

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: P323733

Luminaire Tested: **GAN-SA9C-722-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-722-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39712 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

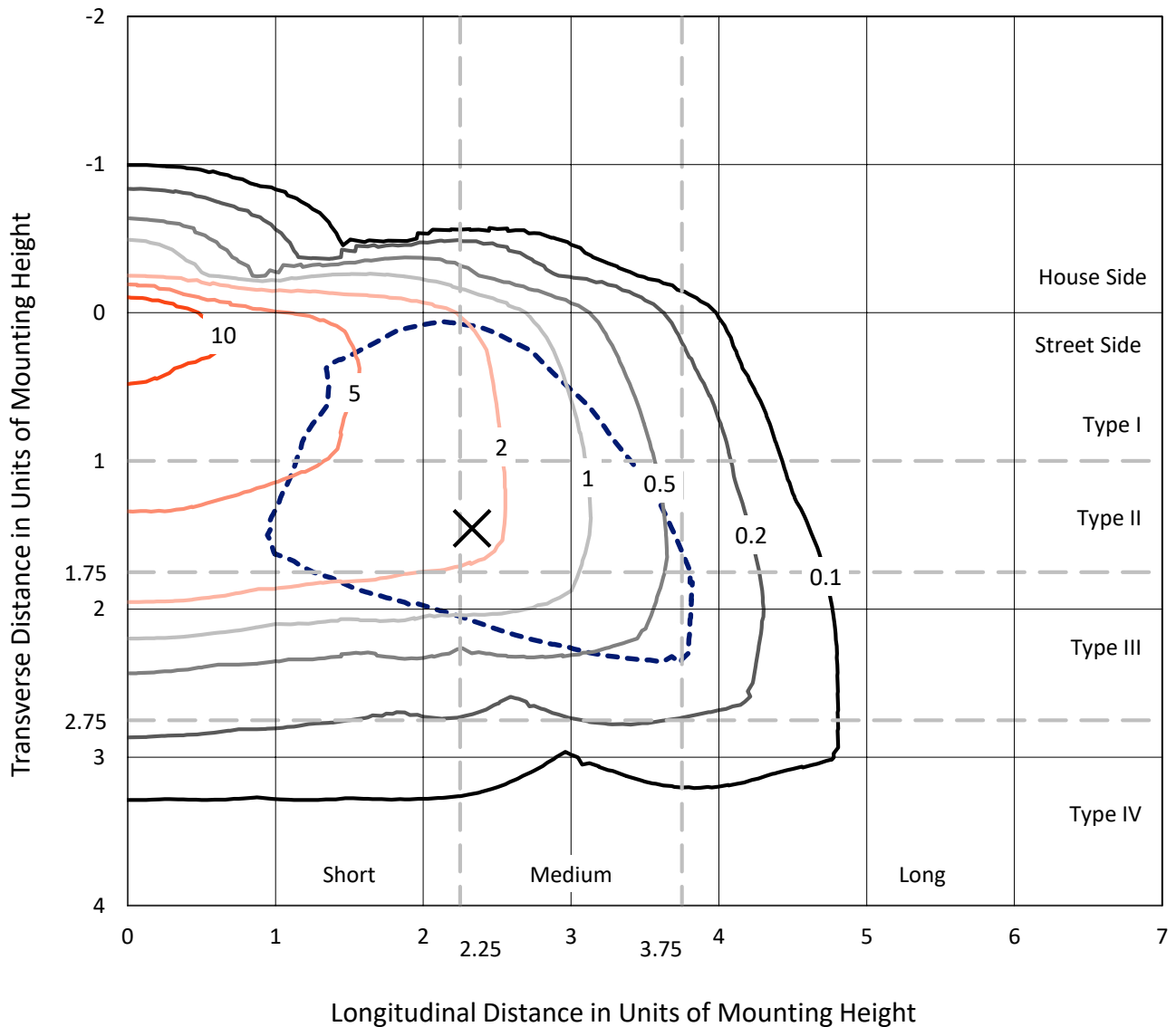
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

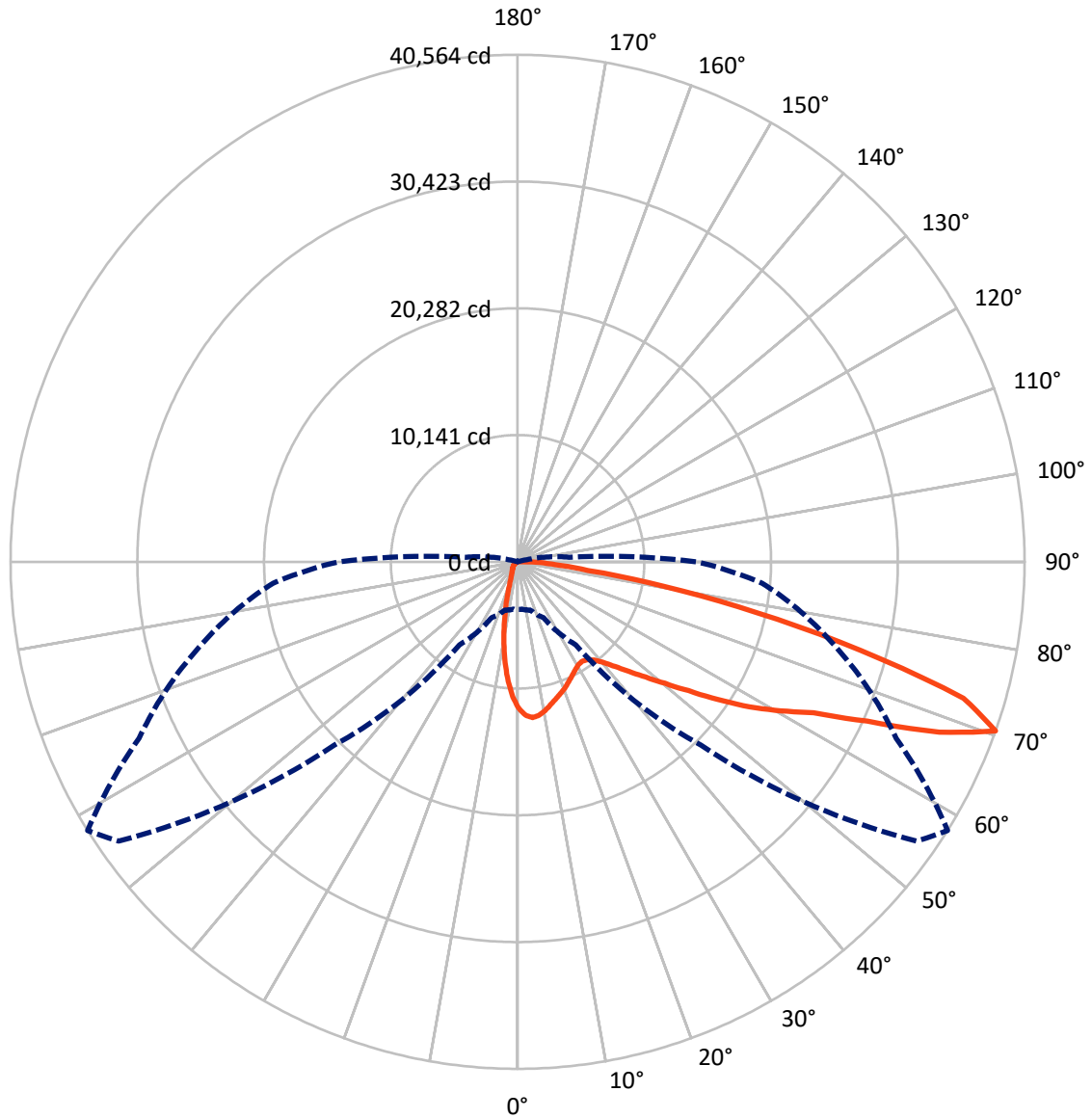
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3398.5 | 0.0 | 3398.5 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 36313.5 | 0.0 | 36313.5 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 39712.0 | 0.0 | 39712.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 959.3 | 2.4 |
| 10°-20° | 2013.3 | 5.1 |
| 20°-30° | 2646.8 | 6.7 |
| 30°-40° | 3505.4 | 8.8 |
| 40°-50° | 5239.4 | 13.2 |
| 50°-60° | 8393.4 | 21.1 |
| 60°-70° | 10579.8 | 26.6 |
| 70°-80° | 5706.7 | 14.4 |
| 80°-90° | 668.0 | 1.7 |
| 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° | 39712.0 | 100.0 |
| 0°-180° | 39712.0 | 100.0 |

Coefficient of Utilization

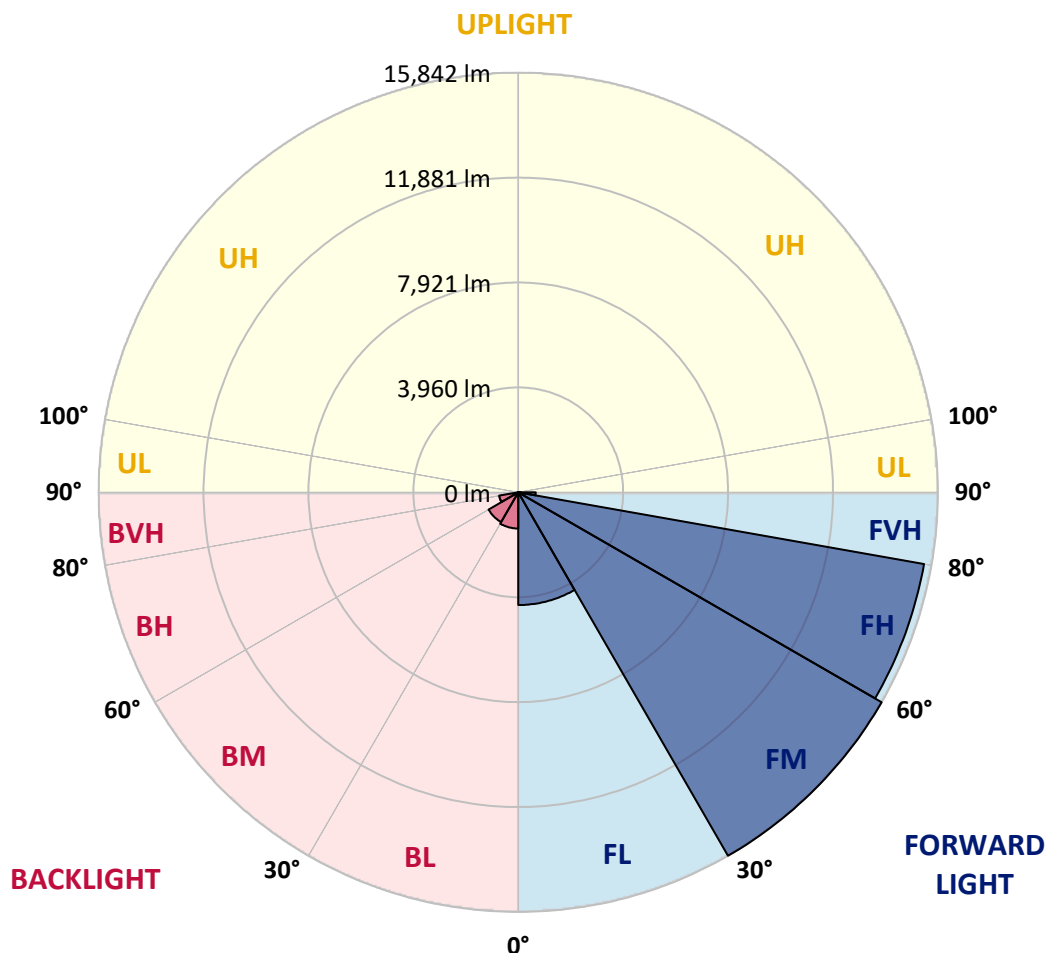


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4254.0 | 10.7 | | | |
| FM (30°-60°) | 15841.7 | 39.9 | | | |
| FH (60°-80°) | 15555.6 | 39.2 | | | G5 |
| FVH (80°-90°) | 662.2 | 1.7 | | | G4/750 |
| BL (0°-30°) | 1365.4 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 1296.5 | 3.3 | B2/2500 | | |
| BH (60°-80°) | 730.9 | 1.8 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 5.8 | 0.0 | | | G0/10 |
