

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: P457725

Luminaire Tested: **GLAN-SA9A-750-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42425 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

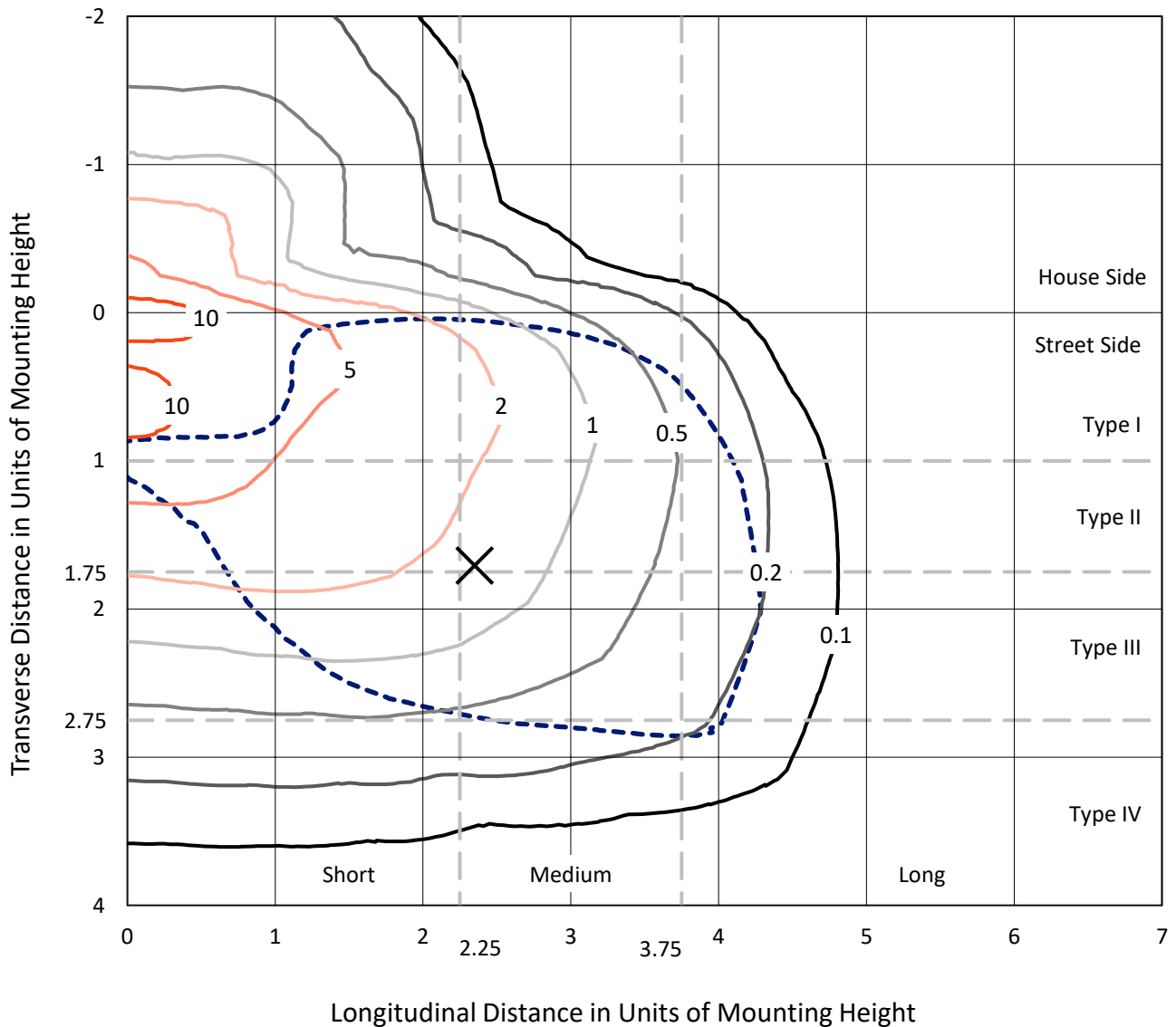
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

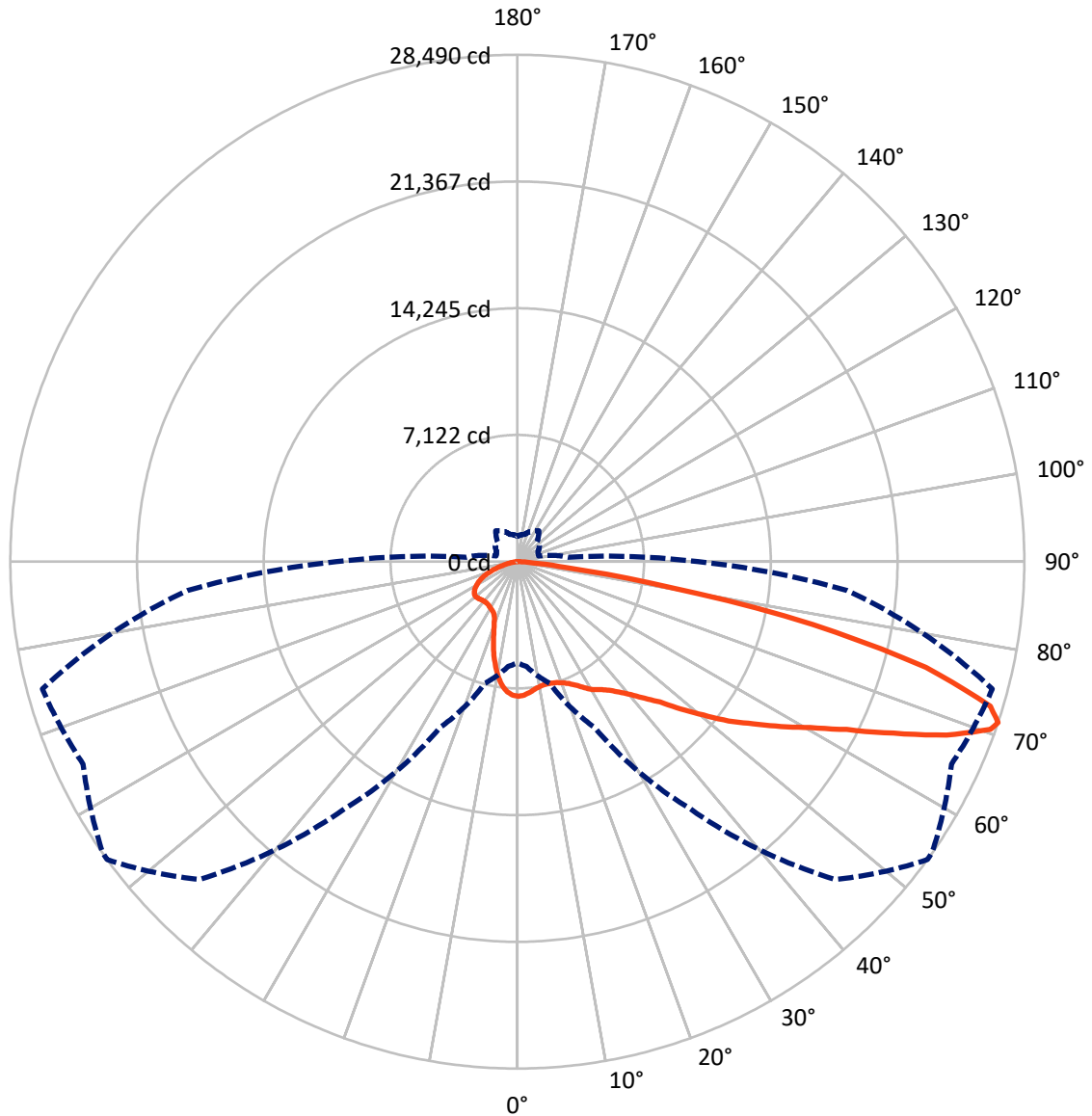
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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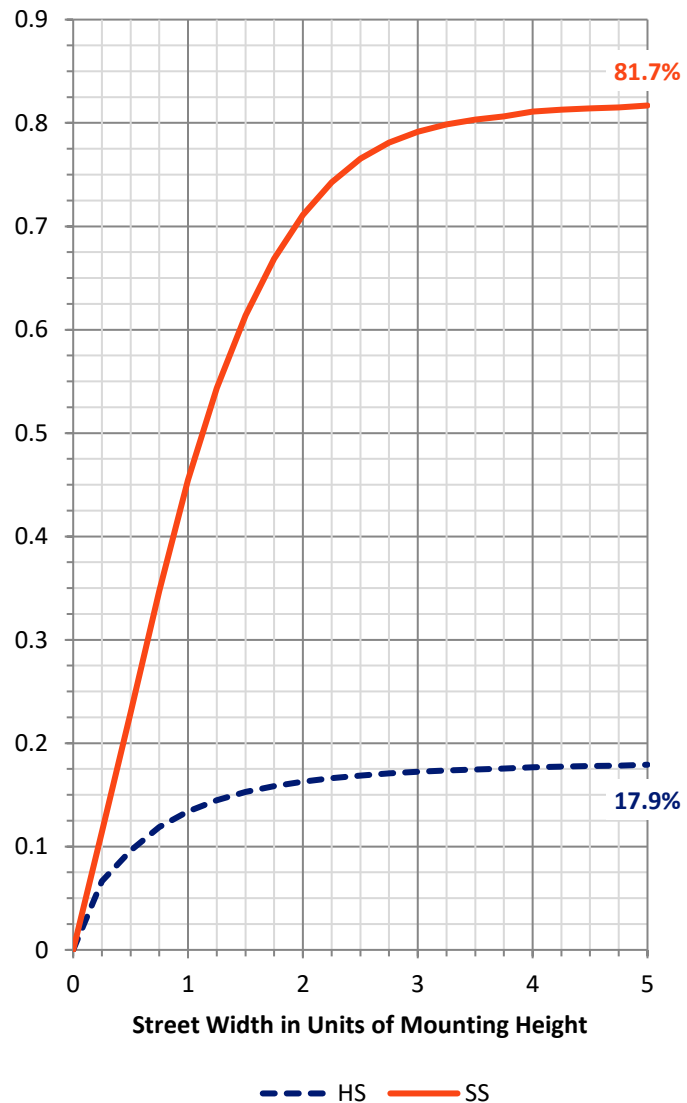
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7659.6 | 0.0 | 7659.6 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 34765.4 | 0.0 | 34765.4 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 42425.0 | 0.0 | 42425.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 674.5 | 1.6 |
| 10°-20° | 1781.1 | 4.2 |
| 20°-30° | 2965.6 | 7.0 |
| 30°-40° | 4385.2 | 10.3 |
| 40°-50° | 6176.7 | 14.6 |
| 50°-60° | 8270.9 | 19.5 |
| 60°-70° | 10424.8 | 24.6 |
| 70°-80° | 7120.1 | 16.8 |
| 80°-90° | 626.2 | 1.5 |
| 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° | 42425.0 | 100.0 |
| 0°-180° | 42425.0 | 100.0 |



