

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: P383717

Luminaire Tested: **GAN-SA9D-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64165.9 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

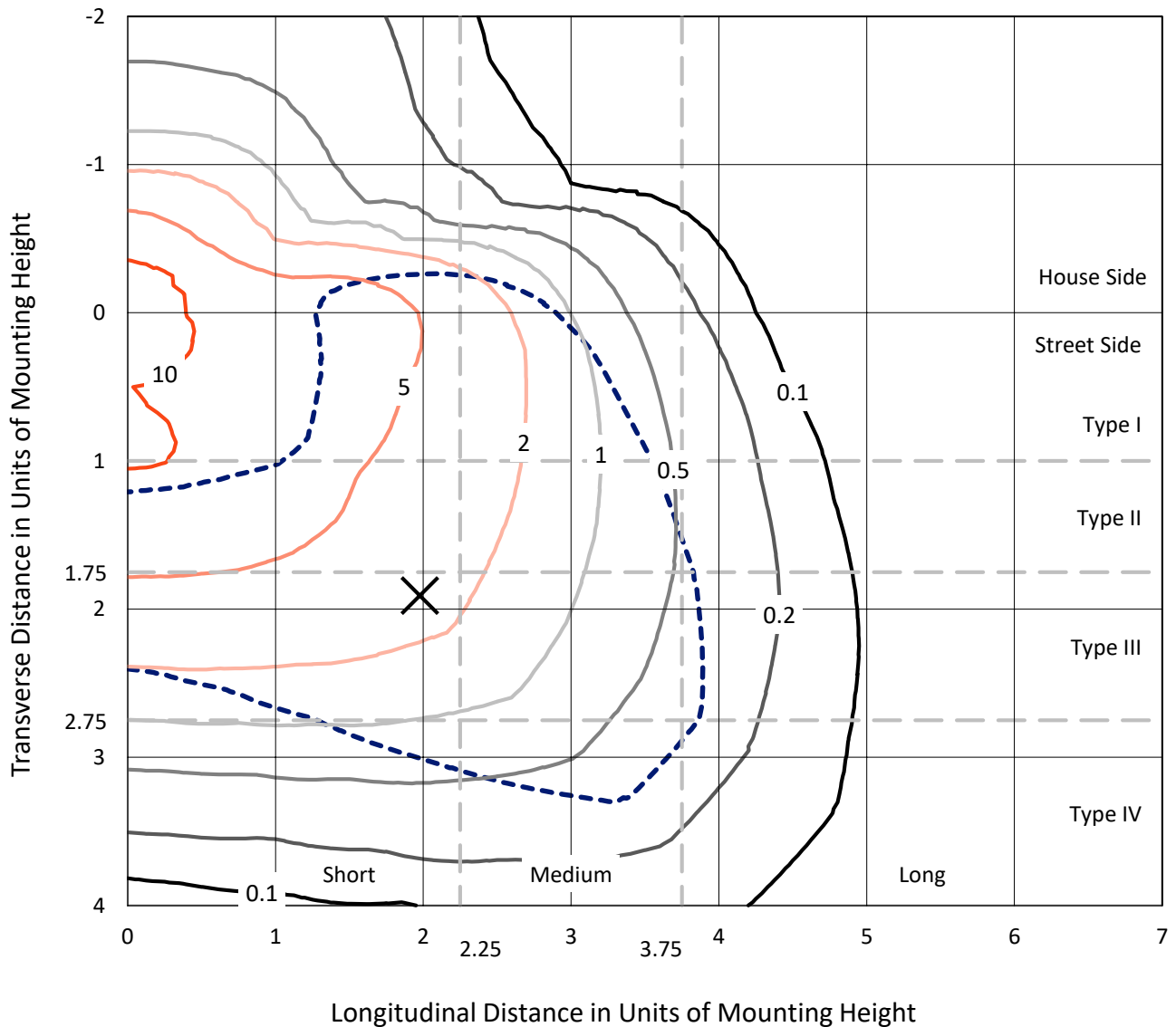
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

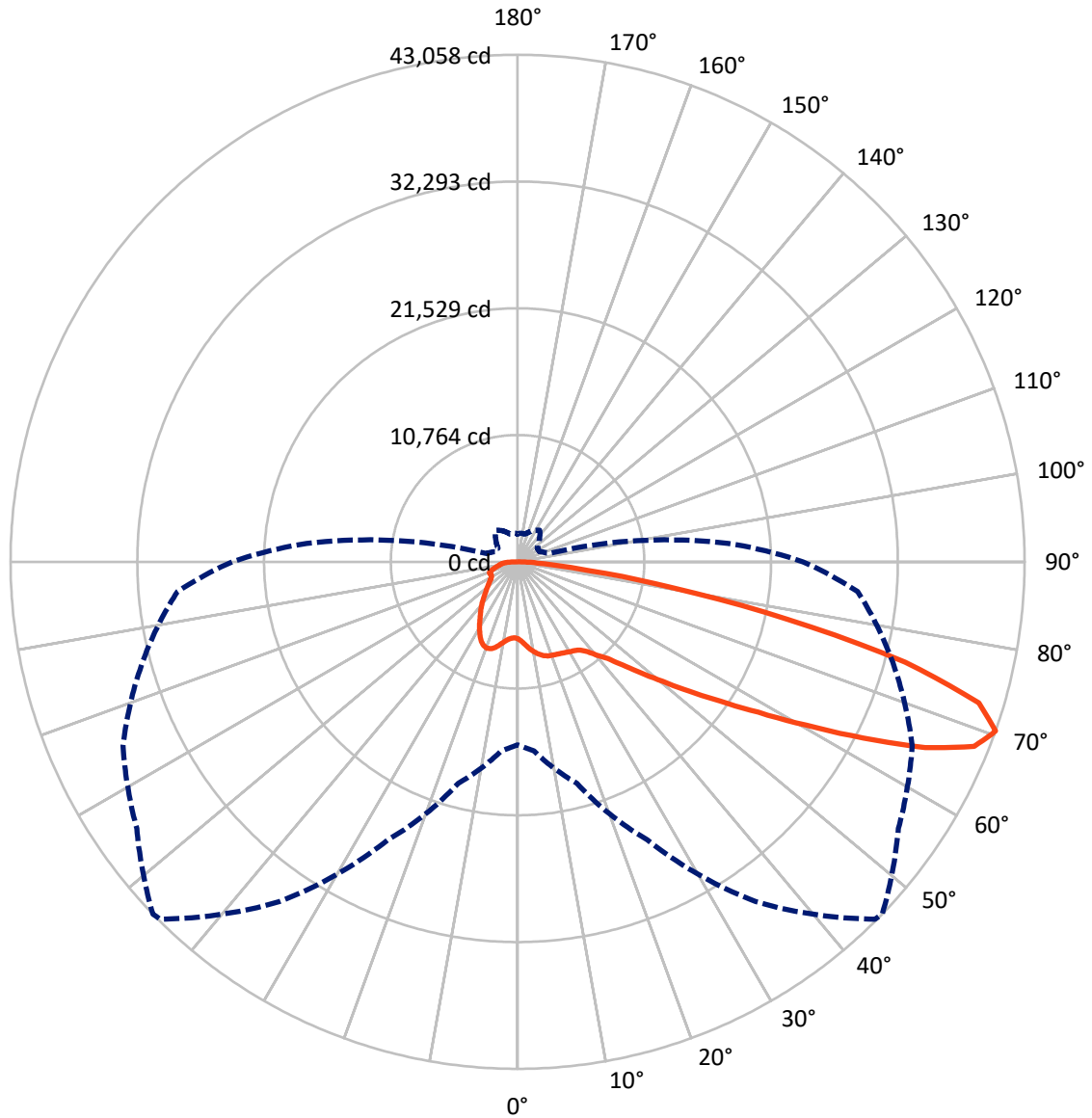
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14706.6 | 0.0 | 14706.6 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 49459.3 | 0.0 | 49459.3 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 64165.9 | 0.0 | 64165.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 666.4 | 1.0 |
| 10°-20° | 2220.3 | 3.5 |
| 20°-30° | 3702.1 | 5.8 |
| 30°-40° | 5253.6 | 8.2 |
| 40°-50° | 7727.7 | 12.0 |
| 50°-60° | 13086.8 | 20.4 |
| 60°-70° | 18576.5 | 29.0 |
| 70°-80° | 11285.4 | 17.6 |
| 80°-90° | 1647.0 | 2.6 |
| 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° | 64165.9 | 100.0 |
| 0°-180° | 64165.9 | 100.0 |

Coefficient of Utilization

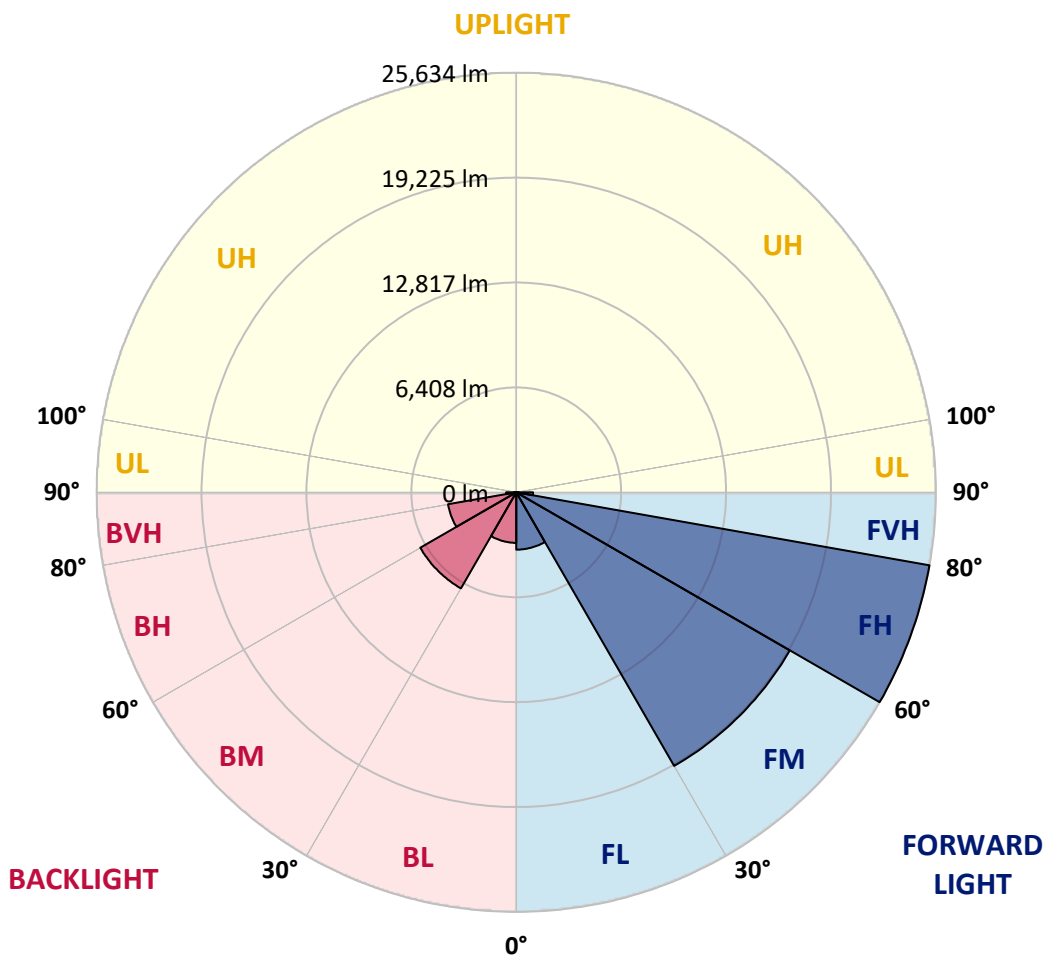


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3501.2 | 5.5 | | | |
| FM (30°-60°) | 19298.2 | 30.1 | | | |
| FH (60°-80°) | 25633.9 | 39.9 | | | G5 |
| FVH (80°-90°) | 1025.9 | 1.6 | | | G5 |
| BL (0°-30°) | 3087.7 | 4.8 | B4/5000 | | |
| BM (30°-60°) | 6769.9 | 10.6 | B4/8500 | | |
