

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: P654092

Luminaire Tested: **GLAN-SA9A-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34803.1 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

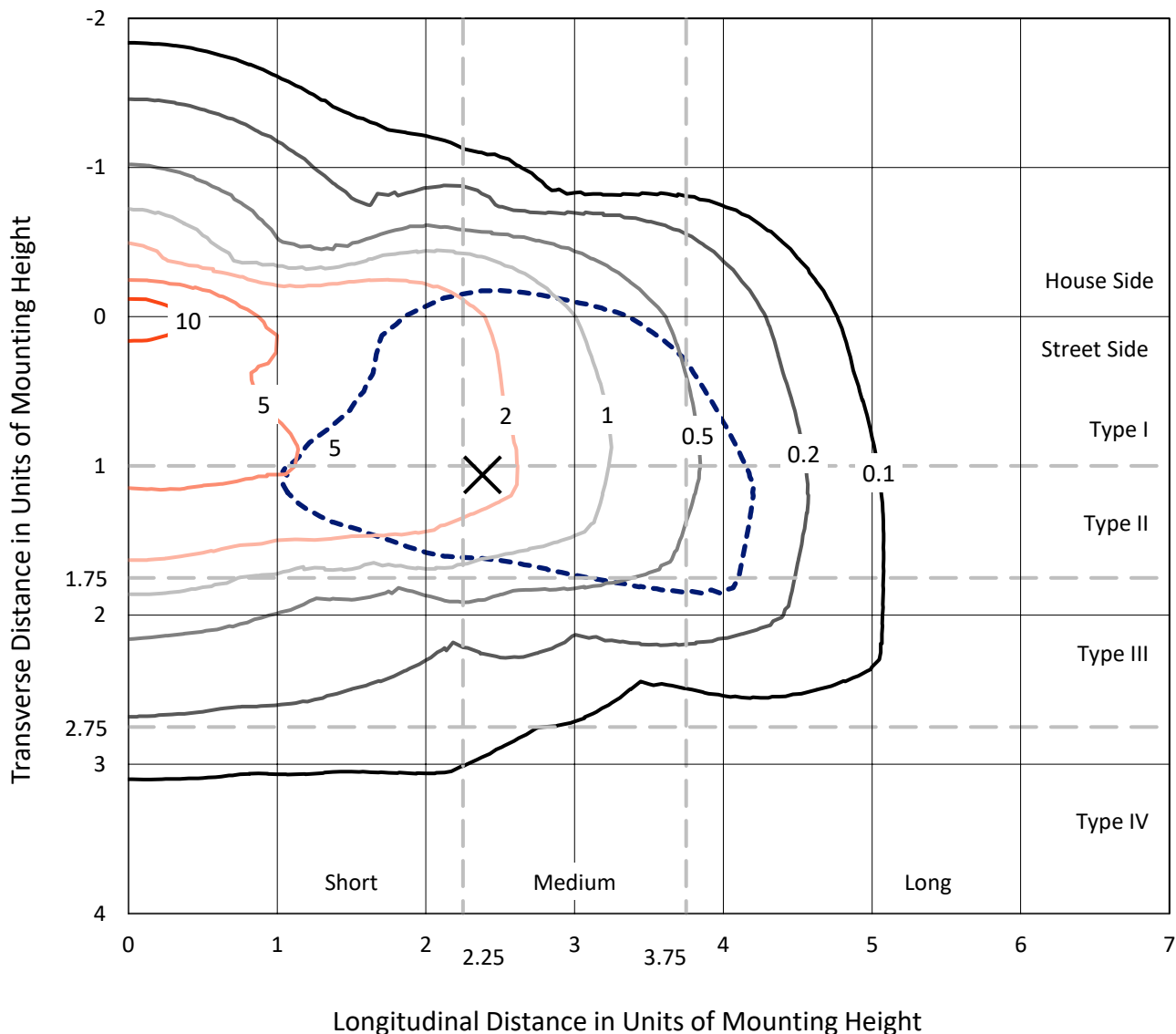
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

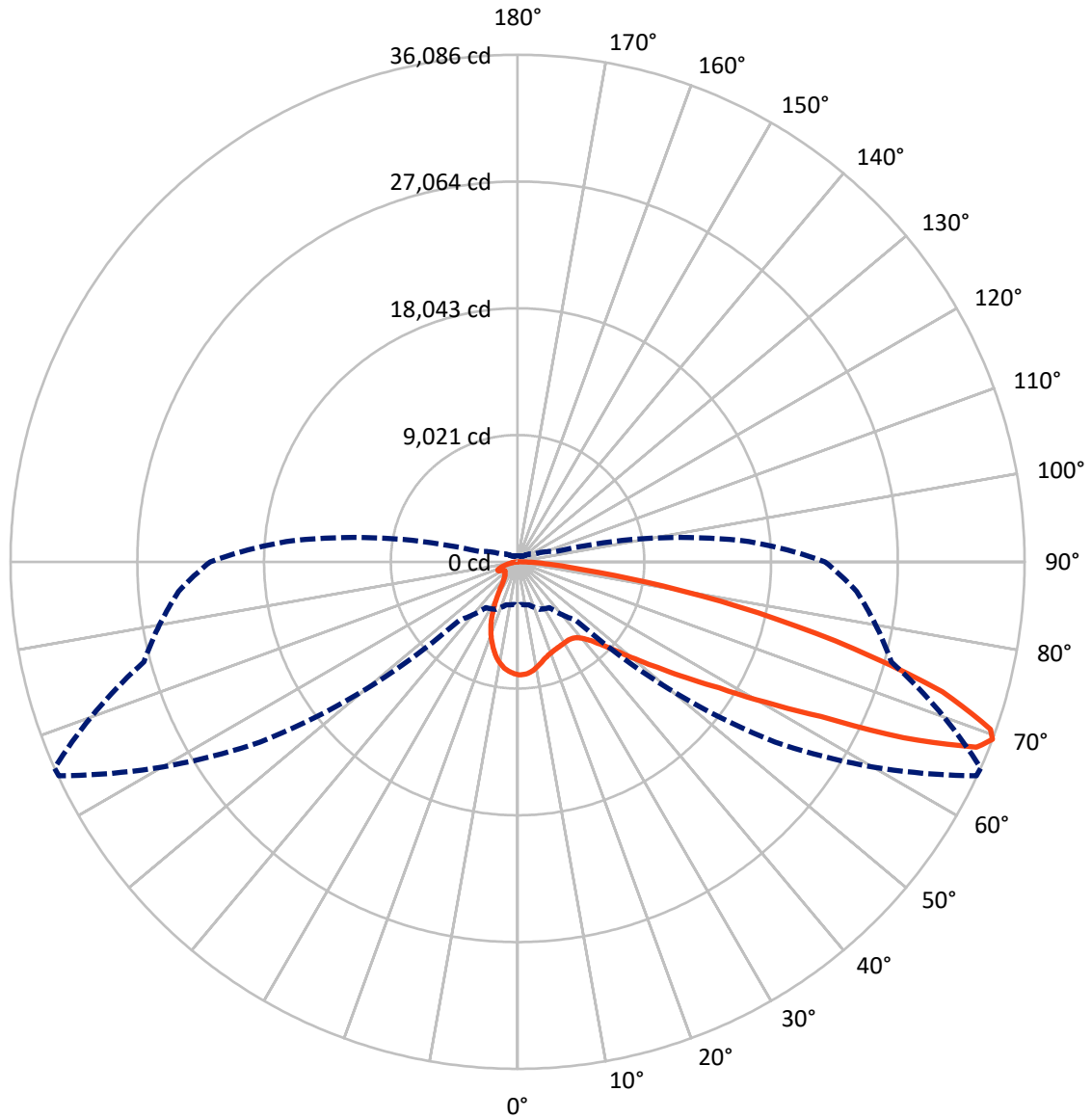
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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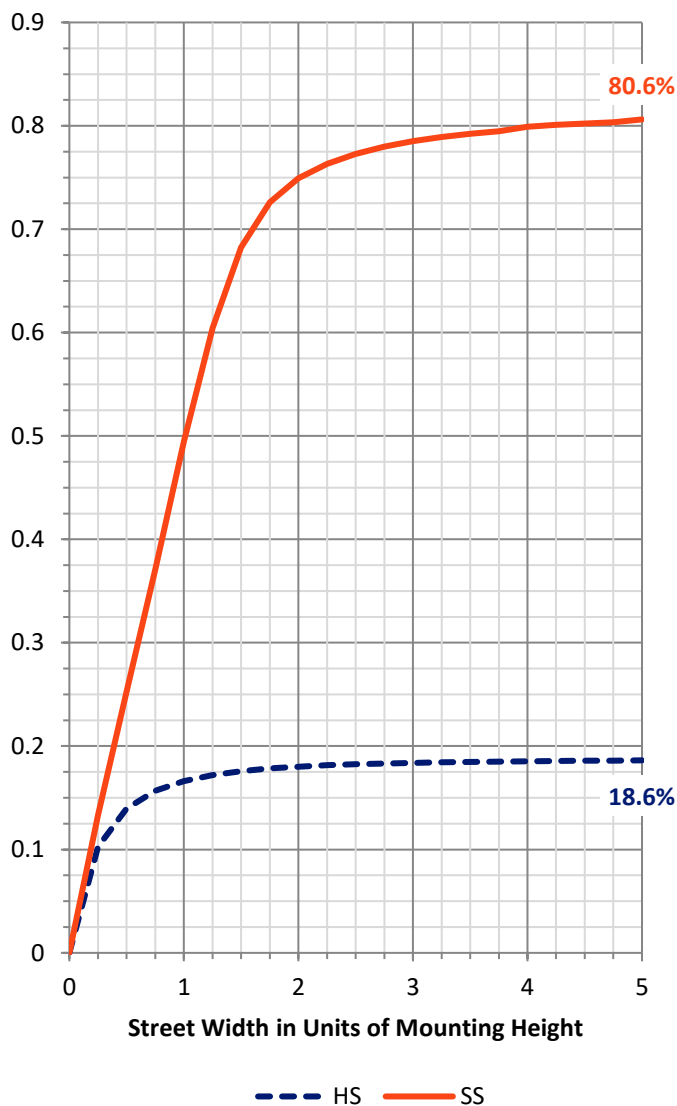
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6545.2 | 0.0 | 6545.2 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 28258.0 | 0.0 | 28258.0 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 34803.1 | 0.0 | 34803.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 697.9 | 2.0 |
| 10°-20° | 1655.4 | 4.8 |
| 20°-30° | 2253.6 | 6.5 |
| 30°-40° | 3028.4 | 8.7 |
| 40°-50° | 4521.9 | 13.0 |
| 50°-60° | 7192.8 | 20.7 |
| 60°-70° | 8846.8 | 25.4 |
| 70°-80° | 5756.1 | 16.5 |
| 80°-90° | 850.0 | 2.4 |
| 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° | 34803.1 | 100.0 |
| 0°-180° | 34803.1 | 100.0 |

Coefficient of Utilization

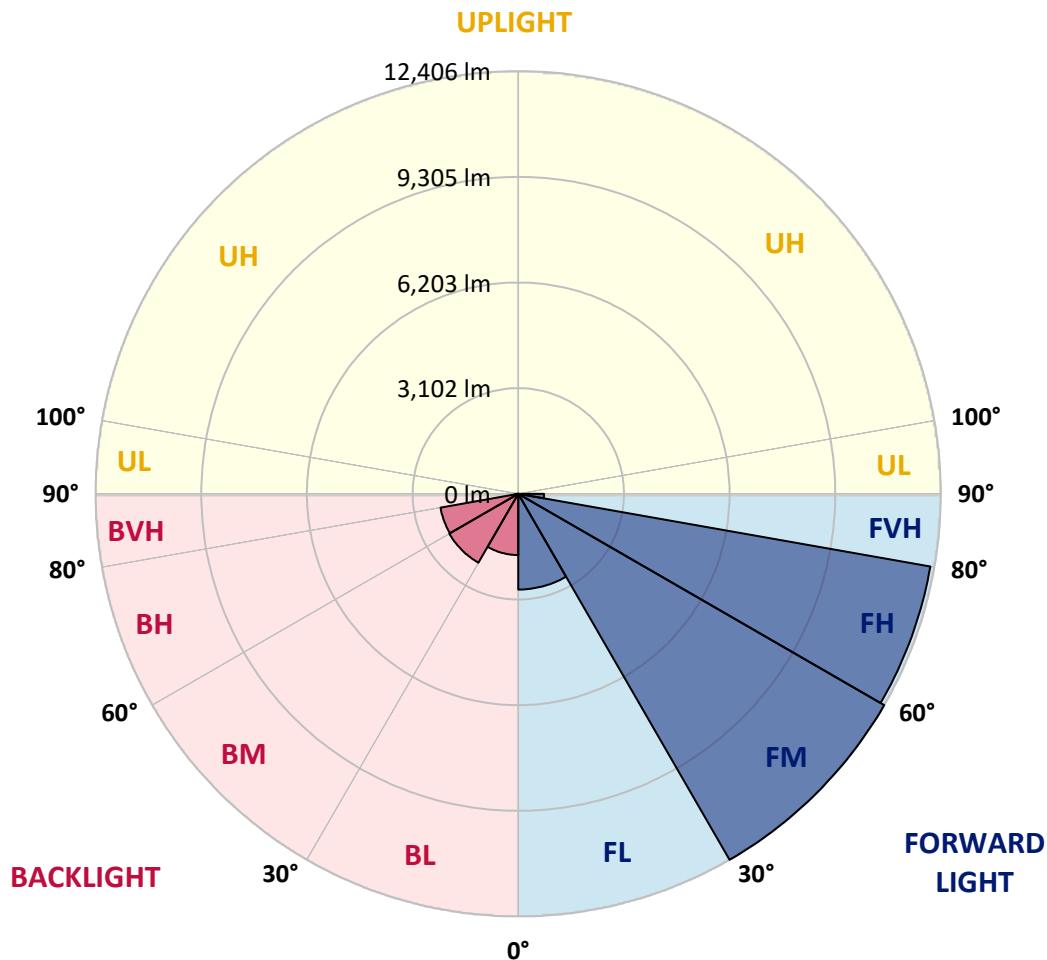


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2810.3 | 8.1 | | | |
| FM (30°-60°) | 12406.3 | 35.6 | | | |
| FH (60°-80°) | 12285.7 | 35.3 | | | G5 |