| 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° | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 |
| 2.5° | 12703.3 | 12672.0 | 12660.4 | 12640.6 | 12564.6 | 12490.3 | 12343.4 | 12302.1 | 12209.6 | 11990.0 | 11757.2 |
| 5° | 12713.3 | 12711.6 | 12746.3 | 12738.0 | 12711.6 | 12676.9 | 12571.2 | 12516.7 | 12359.9 | 12046.1 | 11620.1 |
| 7.5° | 12100.6 | 12132.0 | 12209.6 | 12272.4 | 12345.0 | 12439.1 | 12452.3 | 12399.5 | 12270.7 | 11932.2 | 11367.5 |
| 10° | 11278.3 | 11327.8 | 11436.8 | 11560.7 | 11750.6 | 11938.8 | 12107.2 | 12100.6 | 12056.0 | 11722.5 | 11063.6 |
| 12.5° | 10454.3 | 10512.1 | 10637.6 | 10820.9 | 11090.0 | 11397.2 | 11697.7 | 11739.0 | 11813.3 | 11534.2 | 10782.9 |
| 15° | 9732.7 | 9782.2 | 9906.1 | 10130.6 | 10464.2 | 10877.0 | 11317.9 | 11393.9 | 11585.4 | 11387.3 | 10548.4 |
| 17.5° | 9120.1 | 9151.4 | 9242.2 | 9491.6 | 9878.0 | 10378.3 | 10951.3 | 11099.9 | 11385.6 | 11271.7 | 10345.3 |
| 20° | 8692.4 | 8697.3 | 8756.8 | 8931.8 | 9318.2 | 9878.0 | 10571.5 | 10784.5 | 11174.3 | 11172.6 | 10135.6 |
| 22.5° | 8481.0 | 8464.5 | 8476.1 | 8576.8 | 8860.8 | 9400.8 | 10191.7 | 10444.4 | 10984.4 | 11088.4 | 9922.6 |
| 25° | 8441.4 | 8428.2 | 8395.1 | 8408.3 | 8580.1 | 8983.0 | 9808.6 | 10100.9 | 10817.6 | 11037.2 | 9737.6 |
| 27.5° | 8565.2 | 8578.4 | 8522.3 | 8462.8 | 8476.1 | 8712.2 | 9468.5 | 9807.0 | 10682.2 | 11037.2 | 9607.2 |
| 30° | 8814.6 | 8821.2 | 8779.9 | 8702.3 | 8598.2 | 8636.2 | 9232.3 | 9570.9 | 10614.5 | 11113.2 | 9524.6 |