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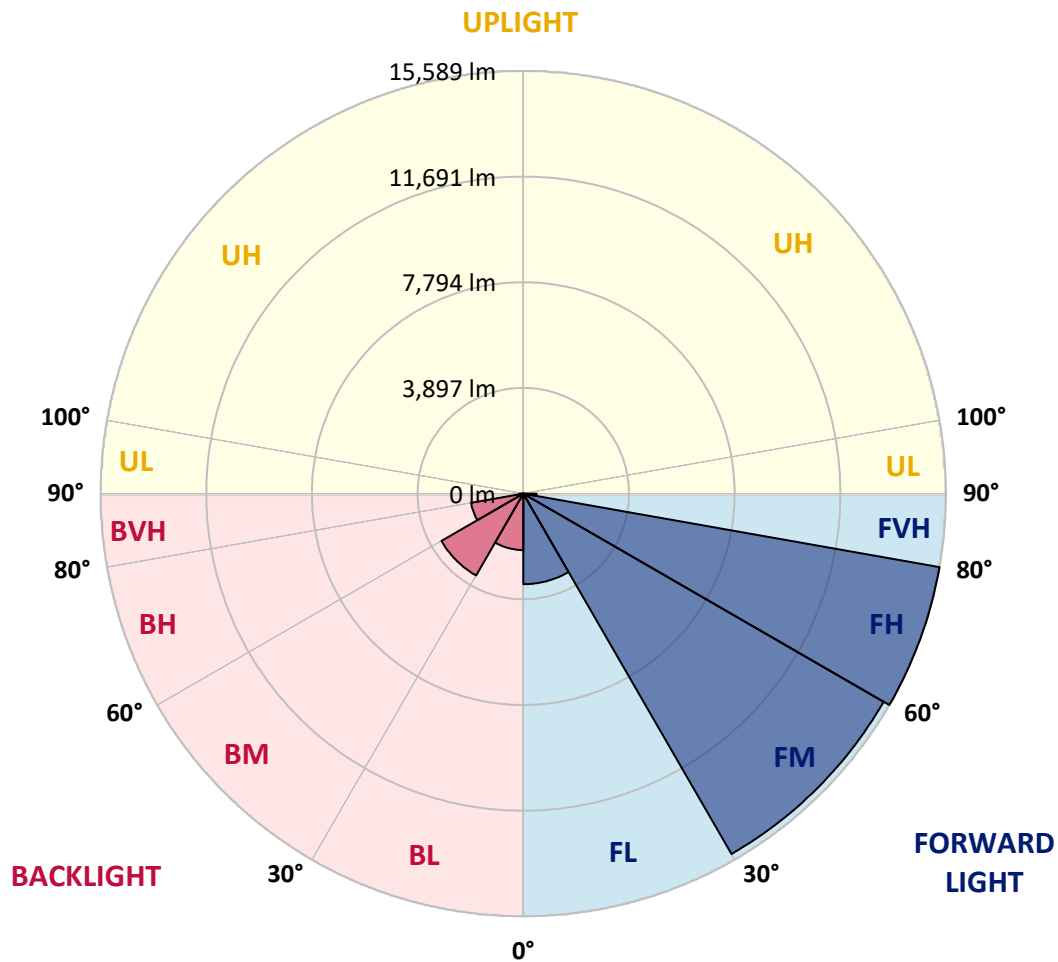
CATALOG NUMBER: GLAN-SA9A-750-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3339.5 | 7.9 | | | |
| FM | (30°-60°) | 15347.8 | 36.2 | | | |
| FH | (60°-80°) | 15588.6 | 36.7 | | | G5 |
| FVH | (80°-90°) | 489.4 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 2081.7 | 4.9 | B3/2500 | | |
| BM | (30°-60°) | 3484.9 | 8.2 | B3/5000 | | |
| BH | (60°-80°) | 1956.2 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 136.7 | 0.3 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 |
| 2.5° | 7312.6 | 7347.0 | 7356.1 | 7379.0 | 7427.2 | 7466.1 | 7505.1 | 7500.5 | 7555.5 | 7578.4 | 7599.0 |
| 5° | 6987.2 | 6996.3 | 7030.7 | 7076.5 | 7161.3 | 7269.0 | 7374.5 | 7376.8 | 7512.0 | 7619.7 | 7672.4 |
| 7.5° | 6748.8 | 6778.6 | 6801.6 | 6849.7 | 6939.1 | 7055.9 | 7223.2 | 7237.0 | 7477.6 | 7690.7 | 7803.0 |
| 10° | 6593.0 | 6627.4 | 6652.6 | 6712.2 | 6801.6 | 6932.2 | 7113.2 | 7138.4 | 7452.4 | 7803.0 | 8000.1 |
| 12.5° | 6450.9 | 6485.3 | 6508.2 | 6586.1 | 6703.0 | 6863.4 | 7067.4 | 7097.2 | 7461.5 | 7933.6 | 8215.5 |