| FVH (80°-90°) | 755.7 | 2.2 | | | G5 |
| BL (0°-30°) | 1796.7 | 5.2 | B3/2500 | | |
| BM (30°-60°) | 2336.9 | 6.7 | B2/2500 | | |
| BH (60°-80°) | 2317.3 | 6.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 94.3 | 0.3 | | | 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° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 |
| 2.5° | 7755.6 | 7786.5 | 7821.1 | 7859.6 | 7932.9 | 7973.4 | 8002.3 | 8035.1 | 8039.0 | 8056.3 | 8042.8 |
| 5° | 7183.2 | 7219.8 | 7271.9 | 7345.1 | 7455.0 | 7626.4 | 7803.8 | 7948.4 | 7965.7 | 8046.6 | 8069.7 |
| 7.5° | 6705.2 | 6726.4 | 6768.8 | 6886.4 | 7042.5 | 7233.3 | 7491.5 | 7784.5 | 7826.9 | 8019.7 | 8087.1 |
| 10° | 6315.9 | 6337.1 | 6387.2 | 6508.6 | 6662.8 | 6901.8 | 7185.1 | 7570.6 | 7605.2 | 7936.8 | 8091.0 |
| 12.5° | 6024.8 | 6044.1 | 6098.1 | 6217.6 | 6394.9 | 6618.5 | 6930.7 | 7339.3 | 7389.4 | 7826.9 | 8054.3 |
| 15° | 5803.2 | 5839.8 | 5884.1 | 5982.5 | 6169.4 | 6385.3 | 6687.9 | 7127.3 | 7167.8 | 7711.3 | 8029.3 |
| 17.5° | 5708.8 | 5726.1 | 5757.0 | 5847.6 | 5984.4 | 6196.4 | 6500.9 | 6961.5 | 7009.7 | 7630.3 | 8023.5 |
| 20° | 5712.7 | 5730.0 | 5735.8 | 5785.9 | 5884.1 | 6067.2 | 6368.0 | 6830.5 | 6888.3 | 7559.0 | 8033.1 |
| 22.5° | 5843.7 | 5845.6 | 5824.4 | 5807.1 | 5845.6 | 5997.8 | 6273.5 | 6732.2 | 6799.7 | 7528.2 | 8040.9 |
| 25° | 6046.0 | 6080.8 | 6049.9 | 5969.0 | 5897.7 | 5970.9 | 6236.9 | 6678.2 | 6741.8 | 7483.9 | 8031.2 |
