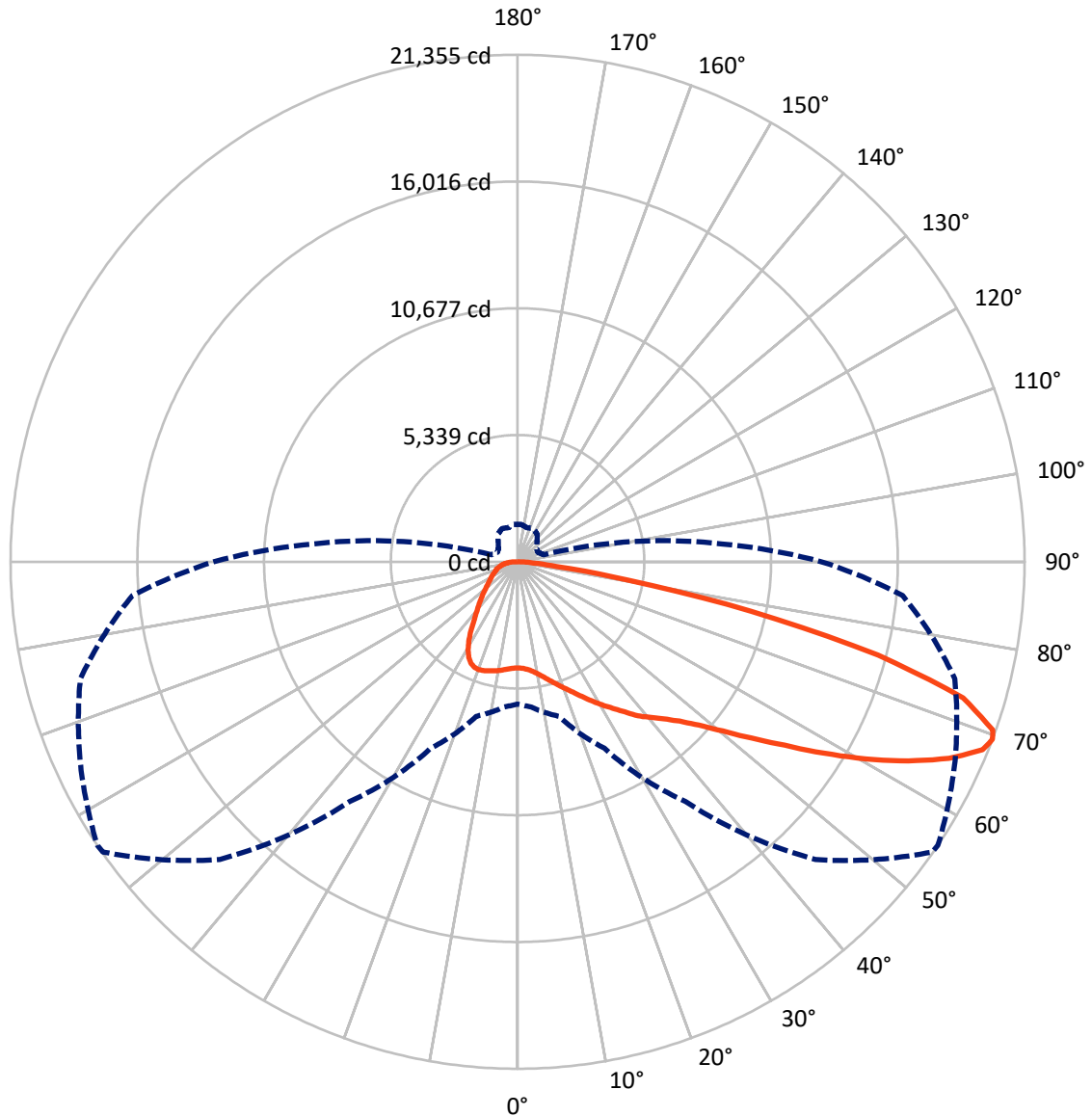
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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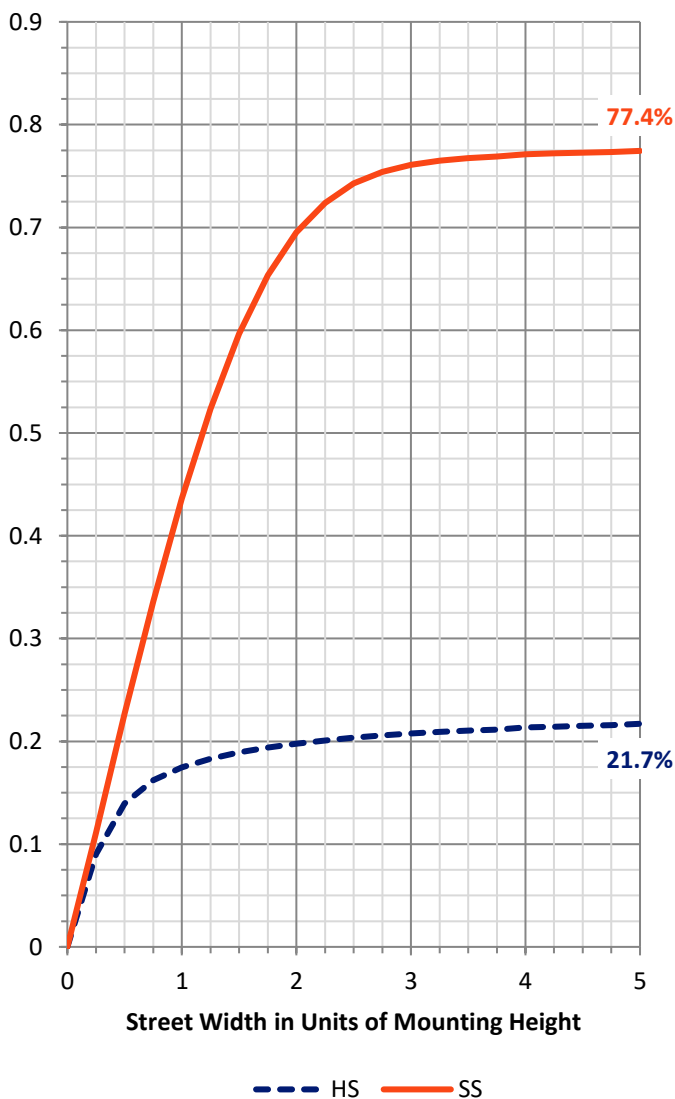
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7613.2 | 0.0 | 7613.2 |
| | % Fixture | 22.3 | 0.0 | 22.3 |
| Street Side | Lumens | 26572.8 | 0.0 | 26572.8 |
| | % Fixture | 77.7 | 0.0 | 77.7 |
| Total | Lumens | 34186.0 | 0.0 | 34186.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 439.0 | 1.3 |
| 10°-20° | 1411.5 | 4.1 |
| 20°-30° | 2464.0 | 7.2 |
| 30°-40° | 3539.4 | 10.4 |
| 40°-50° | 4898.3 | 14.3 |
| 50°-60° | 7176.7 | 21.0 |
| 60°-70° | 8749.8 | 25.6 |
| 70°-80° | 4837.4 | 14.2 |
| 80°-90° | 670.0 | 2.0 |
| 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° | 34186.0 | 100.0 |
| 0°-180° | 34186.0 | 100.0 |

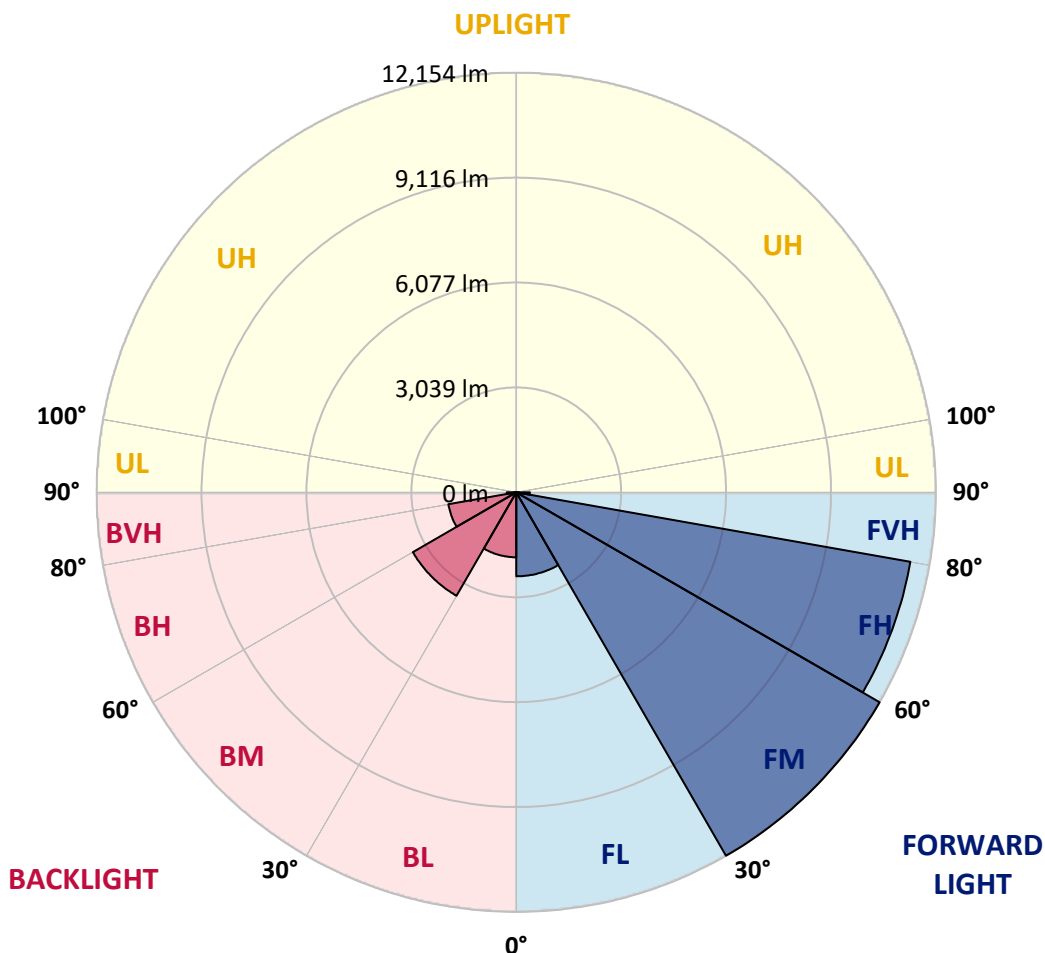


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2433.0 | 7.1 | | | |
| FM (30°-60°) | 12154.4 | 35.6 | | | |
| FH (60°-80°) | 11590.8 | 33.9 | | | G4/12000 |
| FVH (80°-90°) | 394.6 | 1.2 | | | G3/500 |
| BL (0°-30°) | 1881.4 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 3460.0 | 10.1 | B3/5000 | | |
| BH (60°-80°) | 1996.4 | 5.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 275.3 | 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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 |
| 2.5° | 4497.6 | 4502.3 | 4498.7 | 4508.2 | 4497.6 | 4504.6 | 4498.7 | 4498.7 | 4495.2 | 4484.6 | 4472.8 |
| 5° | 4568.2 | 4577.7 | 4571.8 | 4581.2 | 4568.2 | 4570.6 | 4560.0 | 4560.0 | 4549.4 | 4527.0 | 4503.5 |