| 32.5° | 9090.3 | 9126.7 | 9121.7 | 9059.0 | 8910.3 | 8756.8 | 9176.2 | 9485.0 | 10609.5 | 11281.6 | 9516.4 |
| 35° | 9432.1 | 9473.4 | 9542.8 | 9529.6 | 9374.4 | 9121.7 | 9367.7 | 9610.5 | 10706.9 | 11559.0 | 9605.5 |
| 37.5° | 9795.4 | 9858.2 | 10006.8 | 10077.8 | 9977.1 | 9691.4 | 9797.1 | 9970.5 | 10967.8 | 12008.2 | 9831.8 |
| 40° | 10147.2 | 10218.2 | 10489.0 | 10768.0 | 10692.1 | 10398.1 | 10447.7 | 10586.4 | 11431.9 | 12653.8 | 10261.1 |
| 42.5° | 10492.3 | 10598.0 | 10995.9 | 11455.0 | 11545.8 | 11311.3 | 11337.7 | 11448.4 | 12120.4 | 13542.2 | 10962.9 |
| 45° | 10905.1 | 11024.0 | 11613.5 | 12179.9 | 12422.6 | 12320.2 | 12432.5 | 12505.2 | 13020.4 | 14716.3 | 11909.1 |
| 47.5° | 11511.1 | 11648.2 | 12371.4 | 13017.1 | 13443.1 | 13509.2 | 13735.4 | 13783.3 | 14158.1 | 16083.5 | 13142.6 |
| 50° | 12693.4 | 12731.4 | 13385.3 | 13971.5 | 14585.8 | 14982.1 | 15239.7 | 15276.0 | 15535.3 | 17577.9 | 14683.2 |
| 52.5° | 14181.2 | 14206.0 | 14575.9 | 14968.9 | 15667.4 | 16476.5 | 17079.3 | 17130.4 | 17184.9 | 19034.4 | 16204.1 |
| 55° | 15659.1 | 15655.8 | 15900.2 | 16131.4 | 16930.6 | 18106.4 | 19414.2 | 19445.5 | 19054.2 | 20416.5 | 17366.6 |
| 57.5° | 16582.2 | 16671.4 | 17042.9 | 17340.2 | 18456.4 | 19964.0 | 21778.8 | 21894.4 | 21017.6 | 21440.3 | 18515.9 |
| 60° | 16288.3 | 16331.2 | 17155.2 | 18255.0 | 20357.1 | 22604.5 | 24171.5 | 24201.2 | 22493.8 | 22462.4 | 19969.0 |
| 62.5° | 13877.4 | 13900.5 | 15195.1 | 17462.4 | 21319.8 | 26029.2 | 27058.0 | 26574.1 | 24191.3 | 23880.9 | 21707.8 |