| BH (60°-80°) | 4228.0 | 6.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 621.0 | 1.0 | | | G4/750 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 |
| 2.5° | 6864.5 | 6868.9 | 6877.6 | 6855.6 | 6794.1 | 6776.6 | 6770.0 | 6706.3 | 6664.6 | 6603.1 | 6550.5 |
| 5° | 7413.4 | 7417.8 | 7404.7 | 7343.1 | 7207.0 | 7106.0 | 7097.2 | 6952.3 | 6820.5 | 6679.9 | 6574.6 |
| 7.5° | 7986.5 | 7993.1 | 7951.4 | 7835.1 | 7644.0 | 7468.3 | 7457.3 | 7259.7 | 7059.9 | 6846.9 | 6688.8 |
| 10° | 8493.9 | 8467.5 | 8399.4 | 8236.9 | 8010.8 | 7795.5 | 7786.7 | 7580.3 | 7349.7 | 7092.8 | 6882.0 |
| 12.5° | 8832.0 | 8810.0 | 8722.2 | 8524.6 | 8276.4 | 8078.8 | 8061.2 | 7870.2 | 7646.2 | 7365.1 | 7112.6 |
| 15° | 9018.7 | 9034.1 | 8915.5 | 8691.4 | 8449.9 | 8283.0 | 8267.7 | 8131.5 | 7931.7 | 7648.4 | 7358.5 |
| 17.5° | 9042.8 | 9055.9 | 8941.7 | 8720.0 | 8522.4 | 8408.1 | 8401.6 | 8311.5 | 8166.6 | 7894.3 | 7591.3 |
| 20° | 8902.2 | 8911.0 | 8816.6 | 8634.3 | 8504.8 | 8469.6 | 8467.5 | 8427.9 | 8320.3 | 8078.8 | 7784.6 |
| 22.5° | 8698.0 | 8704.7 | 8636.6 | 8504.8 | 8460.9 | 8515.7 | 8531.1 | 8515.7 | 8438.9 | 8212.7 | 7936.0 |
| 25° | 8647.6 | 8643.2 | 8572.8 | 8438.9 | 8476.2 | 8592.6 | 8612.4 | 8619.0 | 8566.3 | 8368.7 | 8129.3 |
| 27.5° | 8891.2 | 8875.9 | 8741.9 | 8526.7 | 8551.0 | 8691.4 | 8717.8 | 8781.5 | 8748.5 | 8575.1 | 8348.9 |