| 7.5° | 4678.9 | 4689.5 | 4684.8 | 4694.2 | 4676.6 | 4676.6 | 4662.4 | 4661.3 | 4640.1 | 4603.6 | 4576.5 |
| 10° | 4810.8 | 4825.0 | 4820.3 | 4834.4 | 4820.3 | 4825.0 | 4810.8 | 4810.8 | 4782.6 | 4730.8 | 4696.6 |
| 12.5° | 5002.8 | 5020.5 | 5007.5 | 5006.3 | 5000.4 | 5009.9 | 4998.1 | 4995.7 | 4969.8 | 4899.2 | 4852.1 |
| 15° | 5259.5 | 5278.4 | 5251.3 | 5248.9 | 5216.0 | 5212.4 | 5212.4 | 5208.9 | 5192.4 | 5107.6 | 5029.9 |
| 17.5° | 5555.1 | 5561.0 | 5537.5 | 5499.8 | 5457.4 | 5430.3 | 5426.8 | 5436.2 | 5436.2 | 5337.3 | 5213.6 |
| 20° | 5844.8 | 5855.4 | 5836.6 | 5794.2 | 5740.0 | 5700.0 | 5671.7 | 5690.6 | 5689.4 | 5571.6 | 5396.1 |
| 22.5° | 6160.5 | 6185.2 | 6156.9 | 6102.8 | 6039.2 | 5994.4 | 5944.9 | 5961.4 | 5962.6 | 5817.8 | 5575.1 |
| 25° | 6569.1 | 6546.7 | 6529.1 | 6452.5 | 6361.8 | 6315.9 | 6270.0 | 6286.5 | 6281.8 | 6082.7 | 5760.0 |
| 27.5° | 6930.7 | 6935.4 | 6911.8 | 6830.6 | 6725.7 | 6624.5 | 6622.1 | 6632.7 | 6615.0 | 6358.3 | 5934.3 |
| 30° | 7351.1 | 7353.4 | 7320.5 | 7247.5 | 7133.2 | 7002.5 | 6971.9 | 6989.5 | 6951.9 | 6619.8 | 6118.1 |
| 32.5° | 7769.2 | 7780.9 | 7744.4 | 7656.1 | 7564.3 | 7405.3 | 7344.0 | 7355.8 | 7261.6 | 6887.1 | 6307.7 |
| 35° | 8135.4 | 8151.9 | 8140.1 | 8081.3 | 7981.2 | 7844.5 | 7771.5 | 7764.5 | 7647.9 | 7214.5 | 6558.5 |
| 37.5° | 8508.8 | 8524.1 | 8511.1 | 8461.6 | 8421.6 | 8276.8 | 8237.9 | 8237.9 | 8035.3 | 7548.9 | 6877.7 |
| 40° | 8892.7 | 8916.2 | 8900.9 | 8832.6 | 8798.5 | 8732.5 | 8639.5 | 8617.1 | 8398.1 | 7950.5 | 7398.2 |
