

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: P319881

Luminaire Tested: **GAN-SA7B-722-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-722-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29716 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

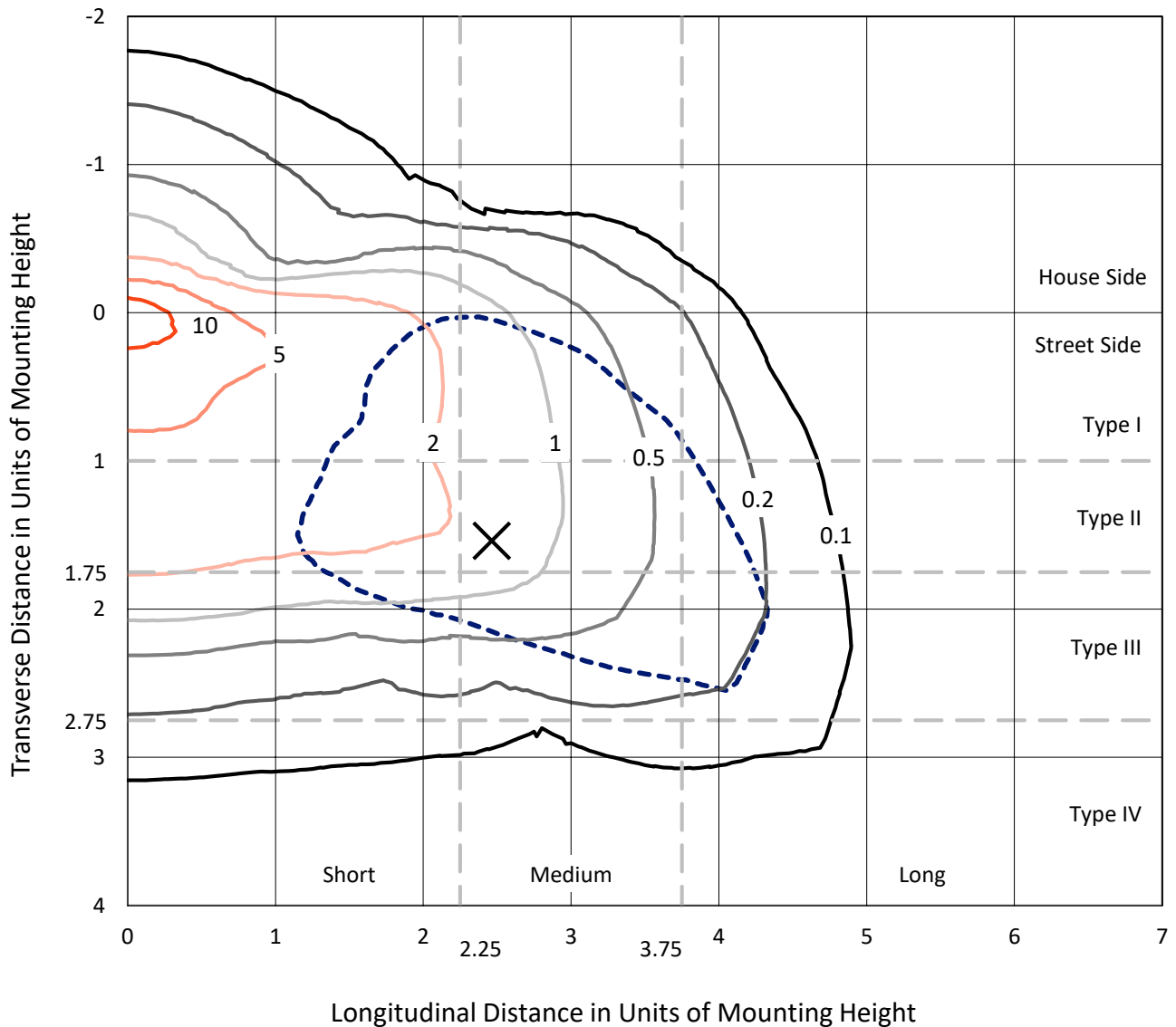
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

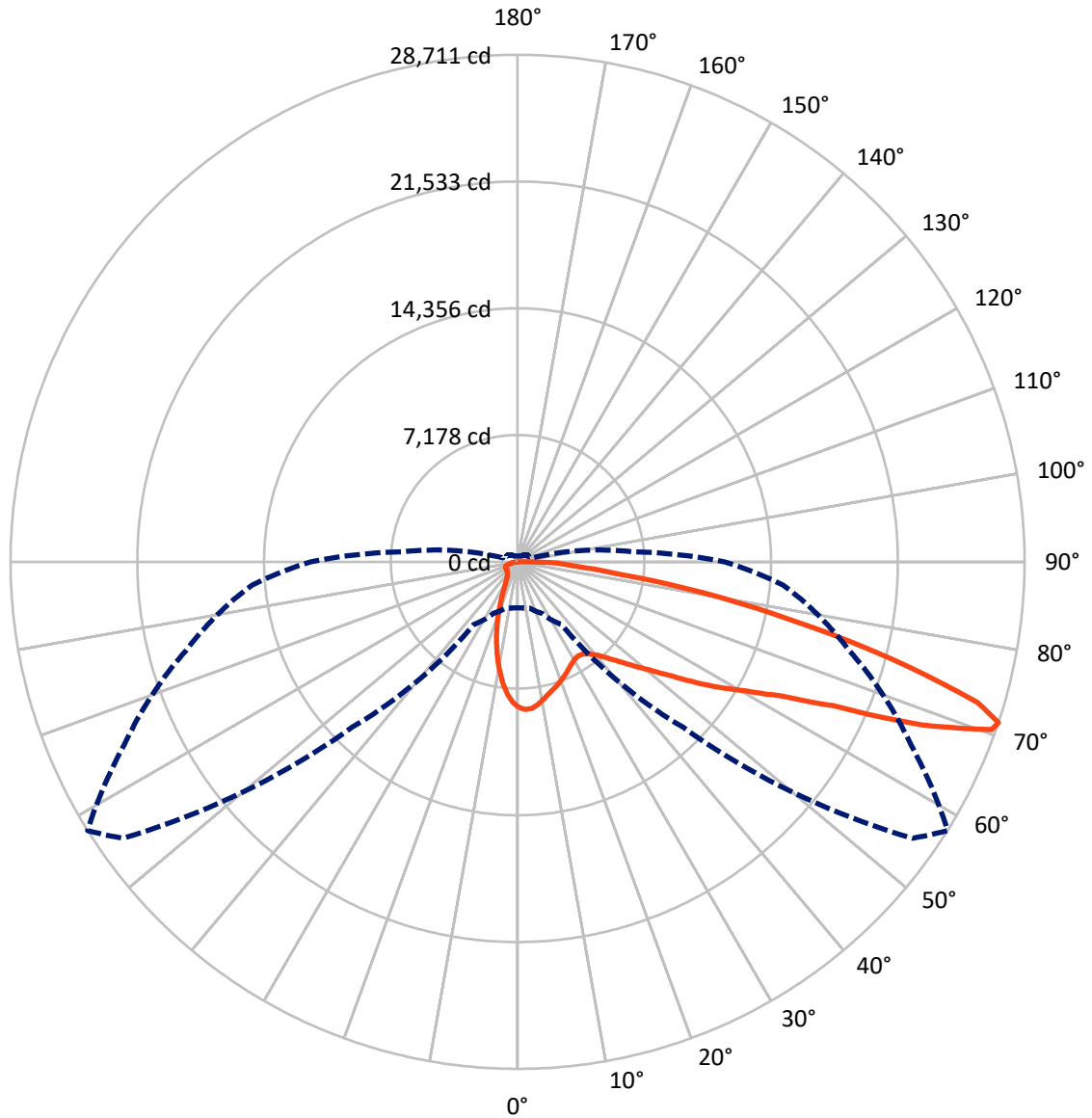
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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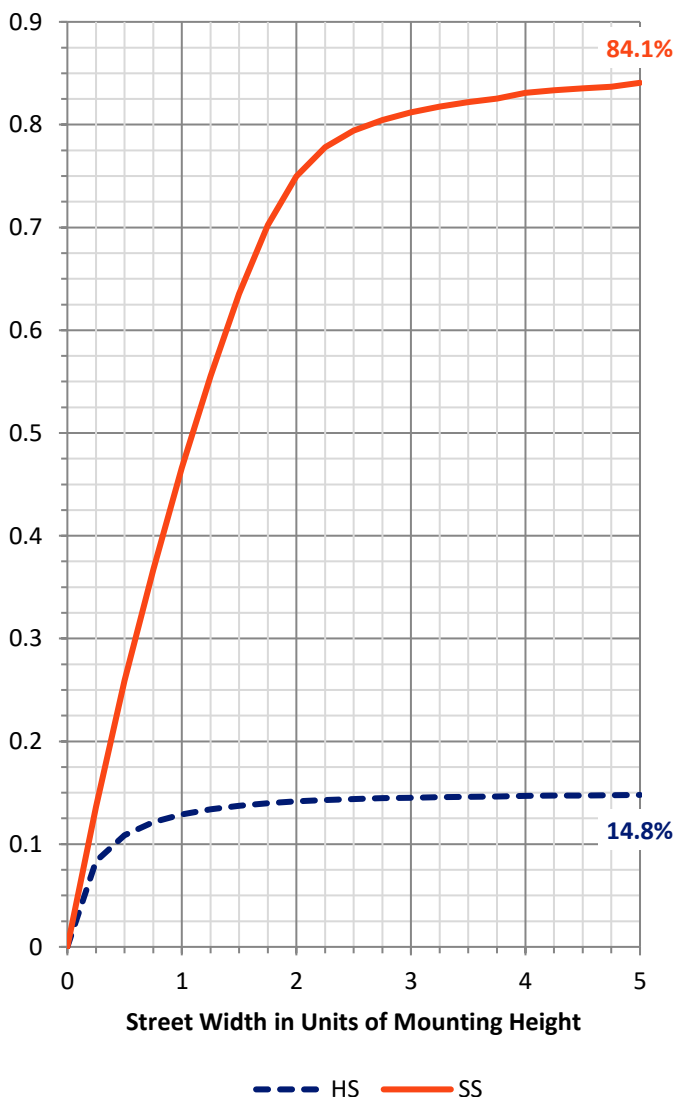
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4442.7 | 0.0 | 4442.7 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 25273.3 | 0.0 | 25273.3 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 29716.0 | 0.0 | 29716.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 710.3 | 2.4 |
| 10°-20° | 1579.4 | 5.3 |
| 20°-30° | 2007.3 | 6.8 |
| 30°-40° | 2556.9 | 8.6 |
| 40°-50° | 3625.8 | 12.2 |
| 50°-60° | 5611.0 | 18.9 |
| 60°-70° | 7638.6 | 25.7 |
| 70°-80° | 5095.9 | 17.1 |
| 80°-90° | 890.9 | 3.0 |
| 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° | 29716.0 | 100.0 |
| 0°-180° | 29716.0 | 100.0 |

Coefficient of Utilization

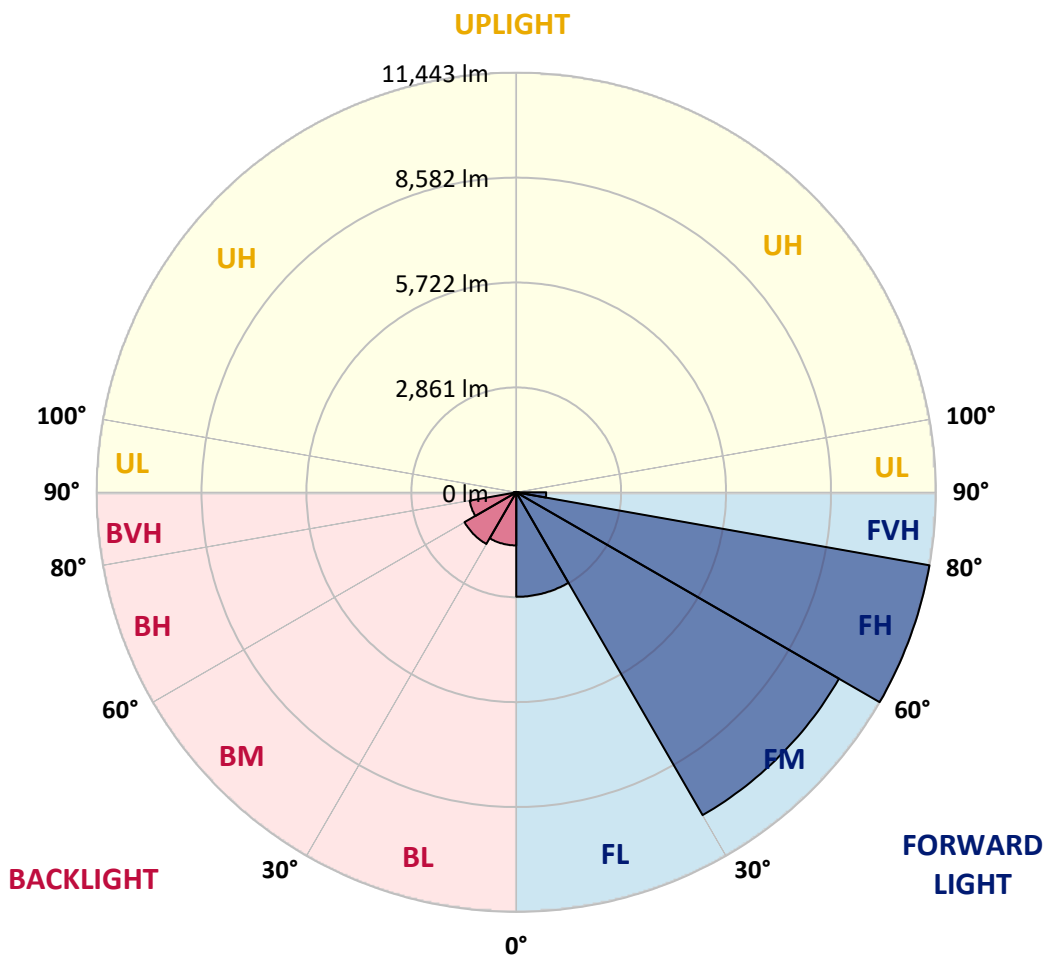


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2848.8 | 9.6 | | | |
| FM (30°-60°) | 10164.3 | 34.2 | | | |