| 30° | 9596.2 | 9569.8 | 9295.4 | 8860.5 | 8741.9 | 8814.4 | 8847.4 | 8948.4 | 8955.0 | 8810.0 | 8640.9 |
| 32.5° | 10786.4 | 10753.4 | 10261.6 | 9484.2 | 9064.8 | 8939.6 | 8970.3 | 9121.8 | 9203.1 | 9091.1 | 8908.9 |
| 35° | 12290.6 | 12253.2 | 11607.6 | 10544.8 | 9604.9 | 9178.9 | 9200.9 | 9321.7 | 9484.2 | 9326.1 | 9084.5 |
| 37.5° | 13858.4 | 13768.5 | 13146.9 | 11792.1 | 10463.5 | 9690.6 | 9690.6 | 9706.0 | 9782.8 | 9453.4 | 9291.0 |
| 40° | 15417.6 | 15327.5 | 14765.4 | 13259.0 | 11574.7 | 10496.5 | 10446.0 | 10105.6 | 10044.1 | 9760.8 | 9706.0 |
| 42.5° | 16866.9 | 16840.5 | 16508.9 | 14916.9 | 12879.1 | 11289.2 | 11218.9 | 10641.4 | 10654.6 | 10478.9 | 10481.1 |
| 45° | 18408.4 | 18408.4 | 18138.3 | 16590.2 | 14398.7 | 12562.9 | 12492.6 | 11642.8 | 11774.5 | 11693.3 | 11888.7 |
| 47.5° | 19666.6 | 19706.1 | 19668.9 | 18333.7 | 16166.4 | 14181.2 | 14053.9 | 13030.6 | 13399.5 | 13678.4 | 14247.1 |
| 50° | 20951.3 | 21012.7 | 21019.3 | 20246.3 | 18303.0 | 16104.9 | 15959.9 | 14873.0 | 15696.4 | 16495.8 | 17613.5 |
| 52.5° | 22815.7 | 22954.0 | 22402.8 | 22154.6 | 20920.5 | 18388.7 | 18245.9 | 17242.4 | 18617.0 | 19739.1 | 21664.9 |
| 55° | 24543.8 | 24423.0 | 24029.9 | 24183.6 | 23722.5 | 20988.6 | 20881.0 | 20000.4 | 21871.3 | 23329.5 | 25830.6 |
| 57.5° | 25479.2 | 25470.5 | 25865.7 | 26524.5 | 26744.1 | 24194.6 | 24104.6 | 23248.2 | 25540.7 | 26636.5 | 29741.5 |
