

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: P319738

Luminaire Tested: **GAN-SA4D-750-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319738
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-SA4D-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 1200mA 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: 31301 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

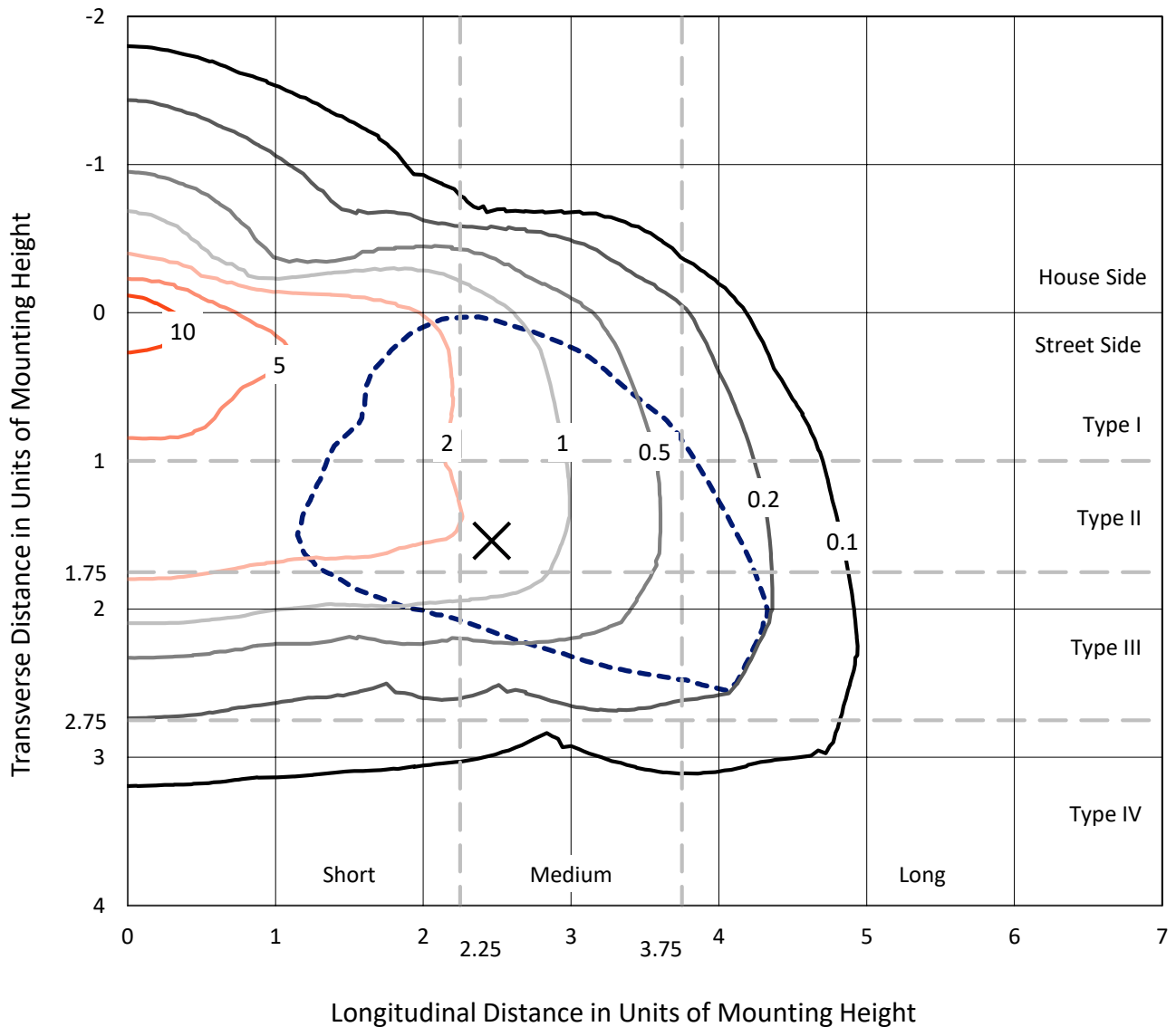
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

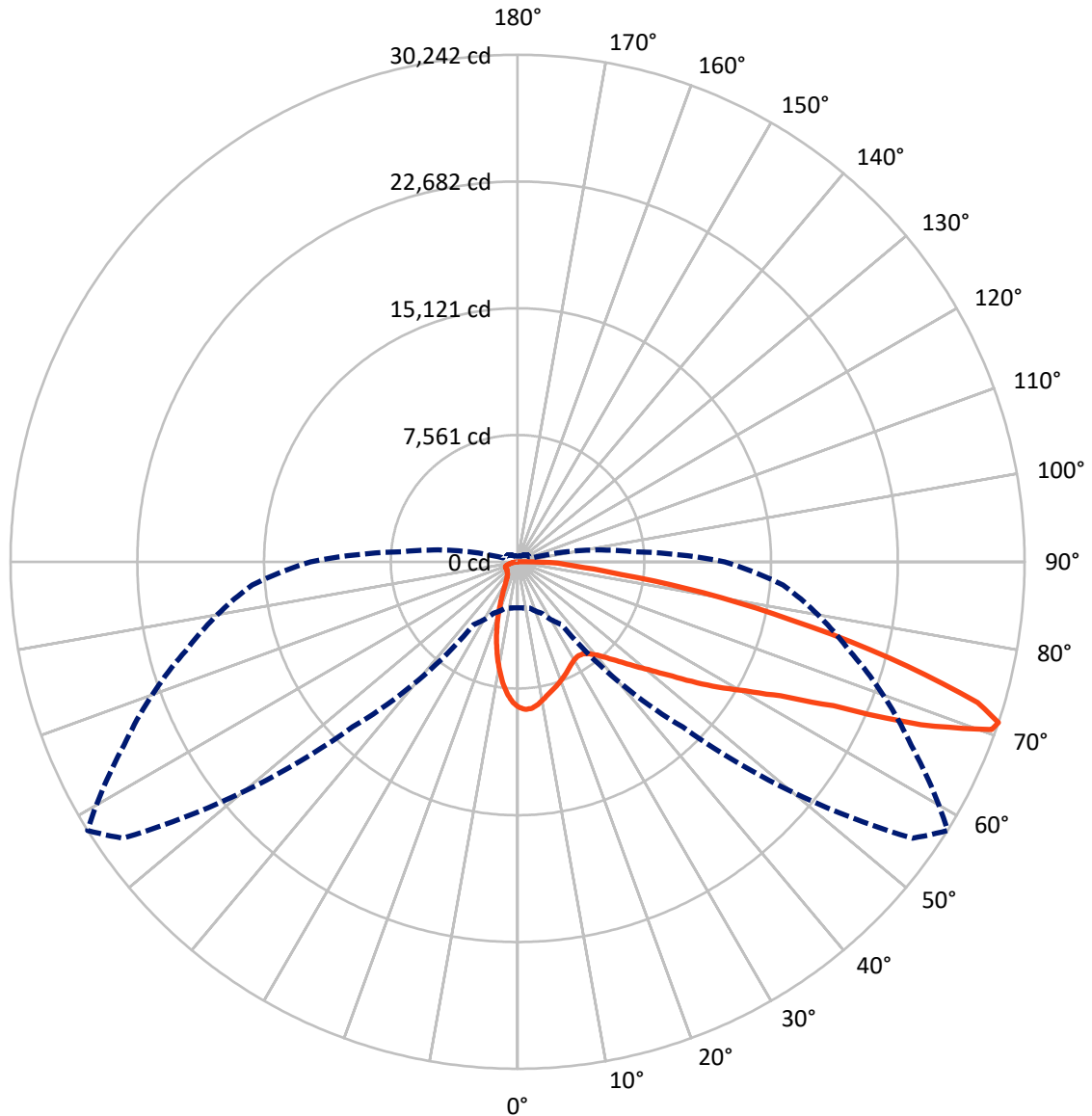
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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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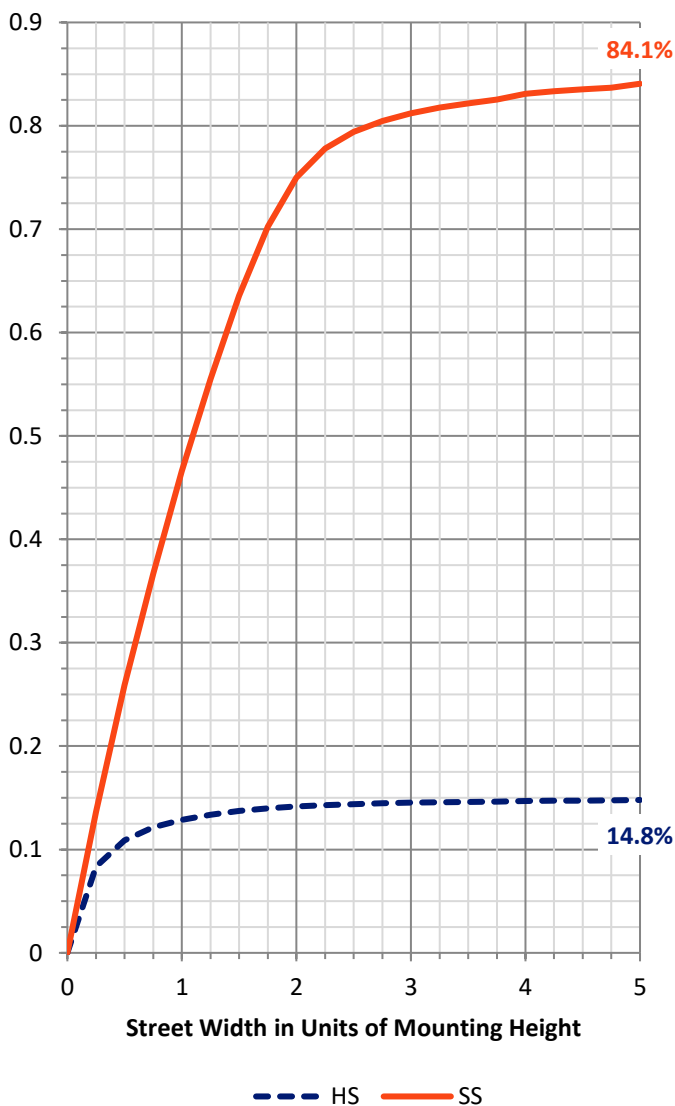
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4679.7 | 0.0 | 4679.7 |
| | % Fixture | 15.0 | 0.0 | 15.0 |
| Street Side | Lumens | 26621.3 | 0.0 | 26621.3 |
| | % Fixture | 85.0 | 0.0 | 85.0 |
| Total | Lumens | 31301.0 | 0.0 | 31301.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 748.2 | 2.4 |
| 10°-20° | 1663.7 | 5.3 |
| 20°-30° | 2114.3 | 6.8 |
| 30°-40° | 2693.2 | 8.6 |
| 40°-50° | 3819.1 | 12.2 |
| 50°-60° | 5910.3 | 18.9 |
| 60°-70° | 8046.1 | 25.7 |
| 70°-80° | 5367.7 | 17.1 |
| 80°-90° | 938.5 | 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° | 31301.0 | 100.0 |
| 0°-180° | 31301.0 | 100.0 |

Coefficient of Utilization

