

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: P320044

Luminaire Tested: **GAN-SA0B-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53747 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

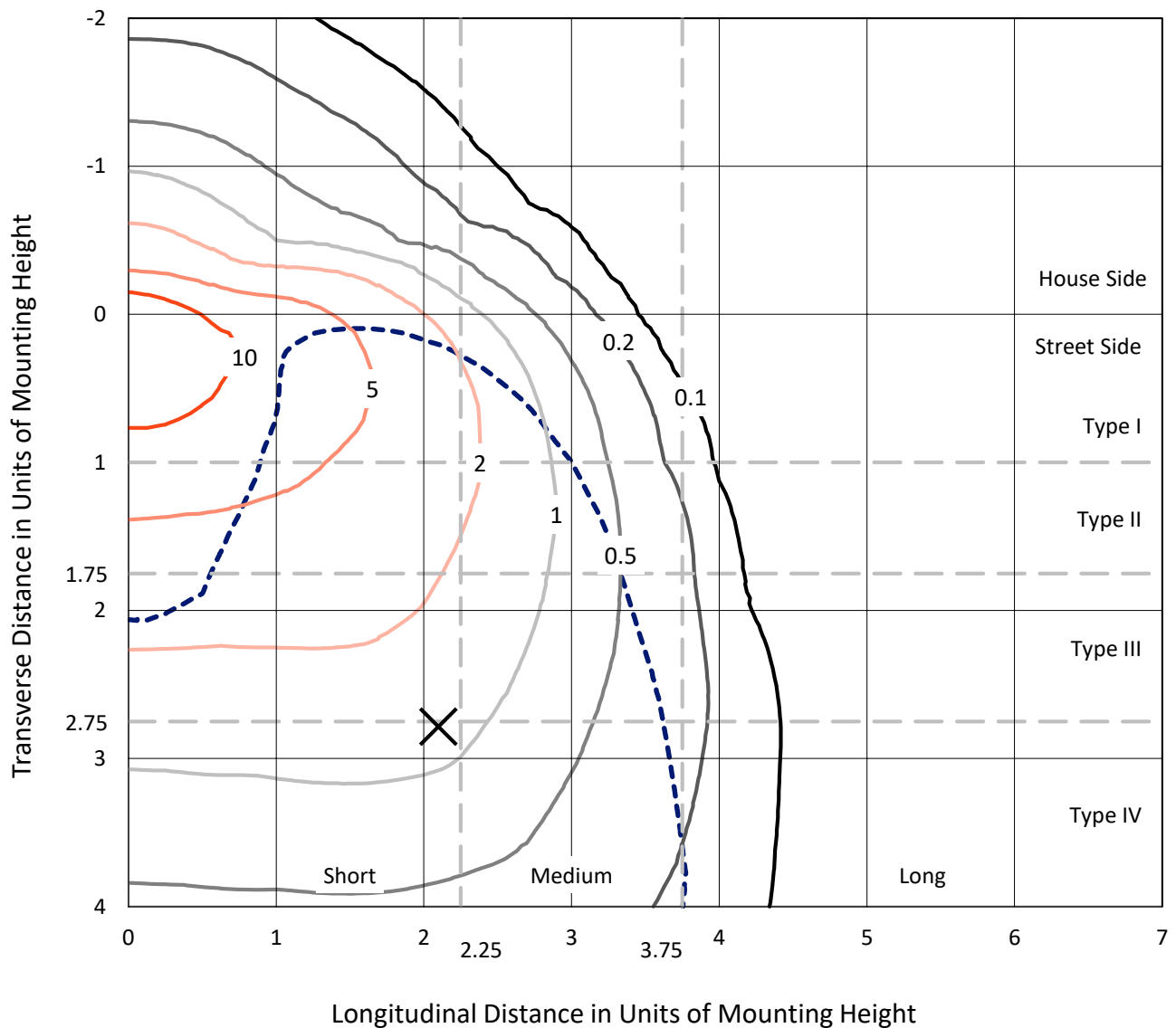
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

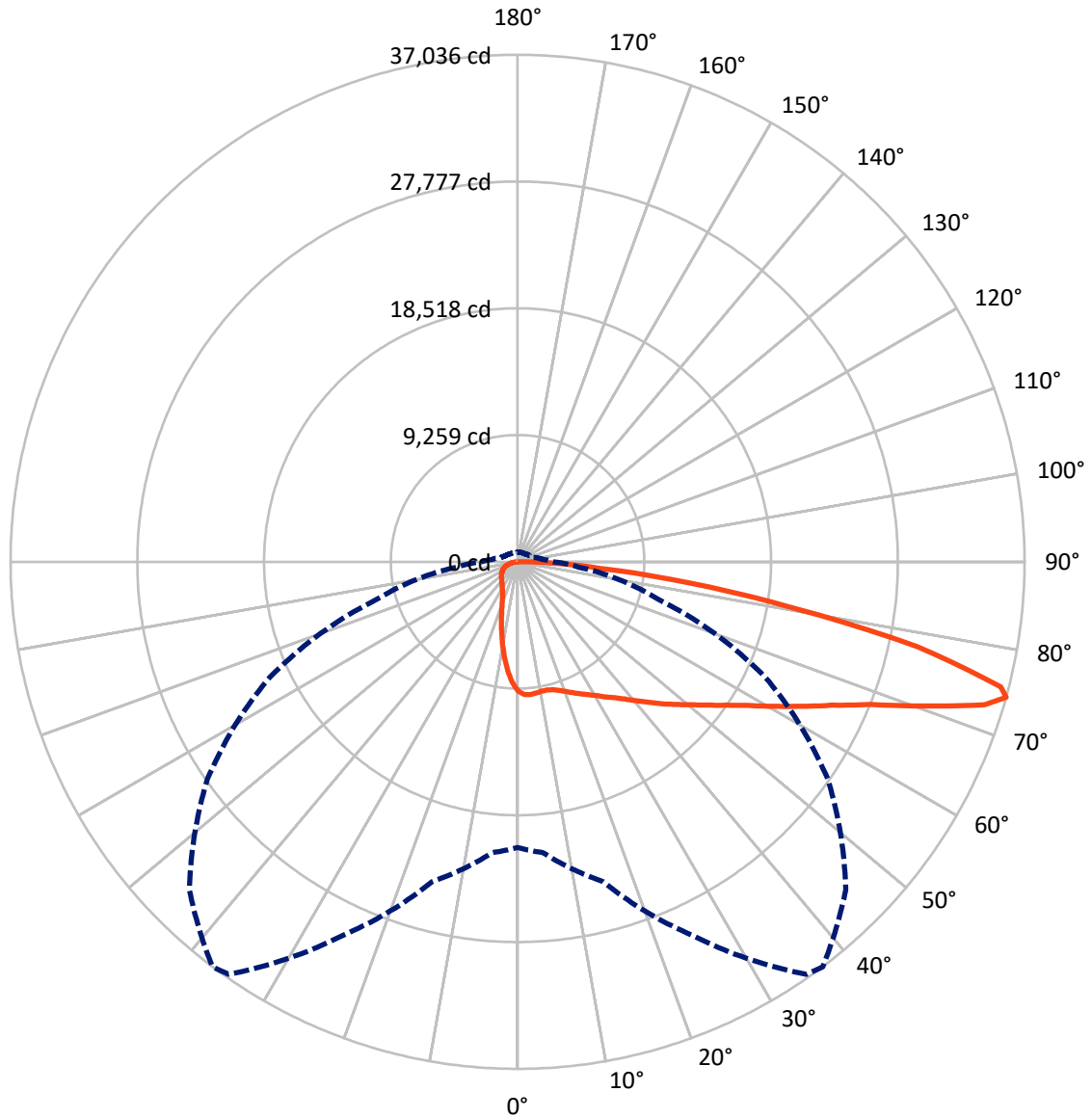
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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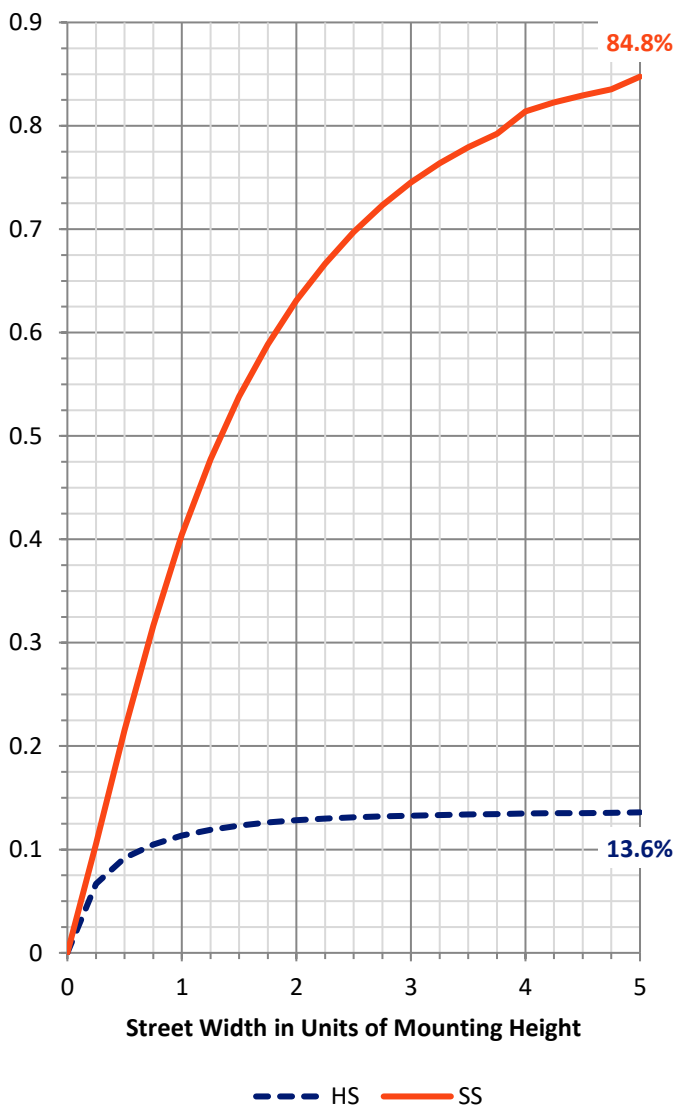
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7395.2 | 0.0 | 7395.2 |
| | % Fixture | 13.8 | 0.0 | 13.8 |
| Street Side | Lumens | 46351.8 | 0.0 | 46351.8 |
| | % Fixture | 86.2 | 0.0 | 86.2 |
| Total | Lumens | 53747.0 | 0.0 | 53747.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 833.9 | 1.6 |
| 10°-20° | 2137.6 | 4.0 |
| 20°-30° | 3293.6 | 6.1 |
| 30°-40° | 4789.4 | 8.9 |
| 40°-50° | 7049.2 | 13.1 |
| 50°-60° | 9899.4 | 18.4 |
| 60°-70° | 12529.6 | 23.3 |
| 70°-80° | 11032.8 | 20.5 |
| 80°-90° | 2181.4 | 4.1 |
| 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° | 53747.0 | 100.0 |
| 0°-180° | 53747.0 | 100.0 |

Coefficient of Utilization



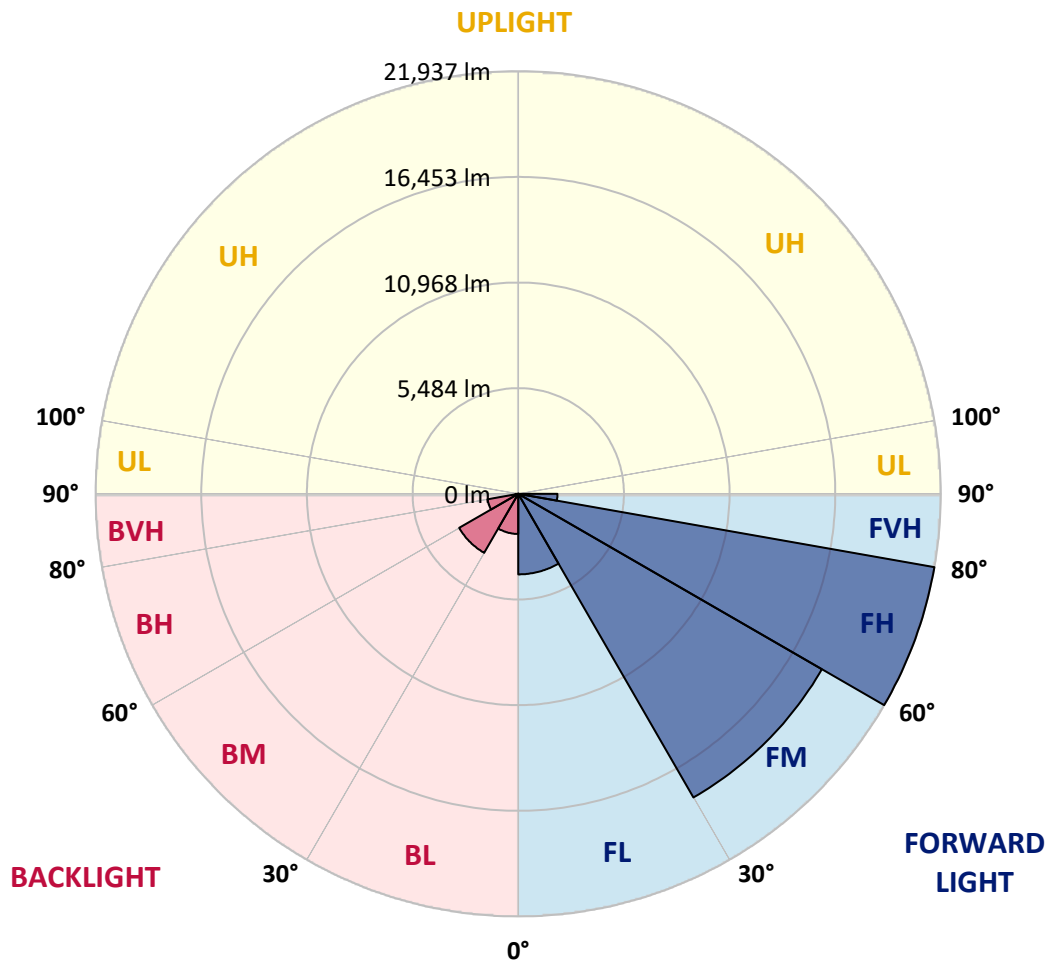
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4182.1 | 7.8 | | | |
| FM (30°-60°) | 18199.2 | 33.9 | | | |
| FH (60°-80°) | 21936.8 | 40.8 | | | G5 |
| FVH (80°-90°) | 2033.7 | 3.8 | | | G5 |