| 65° | 9511.4 | 9661.7 | 10743.3 | 13545.5 | 19551.2 | 28177.5 | 31526.4 | 30725.5 | 26778.9 | 25925.2 | 23279.8 |
| 67.5° | 5601.2 | 5569.8 | 6104.8 | 8168.9 | 14359.6 | 26750.8 | 37178.7 | 36382.8 | 30307.7 | 27294.1 | 22819.1 |
| 70° | 3826.0 | 3804.6 | 4009.3 | 4945.6 | 8106.2 | 20751.7 | 38957.1 | 40563.8 | 33423.7 | 26372.7 | 19638.7 |
| 72.5° | 2731.2 | 2742.8 | 3045.0 | 3842.5 | 5089.3 | 12090.7 | 33501.3 | 37304.2 | 32447.8 | 22990.9 | 14927.6 |
| 75° | 1854.4 | 1885.8 | 2318.4 | 3152.3 | 4461.8 | 6151.0 | 23773.6 | 28357.5 | 26422.2 | 16709.4 | 8580.1 |
| 77.5° | 997.4 | 1032.1 | 1542.3 | 2539.7 | 4034.1 | 4273.5 | 15292.6 | 19516.6 | 16597.1 | 7511.7 | 2486.8 |
| 80° | 416.1 | 435.9 | 721.6 | 1846.1 | 3485.9 | 3753.4 | 8997.9 | 11834.8 | 7072.5 | 1481.2 | 554.8 |
| 82.5° | 180.0 | 189.9 | 300.5 | 1101.4 | 2605.7 | 3168.8 | 4764.0 | 5693.6 | 2143.4 | 325.3 | 279.1 |
| 85° | 34.7 | 36.3 | 123.8 | 582.9 | 1662.8 | 1788.3 | 3087.9 | 3026.8 | 962.7 | 140.4 | 203.1 |
| 87.5° | 0.0 | 0.0 | 29.7 | 183.3 | 488.8 | 974.3 | 1884.1 | 1861.0 | 327.0 | 67.7 | 76.0 |
| 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° | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 | 11730.7 |
| 2.5° | 11638.3 | 11524.3 | 11284.9 | 10989.3 | 10763.1 | 10513.7 | 10315.6 | 10064.6 | 9955.6 | 9960.6 | 9901.1 |
| 5° | 11377.4 | 11142.9 | 10612.8 | 9944.0 | 9428.8 | 8897.1 | 8439.7 | 7984.0 | 7714.8 | 7627.3 | 7544.7 |
| 7.5° | 11004.2 | 10632.6 | 9787.2 | 8756.8 | 7884.9 | 7032.8 | 6291.4 | 5639.1 | 5226.3 | 5024.9 | 4950.6 |
