

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: P510689

Luminaire Tested: **CST-CA6-230-760-U-T3**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA6-230-760-U-T3
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (6) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34413 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

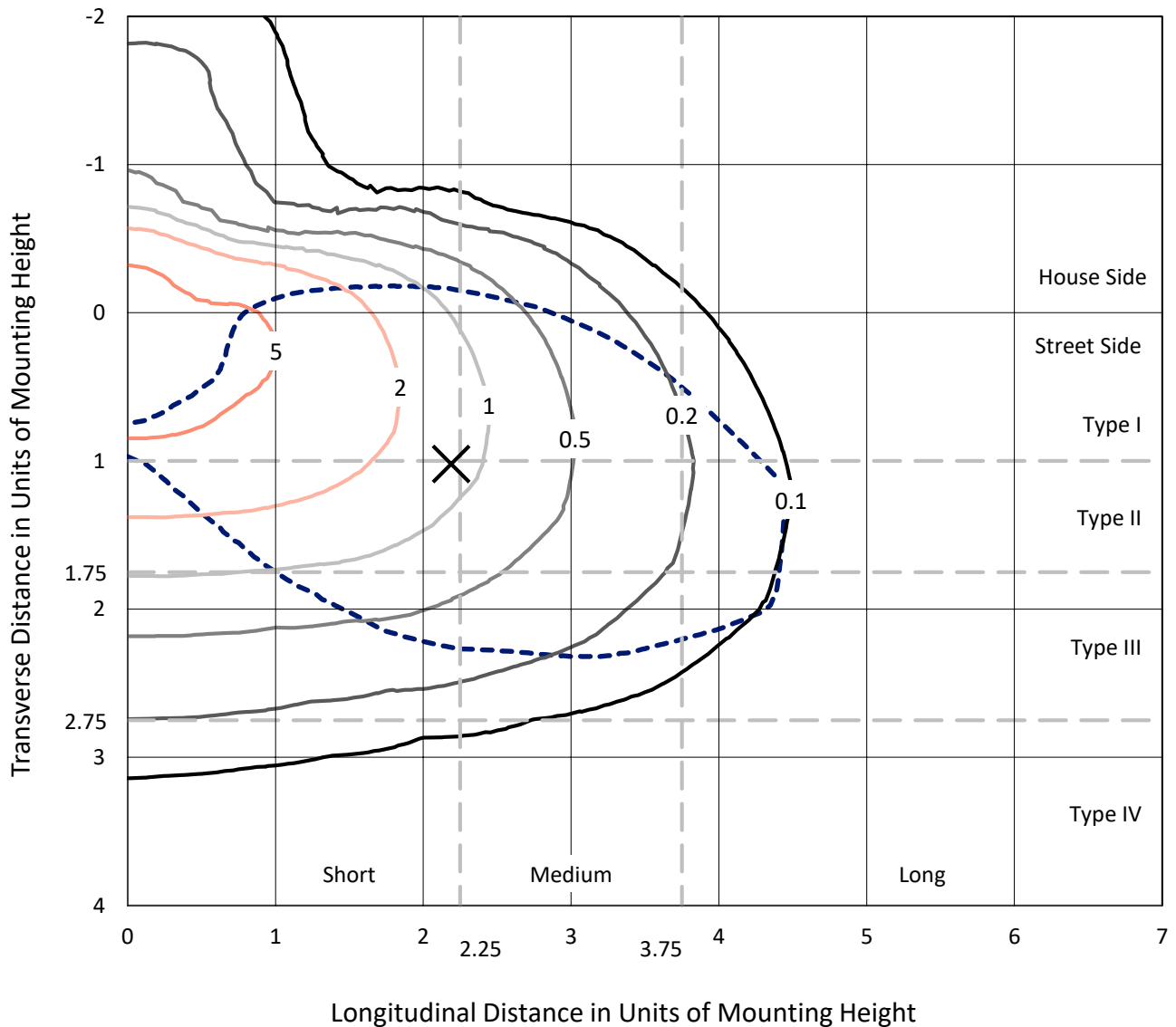
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

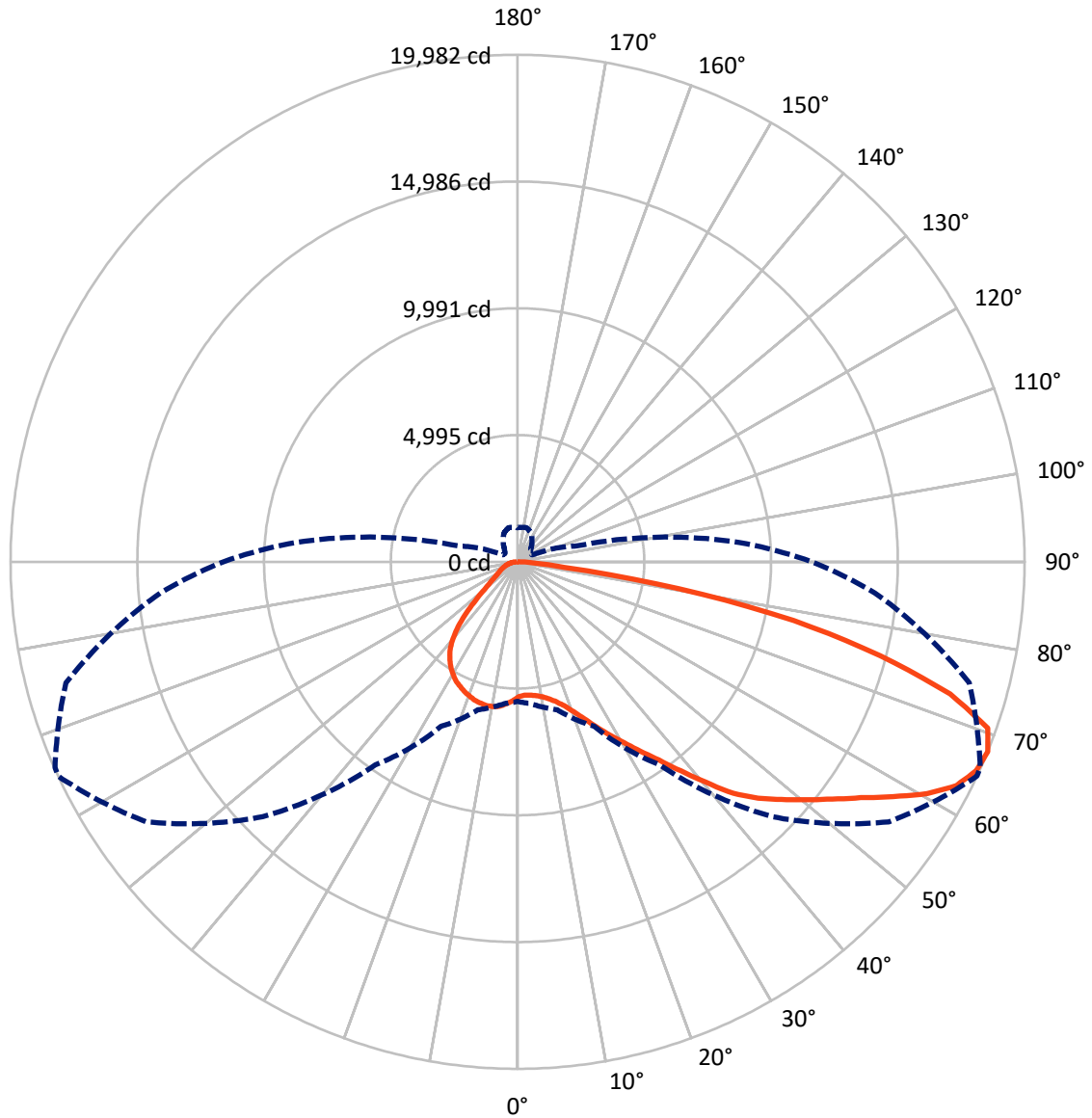
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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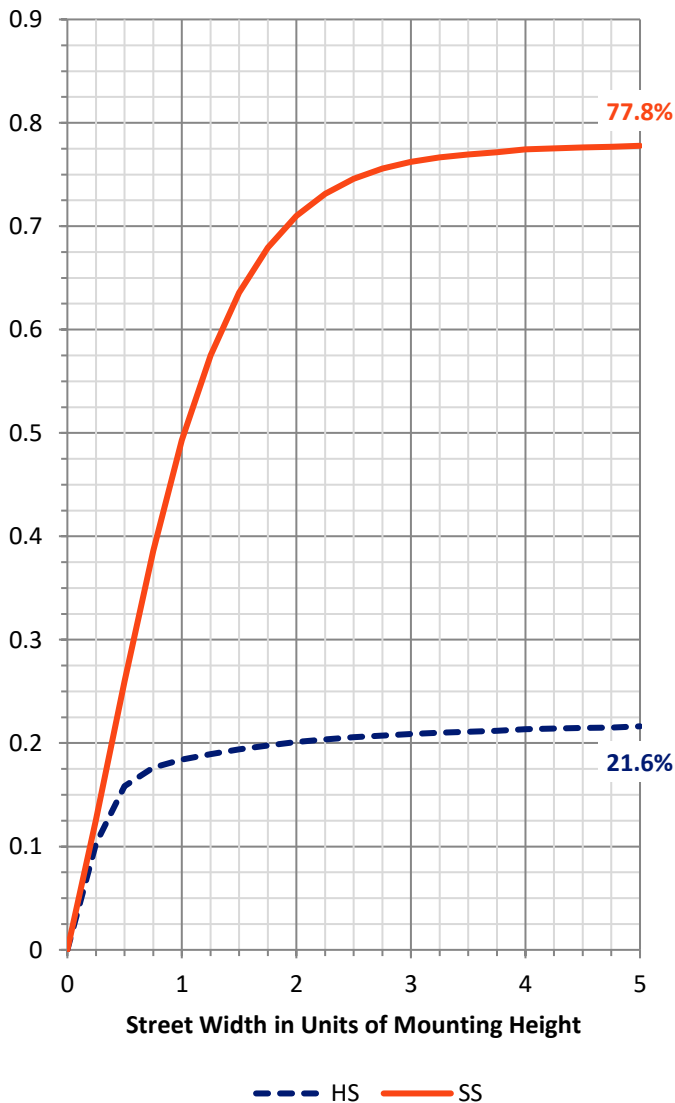
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7601.4 | 0.0 | 7601.4 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 26811.6 | 0.0 | 26811.6 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 34413.0 | 0.0 | 34413.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 529.6 | 1.5 |
| 10°-20° | 1654.7 | 4.8 |
| 20°-30° | 2864.5 | 8.3 |
| 30°-40° | 4209.0 | 12.2 |
| 40°-50° | 5689.0 | 16.5 |
| 50°-60° | 6995.8 | 20.3 |
| 60°-70° | 7496.4 | 21.8 |
| 70°-80° | 4421.3 | 12.8 |
| 80°-90° | 552.7 | 1.6 |
| 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° | 34413.0 | 100.0 |
| 0°-180° | 34413.0 | 100.0 |



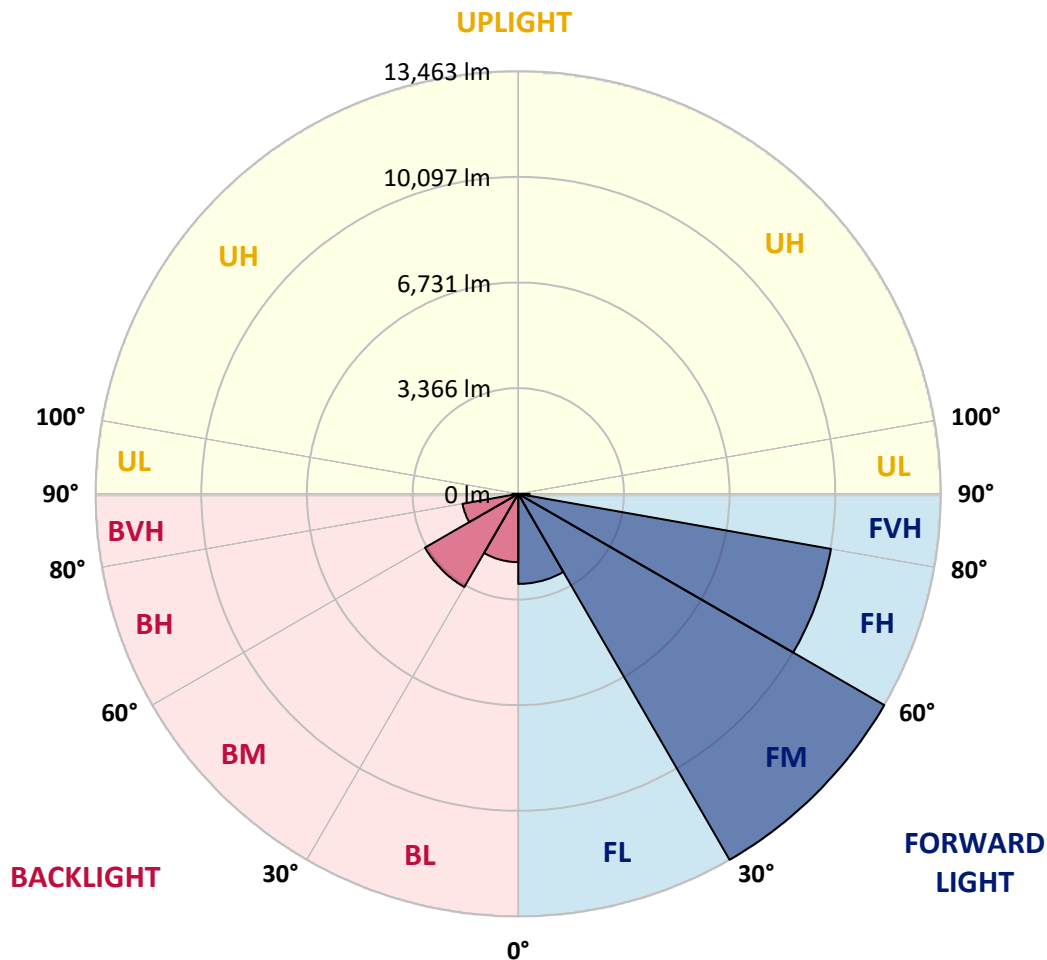
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2871.5 | 8.3 | | | |