| FH (60°-80°) | 11443.3 | 38.5 | | | G4/12000 |
| FVH (80°-90°) | 816.9 | 2.7 | | | G5 |
| BL (0°-30°) | 1448.2 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 1629.3 | 5.5 | B2/2500 | | |
| BH (60°-80°) | 1291.2 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 74.0 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 |
| 2.5° | 8451.7 | 8440.3 | 8444.5 | 8436.2 | 8416.5 | 8396.9 | 8367.9 | 8373.1 | 8332.7 | 8272.7 | 8198.1 |
| 5° | 8292.3 | 8288.2 | 8319.2 | 8336.8 | 8351.3 | 8339.9 | 8331.7 | 8342.0 | 8283.0 | 8200.2 | 8070.8 |
| 7.5° | 7958.0 | 7912.4 | 7951.8 | 8010.8 | 8066.7 | 8109.1 | 8165.0 | 8172.2 | 8135.0 | 8048.0 | 7878.3 |
| 10° | 7482.9 | 7439.4 | 7497.4 | 7589.5 | 7701.3 | 7802.7 | 7915.5 | 7936.2 | 7943.5 | 7864.8 | 7658.8 |
| 12.5° | 6990.1 | 6957.0 | 7015.0 | 7144.4 | 7329.7 | 7486.0 | 7666.1 | 7697.1 | 7761.3 | 7708.5 | 7455.9 |
| 15° | 6549.2 | 6536.8 | 6607.2 | 6734.5 | 6947.7 | 7186.8 | 7446.6 | 7503.6 | 7612.2 | 7594.7 | 7297.6 |
| 17.5° | 6168.3 | 6165.2 | 6219.0 | 6352.5 | 6588.5 | 6890.8 | 7228.2 | 7324.5 | 7486.0 | 7506.7 | 7167.1 |
| 20° | 5884.6 | 5878.4 | 5915.7 | 6014.0 | 6257.3 | 6599.9 | 6992.2 | 7124.7 | 7357.6 | 7430.1 | 7032.6 |
| 22.5° | 5732.5 | 5731.4 | 5732.5 | 5779.1 | 5977.8 | 6296.6 | 6762.4 | 6923.9 | 7232.4 | 7369.0 | 6883.5 |
