

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: P383470

Luminaire Tested: **GAN-SA7D-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52448.9 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

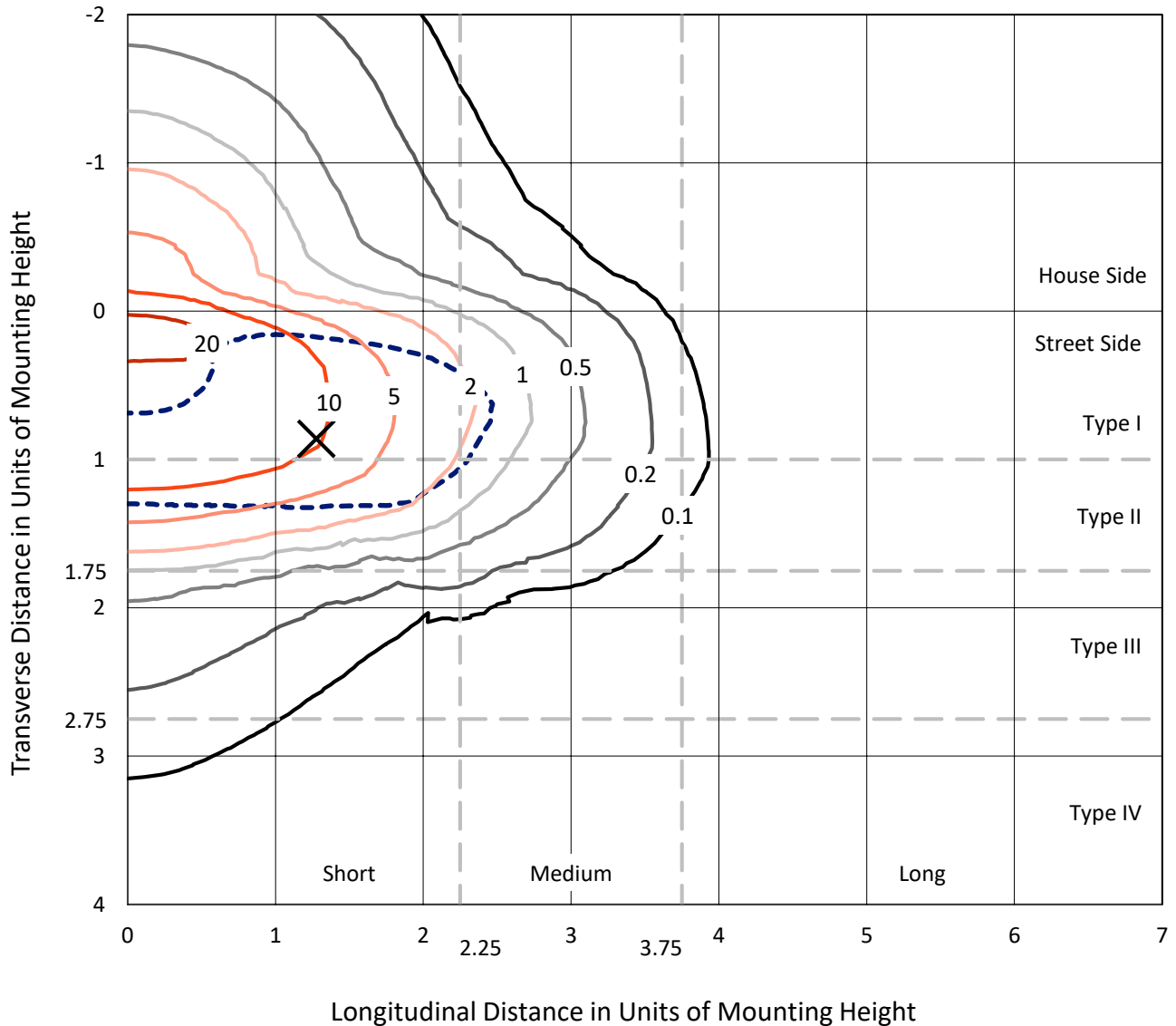
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

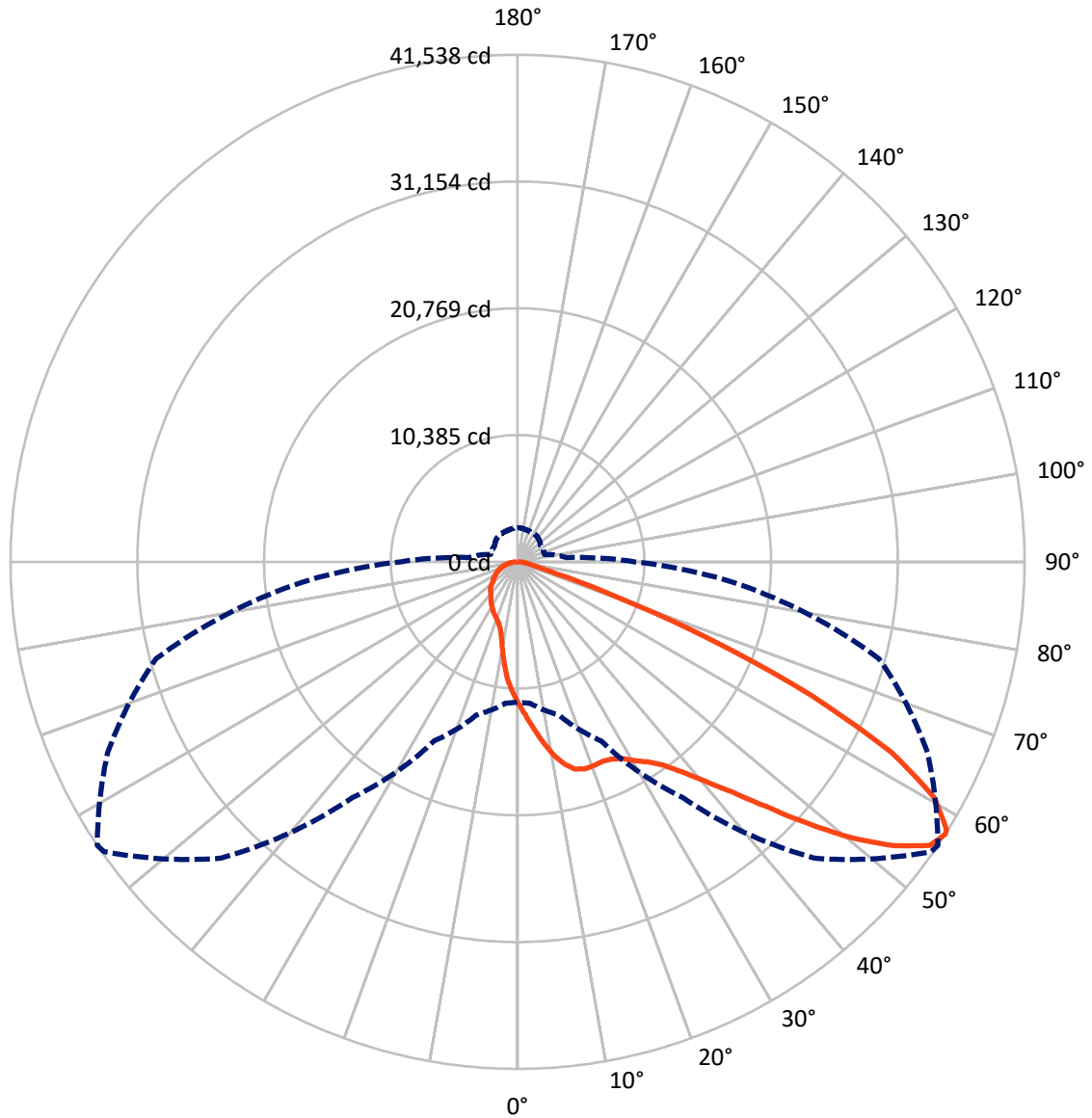
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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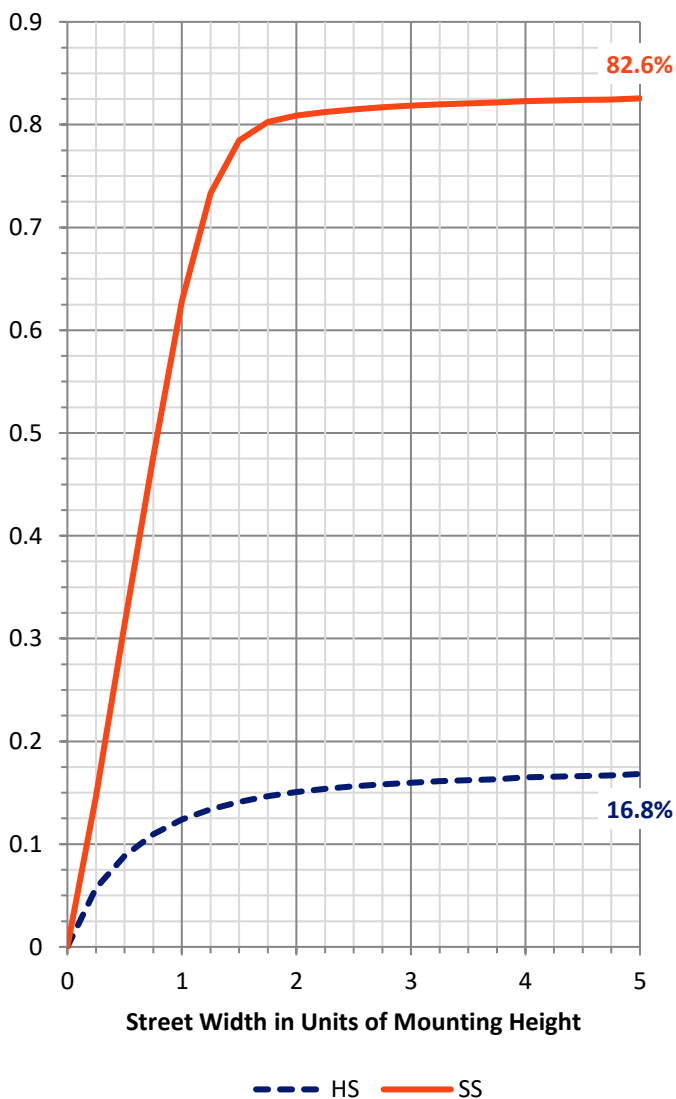
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9041.1 | 0.0 | 9041.1 |
| | % Fixture | 17.2 | 0.0 | 17.2 |
| Street Side | Lumens | 43407.9 | 0.0 | 43407.9 |
| | % Fixture | 82.8 | 0.0 | 82.8 |
| Total | Lumens | 52448.9 | 0.0 | 52448.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1111.3 | 2.1 |
| 10°-20° | 3141.8 | 6.0 |
| 20°-30° | 5117.4 | 9.8 |
| 30°-40° | 7649.9 | 14.6 |
| 40°-50° | 11603.3 | 22.1 |
| 50°-60° | 13005.3 | 24.8 |
| 60°-70° | 7681.4 | 14.6 |
| 70°-80° | 2516.7 | 4.8 |
| 80°-90° | 621.8 | 1.2 |
| 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° | 52448.9 | 100.0 |
| 0°-180° | 52448.9 | 100.0 |

Coefficient of Utilization

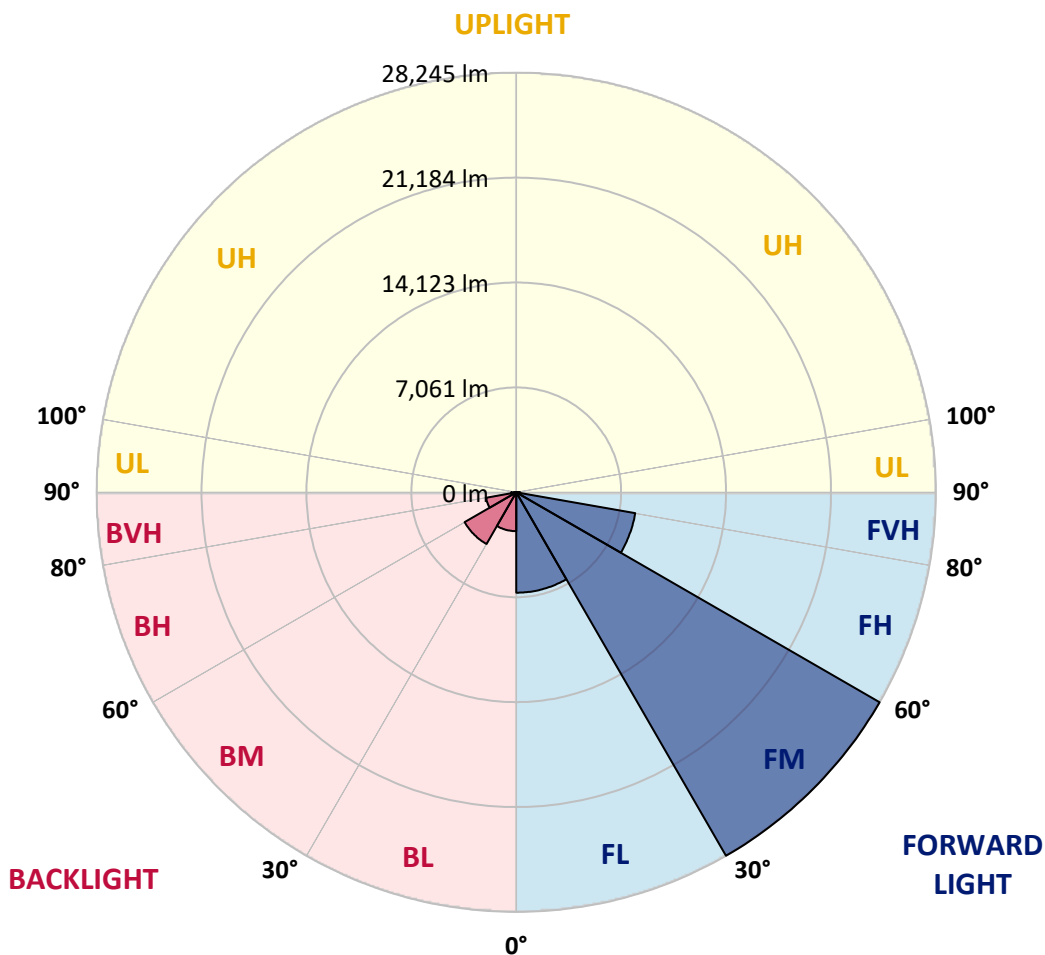


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 6756.2 | 12.9 | | | |
| FM (30°-60°) | 28245.5 | 53.9 | | | |
| FH (60°-80°) | 8132.4 | 15.5 | | | G4/12000 |
| FVH (80°-90°) | 273.8 | 0.5 | | | G3/500 |