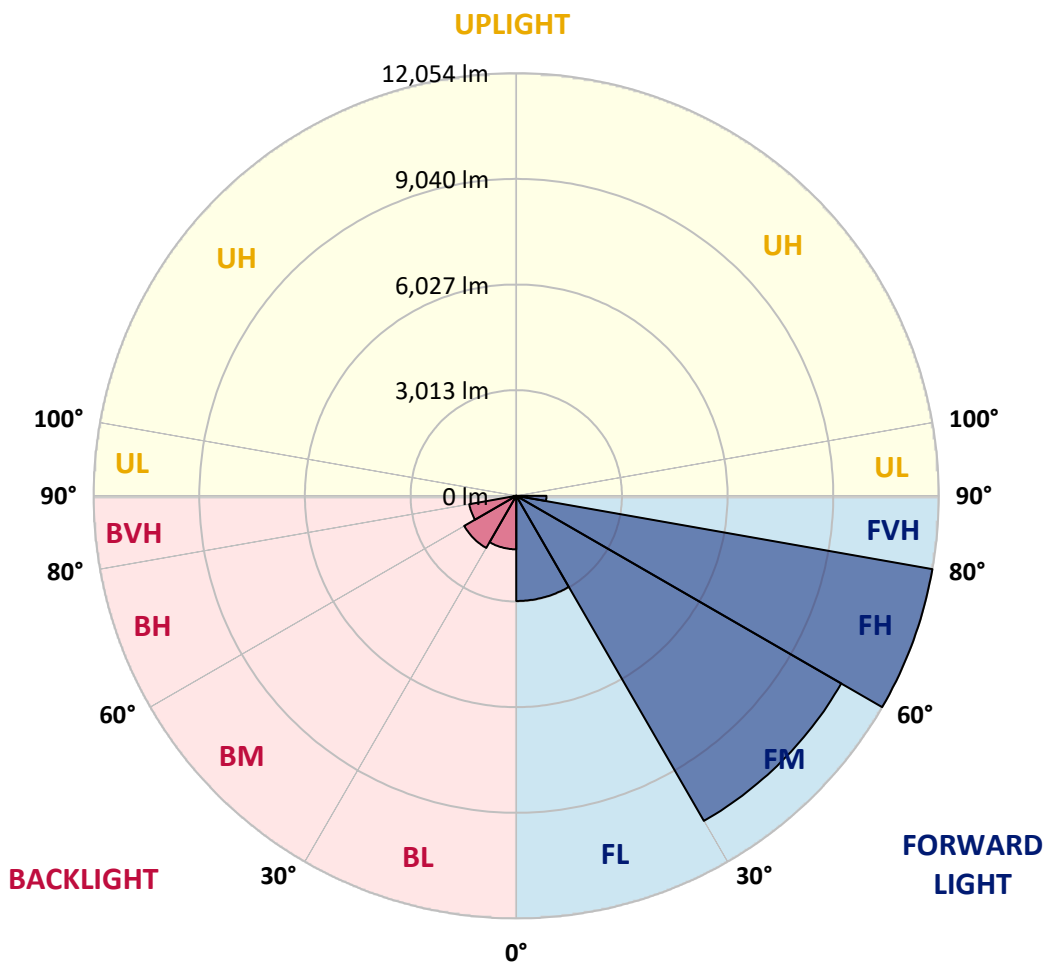


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3000.7 | 9.6 | | | |
| FM (30°-60°) | 10706.5 | 34.2 | | | |
| FH (60°-80°) | 12053.6 | 38.5 | | | G5 |
| FVH (80°-90°) | 860.5 | 2.7 | | | G5 |
| BL (0°-30°) | 1525.5 | 4.9 | B3/2500 | | |
| BM (30°-60°) | 1716.2 | 5.5 | B2/2500 | | |
| BH (60°-80°) | 1360.1 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 78.0 | 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° | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 |
| 2.5° | 8902.5 | 8890.5 | 8894.9 | 8886.2 | 8865.5 | 8844.7 | 8814.2 | 8819.7 | 8777.1 | 8713.9 | 8635.4 |
| 5° | 8734.6 | 8730.3 | 8763.0 | 8781.5 | 8796.8 | 8784.8 | 8776.1 | 8787.0 | 8724.8 | 8637.6 | 8501.3 |
| 7.5° | 8382.4 | 8334.5 | 8375.9 | 8438.0 | 8496.9 | 8541.6 | 8600.5 | 8608.1 | 8568.9 | 8477.3 | 8298.5 |
| 10° | 7882.0 | 7836.2 | 7897.2 | 7994.3 | 8112.0 | 8218.9 | 8337.7 | 8359.5 | 8367.2 | 8284.3 | 8067.3 |
| 12.5° | 7363.0 | 7328.1 | 7389.2 | 7525.4 | 7720.6 | 7885.3 | 8075.0 | 8107.7 | 8175.3 | 8119.7 | 7853.6 |
| 15° | 6898.5 | 6885.4 | 6959.6 | 7093.7 | 7318.3 | 7570.1 | 7843.8 | 7903.8 | 8018.3 | 7999.7 | 7686.8 |
| 17.5° | 6497.3 | 6494.0 | 6550.7 | 6691.3 | 6939.9 | 7258.3 | 7613.8 | 7715.2 | 7885.3 | 7907.1 | 7549.4 |
| 20° | 6198.5 | 6192.0 | 6231.2 | 6334.8 | 6591.0 | 6951.9 | 7365.2 | 7504.7 | 7750.1 | 7826.4 | 7407.7 |