| 25° | 5706.6 | 5703.5 | 5680.7 | 5675.5 | 5788.4 | 6043.0 | 6534.7 | 6712.7 | 7113.3 | 7326.6 | 6741.7 |
| 27.5° | 5773.9 | 5778.0 | 5748.0 | 5699.4 | 5722.1 | 5876.4 | 6337.0 | 6527.4 | 7018.1 | 7318.3 | 6643.4 |
| 30° | 5913.6 | 5911.6 | 5885.7 | 5835.0 | 5790.4 | 5814.3 | 6196.2 | 6386.7 | 6953.9 | 7354.5 | 6576.1 |
| 32.5° | 6067.9 | 6079.2 | 6074.1 | 6046.1 | 5979.9 | 5884.6 | 6153.8 | 6340.1 | 6935.3 | 7441.5 | 6547.1 |
| 35° | 6253.1 | 6265.6 | 6302.8 | 6324.6 | 6246.9 | 6093.7 | 6244.9 | 6406.3 | 6989.1 | 7605.0 | 6593.7 |
| 37.5° | 6429.1 | 6461.2 | 6565.7 | 6657.9 | 6591.6 | 6420.8 | 6487.1 | 6602.0 | 7155.8 | 7862.7 | 6718.9 |
| 40° | 6632.0 | 6659.9 | 6830.7 | 7026.4 | 7016.0 | 6839.0 | 6877.3 | 6953.9 | 7449.7 | 8232.3 | 6945.6 |
| 42.5° | 6831.8 | 6887.7 | 7135.1 | 7412.5 | 7492.2 | 7335.9 | 7396.9 | 7437.3 | 7863.8 | 8721.9 | 7341.0 |
| 45° | 7097.8 | 7157.8 | 7501.5 | 7835.8 | 8022.2 | 7934.2 | 8031.5 | 8047.0 | 8384.4 | 9388.5 | 7915.5 |
| 47.5° | 7500.5 | 7568.8 | 7969.4 | 8320.3 | 8604.9 | 8614.2 | 8774.7 | 8768.5 | 9034.5 | 10151.4 | 8639.1 |
| 50° | 8127.7 | 8226.1 | 8554.2 | 8882.3 | 9228.1 | 9420.6 | 9634.9 | 9604.8 | 9813.9 | 10964.0 | 9472.4 |
| 52.5° | 8949.6 | 8995.2 | 9238.4 | 9480.6 | 9910.2 | 10341.9 | 10649.3 | 10622.4 | 10697.9 | 11799.3 | 10418.4 |
| 55° | 9801.5 | 9835.7 | 9936.1 | 10068.6 | 10646.2 | 11350.1 | 12000.1 | 11957.7 | 11766.2 | 12666.7 | 11353.2 |