| 60° | 26577.2 | 26592.6 | 27571.9 | 29067.4 | 29972.1 | 28186.9 | 28147.3 | 27497.3 | 29104.7 | 29724.0 | 32809.2 |
| 62.5° | 26730.9 | 27007.6 | 28694.1 | 31267.7 | 32993.6 | 32850.9 | 32938.8 | 31324.8 | 32293.2 | 32187.8 | 35099.6 |
| 65° | 24963.2 | 25327.8 | 28380.1 | 31933.1 | 35997.7 | 37952.1 | 38033.3 | 35174.2 | 34807.6 | 34293.7 | 35918.6 |
| 67.5° | 21340.0 | 21880.1 | 25195.9 | 30485.9 | 36988.0 | 41722.4 | 41836.6 | 38158.5 | 36893.7 | 35007.4 | 33946.7 |
| 70° | 15529.6 | 16129.0 | 19466.8 | 26037.0 | 35222.6 | 42928.0 | 43057.6 | 39478.2 | 36972.7 | 32976.1 | 28979.5 |
| 72.5° | 9381.0 | 9850.9 | 12602.3 | 19168.2 | 29728.4 | 40732.1 | 40962.7 | 37805.0 | 33755.7 | 27932.1 | 21399.2 |
| 75° | 4119.6 | 4427.0 | 6093.7 | 11045.5 | 21282.9 | 33700.8 | 33988.4 | 32359.1 | 27427.0 | 20299.1 | 12648.5 |
| 77.5° | 1754.6 | 1842.4 | 2499.0 | 4798.1 | 12031.4 | 23028.6 | 23423.9 | 23643.4 | 18608.2 | 11045.5 | 5344.8 |
| 80° | 1093.5 | 1128.7 | 1414.2 | 2171.8 | 5630.4 | 12934.0 | 13360.0 | 13911.2 | 9240.4 | 4060.2 | 1866.5 |
| 82.5° | 665.4 | 704.9 | 939.8 | 1313.2 | 2931.6 | 5863.1 | 6067.4 | 6456.0 | 3585.9 | 1754.6 | 966.2 |
| 85° | 399.6 | 428.2 | 575.3 | 830.1 | 1668.9 | 2305.7 | 2303.5 | 2547.2 | 1688.6 | 1128.7 | 509.5 |