| 42.5° | 9249.5 | 9280.1 | 9341.4 | 9301.3 | 9231.9 | 9241.3 | 9054.0 | 9042.2 | 8882.1 | 8544.1 | 8051.8 |
| 45° | 9755.9 | 9800.7 | 9904.3 | 9873.7 | 9859.6 | 9807.7 | 9585.2 | 9574.6 | 9513.3 | 9342.6 | 8863.2 |
| 47.5° | 10308.3 | 10369.5 | 10556.7 | 10562.6 | 10714.6 | 10616.8 | 10314.1 | 10277.6 | 10291.8 | 10298.8 | 9853.7 |
| 50° | 10817.0 | 10884.1 | 11191.5 | 11336.4 | 11694.4 | 11715.6 | 11231.6 | 11198.6 | 11253.9 | 11416.5 | 11007.8 |
| 52.5° | 11223.3 | 11308.1 | 11692.0 | 12139.6 | 12753.1 | 12927.4 | 12361.0 | 12336.2 | 12377.4 | 12657.7 | 12312.7 |
| 55° | 11521.3 | 11613.1 | 12031.2 | 12846.2 | 13826.0 | 14133.4 | 13661.1 | 13637.6 | 13663.5 | 14020.3 | 13731.8 |
| 57.5° | 11590.8 | 11613.1 | 12219.6 | 13321.9 | 14731.6 | 15470.0 | 15252.2 | 15205.1 | 15077.9 | 15388.8 | 15298.1 |
| 60° | 11264.5 | 11354.0 | 12064.2 | 13489.2 | 15432.4 | 16787.9 | 16915.1 | 16856.2 | 16499.3 | 16753.7 | 16680.7 |
| 62.5° | 10602.7 | 10762.8 | 11483.6 | 13234.8 | 15706.8 | 17864.3 | 18546.1 | 18475.5 | 17860.7 | 18025.6 | 17674.7 |
| 65° | 9521.6 | 9589.9 | 10347.1 | 12357.4 | 15358.2 | 18553.2 | 20000.6 | 19965.3 | 19191.5 | 18933.6 | 17858.4 |
| 67.5° | 7587.8 | 7716.2 | 8359.2 | 10523.8 | 13932.0 | 18471.9 | 21125.3 | 21121.7 | 20060.6 | 19270.4 | 17207.1 |
| 69° | 5994.4 | 6127.5 | 6739.9 | 8668.9 | 12328.0 | 17728.8 | 21313.7 | 21354.9 | 20305.6 | 19065.5 | 16276.7 |
| 70° | 4779.0 | 4933.3 | 5353.7 | 7301.6 | 10904.2 | 16749.0 | 21157.1 | 21231.3 | 20258.5 | 18727.5 | 15418.2 |
| 72.5° | 2033.9 | 2158.7 | 2457.8 | 3763.9 | 6645.7 | 12507.0 | 19344.6 | 19624.9 | 19166.8 | 17140.0 | 12742.5 |