| 27.5° | 6373.7 | 6379.5 | 6354.4 | 6244.6 | 6059.6 | 6005.6 | 6221.5 | 6637.8 | 6691.8 | 7451.1 | 7983.0 |
| 30° | 6813.1 | 6795.8 | 6772.7 | 6651.2 | 6360.2 | 6138.5 | 6254.2 | 6601.2 | 6657.0 | 7402.9 | 7925.2 |
| 32.5° | 7258.3 | 7312.3 | 7291.1 | 7148.5 | 6770.7 | 6396.8 | 6360.2 | 6597.3 | 6643.6 | 7366.3 | 7861.6 |
| 35° | 7730.6 | 7755.6 | 7855.9 | 7782.6 | 7395.2 | 6815.0 | 6558.7 | 6657.0 | 6693.7 | 7368.3 | 7817.3 |
| 37.5° | 8100.6 | 8168.0 | 8403.2 | 8466.8 | 8102.5 | 7368.3 | 6880.6 | 6826.6 | 6842.0 | 7462.7 | 7834.7 |
| 40° | 8547.8 | 8663.4 | 8966.0 | 9226.2 | 8987.2 | 8087.1 | 7428.0 | 7140.8 | 7160.1 | 7690.1 | 7948.4 |
| 42.5° | 9114.4 | 9195.3 | 9602.0 | 9954.7 | 9916.1 | 9037.3 | 8091.0 | 7655.4 | 7665.0 | 8143.0 | 8266.4 |
| 45° | 9777.4 | 9893.0 | 10349.9 | 10879.8 | 10970.4 | 10112.8 | 9048.8 | 8434.1 | 8428.2 | 8846.5 | 8860.0 |
| 47.5° | 10625.4 | 10696.8 | 11149.6 | 11727.8 | 12094.1 | 11463.8 | 10211.0 | 9551.9 | 9490.2 | 9871.8 | 9762.0 |
| 50° | 11406.0 | 11517.7 | 11860.9 | 12493.0 | 13404.6 | 13046.2 | 11739.4 | 11001.3 | 10856.7 | 11213.2 | 11028.2 |
| 52.5° | 11733.6 | 11851.2 | 12140.3 | 12924.7 | 14528.3 | 15093.0 | 13680.2 | 12730.0 | 12489.2 | 12762.8 | 12695.4 |
| 55° | 11165.1 | 11317.3 | 11587.1 | 12541.2 | 15021.7 | 17453.9 | 16297.6 | 14728.7 | 14553.3 | 14435.8 | 14455.0 |