| FM (30°-60°) | 13462.6 | 39.1 | | | |
| FH (60°-80°) | 10115.1 | 29.4 | | | G4/12000 |
| FVH (80°-90°) | 362.4 | 1.1 | | | G3/500 |
| BL (0°-30°) | 2177.2 | 6.3 | B3/2500 | | |
| BM (30°-60°) | 3431.2 | 10.0 | B3/5000 | | |
| BH (60°-80°) | 1802.7 | 5.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 190.3 | 0.6 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 |
| 2.5° | 5215.2 | 5205.3 | 5201.1 | 5214.5 | 5224.3 | 5235.5 | 5251.7 | 5267.1 | 5269.2 | 5289.5 | 5316.2 |
| 5° | 5278.3 | 5269.9 | 5260.8 | 5258.7 | 5255.2 | 5254.5 | 5258.7 | 5276.2 | 5280.4 | 5300.1 | 5357.6 |
| 7.5° | 5418.6 | 5410.2 | 5393.4 | 5387.1 | 5368.1 | 5334.4 | 5318.3 | 5327.4 | 5329.5 | 5353.4 | 5425.0 |
| 10° | 5647.4 | 5621.4 | 5601.1 | 5580.0 | 5520.4 | 5467.1 | 5427.8 | 5410.9 | 5407.4 | 5430.6 | 5513.4 |
| 12.5° | 5920.3 | 5898.6 | 5876.1 | 5820.7 | 5744.9 | 5648.8 | 5579.3 | 5540.7 | 5537.9 | 5557.6 | 5620.0 |
| 15° | 6208.7 | 6208.7 | 6193.2 | 6127.3 | 6052.9 | 5893.6 | 5786.3 | 5721.7 | 5726.0 | 5741.4 | 5770.2 |
| 17.5° | 6581.2 | 6550.4 | 6543.3 | 6468.3 | 6385.5 | 6240.2 | 6069.7 | 5966.6 | 5971.5 | 5978.5 | 5956.8 |
| 20° | 6960.1 | 6951.0 | 6940.5 | 6890.6 | 6815.6 | 6628.9 | 6437.4 | 6302.0 | 6302.7 | 6277.4 | 6180.6 |
| 22.5° | 7461.1 | 7430.9 | 7438.6 | 7382.5 | 7280.8 | 7089.2 | 6868.9 | 6708.2 | 6718.8 | 6682.3 | 6506.9 |