| 57.5° | 10567.5 | 10636.9 | 10706.2 | 10761.1 | 11387.3 | 12403.8 | 13382.0 | 13385.1 | 12925.5 | 13602.5 | 12318.9 |
| 60° | 10686.5 | 10747.6 | 11206.2 | 11638.9 | 12655.3 | 13809.5 | 14861.2 | 14830.1 | 14125.2 | 14617.9 | 13395.4 |
| 62.5° | 9446.5 | 9584.1 | 10350.1 | 11501.2 | 13876.8 | 16380.7 | 16748.2 | 16709.9 | 15559.9 | 15869.4 | 14649.0 |
| 65° | 6769.7 | 6926.0 | 7850.3 | 9580.0 | 13284.7 | 19213.8 | 20153.7 | 19638.2 | 17516.2 | 17408.6 | 16116.8 |
| 67.5° | 3905.5 | 3942.8 | 4343.3 | 5732.5 | 10115.2 | 19361.9 | 25349.0 | 24627.5 | 20554.3 | 19154.8 | 16835.1 |
| 70° | 2888.0 | 2886.9 | 2982.2 | 3527.7 | 5473.7 | 15802.1 | 27819.8 | 28466.7 | 23752.8 | 19729.3 | 15819.7 |
| 71° | 2611.6 | 2614.7 | 2721.3 | 3210.9 | 4335.1 | 13226.7 | 27295.0 | 28711.0 | 24595.4 | 19445.7 | 15084.8 |
| 72.5° | 2233.8 | 2244.1 | 2392.2 | 2879.7 | 3646.7 | 9121.4 | 25034.3 | 27245.3 | 24995.0 | 18746.0 | 13934.7 |
| 75° | 1694.5 | 1718.3 | 1923.2 | 2427.3 | 3333.1 | 4625.9 | 18373.3 | 21756.1 | 22204.3 | 16541.2 | 10354.3 |
| 77.5° | 1209.0 | 1235.9 | 1467.8 | 2041.3 | 3168.5 | 3486.3 | 12304.4 | 15869.4 | 16340.4 | 10600.6 | 4670.4 |
| 80° | 763.9 | 796.0 | 970.9 | 1624.1 | 2977.0 | 3310.3 | 7732.3 | 10666.9 | 8910.3 | 3392.1 | 1188.3 |
| 82.5° | 448.2 | 473.0 | 602.4 | 1061.0 | 2431.5 | 3188.2 | 4549.3 | 5912.6 | 3467.6 | 1024.8 | 540.3 |