| 15° | 6538.0 | 6565.5 | 6556.3 | 6579.3 | 6657.2 | 6840.5 | 7085.7 | 7115.5 | 7495.9 | 8059.7 | 8428.6 |
| 17.5° | 6925.3 | 6948.2 | 6872.6 | 6785.5 | 6748.8 | 6884.1 | 7143.0 | 7175.1 | 7564.7 | 8190.3 | 8646.3 |
| 20° | 7495.9 | 7557.8 | 7392.8 | 7198.0 | 7021.5 | 7039.9 | 7262.2 | 7296.5 | 7660.9 | 8320.9 | 8868.6 |
| 22.5° | 8238.4 | 8284.2 | 8082.6 | 7761.7 | 7436.3 | 7269.0 | 7440.9 | 7461.5 | 7805.3 | 8490.5 | 9111.5 |
| 25° | 9111.5 | 9139.0 | 8859.4 | 8446.9 | 7977.2 | 7660.9 | 7686.1 | 7722.8 | 8043.6 | 8683.0 | 9326.9 |
| 27.5° | 9959.4 | 10046.5 | 9723.4 | 9219.2 | 8600.5 | 8073.4 | 8023.0 | 8045.9 | 8302.6 | 8790.7 | 9475.9 |
| 30° | 10965.4 | 10958.6 | 10617.1 | 10032.7 | 9239.8 | 8522.6 | 8341.5 | 8336.9 | 8442.4 | 8843.4 | 9583.6 |
| 32.5° | 11767.5 | 11861.5 | 11526.9 | 10889.8 | 9970.9 | 8987.8 | 8561.5 | 8552.4 | 8550.1 | 8935.1 | 9744.0 |
| 35° | 12679.6 | 12693.3 | 12386.3 | 11744.6 | 10761.5 | 9572.1 | 8868.6 | 8822.8 | 8770.1 | 9132.1 | 9961.7 |
| 37.5° | 13495.4 | 13559.6 | 13277.7 | 12558.1 | 11538.3 | 10179.4 | 9290.3 | 9260.5 | 9100.1 | 9473.6 | 10310.0 |