| 25° | 7958.5 | 7928.4 | 7912.2 | 7874.3 | 7786.6 | 7604.9 | 7343.2 | 7195.9 | 7183.2 | 7117.3 | 6862.6 |
| 27.5° | 8455.3 | 8437.7 | 8451.1 | 8405.5 | 8333.9 | 8131.1 | 7891.2 | 7727.7 | 7736.1 | 7690.5 | 7310.9 |
| 30° | 8969.6 | 8949.9 | 9008.2 | 8934.5 | 8890.3 | 8693.1 | 8463.0 | 8270.7 | 8277.8 | 8294.6 | 7868.7 |
| 32.5° | 9357.6 | 9380.7 | 9482.4 | 9474.0 | 9465.6 | 9246.0 | 9003.9 | 8897.3 | 8907.8 | 8966.8 | 8531.0 |
| 35° | 9732.2 | 9734.3 | 9877.5 | 9985.5 | 10031.1 | 9847.3 | 9596.1 | 9592.6 | 9661.4 | 9841.0 | 9454.4 |
| 37.5° | 10043.0 | 10036.0 | 10226.9 | 10394.6 | 10519.4 | 10377.0 | 10238.8 | 10454.2 | 10516.6 | 10889.2 | 10384.0 |
| 40° | 10212.8 | 10227.6 | 10473.1 | 10682.2 | 10927.8 | 10860.4 | 10875.2 | 11425.9 | 11579.6 | 11905.9 | 11079.3 |
| 42.5° | 10093.6 | 10138.5 | 10520.9 | 10947.4 | 11317.9 | 11407.7 | 11703.8 | 12475.6 | 12540.8 | 12599.8 | 11763.4 |
| 45° | 9893.6 | 9940.6 | 10364.4 | 11053.4 | 11639.9 | 12019.5 | 12528.2 | 13283.1 | 13354.7 | 13288.8 | 12332.4 |
| 47.5° | 9685.2 | 9733.6 | 10205.8 | 11010.6 | 11906.6 | 12634.1 | 13261.4 | 13997.4 | 14088.6 | 13884.4 | 12879.7 |
| 50° | 9420.7 | 9495.8 | 10012.2 | 10920.1 | 12122.7 | 13297.2 | 13955.3 | 14732.7 | 14774.8 | 14480.1 | 13294.4 |
| 52.5° | 9095.2 | 9177.9 | 9736.4 | 10765.0 | 12291.8 | 13760.3 | 14657.6 | 15530.4 | 15526.2 | 15176.1 | 13768.7 |