| 75° | 888.0 | 926.8 | 1062.3 | 1534.5 | 2950.1 | 6807.0 | 15154.4 | 15672.6 | 16388.6 | 14487.8 | 9492.1 |
| 77.5° | 650.1 | 666.6 | 740.8 | 900.9 | 1323.7 | 2570.9 | 9745.3 | 10046.8 | 11819.2 | 10542.6 | 5822.5 |
| 80° | 502.9 | 514.6 | 572.4 | 661.9 | 864.4 | 1039.9 | 4444.6 | 4703.7 | 6645.7 | 5415.0 | 2424.8 |
| 82.5° | 400.4 | 408.7 | 448.7 | 487.6 | 597.1 | 630.1 | 1475.6 | 1637.0 | 2453.1 | 1495.7 | 641.8 |
| 85° | 372.1 | 381.6 | 395.7 | 355.7 | 382.7 | 369.8 | 638.3 | 667.7 | 740.8 | 587.7 | 268.5 |
| 87.5° | 168.4 | 199.0 | 392.2 | 276.8 | 203.7 | 162.5 | 261.4 | 273.2 | 307.4 | 308.6 | 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° | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 | 4469.3 |
| 2.5° | 4479.9 | 4476.4 | 4482.3 | 4468.1 | 4485.8 | 4484.6 | 4478.7 | 4481.1 | 4492.9 | 4491.7 | 4492.9 |
| 5° | 4507.0 | 4504.6 | 4511.7 | 4501.1 | 4522.3 | 4529.4 | 4530.5 | 4541.1 | 4554.1 | 4557.6 | 4557.6 |
| 7.5° | 4575.3 | 4575.3 | 4578.8 | 4564.7 | 4578.8 | 4577.7 | 4571.8 | 4582.4 | 4595.3 | 4596.5 | 4595.3 |
| 10° | 4693.1 | 4694.2 | 4688.4 | 4651.8 | 4640.1 | 4608.3 | 4578.8 | 4580.0 | 4596.5 | 4609.4 | 4613.0 |
| 12.5° | 4841.5 | 4836.7 | 4810.8 | 4743.7 | 4694.2 | 4629.5 | 4598.8 | 4597.7 | 4614.2 | 4624.8 | 4628.3 |
| 15° | 5011.0 | 4998.1 | 4931.0 | 4821.4 | 4734.3 | 4670.7 | 4621.2 | 4609.4 | 4600.0 | 4588.3 | 4589.4 |
| 17.5° | 5171.2 | 5141.8 | 5029.9 | 4878.0 | 4786.1 | 4701.3 | 4605.9 | 4529.4 | 4476.4 | 4445.8 | 4436.3 |