| 40° | 14132.5 | 14180.6 | 14011.0 | 13325.8 | 12303.8 | 10834.8 | 9826.5 | 9771.5 | 9576.7 | 10032.7 | 10775.2 |
| 42.5° | 14341.0 | 14439.5 | 14506.0 | 14169.1 | 13183.7 | 11611.7 | 10486.5 | 10417.7 | 10268.8 | 10880.7 | 11311.5 |
| 45° | 14357.1 | 14512.9 | 14863.5 | 14879.5 | 14068.3 | 12542.1 | 11256.5 | 11208.4 | 11196.9 | 11966.9 | 12065.4 |
| 47.5° | 14235.6 | 14393.7 | 14982.7 | 15301.2 | 14856.6 | 13481.6 | 12367.9 | 12292.3 | 12299.2 | 13309.8 | 12911.0 |
| 50° | 13942.3 | 14130.2 | 14845.2 | 15571.6 | 15473.1 | 14457.9 | 13541.2 | 13516.0 | 13658.1 | 14842.9 | 13788.7 |
| 52.5° | 13390.0 | 13616.9 | 14703.1 | 15741.2 | 15931.4 | 15298.9 | 14875.0 | 14803.9 | 15163.7 | 16506.6 | 14748.9 |
| 55° | 11861.5 | 12202.9 | 14182.9 | 15835.2 | 16366.8 | 16103.3 | 16075.8 | 16204.1 | 16680.8 | 18321.6 | 15805.4 |
| 57.5° | 11064.0 | 11320.6 | 13053.1 | 15851.2 | 16916.8 | 17038.3 | 17478.2 | 17510.3 | 18344.5 | 20248.8 | 16999.3 |
| 60° | 10628.6 | 10855.4 | 12434.4 | 15745.8 | 17684.5 | 18195.5 | 18912.8 | 19027.4 | 19969.2 | 22336.5 | 18236.8 |