| 10° | 10583.1 | 10061.3 | 8837.7 | 7480.3 | 6235.3 | 5082.7 | 4121.6 | 3286.1 | 2952.5 | 2726.3 | 2668.5 |
| 12.5° | 10213.2 | 9506.5 | 7909.7 | 6170.9 | 4693.0 | 3302.6 | 2386.1 | 1866.0 | 1639.7 | 1550.6 | 1535.7 |
| 15° | 9864.8 | 8988.0 | 7016.3 | 4985.2 | 3249.7 | 2032.7 | 1517.5 | 1340.8 | 1288.0 | 1273.1 | 1273.1 |
| 17.5° | 9536.2 | 8494.2 | 6142.8 | 3817.8 | 2150.0 | 1425.1 | 1256.6 | 1217.0 | 1200.5 | 1198.8 | 1200.5 |
| 20° | 9192.7 | 8000.5 | 5284.1 | 2797.3 | 1501.0 | 1207.1 | 1160.9 | 1139.4 | 1134.4 | 1134.4 | 1134.4 |
| 22.5° | 8864.1 | 7506.7 | 4448.6 | 1998.1 | 1203.8 | 1101.4 | 1078.3 | 1063.4 | 1058.5 | 1056.8 | 1053.5 |
| 25° | 8548.7 | 7037.8 | 3632.8 | 1411.8 | 1056.8 | 1008.9 | 989.1 | 969.3 | 954.4 | 946.2 | 941.2 |
| 27.5° | 8289.5 | 6620.0 | 2873.2 | 1132.8 | 954.4 | 913.2 | 888.4 | 858.7 | 822.3 | 805.8 | 799.2 |
| 30° | 8083.0 | 6238.6 | 2214.4 | 956.1 | 858.7 | 817.4 | 779.4 | 728.2 | 675.4 | 647.3 | 645.7 |
| 32.5° | 7921.2 | 5863.7 | 1681.0 | 845.5 | 772.8 | 721.6 | 667.1 | 602.7 | 541.6 | 510.2 | 508.6 |
| 35° | 7842.0 | 5533.5 | 1284.7 | 764.5 | 696.8 | 632.4 | 564.7 | 493.7 | 434.3 | 404.6 | 401.3 |
| 37.5° | 7894.8 | 5254.4 | 1002.3 | 696.8 | 632.4 | 558.1 | 478.9 | 404.6 | 351.7 | 325.3 | 323.7 |
| 40° | 8088.0 | 5076.1 | 814.1 | 639.0 | 578.0 | 487.1 | 401.3 | 331.9 | 287.3 | 265.9 | 264.2 |
| 42.5° | 8499.2 | 5010.0 | 695.2 | 591.2 | 525.1 | 421.1 | 333.6 | 274.1 | 232.8 | 218.0 | 214.7 |
| 45° | 9186.1 | 5107.4 | 614.3 | 544.9 | 470.6 | 358.3 | 275.8 | 224.6 | 188.2 | 176.7 | 175.0 |