| 57.5° | 9636.7 | 9781.3 | 10145.5 | 11197.8 | 14431.9 | 19167.4 | 20034.7 | 17297.9 | 16922.0 | 16380.5 | 16473.0 |
| 60° | 7335.5 | 7426.0 | 7614.9 | 8781.0 | 12683.8 | 19612.6 | 24278.7 | 20545.5 | 20306.4 | 18317.4 | 18383.0 |
| 62.5° | 5209.6 | 5311.8 | 5442.8 | 6024.8 | 9285.9 | 18357.9 | 27601.5 | 25080.5 | 24226.7 | 20323.8 | 20260.2 |
| 65° | 4230.5 | 4161.1 | 4319.2 | 4590.9 | 5448.6 | 14227.6 | 28349.3 | 31375.2 | 30199.5 | 22966.2 | 22083.5 |
| 67.5° | 3478.9 | 3405.6 | 3561.7 | 4045.5 | 4143.8 | 8258.6 | 25654.8 | 35461.1 | 35226.0 | 25839.8 | 23935.6 |
| 69° | 3079.9 | 3041.3 | 3178.2 | 3729.4 | 3978.0 | 5864.9 | 22349.4 | 36029.7 | 36085.5 | 27534.0 | 24220.9 |
| 70° | 2775.4 | 2790.8 | 2923.7 | 3569.5 | 3902.8 | 4835.7 | 19101.9 | 35245.2 | 35719.4 | 28380.0 | 23912.5 |
| 72.5° | 2043.0 | 2075.8 | 2260.8 | 2956.5 | 3831.5 | 4103.3 | 11367.5 | 30785.4 | 31623.8 | 28430.2 | 21875.3 |
| 75° | 1428.2 | 1412.7 | 1576.5 | 2226.0 | 3619.6 | 4066.7 | 6676.3 | 23808.5 | 24758.6 | 24573.6 | 18381.1 |
| 77.5° | 934.8 | 959.8 | 1090.9 | 1572.7 | 3045.2 | 4035.9 | 4351.9 | 16891.2 | 17507.9 | 16434.4 | 10872.1 |
| 80° | 659.2 | 657.2 | 730.5 | 1073.5 | 2258.8 | 3877.8 | 3563.7 | 10646.6 | 10490.5 | 6458.5 | 3224.5 |
| 82.5° | 377.8 | 404.8 | 489.5 | 755.6 | 1511.0 | 3413.3 | 3278.4 | 5092.0 | 4648.7 | 1840.6 | 1088.9 |