| BL (0°-30°) | 2083.1 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 3538.9 | 6.6 | B3/5000 | | |
| BH (60°-80°) | 1625.5 | 3.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 147.7 | 0.3 | | | 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° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 |
| 2.5° | 9793.8 | 9795.7 | 9793.8 | 9778.6 | 9742.6 | 9712.3 | 9687.7 | 9651.8 | 9572.2 | 9511.7 | 9420.8 |
| 5° | 9886.5 | 9875.2 | 9867.6 | 9839.2 | 9782.4 | 9748.3 | 9701.0 | 9632.8 | 9502.2 | 9381.0 | 9233.4 |
| 7.5° | 9843.0 | 9829.7 | 9812.7 | 9778.6 | 9714.2 | 9685.8 | 9619.6 | 9530.6 | 9373.5 | 9214.4 | 9002.4 |
| 10° | 9708.6 | 9704.8 | 9697.2 | 9689.6 | 9634.7 | 9612.0 | 9551.4 | 9456.8 | 9301.5 | 9108.4 | 8860.4 |
| 12.5° | 9559.0 | 9568.5 | 9598.8 | 9638.5 | 9613.9 | 9602.5 | 9564.7 | 9500.3 | 9341.3 | 9133.0 | 8833.9 |
| 15° | 9464.3 | 9490.8 | 9572.2 | 9676.4 | 9697.2 | 9693.4 | 9683.9 | 9642.3 | 9473.8 | 9242.8 | 8894.5 |
| 17.5° | 9432.1 | 9475.7 | 9630.9 | 9803.2 | 9863.8 | 9877.1 | 9880.8 | 9808.9 | 9621.5 | 9377.2 | 8956.9 |
| 20° | 9490.8 | 9545.7 | 9772.9 | 10009.6 | 10106.1 | 10113.7 | 10096.7 | 9971.7 | 9761.6 | 9492.7 | 8991.0 |
| 22.5° | 9668.8 | 9718.0 | 10002.0 | 10269.0 | 10378.8 | 10390.1 | 10339.0 | 10149.7 | 9909.2 | 9629.0 | 9038.4 |
| 25° | 10011.5 | 10072.1 | 10356.1 | 10623.0 | 10679.8 | 10681.7 | 10607.9 | 10373.1 | 10102.4 | 9820.3 | 9140.6 |