| 55° | 8752.8 | 8827.8 | 9403.2 | 10520.9 | 12386.5 | 14116.7 | 15218.9 | 16409.6 | 16460.1 | 16166.8 | 14198.1 |
| 57.5° | 8314.2 | 8382.3 | 9009.6 | 10192.5 | 12288.2 | 14419.1 | 16128.2 | 17454.3 | 17479.6 | 16856.5 | 14539.8 |
| 60° | 7733.3 | 7833.6 | 8463.7 | 9775.0 | 12006.2 | 14769.2 | 17130.2 | 18553.0 | 18583.9 | 17535.0 | 14759.4 |
| 62.5° | 7095.5 | 7135.5 | 7777.5 | 9132.3 | 11595.7 | 15039.3 | 17824.8 | 19412.5 | 19367.6 | 18065.4 | 14825.3 |
| 65° | 6318.1 | 6349.7 | 6905.4 | 8305.8 | 10833.1 | 14891.3 | 18073.8 | 19854.6 | 19799.1 | 18398.7 | 14622.5 |
| 67.5° | 5504.2 | 5601.8 | 6038.2 | 7159.4 | 9768.7 | 14207.9 | 17863.3 | 19981.6 | 19953.5 | 18423.9 | 14138.4 |
| 70° | 4447.6 | 4482.0 | 4876.3 | 5832.6 | 8150.8 | 12839.7 | 17161.7 | 19656.0 | 19634.2 | 17859.8 | 13149.8 |
| 72.5° | 3136.3 | 3102.6 | 3294.1 | 4044.2 | 5887.3 | 10213.5 | 14652.7 | 17826.9 | 17863.3 | 15976.7 | 11451.2 |
| 75° | 1665.0 | 1729.5 | 2027.7 | 2476.0 | 3337.6 | 6565.8 | 11682.0 | 14753.8 | 14741.1 | 13359.6 | 9051.7 |
| 77.5° | 886.9 | 885.4 | 1090.3 | 1281.9 | 1634.1 | 3017.0 | 7705.2 | 11126.4 | 11188.1 | 10351.1 | 6215.0 |
| 80° | 425.9 | 442.0 | 454.7 | 521.3 | 814.6 | 1394.1 | 3223.3 | 6452.1 | 6873.1 | 6173.6 | 2952.4 |
| 82.5° | 341.0 | 342.4 | 343.8 | 329.1 | 336.8 | 567.6 | 1241.9 | 1867.0 | 1934.4 | 1554.8 | 952.1 |