| 85° | 259.8 | 271.2 | 375.7 | 675.9 | 1765.9 | 3009.1 | 3342.4 | 3305.1 | 1505.1 | 501.0 | 255.7 |
| 87.5° | 121.1 | 134.6 | 222.6 | 353.0 | 980.3 | 2181.0 | 2641.6 | 2282.4 | 935.7 | 235.0 | 120.1 |
| 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° | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 | 8233.3 |
| 2.5° | 8161.9 | 8144.3 | 8070.8 | 8005.6 | 7937.3 | 7848.3 | 7749.9 | 7737.5 | 7677.5 | 7688.8 | 7668.1 |
| 5° | 8000.4 | 7955.9 | 7778.9 | 7618.5 | 7429.0 | 7259.3 | 7075.0 | 6990.1 | 6868.0 | 6859.7 | 6828.7 |
| 7.5° | 7769.6 | 7686.8 | 7412.5 | 7108.1 | 6803.8 | 6514.0 | 6227.3 | 6038.9 | 5846.3 | 5764.6 | 5757.3 |
| 10° | 7509.8 | 7369.0 | 6965.3 | 6515.0 | 6076.1 | 5652.8 | 5242.9 | 4939.6 | 4666.3 | 4536.9 | 4531.7 |
| 12.5° | 7263.4 | 7055.4 | 6501.6 | 5888.8 | 5288.4 | 4739.8 | 4177.7 | 3779.2 | 3436.6 | 3321.7 | 3273.0 |
| 15° | 7054.3 | 6761.4 | 6050.3 | 5266.7 | 4538.0 | 3776.1 | 3136.4 | 2717.2 | 2400.4 | 2290.7 | 2270.0 |
| 17.5° | 6851.4 | 6474.7 | 5587.6 | 4638.4 | 3757.5 | 2920.1 | 2279.3 | 1967.8 | 1799.0 | 1754.5 | 1753.5 |
| 20° | 6649.6 | 6179.6 | 5104.2 | 3995.6 | 3002.9 | 2184.1 | 1752.5 | 1612.7 | 1555.8 | 1550.6 | 1542.3 |
| 22.5° | 6420.8 | 5867.0 | 4595.9 | 3350.7 | 2343.5 | 1717.3 | 1489.5 | 1433.6 | 1426.4 | 1445.0 | 1445.0 |