| 27.5° | 10458.3 | 10518.9 | 10774.5 | 11035.7 | 11005.4 | 10988.4 | 10888.1 | 10653.3 | 10354.2 | 10083.4 | 9322.3 |
| 30° | 10956.2 | 11022.5 | 11264.8 | 11450.3 | 11378.4 | 11344.3 | 11262.9 | 10960.0 | 10704.4 | 10443.1 | 9600.6 |
| 32.5° | 11471.2 | 11531.8 | 11743.8 | 11870.6 | 11779.8 | 11764.6 | 11641.6 | 11365.2 | 11160.7 | 10992.2 | 10051.2 |
| 35° | 11999.4 | 12042.9 | 12251.2 | 12323.1 | 12202.0 | 12198.2 | 12164.1 | 11910.4 | 11781.7 | 11861.2 | 10706.3 |
| 37.5° | 12539.0 | 12550.3 | 12728.3 | 12732.1 | 12696.1 | 12711.2 | 12747.2 | 12588.2 | 12624.2 | 12872.2 | 11558.3 |
| 40° | 13019.8 | 13050.1 | 13178.9 | 13218.6 | 13281.1 | 13334.1 | 13514.0 | 13409.9 | 13688.2 | 14127.4 | 12618.5 |
| 42.5° | 13375.8 | 13434.5 | 13640.8 | 13743.1 | 13945.6 | 14028.9 | 14282.6 | 14379.2 | 14939.6 | 15598.4 | 13879.4 |
| 45° | 13676.8 | 13767.7 | 14099.0 | 14309.1 | 14651.8 | 14797.6 | 15161.1 | 15484.9 | 16353.9 | 17194.5 | 15206.5 |
| 47.5° | 14002.4 | 14117.9 | 14532.6 | 14933.9 | 15399.7 | 15564.4 | 16225.1 | 16709.8 | 17862.8 | 18799.9 | 16458.0 |
| 50° | 14481.4 | 14570.4 | 14975.6 | 15606.0 | 16187.2 | 16399.3 | 17313.7 | 18008.5 | 19396.3 | 20329.7 | 17542.8 |
| 52.5° | 15149.7 | 15115.7 | 15458.3 | 16342.5 | 17122.5 | 17383.8 | 18476.2 | 19390.6 | 20950.7 | 21713.6 | 18459.1 |
| 55° | 15821.9 | 15765.1 | 16005.5 | 17113.0 | 18213.0 | 18487.5 | 19756.0 | 20778.4 | 22429.3 | 22959.4 | 19161.5 |