| BL (0°-30°) | 2614.3 | 5.0 | B4/5000 | | |
| BM (30°-60°) | 4013.0 | 7.7 | B3/5000 | | |
| BH (60°-80°) | 2065.8 | 3.9 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 348.0 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 |
| 2.5° | 13358.2 | 13480.8 | 13426.7 | 13239.2 | 13095.0 | 12891.3 | 12664.2 | 12595.7 | 12356.0 | 12087.5 | 11764.8 |
| 5° | 15472.5 | 15411.2 | 15322.9 | 15030.9 | 14722.6 | 14364.0 | 13794.4 | 13704.3 | 13170.8 | 12563.3 | 11921.6 |
| 7.5° | 16676.6 | 16671.2 | 16618.9 | 16447.7 | 16166.4 | 15697.8 | 15011.1 | 14904.8 | 14099.0 | 13122.1 | 12127.1 |
| 10° | 16501.7 | 16489.1 | 16575.6 | 16754.1 | 16838.7 | 16741.5 | 16162.8 | 16056.5 | 15066.9 | 13740.3 | 12365.0 |
| 12.5° | 15508.6 | 15515.8 | 15654.6 | 16029.5 | 16539.5 | 17152.4 | 17058.7 | 17006.4 | 16071.0 | 14439.6 | 12653.4 |
| 15° | 14735.3 | 14751.5 | 14861.4 | 15187.7 | 15789.7 | 16901.9 | 17603.1 | 17621.1 | 17042.5 | 15211.1 | 12990.5 |
| 17.5° | 14396.4 | 14430.7 | 14481.2 | 14710.1 | 15261.6 | 16402.6 | 17732.8 | 17830.2 | 17893.3 | 16011.4 | 13314.9 |
| 20° | 14504.6 | 14537.0 | 14551.4 | 14697.4 | 15149.9 | 16099.8 | 17642.7 | 17817.5 | 18545.7 | 16764.9 | 13639.3 |
| 22.5° | 14989.4 | 15009.3 | 15018.3 | 15056.1 | 15407.6 | 16186.3 | 17583.2 | 17767.0 | 19018.0 | 17440.8 | 13884.5 |
| 25° | 15793.4 | 15778.9 | 15721.3 | 15672.5 | 15908.7 | 16528.7 | 17720.2 | 17895.0 | 19401.9 | 18053.7 | 14044.9 |