| 87.5° | 191.1 | 213.0 | 307.4 | 430.4 | 841.0 | 865.2 | 810.3 | 917.9 | 1025.5 | 740.0 | 256.9 |
| 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° | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 | 6537.2 |
| 2.5° | 6532.9 | 6524.1 | 6495.5 | 6473.6 | 6469.1 | 6456.0 | 6445.0 | 6451.6 | 6460.4 | 6462.6 | 6462.6 |
| 5° | 6530.7 | 6506.5 | 6469.1 | 6453.8 | 6473.6 | 6500.0 | 6532.9 | 6576.8 | 6603.1 | 6622.9 | 6636.1 |
| 7.5° | 6636.1 | 6590.0 | 6548.2 | 6539.5 | 6579.0 | 6649.2 | 6723.9 | 6816.1 | 6879.9 | 6923.7 | 6932.5 |
| 10° | 6811.8 | 6754.7 | 6712.9 | 6721.7 | 6792.0 | 6893.0 | 6998.4 | 7116.9 | 7213.6 | 7272.9 | 7277.2 |
| 12.5° | 7013.8 | 6958.8 | 6919.3 | 6956.7 | 7073.1 | 7196.0 | 7305.8 | 7409.1 | 7496.9 | 7556.2 | 7556.2 |
| 15° | 7246.5 | 7207.0 | 7160.9 | 7246.5 | 7404.7 | 7514.4 | 7560.5 | 7611.0 | 7659.4 | 7703.2 | 7694.5 |
| 17.5° | 7470.5 | 7433.2 | 7409.1 | 7510.0 | 7674.7 | 7725.2 | 7694.5 | 7657.1 | 7657.1 | 7681.4 | 7685.7 |
| 20° | 7663.7 | 7630.9 | 7646.2 | 7745.0 | 7830.7 | 7778.0 | 7663.7 | 7545.2 | 7496.9 | 7510.0 | 7523.2 |
| 22.5° | 7832.8 | 7817.5 | 7863.6 | 7909.7 | 7848.2 | 7663.7 | 7452.9 | 7292.6 | 7233.4 | 7229.0 | 7233.4 |
| 25° | 8030.5 | 8028.3 | 8085.4 | 8001.9 | 7729.6 | 7389.3 | 7106.0 | 6950.1 | 6917.1 | 6943.5 | 6987.4 |
| 27.5° | 8276.4 | 8300.6 | 8329.2 | 8023.9 | 7488.1 | 6974.2 | 6686.6 | 6579.0 | 6611.9 | 6675.6 | 6717.3 |