| 57.5° | 16569.7 | 16461.8 | 16664.3 | 17982.0 | 19455.0 | 19782.5 | 21189.2 | 22253.2 | 23883.3 | 23966.6 | 19608.3 |
| 60° | 17340.2 | 17194.5 | 17421.6 | 19059.3 | 21032.1 | 21418.3 | 22866.6 | 23692.1 | 25254.0 | 24773.1 | 19752.2 |
| 62.5° | 18014.2 | 17912.0 | 18262.2 | 20261.5 | 22809.8 | 23233.9 | 24513.7 | 25221.8 | 26605.8 | 25108.2 | 19233.5 |
| 65° | 18603.0 | 18620.1 | 19225.9 | 21613.3 | 24792.0 | 25244.5 | 26403.2 | 27107.5 | 27669.8 | 24909.4 | 18019.9 |
| 67.5° | 19305.4 | 19402.0 | 20435.7 | 23392.9 | 27287.3 | 27783.4 | 29152.2 | 29163.6 | 28264.3 | 23743.2 | 15630.6 |
| 70° | 20329.7 | 20528.5 | 22099.9 | 25861.7 | 30835.3 | 31516.9 | 32573.3 | 30371.4 | 27429.3 | 20581.5 | 12298.5 |
| 72.5° | 21238.4 | 21609.5 | 23870.0 | 28686.5 | 35159.5 | 35676.3 | 34574.4 | 29674.7 | 23940.1 | 15424.3 | 7662.0 |
| 74° | 20869.2 | 21329.3 | 24191.9 | 30078.0 | 36787.6 | 37035.7 | 33898.6 | 27641.4 | 19960.5 | 10681.7 | 4452.9 |
| 75° | 20074.1 | 20573.9 | 23722.4 | 30064.7 | 36581.3 | 36443.1 | 32266.6 | 25318.4 | 16439.0 | 7285.2 | 2962.9 |
| 77.5° | 16200.5 | 16728.7 | 19988.9 | 25767.1 | 29994.7 | 29864.1 | 24786.4 | 16984.3 | 7200.0 | 2389.3 | 1505.1 |
| 80° | 9418.9 | 9822.2 | 12408.3 | 16363.3 | 20225.5 | 20462.2 | 16300.8 | 8404.1 | 2832.3 | 1342.3 | 1020.5 |
| 82.5° | 4184.1 | 4462.4 | 5994.0 | 8353.0 | 12205.8 | 12510.6 | 8536.6 | 4403.7 | 1749.4 | 816.0 | 613.4 |