| 25° | 6206.6 | 5556.5 | 4080.4 | 2719.3 | 1822.8 | 1432.6 | 1330.1 | 1318.7 | 1338.4 | 1371.5 | 1374.6 |
| 27.5° | 6006.8 | 5257.4 | 3577.4 | 2158.2 | 1460.5 | 1261.8 | 1219.4 | 1232.8 | 1268.0 | 1306.3 | 1307.4 |
| 30° | 5842.2 | 4974.8 | 3088.8 | 1700.7 | 1233.9 | 1134.5 | 1127.2 | 1154.2 | 1192.5 | 1222.5 | 1229.7 |
| 32.5° | 5714.9 | 4733.6 | 2616.8 | 1367.4 | 1085.8 | 1039.3 | 1045.5 | 1068.2 | 1092.0 | 1108.6 | 1120.0 |
| 35° | 5655.9 | 4526.6 | 2181.0 | 1153.1 | 991.6 | 965.8 | 974.0 | 986.5 | 996.8 | 1009.2 | 1018.6 |
| 37.5° | 5666.2 | 4366.1 | 1791.8 | 1019.6 | 928.5 | 915.0 | 915.0 | 915.0 | 915.0 | 921.3 | 922.3 |
| 40° | 5762.5 | 4274.0 | 1475.0 | 934.7 | 886.1 | 871.6 | 860.2 | 849.8 | 841.5 | 845.7 | 843.6 |
| 42.5° | 6008.9 | 4265.7 | 1243.2 | 880.9 | 851.9 | 828.1 | 805.3 | 790.8 | 780.5 | 784.6 | 786.7 |
| 45° | 6427.0 | 4369.2 | 1086.9 | 842.6 | 819.8 | 783.6 | 754.6 | 739.1 | 731.8 | 745.3 | 747.4 |
| 47.5° | 6968.4 | 4594.9 | 991.6 | 814.6 | 789.8 | 742.2 | 711.1 | 696.6 | 698.7 | 718.4 | 723.5 |
| 50° | 7666.1 | 4961.3 | 946.1 | 797.0 | 769.1 | 707.0 | 674.9 | 662.5 | 668.7 | 696.6 | 702.8 |
| 52.5° | 8432.1 | 5489.2 | 951.3 | 791.9 | 755.6 | 681.1 | 646.9 | 632.5 | 642.8 | 668.7 | 673.9 |
| 55° | 9316.1 | 6123.8 | 1037.2 | 799.1 | 736.0 | 664.5 | 624.2 | 599.3 | 607.6 | 631.4 | 635.6 |
| 57.5° | 10298.4 | 6850.4 | 1210.1 | 797.0 | 711.1 | 649.0 | 600.4 | 563.1 | 569.3 | 583.8 | 587.9 |