| 20° | 5333.7 | 5276.0 | 5114.7 | 4931.0 | 4814.4 | 4660.1 | 4476.4 | 4320.9 | 4224.3 | 4179.6 | 4171.4 |
| 22.5° | 5482.1 | 5389.1 | 5193.6 | 4986.3 | 4792.0 | 4521.1 | 4232.6 | 4006.5 | 3872.2 | 3812.2 | 3816.9 |
| 25° | 5627.0 | 5497.4 | 5276.0 | 5025.2 | 4678.9 | 4276.2 | 3893.4 | 3615.5 | 3460.0 | 3392.9 | 3390.5 |
| 27.5° | 5754.2 | 5606.9 | 5365.5 | 4993.4 | 4468.1 | 3927.6 | 3491.8 | 3221.0 | 3091.4 | 3033.7 | 3024.3 |
| 30° | 5900.2 | 5744.7 | 5484.5 | 4872.1 | 4159.6 | 3524.8 | 3099.7 | 2908.9 | 2817.0 | 2759.3 | 2748.7 |
| 32.5° | 6078.0 | 5932.0 | 5582.2 | 4651.8 | 3765.1 | 3104.4 | 2793.5 | 2660.4 | 2576.8 | 2512.0 | 2500.2 |
| 35° | 6337.1 | 6179.3 | 5606.9 | 4336.2 | 3331.7 | 2772.3 | 2568.5 | 2431.9 | 2318.9 | 2235.2 | 2227.0 |
| 37.5° | 6662.1 | 6489.0 | 5550.4 | 3927.6 | 2911.2 | 2556.7 | 2381.3 | 2212.9 | 2065.7 | 1947.9 | 1929.0 |
| 40° | 7130.9 | 6869.4 | 5393.8 | 3456.5 | 2601.5 | 2390.7 | 2198.7 | 2006.8 | 1824.2 | 1686.4 | 1659.4 |
| 42.5° | 7693.8 | 7315.8 | 5153.5 | 2987.8 | 2374.2 | 2222.3 | 2017.4 | 1779.5 | 1605.2 | 1507.4 | 1493.3 |
| 45° | 8409.8 | 7779.8 | 4820.3 | 2577.9 | 2150.4 | 2053.9 | 1821.9 | 1602.8 | 1494.5 | 1422.6 | 1410.9 |
| 47.5° | 9227.1 | 8300.3 | 4470.5 | 2244.7 | 1960.8 | 1896.1 | 1665.2 | 1523.9 | 1438.0 | 1381.4 | 1370.8 |
| 50° | 10231.7 | 8888.0 | 4099.5 | 1971.4 | 1770.1 | 1706.5 | 1591.0 | 1480.3 | 1412.0 | 1368.5 | 1357.9 |
| 52.5° | 11364.6 | 9551.0 | 3832.2 | 1755.9 | 1612.2 | 1566.3 | 1552.2 | 1456.8 | 1401.4 | 1368.5 | 1357.9 |
| 55° | 12584.7 | 10225.8 | 3543.6 | 1574.6 | 1475.6 | 1488.6 | 1526.3 | 1459.1 | 1421.5 | 1381.4 | 1366.1 |