| 27.5° | 16755.8 | 16737.9 | 16626.1 | 16492.7 | 16627.9 | 17062.3 | 18115.0 | 18253.8 | 19746.2 | 18626.9 | 14126.1 |
| 30° | 17911.2 | 17864.4 | 17653.5 | 17494.9 | 17547.2 | 17862.6 | 18765.7 | 18891.8 | 20277.9 | 19277.5 | 14205.4 |
| 32.5° | 19246.9 | 19196.4 | 18891.8 | 18628.6 | 18628.6 | 18891.8 | 19436.2 | 19540.7 | 20728.5 | 20013.0 | 14333.4 |
| 35° | 20919.6 | 20856.5 | 20460.0 | 20018.4 | 19894.0 | 20027.3 | 20350.0 | 20423.9 | 21539.6 | 20939.4 | 14565.9 |
| 37.5° | 22891.5 | 22806.8 | 22293.1 | 21701.9 | 21429.7 | 21422.5 | 21655.0 | 21806.4 | 22835.7 | 22156.1 | 14960.6 |
| 40° | 24868.9 | 24809.3 | 24360.5 | 23895.5 | 23362.0 | 23190.7 | 23549.4 | 23596.3 | 24530.0 | 23666.6 | 15465.3 |
| 42.5° | 26397.4 | 26386.6 | 26303.6 | 26364.9 | 25818.8 | 25472.7 | 25753.8 | 25791.8 | 26599.2 | 25301.5 | 16002.4 |
| 45° | 27204.8 | 27222.9 | 27624.9 | 28515.2 | 28717.2 | 28464.8 | 28603.5 | 28614.4 | 28964.1 | 26950.7 | 16494.5 |
| 47.5° | 26557.8 | 26651.5 | 27668.1 | 29659.8 | 31312.8 | 32150.9 | 31920.1 | 32053.5 | 31256.9 | 28367.5 | 16880.2 |
| 50° | 24036.1 | 24151.5 | 25881.8 | 29149.7 | 32524.0 | 35718.0 | 35597.2 | 35566.6 | 33106.2 | 29405.7 | 17089.3 |
| 52.5° | 20912.4 | 21002.5 | 22430.1 | 26498.2 | 31635.4 | 37689.9 | 38798.4 | 38639.8 | 34750.1 | 30182.6 | 17129.0 |
| 55° | 16155.6 | 16296.2 | 17664.3 | 21206.2 | 28041.3 | 36936.4 | 41152.5 | 41010.1 | 36247.9 | 30589.9 | 17082.2 |