| 85° | 2745.2 | 2951.6 | 3638.8 | 3977.7 | 5812.3 | 6020.5 | 4178.4 | 3428.7 | 1154.9 | 448.7 | 450.6 |
| 87.5° | 1974.7 | 2173.4 | 2703.6 | 2360.9 | 2667.6 | 2525.6 | 2273.8 | 3173.1 | 463.8 | 255.6 | 151.5 |
| 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° | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 | 9470.0 |
| 2.5° | 9381.0 | 9350.7 | 9282.6 | 9153.8 | 9081.9 | 9021.3 | 8921.0 | 8862.3 | 8835.8 | 8833.9 | 8845.2 |
| 5° | 9148.2 | 9078.1 | 8902.0 | 8686.2 | 8513.9 | 8356.8 | 8161.8 | 8044.4 | 7961.1 | 7911.9 | 7925.1 |
| 7.5° | 8877.4 | 8767.6 | 8491.2 | 8146.6 | 7870.2 | 7565.4 | 7264.4 | 7084.5 | 6944.4 | 6840.3 | 6859.2 |
| 10° | 8691.9 | 8540.4 | 8137.2 | 7641.1 | 7181.1 | 6738.1 | 6323.4 | 6075.4 | 5878.5 | 5727.1 | 5738.4 |
| 12.5° | 8629.4 | 8424.9 | 7866.4 | 7203.8 | 6558.2 | 5952.4 | 5410.9 | 5030.4 | 4827.8 | 4655.5 | 4668.7 |
| 15° | 8638.9 | 8364.4 | 7639.2 | 6810.0 | 5997.8 | 5234.8 | 4577.9 | 4133.0 | 3858.4 | 3739.2 | 3741.1 |
| 17.5° | 8646.5 | 8294.3 | 7400.7 | 6387.8 | 5443.1 | 4564.6 | 3850.9 | 3400.3 | 3140.9 | 3031.1 | 3033.0 |
| 20° | 8621.8 | 8180.7 | 7105.3 | 5903.1 | 4863.7 | 3949.3 | 3258.3 | 2875.8 | 2678.9 | 2593.7 | 2593.7 |
| 22.5° | 8589.7 | 8046.3 | 6772.1 | 5416.6 | 4292.0 | 3415.4 | 2834.2 | 2542.6 | 2429.0 | 2372.2 | 2370.3 |
| 25° | 8604.8 | 7946.0 | 6431.4 | 4916.8 | 3765.7 | 2989.4 | 2552.1 | 2359.0 | 2283.3 | 2247.3 | 2245.4 |