| 85° | 252.6 | 237.1 | 235.0 | 199.3 | 225.2 | 341.0 | 626.6 | 797.0 | 757.8 | 737.4 | 537.4 |
| 87.5° | 101.7 | 95.4 | 92.6 | 87.0 | 87.0 | 128.4 | 221.0 | 288.4 | 287.7 | 262.4 | 180.3 |
| 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° | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 | 5315.5 |
| 2.5° | 5337.3 | 5362.5 | 5421.4 | 5472.0 | 5490.9 | 5537.2 | 5580.7 | 5606.0 | 5623.5 | 5634.0 | 5681.8 |
| 5° | 5392.7 | 5443.2 | 5537.2 | 5608.1 | 5676.8 | 5762.4 | 5817.9 | 5852.9 | 5872.6 | 5883.8 | 5918.2 |
| 7.5° | 5477.6 | 5528.8 | 5628.4 | 5737.2 | 5800.3 | 5870.5 | 5906.3 | 5931.5 | 5944.2 | 5940.7 | 5968.0 |
| 10° | 5553.4 | 5603.9 | 5703.5 | 5787.0 | 5822.8 | 5862.8 | 5881.7 | 5887.3 | 5888.0 | 5890.8 | 5918.2 |
| 12.5° | 5656.5 | 5687.4 | 5740.7 | 5795.4 | 5787.7 | 5789.1 | 5805.2 | 5798.2 | 5782.1 | 5779.3 | 5797.5 |
| 15° | 5767.3 | 5768.1 | 5772.3 | 5760.3 | 5711.9 | 5690.9 | 5668.4 | 5649.5 | 5605.3 | 5602.5 | 5631.2 |
| 17.5° | 5906.3 | 5873.3 | 5796.8 | 5715.4 | 5600.4 | 5521.1 | 5441.1 | 5408.1 | 5354.1 | 5343.6 | 5357.6 |
| 20° | 6085.2 | 6016.4 | 5830.5 | 5628.4 | 5413.0 | 5271.3 | 5174.5 | 5077.0 | 5001.9 | 4983.6 | 4997.0 |
| 22.5° | 6342.0 | 6206.6 | 5873.3 | 5535.8 | 5202.5 | 4960.5 | 4772.4 | 4655.3 | 4529.0 | 4464.4 | 4470.7 |
| 25° | 6652.1 | 6440.2 | 5947.7 | 5418.6 | 4954.9 | 4605.5 | 4300.3 | 4065.2 | 3922.8 | 3828.1 | 3853.3 |