| 22.5° | 6038.2 | 6037.1 | 6038.2 | 6087.3 | 6296.6 | 6632.5 | 7123.1 | 7293.2 | 7618.1 | 7762.0 | 7250.7 |
| 25° | 6011.0 | 6007.7 | 5983.7 | 5978.3 | 6097.1 | 6365.3 | 6883.2 | 7070.8 | 7492.7 | 7717.3 | 7101.3 |
| 27.5° | 6081.8 | 6086.2 | 6054.6 | 6003.3 | 6027.3 | 6189.8 | 6675.0 | 6875.6 | 7392.4 | 7708.6 | 6997.7 |
| 30° | 6229.0 | 6226.9 | 6199.6 | 6146.2 | 6099.3 | 6124.4 | 6526.7 | 6727.3 | 7324.8 | 7746.8 | 6926.9 |
| 32.5° | 6391.5 | 6403.5 | 6398.0 | 6368.6 | 6298.8 | 6198.5 | 6482.0 | 6678.3 | 7305.2 | 7838.4 | 6896.3 |
| 35° | 6586.7 | 6599.8 | 6639.0 | 6661.9 | 6580.1 | 6418.8 | 6577.9 | 6748.0 | 7361.9 | 8010.6 | 6945.4 |
| 37.5° | 6772.0 | 6805.8 | 6916.0 | 7013.0 | 6943.2 | 6763.3 | 6833.1 | 6954.1 | 7537.4 | 8282.1 | 7077.3 |
| 40° | 6985.7 | 7015.2 | 7195.1 | 7401.1 | 7390.2 | 7203.8 | 7244.1 | 7324.8 | 7847.1 | 8671.4 | 7316.1 |
| 42.5° | 7196.2 | 7255.0 | 7515.6 | 7807.8 | 7891.8 | 7727.2 | 7791.5 | 7834.0 | 8283.2 | 9187.1 | 7732.6 |
| 45° | 7476.4 | 7539.6 | 7901.6 | 8253.8 | 8450.0 | 8357.4 | 8459.9 | 8476.2 | 8831.7 | 9889.3 | 8337.7 |
| 47.5° | 7900.5 | 7972.5 | 8394.4 | 8764.1 | 9063.9 | 9073.7 | 9242.7 | 9236.2 | 9516.4 | 10692.8 | 9099.9 |
| 50° | 8561.3 | 8664.8 | 9010.5 | 9356.1 | 9720.3 | 9923.1 | 10148.8 | 10117.2 | 10337.4 | 11548.8 | 9977.6 |
| 52.5° | 9427.0 | 9475.0 | 9731.2 | 9986.3 | 10438.8 | 10893.5 | 11217.3 | 11188.9 | 11268.5 | 12428.6 | 10974.2 |