| 57° | 11485.4 | 11633.3 | 12992.3 | 16184.5 | 23589.1 | 34328.3 | 41386.8 | 41538.2 | 37057.2 | 30658.4 | 17134.4 |
| 57.5° | 10248.9 | 10400.4 | 11746.8 | 14847.0 | 22201.2 | 33385.5 | 41184.9 | 41437.3 | 37203.2 | 30647.6 | 17163.2 |
| 60° | 5160.5 | 5218.2 | 6076.2 | 8287.8 | 14034.1 | 26990.4 | 38551.4 | 39202.2 | 37334.8 | 30117.7 | 17287.6 |
| 62.5° | 3208.4 | 3167.0 | 3140.0 | 3817.7 | 6827.8 | 17898.7 | 33117.0 | 34369.7 | 34816.8 | 28834.3 | 16986.6 |
| 65° | 2820.9 | 2743.4 | 2446.0 | 2391.9 | 3015.5 | 8693.4 | 24939.1 | 26498.2 | 29436.3 | 26811.9 | 16269.2 |
| 67.5° | 2649.7 | 2574.0 | 2238.7 | 2036.8 | 2038.6 | 3446.4 | 15483.3 | 17238.9 | 22931.2 | 23392.7 | 14576.7 |
| 70° | 2473.0 | 2404.5 | 2090.9 | 1852.9 | 1735.8 | 1908.8 | 7123.5 | 8455.5 | 14948.0 | 18387.2 | 12183.0 |
| 72.5° | 2245.9 | 2199.0 | 1901.7 | 1656.5 | 1532.1 | 1429.4 | 2727.2 | 3221.0 | 8653.7 | 12348.8 | 8460.9 |
| 75° | 2008.0 | 1964.7 | 1710.6 | 1476.2 | 1324.8 | 1124.8 | 1535.7 | 1654.7 | 4396.3 | 6317.7 | 4165.5 |
| 77.5° | 1746.6 | 1721.4 | 1521.3 | 1305.0 | 1184.3 | 931.9 | 1086.9 | 1144.6 | 1885.4 | 2709.1 | 2089.1 |
| 80° | 1389.7 | 1438.4 | 1330.2 | 1162.6 | 1050.9 | 746.3 | 769.6 | 807.5 | 1097.7 | 1323.0 | 1186.0 |
| 82.5° | 904.8 | 989.6 | 1041.8 | 944.5 | 865.2 | 587.6 | 553.3 | 569.5 | 715.6 | 807.5 | 515.5 |