| 30° | 8590.5 | 8656.3 | 8594.8 | 7969.0 | 7141.2 | 6500.0 | 6225.4 | 6194.7 | 6284.7 | 6374.8 | 6418.6 |
| 32.5° | 8895.6 | 8998.8 | 8849.5 | 7826.2 | 6693.2 | 5997.0 | 5784.1 | 5775.2 | 5885.1 | 5972.9 | 6034.4 |
| 35° | 9141.6 | 9345.8 | 9040.6 | 7543.0 | 6174.9 | 5533.7 | 5377.8 | 5318.5 | 5358.1 | 5461.3 | 5531.5 |
| 37.5° | 9462.2 | 9802.6 | 9172.4 | 7110.4 | 5612.8 | 5151.6 | 4969.3 | 4833.2 | 4798.1 | 4839.8 | 4875.0 |
| 40° | 10048.5 | 10498.7 | 9233.9 | 6506.5 | 5063.8 | 4769.5 | 4585.1 | 4385.3 | 4246.9 | 4145.9 | 4148.1 |
| 42.5° | 11006.0 | 11405.6 | 9194.3 | 5773.1 | 4556.6 | 4396.3 | 4187.6 | 3957.0 | 3733.1 | 3504.7 | 3487.2 |
| 45° | 12560.6 | 12753.9 | 9075.7 | 4995.7 | 4110.7 | 4005.4 | 3809.9 | 3579.4 | 3280.7 | 3021.6 | 2997.4 |
| 47.5° | 15048.6 | 14620.5 | 8891.2 | 4317.2 | 3717.7 | 3673.7 | 3493.7 | 3228.0 | 2911.8 | 2703.2 | 2685.7 |
| 50° | 18441.3 | 17314.9 | 8801.3 | 3777.0 | 3370.7 | 3383.9 | 3236.8 | 2955.7 | 2657.1 | 2503.3 | 2485.7 |
| 52.5° | 22499.4 | 20452.8 | 8974.7 | 3359.7 | 3091.9 | 3138.0 | 3028.2 | 2764.6 | 2514.3 | 2393.5 | 2376.0 |
| 55° | 26709.0 | 23702.8 | 9161.4 | 3056.7 | 2828.4 | 2918.4 | 2881.1 | 2663.7 | 2437.5 | 2325.5 | 2310.1 |
| 57.5° | 30312.5 | 26129.3 | 8788.0 | 2810.8 | 2593.3 | 2733.9 | 2766.9 | 2599.9 | 2398.0 | 2296.9 | 2279.4 |