| 55° | 10324.3 | 10360.3 | 10466.1 | 10605.6 | 11214.0 | 11955.4 | 12640.2 | 12595.5 | 12393.8 | 13342.3 | 11958.7 |
| 57.5° | 11131.2 | 11204.2 | 11277.3 | 11335.1 | 11994.7 | 13065.4 | 14095.8 | 14099.0 | 13614.9 | 14328.0 | 12976.0 |
| 60° | 11256.5 | 11320.9 | 11803.9 | 12259.6 | 13330.4 | 14546.1 | 15653.8 | 15621.1 | 14878.6 | 15397.6 | 14109.9 |
| 62.5° | 9950.3 | 10095.3 | 10902.2 | 12114.6 | 14616.9 | 17254.4 | 17641.5 | 17601.2 | 16389.8 | 16715.8 | 15430.3 |
| 65° | 7130.7 | 7295.4 | 8269.0 | 10091.0 | 13993.3 | 20238.7 | 21228.7 | 20685.7 | 18450.5 | 18337.1 | 16976.4 |
| 67.5° | 4113.8 | 4153.1 | 4575.0 | 6038.2 | 10654.7 | 20394.6 | 26701.0 | 25941.1 | 21650.6 | 20176.5 | 17733.1 |
| 70° | 3042.0 | 3040.9 | 3141.2 | 3715.8 | 5765.7 | 16644.9 | 29303.7 | 29985.1 | 25019.8 | 20781.7 | 16663.5 |
| 71° | 2750.9 | 2754.2 | 2866.5 | 3382.2 | 4566.3 | 13932.2 | 28750.9 | 30242.4 | 25907.3 | 20482.9 | 15889.4 |
| 72.5° | 2352.9 | 2363.8 | 2519.7 | 3033.3 | 3841.2 | 9608.0 | 26369.6 | 28698.5 | 26328.2 | 19745.8 | 14678.0 |
| 75° | 1784.9 | 1809.9 | 2025.8 | 2556.8 | 3510.9 | 4872.7 | 19353.3 | 22916.5 | 23388.6 | 17423.4 | 10906.6 |
| 77.5° | 1273.5 | 1301.9 | 1546.1 | 2150.1 | 3337.5 | 3672.2 | 12960.7 | 16715.8 | 17211.9 | 11166.0 | 4919.6 |
| 80° | 804.7 | 838.5 | 1022.7 | 1710.7 | 3135.8 | 3486.9 | 8144.8 | 11235.8 | 9385.5 | 3573.0 | 1251.7 |