| 27.5° | 8686.2 | 7898.6 | 6117.1 | 4418.8 | 3305.6 | 2669.5 | 2362.8 | 2226.5 | 2177.2 | 2154.5 | 2154.5 |
| 30° | 8833.9 | 7898.6 | 5789.5 | 3994.7 | 2923.2 | 2432.8 | 2217.0 | 2124.2 | 2090.1 | 2075.0 | 2075.0 |
| 32.5° | 9091.4 | 7942.2 | 5473.4 | 3574.4 | 2618.4 | 2247.3 | 2095.8 | 2033.3 | 2006.8 | 1999.3 | 1999.3 |
| 35° | 9534.4 | 8089.8 | 5164.8 | 3176.9 | 2372.2 | 2095.8 | 1980.3 | 1944.4 | 1925.4 | 1923.5 | 1929.2 |
| 37.5° | 10157.3 | 8390.9 | 4875.1 | 2883.4 | 2198.1 | 1972.8 | 1883.8 | 1855.4 | 1844.0 | 1853.5 | 1861.1 |
| 40° | 10941.1 | 8799.8 | 4611.9 | 2618.4 | 2065.5 | 1874.3 | 1794.8 | 1775.9 | 1770.2 | 1783.4 | 1794.8 |
| 42.5° | 11887.7 | 9352.6 | 4396.1 | 2427.1 | 1963.3 | 1791.0 | 1719.1 | 1696.3 | 1690.7 | 1705.8 | 1721.0 |
| 45° | 12911.9 | 9947.1 | 4244.7 | 2285.1 | 1883.8 | 1728.5 | 1652.8 | 1628.2 | 1616.8 | 1624.4 | 1641.4 |
| 47.5° | 13843.4 | 10509.4 | 4184.1 | 2184.8 | 1808.0 | 1675.5 | 1594.1 | 1563.8 | 1544.9 | 1541.1 | 1554.4 |
| 50° | 14629.1 | 10927.8 | 4212.5 | 2124.2 | 1747.5 | 1616.8 | 1537.3 | 1503.2 | 1474.8 | 1457.8 | 1467.3 |
| 52.5° | 15200.9 | 11191.0 | 4239.0 | 2097.7 | 1700.1 | 1552.5 | 1474.8 | 1442.7 | 1404.8 | 1376.4 | 1376.4 |
| 55° | 15615.5 | 11251.6 | 4180.3 | 2076.9 | 1664.2 | 1482.4 | 1404.8 | 1374.5 | 1336.6 | 1304.4 | 1300.7 |
| 57.5° | 15778.3 | 11081.2 | 3962.6 | 2046.6 | 1639.6 | 1416.1 | 1331.0 | 1308.2 | 1276.0 | 1238.2 | 1236.3 |