| 85° | 376.7 | 423.6 | 685.0 | 618.3 | 575.0 | 429.0 | 371.3 | 378.5 | 443.4 | 459.6 | 210.9 |
| 87.5° | 167.6 | 178.5 | 301.0 | 283.0 | 243.3 | 147.8 | 158.6 | 173.1 | 236.1 | 223.5 | 81.1 |
| 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° | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 | 11633.3 |
| 2.5° | 11644.1 | 11492.6 | 11233.1 | 10946.4 | 10712.1 | 10524.7 | 10335.4 | 10205.7 | 10054.3 | 9973.1 | 9931.7 |
| 5° | 11653.0 | 11355.7 | 10809.5 | 10248.9 | 9747.8 | 9290.0 | 8853.8 | 8518.5 | 8204.9 | 8035.4 | 7988.6 |
| 7.5° | 11690.9 | 11243.9 | 10360.7 | 9437.8 | 8547.4 | 7734.5 | 7107.1 | 6714.2 | 6431.2 | 6305.1 | 6269.0 |
| 10° | 11721.6 | 11112.3 | 9805.5 | 8439.3 | 7228.0 | 6404.2 | 5917.6 | 5697.6 | 5600.3 | 5584.1 | 5567.9 |
| 12.5° | 11793.7 | 10977.1 | 9221.5 | 7397.4 | 6202.3 | 5632.8 | 5463.3 | 5448.9 | 5475.9 | 5515.6 | 5515.6 |
| 15° | 11907.2 | 10843.8 | 8554.6 | 6503.3 | 5549.9 | 5349.8 | 5384.0 | 5463.3 | 5537.2 | 5598.5 | 5607.5 |
| 17.5° | 11990.1 | 10679.7 | 7837.2 | 5787.8 | 5201.9 | 5256.1 | 5378.6 | 5490.4 | 5566.1 | 5625.5 | 5630.9 |
| 20° | 12049.6 | 10425.6 | 7071.1 | 5241.6 | 5001.9 | 5169.5 | 5322.8 | 5421.9 | 5474.1 | 5533.6 | 5542.6 |
| 22.5° | 12018.9 | 10084.8 | 6391.6 | 4850.5 | 4839.7 | 5043.3 | 5189.4 | 5308.3 | 5268.6 | 5211.0 | 5248.8 |
| 25° | 11871.2 | 9616.3 | 5692.2 | 4558.4 | 4668.5 | 4874.0 | 5054.2 | 4974.8 | 4841.4 | 4816.2 | 4830.6 |