| 82.5° | 472.1 | 498.3 | 634.6 | 1117.6 | 2561.2 | 3358.2 | 4792.0 | 6228.0 | 3652.6 | 1079.4 | 569.2 |
| 85° | 273.7 | 285.7 | 395.8 | 712.0 | 1860.1 | 3169.6 | 3520.7 | 3481.4 | 1585.3 | 527.7 | 269.3 |
| 87.5° | 127.6 | 141.7 | 234.4 | 371.8 | 1032.5 | 2297.3 | 2782.5 | 2404.2 | 985.7 | 247.5 | 126.5 |
| 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° | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 | 8672.5 |
| 2.5° | 8597.2 | 8578.7 | 8501.3 | 8432.6 | 8360.6 | 8266.9 | 8163.3 | 8150.2 | 8087.0 | 8099.0 | 8077.2 |
| 5° | 8427.1 | 8380.3 | 8193.8 | 8024.8 | 7825.3 | 7646.5 | 7452.4 | 7363.0 | 7234.3 | 7225.6 | 7192.9 |
| 7.5° | 8184.0 | 8096.8 | 7807.8 | 7487.3 | 7166.7 | 6861.4 | 6559.4 | 6361.0 | 6158.2 | 6072.0 | 6064.4 |
| 10° | 7910.3 | 7762.0 | 7336.8 | 6862.5 | 6400.2 | 5954.3 | 5522.5 | 5203.0 | 4915.2 | 4778.9 | 4773.5 |
| 12.5° | 7650.8 | 7431.7 | 6848.4 | 6202.9 | 5570.5 | 4992.6 | 4400.6 | 3980.8 | 3619.9 | 3498.9 | 3447.6 |
| 15° | 7430.6 | 7122.0 | 6373.0 | 5547.6 | 4780.0 | 3977.5 | 3303.7 | 2862.1 | 2528.5 | 2412.9 | 2391.1 |
| 17.5° | 7216.9 | 6820.0 | 5885.6 | 4885.8 | 3957.9 | 3075.8 | 2400.9 | 2072.7 | 1895.0 | 1848.1 | 1847.0 |
| 20° | 7004.3 | 6509.3 | 5376.4 | 4208.7 | 3163.0 | 2300.6 | 1845.9 | 1698.7 | 1638.8 | 1633.3 | 1624.6 |
| 22.5° | 6763.3 | 6180.0 | 4841.1 | 3529.4 | 2468.5 | 1808.9 | 1569.0 | 1510.1 | 1502.5 | 1522.1 | 1522.1 |