| 85° | 210.1 | 219.8 | 291.1 | 456.7 | 882.7 | 2571.1 | 2862.1 | 2316.7 | 2185.6 | 769.0 | 468.4 |
| 87.5° | 67.4 | 73.3 | 121.4 | 231.3 | 400.9 | 1214.2 | 1620.9 | 1069.7 | 986.8 | 277.5 | 188.9 |
| 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° | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 | 8037.0 |
| 2.5° | 8048.5 | 8071.7 | 8010.0 | 7950.3 | 7896.3 | 7821.1 | 7753.7 | 7697.8 | 7659.2 | 7653.4 | 7634.2 |
| 5° | 8075.5 | 8077.5 | 7959.9 | 7801.9 | 7647.7 | 7478.1 | 7302.7 | 7177.4 | 7059.9 | 6994.3 | 6961.5 |
| 7.5° | 8094.8 | 8077.5 | 7865.5 | 7609.1 | 7312.3 | 7003.9 | 6695.5 | 6448.9 | 6258.0 | 6182.9 | 6211.8 |
| 10° | 8087.1 | 8033.1 | 7722.8 | 7312.3 | 6880.6 | 6419.9 | 5976.7 | 5629.7 | 5311.8 | 5147.9 | 5151.8 |
| 12.5° | 8044.8 | 7956.0 | 7510.8 | 6978.9 | 6344.8 | 5728.1 | 5049.6 | 4581.3 | 4213.2 | 3995.3 | 3927.9 |
| 15° | 8008.1 | 7853.9 | 7262.2 | 6526.0 | 5737.7 | 4856.9 | 4030.1 | 3451.9 | 3143.5 | 2971.9 | 2970.0 |
| 17.5° | 7969.6 | 7755.6 | 6990.5 | 6046.0 | 5040.0 | 3906.7 | 3039.4 | 2598.0 | 2453.5 | 2470.9 | 2441.9 |
| 20° | 7929.0 | 7640.0 | 6707.1 | 5512.2 | 4190.0 | 2914.1 | 2276.2 | 2096.9 | 2137.4 | 2216.5 | 2228.0 |
| 22.5° | 7882.8 | 7516.6 | 6402.6 | 4924.4 | 3295.7 | 2193.3 | 1846.4 | 1819.4 | 1923.5 | 2046.8 | 2064.2 |
| 25° | 7811.5 | 7362.5 | 6019.1 | 4309.5 | 2542.2 | 1767.4 | 1617.1 | 1636.3 | 1738.4 | 1842.5 | 1854.1 |