| 27.5° | 7058.3 | 6767.2 | 6036.8 | 5302.9 | 4646.9 | 4151.5 | 3708.8 | 3390.2 | 3245.0 | 3200.1 | 3170.6 |
| 30° | 7529.1 | 7162.2 | 6130.8 | 5131.7 | 4314.3 | 3589.5 | 3022.6 | 2757.4 | 2591.1 | 2564.4 | 2542.0 |
| 32.5° | 8159.2 | 7659.6 | 6306.9 | 4945.7 | 3917.2 | 3027.5 | 2412.2 | 2107.0 | 2069.1 | 2047.3 | 2042.4 |
| 35° | 8971.7 | 8311.4 | 6491.4 | 4704.4 | 3399.4 | 2368.7 | 1824.9 | 1660.0 | 1641.8 | 1665.7 | 1667.8 |
| 37.5° | 9834.0 | 9018.7 | 6712.4 | 4432.2 | 2803.7 | 1767.4 | 1396.2 | 1281.9 | 1302.2 | 1376.6 | 1393.4 |
| 40° | 10417.7 | 9484.6 | 6913.1 | 4062.4 | 2067.7 | 1284.0 | 1016.0 | 991.4 | 1103.7 | 1199.1 | 1218.7 |
| 42.5° | 10977.6 | 9837.5 | 6994.5 | 3573.4 | 1474.8 | 914.2 | 820.2 | 904.4 | 1061.6 | 1166.1 | 1180.1 |
| 45° | 11455.4 | 10247.9 | 6789.6 | 2986.8 | 999.8 | 764.1 | 785.8 | 902.3 | 1077.0 | 1192.8 | 1203.3 |
| 47.5° | 11910.1 | 10583.3 | 6509.7 | 2353.2 | 788.6 | 735.3 | 785.1 | 921.2 | 1111.4 | 1220.8 | 1227.1 |
| 50° | 12344.4 | 10838.7 | 6031.9 | 1790.5 | 738.8 | 722.0 | 791.4 | 950.7 | 1130.3 | 1199.1 | 1196.3 |
| 52.5° | 12666.4 | 10970.6 | 5523.2 | 1445.3 | 719.2 | 711.4 | 808.3 | 987.9 | 1133.8 | 1175.2 | 1172.4 |
| 55° | 12902.9 | 10945.3 | 5189.2 | 1183.6 | 703.0 | 707.2 | 835.6 | 1016.0 | 1167.5 | 1229.9 | 1227.8 |