| 25° | 6537.6 | 5852.9 | 4298.1 | 2864.3 | 1920.1 | 1509.0 | 1401.1 | 1389.1 | 1409.8 | 1444.7 | 1448.0 |
| 27.5° | 6327.2 | 5537.8 | 3768.2 | 2273.3 | 1538.5 | 1329.1 | 1284.4 | 1298.6 | 1335.7 | 1376.0 | 1377.1 |
| 30° | 6153.8 | 5240.1 | 3253.5 | 1791.4 | 1299.7 | 1195.0 | 1187.4 | 1215.7 | 1256.1 | 1287.7 | 1295.3 |
| 32.5° | 6019.7 | 4986.1 | 2756.3 | 1440.3 | 1143.8 | 1094.7 | 1101.2 | 1125.2 | 1150.3 | 1167.7 | 1179.7 |
| 35° | 5957.6 | 4768.0 | 2297.3 | 1214.6 | 1044.5 | 1017.3 | 1026.0 | 1039.1 | 1050.0 | 1063.1 | 1072.9 |
| 37.5° | 5968.5 | 4599.0 | 1887.4 | 1074.0 | 978.0 | 963.9 | 963.9 | 963.9 | 963.9 | 970.4 | 971.5 |
| 40° | 6069.9 | 4502.0 | 1553.7 | 984.6 | 933.3 | 918.1 | 906.1 | 895.2 | 886.4 | 890.8 | 888.6 |
| 42.5° | 6329.4 | 4493.2 | 1309.5 | 927.9 | 897.3 | 872.3 | 848.3 | 833.0 | 822.1 | 826.5 | 828.6 |
| 45° | 6769.8 | 4602.3 | 1144.8 | 887.5 | 863.5 | 825.4 | 794.8 | 778.5 | 770.9 | 785.0 | 787.2 |
| 47.5° | 7340.1 | 4840.0 | 1044.5 | 858.1 | 831.9 | 781.8 | 749.1 | 733.8 | 736.0 | 756.7 | 762.1 |
| 50° | 8075.0 | 5225.9 | 996.6 | 839.6 | 810.1 | 744.7 | 710.9 | 697.8 | 704.4 | 733.8 | 740.3 |
| 52.5° | 8881.8 | 5782.0 | 1002.0 | 834.1 | 795.9 | 717.4 | 681.5 | 666.2 | 677.1 | 704.4 | 709.8 |
| 55° | 9813.0 | 6450.4 | 1092.5 | 841.7 | 775.2 | 700.0 | 657.5 | 631.3 | 640.0 | 665.1 | 669.5 |