| 27.5° | 7711.3 | 7171.6 | 5631.7 | 3542.5 | 1910.0 | 1516.8 | 1478.3 | 1503.3 | 1553.4 | 1617.1 | 1632.5 |
| 30° | 7576.4 | 6955.7 | 5186.4 | 2879.4 | 1530.3 | 1391.5 | 1376.1 | 1389.6 | 1418.5 | 1445.5 | 1453.2 |
| 32.5° | 7441.4 | 6747.6 | 4737.4 | 2204.8 | 1364.5 | 1308.7 | 1293.2 | 1293.2 | 1293.2 | 1297.1 | 1299.0 |
| 35° | 7316.2 | 6551.1 | 4255.5 | 1717.2 | 1277.8 | 1243.2 | 1222.0 | 1198.8 | 1195.0 | 1181.4 | 1181.4 |
| 37.5° | 7246.8 | 6371.8 | 3742.9 | 1437.8 | 1214.2 | 1189.2 | 1160.2 | 1121.7 | 1100.5 | 1102.5 | 1098.6 |
| 40° | 7260.3 | 6254.2 | 3276.5 | 1279.7 | 1162.2 | 1135.2 | 1090.9 | 1046.5 | 1033.1 | 1033.1 | 1029.2 |
| 42.5° | 7412.6 | 6215.7 | 2829.3 | 1196.9 | 1112.1 | 1081.3 | 1025.3 | 984.9 | 977.2 | 975.2 | 979.1 |
| 45° | 7763.4 | 6310.1 | 2428.5 | 1142.9 | 1069.7 | 1023.4 | 967.5 | 930.9 | 923.2 | 923.2 | 921.2 |
| 47.5° | 8447.5 | 6616.6 | 2141.3 | 1108.2 | 1038.8 | 979.1 | 921.2 | 884.6 | 871.2 | 867.3 | 867.3 |
| 50° | 9511.5 | 7281.5 | 1927.3 | 1077.4 | 1000.3 | 938.6 | 878.8 | 836.5 | 815.3 | 813.3 | 811.4 |
| 52.5° | 10989.7 | 8318.4 | 1844.5 | 1054.3 | 957.9 | 896.3 | 830.7 | 790.2 | 763.2 | 757.4 | 753.6 |
| 55° | 12718.5 | 9765.9 | 1958.2 | 1036.9 | 913.6 | 848.1 | 780.5 | 738.1 | 713.1 | 701.6 | 699.6 |
| 57.5° | 14721.0 | 11504.3 | 2389.9 | 1013.7 | 873.1 | 796.0 | 730.5 | 688.0 | 661.1 | 647.6 | 643.7 |