| 47.5° | 10100.9 | 5363.4 | 556.5 | 500.3 | 421.1 | 302.2 | 229.5 | 181.6 | 153.6 | 142.0 | 140.4 |
| 50° | 11279.9 | 5769.6 | 508.6 | 455.8 | 374.8 | 255.9 | 189.9 | 143.7 | 118.9 | 110.6 | 110.6 |
| 52.5° | 12563.0 | 6253.4 | 465.7 | 414.5 | 328.6 | 213.0 | 153.6 | 110.6 | 94.1 | 84.2 | 84.2 |
| 55° | 13623.1 | 6676.1 | 419.4 | 383.1 | 272.5 | 176.7 | 117.2 | 84.2 | 69.4 | 64.4 | 64.4 |
| 57.5° | 14681.6 | 7127.0 | 366.6 | 328.6 | 218.0 | 143.7 | 89.2 | 62.7 | 51.2 | 47.9 | 47.9 |
| 60° | 16053.8 | 7678.5 | 315.4 | 267.5 | 171.7 | 109.0 | 66.1 | 44.6 | 38.0 | 36.3 | 36.3 |
| 62.5° | 17563.1 | 8002.1 | 269.2 | 214.7 | 133.8 | 80.9 | 47.9 | 29.7 | 28.1 | 28.1 | 26.4 |
| 65° | 18486.1 | 7544.7 | 226.2 | 171.7 | 104.0 | 61.1 | 31.4 | 21.5 | 24.8 | 23.1 | 19.8 |
| 67.5° | 17308.8 | 5906.7 | 184.9 | 133.8 | 80.9 | 46.2 | 19.8 | 14.9 | 26.4 | 21.5 | 16.5 |
| 70° | 14331.5 | 4134.8 | 143.7 | 94.1 | 64.4 | 39.6 | 13.2 | 9.9 | 28.1 | 21.5 | 13.2 |
| 72.5° | 10725.1 | 2767.6 | 113.9 | 62.7 | 47.9 | 34.7 | 11.6 | 5.0 | 24.8 | 18.2 | 11.6 |
| 75° | 5860.4 | 1114.6 | 90.8 | 39.6 | 29.7 | 24.8 | 8.3 | 3.3 | 16.5 | 13.2 | 8.3 |
| 77.5° | 1542.3 | 293.9 | 66.1 | 26.4 | 16.5 | 9.9 | 5.0 | 1.7 | 8.3 | 6.6 | 3.3 |
| 80° | 393.0 | 113.9 | 42.9 | 18.2 | 11.6 | 5.0 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 |
| 82.5° | 209.7 | 47.9 | 26.4 | 13.2 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 158.5 | 31.4 | 14.9 | 8.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 61.1 | 9.9 | 5.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)