| 60° | 15558.7 | 10554.8 | 3542.3 | 1982.2 | 1607.4 | 1361.2 | 1257.1 | 1242.0 | 1226.8 | 1190.9 | 1189.0 |
| 62.5° | 14676.4 | 9400.0 | 2998.9 | 1851.6 | 1543.0 | 1302.6 | 1189.0 | 1196.5 | 1198.4 | 1173.8 | 1170.0 |
| 65° | 13076.6 | 7813.4 | 2468.8 | 1681.2 | 1446.4 | 1232.5 | 1118.9 | 1154.9 | 1175.7 | 1171.9 | 1166.2 |
| 67.5° | 10751.7 | 6081.1 | 2092.0 | 1501.3 | 1319.6 | 1135.9 | 1043.2 | 1084.8 | 1101.9 | 1115.1 | 1111.3 |
| 70° | 7980.0 | 4288.2 | 1730.4 | 1312.0 | 1166.2 | 1022.4 | 944.7 | 965.6 | 954.2 | 969.3 | 975.0 |
| 72.5° | 4449.1 | 2572.9 | 1410.5 | 1122.7 | 1007.2 | 889.8 | 834.9 | 831.1 | 806.5 | 806.5 | 806.5 |
| 74° | 2669.5 | 1887.6 | 1240.1 | 1005.3 | 910.7 | 802.7 | 755.4 | 738.4 | 715.6 | 717.5 | 715.6 |
| 75° | 2146.9 | 1622.5 | 1137.8 | 927.7 | 842.5 | 751.6 | 704.3 | 681.6 | 664.5 | 664.5 | 662.6 |
| 77.5° | 1355.6 | 1232.5 | 916.3 | 738.4 | 674.0 | 619.1 | 586.9 | 556.6 | 556.6 | 554.7 | 552.8 |
| 80° | 1024.2 | 980.7 | 713.8 | 558.5 | 516.9 | 475.2 | 454.4 | 441.1 | 441.1 | 446.8 | 444.9 |
| 82.5° | 702.4 | 738.4 | 501.7 | 390.0 | 369.2 | 338.9 | 335.1 | 337.0 | 331.3 | 323.7 | 321.9 |
| 85° | 513.1 | 554.7 | 338.9 | 246.1 | 225.3 | 206.4 | 221.5 | 229.1 | 219.6 | 202.6 | 195.0 |
| 87.5° | 196.9 | 363.5 | 181.8 | 102.2 | 94.7 | 81.4 | 94.7 | 98.4 | 106.0 | 83.3 | 85.2 |
| 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)