| 60° | 16519.3 | 13290.9 | 3143.5 | 1000.3 | 838.4 | 740.1 | 672.6 | 634.1 | 609.1 | 595.5 | 593.7 |
| 62.5° | 18494.8 | 14994.7 | 4043.5 | 1036.9 | 823.0 | 686.2 | 618.6 | 584.0 | 562.8 | 549.3 | 549.3 |
| 65° | 20605.2 | 16700.4 | 4639.1 | 1160.2 | 846.1 | 643.7 | 560.9 | 531.9 | 512.7 | 503.0 | 501.1 |
| 67.5° | 22027.6 | 17290.1 | 3821.9 | 1287.5 | 903.9 | 597.4 | 504.9 | 481.8 | 470.3 | 460.6 | 460.6 |
| 69° | 21873.4 | 16544.2 | 2819.7 | 1320.2 | 921.2 | 574.3 | 474.2 | 456.7 | 441.4 | 437.5 | 433.6 |
| 70° | 21385.8 | 15694.3 | 2363.0 | 1299.0 | 907.8 | 553.1 | 454.8 | 433.6 | 420.2 | 416.3 | 414.4 |
| 72.5° | 19047.9 | 13610.8 | 1759.6 | 1129.4 | 772.9 | 479.9 | 402.8 | 383.6 | 372.0 | 366.2 | 366.2 |
| 75° | 15825.3 | 11124.6 | 1374.2 | 898.1 | 605.2 | 404.8 | 345.0 | 329.6 | 319.9 | 316.0 | 314.2 |
| 77.5° | 8869.6 | 6211.8 | 986.8 | 703.5 | 458.7 | 327.7 | 289.1 | 275.6 | 266.0 | 262.1 | 262.1 |
| 80° | 2470.9 | 1775.1 | 580.1 | 464.5 | 312.3 | 248.6 | 229.3 | 219.8 | 206.2 | 196.6 | 202.3 |
| 82.5° | 930.9 | 769.0 | 331.5 | 279.5 | 198.5 | 165.8 | 160.0 | 152.2 | 146.5 | 133.0 | 133.0 |
| 85° | 453.0 | 373.9 | 212.0 | 148.4 | 109.8 | 86.7 | 82.8 | 79.1 | 75.2 | 65.5 | 67.4 |
| 87.5° | 156.1 | 165.8 | 92.5 | 54.0 | 32.8 | 21.2 | 17.3 | 9.7 | 9.7 | 9.7 | 9.7 |
| 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)