| 57.5° | 13806.0 | 10923.0 | 3222.1 | 1421.5 | 1367.3 | 1430.9 | 1508.6 | 1463.9 | 1432.1 | 1393.2 | 1379.1 |
| 60° | 14771.7 | 11364.6 | 2724.0 | 1293.1 | 1281.3 | 1367.3 | 1466.2 | 1428.5 | 1387.3 | 1388.5 | 1386.1 |
| 62.5° | 15222.7 | 11341.1 | 2174.0 | 1178.9 | 1195.3 | 1281.3 | 1397.9 | 1373.2 | 1339.0 | 1385.0 | 1388.5 |
| 65° | 14969.5 | 10775.8 | 1692.3 | 1075.2 | 1103.5 | 1191.8 | 1327.2 | 1346.1 | 1357.9 | 1446.2 | 1458.0 |
| 67.5° | 13907.3 | 9675.8 | 1310.8 | 984.5 | 1019.9 | 1130.6 | 1334.3 | 1466.2 | 1481.5 | 1574.6 | 1573.4 |
| 69° | 12808.5 | 8644.2 | 1138.8 | 937.4 | 978.7 | 1145.9 | 1426.2 | 1542.8 | 1485.1 | 1584.0 | 1569.9 |
| 70° | 11887.5 | 7828.1 | 1047.0 | 905.6 | 959.8 | 1173.0 | 1487.4 | 1541.6 | 1467.4 | 1552.2 | 1528.6 |
| 72.5° | 9155.3 | 5631.7 | 888.0 | 846.8 | 896.2 | 1122.3 | 1505.1 | 1507.4 | 1426.2 | 1442.7 | 1402.6 |
| 75° | 6279.4 | 3559.0 | 774.9 | 766.7 | 799.6 | 1011.6 | 1448.5 | 1440.3 | 1319.0 | 1295.5 | 1262.5 |
| 77.5° | 3462.4 | 1807.7 | 658.3 | 690.1 | 712.5 | 896.2 | 1316.6 | 1304.9 | 1204.8 | 1155.3 | 1143.5 |
| 80° | 1335.5 | 791.4 | 555.9 | 613.6 | 627.7 | 776.1 | 1154.1 | 1143.5 | 1059.9 | 996.3 | 978.7 |
| 82.5° | 504.0 | 414.5 | 459.3 | 531.1 | 526.4 | 640.7 | 977.5 | 971.6 | 890.3 | 797.3 | 769.0 |
| 85° | 233.2 | 248.5 | 363.9 | 438.1 | 403.9 | 474.6 | 782.0 | 792.6 | 693.7 | 583.0 | 583.0 |
| 87.5° | 98.9 | 139.0 | 257.9 | 330.9 | 272.0 | 320.3 | 573.5 | 547.6 | 502.9 | 348.6 | 327.4 |
| 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)