| 27.5° | 11608.0 | 9017.8 | 5045.2 | 4288.1 | 4470.1 | 4717.1 | 4706.3 | 4627.0 | 4580.1 | 4547.6 | 4567.5 |
| 30° | 11325.0 | 8368.9 | 4479.2 | 4052.0 | 4250.3 | 4453.9 | 4412.5 | 4410.7 | 4363.8 | 4311.6 | 4336.7 |
| 32.5° | 11045.6 | 7716.4 | 4030.3 | 3857.4 | 4084.5 | 4111.5 | 4201.6 | 4228.7 | 4136.7 | 4026.7 | 4019.5 |
| 35° | 10802.3 | 7100.0 | 3689.7 | 3680.6 | 3884.4 | 3888.0 | 4019.5 | 3981.7 | 3752.7 | 3639.2 | 3639.2 |
| 37.5° | 10620.2 | 6485.3 | 3430.1 | 3522.1 | 3621.2 | 3714.9 | 3781.6 | 3624.7 | 3586.9 | 3523.9 | 3522.1 |
| 40° | 10540.9 | 5944.6 | 3267.9 | 3401.3 | 3435.5 | 3554.5 | 3383.3 | 3444.6 | 3462.6 | 3430.1 | 3430.1 |
| 42.5° | 10458.0 | 5474.1 | 3127.3 | 3309.3 | 3303.9 | 3287.7 | 3201.2 | 3280.5 | 3352.6 | 3354.4 | 3349.0 |
| 45° | 10375.1 | 5068.6 | 3002.9 | 3112.9 | 3188.6 | 3013.7 | 3030.0 | 3114.7 | 3215.6 | 3251.7 | 3251.7 |
| 47.5° | 10283.2 | 4747.7 | 2889.4 | 2905.6 | 3022.8 | 2905.6 | 2893.0 | 2957.8 | 3076.8 | 3134.5 | 3147.1 |
| 50° | 10081.3 | 4459.3 | 2759.6 | 2723.6 | 2756.0 | 2795.7 | 2806.5 | 2837.1 | 2968.7 | 3060.6 | 3082.2 |
| 52.5° | 9801.9 | 4201.6 | 2593.8 | 2555.9 | 2555.9 | 2705.5 | 2756.0 | 2765.0 | 2876.8 | 2986.7 | 3008.3 |
| 55° | 9569.4 | 4037.5 | 2422.5 | 2415.3 | 2408.1 | 2610.0 | 2696.6 | 2710.9 | 2788.4 | 2874.9 | 2885.7 |
| 57° | 9585.6 | 4024.9 | 2291.0 | 2298.1 | 2296.4 | 2512.7 | 2640.7 | 2671.3 | 2710.9 | 2784.9 | 2797.4 |