| 60° | 11321.1 | 7728.2 | 1478.1 | 803.3 | 699.7 | 630.4 | 568.3 | 521.7 | 519.6 | 532.1 | 534.1 |
| 62.5° | 12548.7 | 8743.6 | 1784.5 | 807.4 | 707.0 | 606.6 | 525.8 | 480.3 | 474.1 | 477.2 | 479.3 |
| 65° | 13813.6 | 9478.6 | 1669.6 | 790.8 | 729.8 | 586.9 | 488.6 | 439.9 | 428.5 | 426.5 | 427.5 |
| 67.5° | 13853.0 | 8690.8 | 1170.7 | 757.7 | 739.1 | 576.6 | 460.6 | 405.8 | 387.1 | 379.9 | 378.9 |
| 70° | 12423.5 | 7060.5 | 911.9 | 722.5 | 701.8 | 560.0 | 434.7 | 377.8 | 349.9 | 338.5 | 337.4 |
| 71° | 11725.8 | 6499.5 | 864.3 | 704.9 | 673.9 | 543.4 | 423.4 | 365.4 | 336.4 | 324.0 | 321.9 |
| 72.5° | 10631.7 | 5826.7 | 806.4 | 677.0 | 620.0 | 501.0 | 401.6 | 347.8 | 317.8 | 303.3 | 300.2 |
| 75° | 7629.8 | 3810.3 | 692.5 | 603.5 | 513.4 | 399.6 | 351.9 | 312.6 | 286.7 | 269.1 | 267.1 |
| 77.5° | 2939.7 | 1516.4 | 523.8 | 502.0 | 393.3 | 312.6 | 289.8 | 270.2 | 251.5 | 233.9 | 232.9 |
| 80° | 908.8 | 678.0 | 382.0 | 377.8 | 284.7 | 232.9 | 225.7 | 220.5 | 213.2 | 194.6 | 190.5 |
| 82.5° | 485.5 | 389.2 | 262.9 | 244.3 | 186.3 | 155.3 | 163.5 | 165.6 | 166.7 | 147.0 | 144.9 |
| 85° | 231.9 | 206.0 | 148.0 | 138.7 | 108.7 | 86.9 | 100.4 | 108.7 | 109.7 | 90.1 | 83.8 |
| 87.5° | 110.8 | 107.7 | 69.4 | 52.8 | 40.4 | 29.0 | 35.2 | 43.5 | 47.6 | 34.2 | 30.0 |
| 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)