| 57.5° | 10847.7 | 7215.8 | 1274.6 | 839.6 | 749.1 | 683.6 | 632.4 | 593.1 | 599.7 | 614.9 | 619.3 |
| 60° | 11924.9 | 8140.4 | 1557.0 | 846.1 | 737.1 | 664.0 | 598.6 | 549.5 | 547.3 | 560.4 | 562.6 |
| 62.5° | 13218.0 | 9210.0 | 1879.7 | 850.5 | 744.7 | 638.9 | 553.9 | 505.9 | 499.4 | 502.6 | 504.8 |
| 65° | 14550.4 | 9984.1 | 1758.7 | 833.0 | 768.7 | 618.2 | 514.6 | 463.4 | 451.4 | 449.2 | 450.3 |
| 67.5° | 14591.9 | 9154.4 | 1233.2 | 798.1 | 778.5 | 607.3 | 485.2 | 427.4 | 407.8 | 400.2 | 399.1 |
| 70° | 13086.1 | 7437.1 | 960.6 | 761.0 | 739.2 | 589.9 | 457.9 | 398.0 | 368.5 | 356.5 | 355.4 |
| 71° | 12351.2 | 6846.2 | 910.4 | 742.5 | 709.8 | 572.4 | 445.9 | 384.9 | 354.4 | 341.3 | 339.1 |
| 72.5° | 11198.8 | 6137.5 | 849.4 | 713.1 | 653.1 | 527.7 | 423.0 | 366.4 | 334.7 | 319.5 | 316.2 |
| 75° | 8036.8 | 4013.5 | 729.4 | 635.7 | 540.8 | 420.9 | 370.7 | 329.3 | 302.0 | 283.5 | 281.3 |
| 77.5° | 3096.5 | 1597.3 | 551.7 | 528.8 | 414.3 | 329.3 | 305.3 | 284.6 | 264.9 | 246.4 | 245.3 |
| 80° | 957.3 | 714.2 | 402.3 | 398.0 | 299.8 | 245.3 | 237.7 | 232.2 | 224.6 | 205.0 | 200.6 |
| 82.5° | 511.4 | 410.0 | 276.9 | 257.3 | 196.3 | 163.5 | 172.3 | 174.5 | 175.5 | 154.8 | 152.6 |
| 85° | 244.2 | 217.0 | 155.9 | 146.1 | 114.5 | 91.6 | 105.8 | 114.5 | 115.6 | 94.9 | 88.3 |
| 87.5° | 116.7 | 113.4 | 73.1 | 55.6 | 42.5 | 30.5 | 37.1 | 45.8 | 50.2 | 36.0 | 31.6 |
| 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)