| 57.5° | 9594.6 | 4034.0 | 2262.1 | 2265.7 | 2263.9 | 2485.6 | 2624.4 | 2658.6 | 2689.3 | 2766.8 | 2779.5 |
| 60° | 9729.8 | 4057.4 | 2145.0 | 2105.3 | 2114.3 | 2341.4 | 2532.5 | 2575.7 | 2595.6 | 2698.3 | 2714.5 |
| 62.5° | 9529.7 | 3952.8 | 2051.3 | 1955.7 | 1955.7 | 2190.0 | 2404.5 | 2473.0 | 2503.6 | 2642.4 | 2669.4 |
| 65° | 8949.3 | 3659.0 | 1941.3 | 1786.2 | 1804.3 | 2038.6 | 2251.3 | 2363.1 | 2409.9 | 2583.0 | 2611.8 |
| 67.5° | 8053.5 | 3318.4 | 1824.2 | 1634.9 | 1652.8 | 1880.0 | 2092.7 | 2213.5 | 2287.3 | 2518.1 | 2541.5 |
| 70° | 6887.3 | 2902.0 | 1665.5 | 1474.5 | 1496.1 | 1707.0 | 1905.2 | 2042.2 | 2152.2 | 2456.8 | 2464.0 |
| 72.5° | 5077.6 | 2379.3 | 1443.8 | 1297.8 | 1321.2 | 1505.1 | 1716.0 | 1874.6 | 2022.4 | 2303.5 | 2300.0 |
| 75° | 3019.1 | 1860.2 | 1198.6 | 1119.3 | 1135.6 | 1306.8 | 1544.7 | 1737.6 | 1959.3 | 2244.1 | 2278.4 |
| 77.5° | 1831.3 | 1400.5 | 976.9 | 937.3 | 957.1 | 1131.9 | 1422.2 | 1627.6 | 1932.2 | 2116.1 | 2105.3 |
| 80° | 1106.7 | 1000.4 | 780.5 | 755.2 | 775.0 | 968.0 | 1315.8 | 1544.7 | 1688.9 | 1807.9 | 1807.9 |
| 82.5° | 578.6 | 611.0 | 573.2 | 553.3 | 580.4 | 785.9 | 1196.9 | 1348.2 | 1492.4 | 1281.5 | 1196.9 |
| 85° | 236.1 | 319.1 | 347.8 | 346.1 | 362.3 | 544.3 | 1032.8 | 1153.6 | 962.6 | 913.8 | 935.5 |
| 87.5° | 79.3 | 135.2 | 169.4 | 146.0 | 153.2 | 342.4 | 715.6 | 557.0 | 661.5 | 461.4 | 438.0 |
| 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)