| 60° | 32580.9 | 27106.5 | 7808.7 | 2580.2 | 2406.7 | 2586.8 | 2701.0 | 2582.4 | 2413.4 | 2404.5 | 2391.4 |
| 62.5° | 33656.8 | 27020.7 | 6339.6 | 2398.0 | 2290.3 | 2523.1 | 2749.3 | 2681.2 | 2589.0 | 2668.0 | 2674.7 |
| 65° | 33173.7 | 25729.6 | 4721.3 | 2277.2 | 2206.9 | 2547.2 | 2894.2 | 2867.9 | 2639.5 | 2718.5 | 2729.5 |
| 67.5° | 29994.1 | 22648.7 | 3495.9 | 2171.8 | 2114.7 | 2615.3 | 3157.8 | 2929.3 | 2540.7 | 2597.8 | 2562.6 |
| 70° | 24243.0 | 17956.0 | 2696.6 | 2053.2 | 2020.2 | 2606.6 | 3276.3 | 2892.0 | 2433.1 | 2446.2 | 2351.8 |
| 72.5° | 16717.6 | 12244.4 | 2193.7 | 1943.4 | 1884.1 | 2376.0 | 3192.9 | 2799.8 | 2343.0 | 2242.0 | 2116.8 |
| 75° | 9091.1 | 6572.3 | 1864.3 | 1829.2 | 1644.7 | 2086.1 | 3039.2 | 2733.9 | 2261.8 | 2127.8 | 2057.6 |
| 77.5° | 3577.1 | 2727.3 | 1618.4 | 1673.2 | 1438.3 | 1842.4 | 2867.9 | 2608.7 | 2149.8 | 1974.1 | 1939.0 |
| 80° | 1460.3 | 1392.2 | 1341.7 | 1447.1 | 1236.3 | 1611.8 | 2661.4 | 2461.6 | 2015.9 | 1831.4 | 1761.1 |
| 82.5° | 827.9 | 865.2 | 1043.1 | 1141.9 | 1003.6 | 1484.4 | 2562.6 | 2343.0 | 1855.5 | 1640.4 | 1556.9 |
| 85° | 423.9 | 507.2 | 726.9 | 819.1 | 737.8 | 1262.6 | 2360.6 | 2051.0 | 1488.8 | 1256.1 | 1262.6 |
| 87.5° | 204.2 | 283.3 | 459.0 | 513.8 | 478.7 | 913.5 | 1763.3 | 1486.7 | 1159.4 | 917.9 | 889.3 |
| 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)