| 57.5° | 12924.6 | 10831.0 | 4809.6 | 999.8 | 683.4 | 706.5 | 865.1 | 1055.2 | 1335.9 | 1451.0 | 1415.9 |
| 60° | 12898.7 | 10641.5 | 4430.8 | 877.7 | 661.6 | 710.7 | 896.0 | 1173.1 | 1578.7 | 1669.2 | 1644.6 |
| 62.5° | 12771.0 | 10288.6 | 3863.1 | 797.0 | 642.7 | 726.2 | 919.1 | 1266.4 | 1566.7 | 1577.3 | 1542.2 |
| 65° | 12376.6 | 9816.4 | 3118.0 | 715.7 | 623.7 | 736.7 | 938.1 | 1291.0 | 1439.0 | 1405.4 | 1387.8 |
| 67.5° | 11596.4 | 8761.9 | 2405.2 | 641.3 | 599.2 | 734.6 | 994.2 | 1255.9 | 1390.6 | 1366.1 | 1343.6 |
| 70° | 10487.9 | 7563.5 | 1669.9 | 564.8 | 557.8 | 721.3 | 980.2 | 1267.8 | 1367.5 | 1329.6 | 1299.4 |
| 72.5° | 8761.9 | 5933.6 | 1062.3 | 502.4 | 496.0 | 689.7 | 945.1 | 1260.1 | 1352.0 | 1335.2 | 1293.8 |
| 75° | 6597.4 | 4141.7 | 675.0 | 434.3 | 441.3 | 632.2 | 889.0 | 1218.7 | 1344.3 | 1291.7 | 1212.4 |
| 77.5° | 4153.6 | 2044.5 | 524.8 | 369.1 | 379.6 | 545.2 | 768.3 | 1064.4 | 1290.3 | 1258.7 | 1157.0 |
| 80° | 1570.9 | 830.0 | 410.5 | 299.6 | 308.7 | 423.8 | 630.1 | 875.6 | 1187.8 | 1239.8 | 1196.3 |
| 82.5° | 723.4 | 519.2 | 308.0 | 240.7 | 244.2 | 308.7 | 470.1 | 648.3 | 1005.4 | 1138.0 | 1246.8 |
| 85° | 422.4 | 340.3 | 205.6 | 160.7 | 167.0 | 182.4 | 264.5 | 395.7 | 651.8 | 867.9 | 971.0 |
| 87.5° | 143.8 | 118.6 | 80.0 | 68.1 | 66.0 | 75.1 | 63.8 | 129.8 | 193.6 | 341.0 | 389.4 |
| 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)