| 62.5° | 10248.2 | 10443.0 | 12063.1 | 15381.4 | 18550.7 | 19912.0 | 20771.3 | 20826.3 | 21814.0 | 24641.9 | 19458.2 |
| 65° | 9352.1 | 9574.4 | 11316.1 | 15017.0 | 19297.8 | 22056.9 | 23237.1 | 23172.9 | 23777.9 | 26631.0 | 20223.6 |
| 67.5° | 8144.4 | 8426.3 | 9920.5 | 13758.9 | 19666.8 | 24401.3 | 26014.6 | 25934.4 | 25716.7 | 27934.9 | 20443.6 |
| 70° | 6602.2 | 6753.4 | 8135.3 | 11584.2 | 18193.2 | 25631.9 | 28207.7 | 28122.9 | 26917.5 | 28106.8 | 19403.2 |
| 71° | 5680.9 | 5917.0 | 7083.4 | 10289.4 | 16967.2 | 25256.0 | 28489.5 | 28466.6 | 26919.8 | 27632.5 | 18619.5 |
| 72.5° | 4434.3 | 4578.7 | 5609.9 | 7972.6 | 14421.2 | 23120.2 | 27792.9 | 27879.9 | 26335.4 | 26314.8 | 17003.9 |
| 75° | 2805.0 | 2869.1 | 3519.9 | 4693.3 | 7913.0 | 16373.7 | 23725.2 | 23961.3 | 23383.8 | 21539.0 | 12645.2 |
| 77.5° | 1629.3 | 1711.8 | 2108.3 | 2766.0 | 3419.1 | 8886.9 | 16976.4 | 17233.0 | 16247.6 | 11859.2 | 5176.8 |
| 80° | 948.7 | 1040.4 | 1388.7 | 1606.4 | 1569.8 | 3297.7 | 8644.0 | 9081.7 | 7035.3 | 2995.2 | 1452.9 |
| 82.5° | 527.1 | 588.9 | 976.2 | 978.5 | 836.4 | 1077.1 | 2720.2 | 2846.2 | 2007.5 | 1207.7 | 593.5 |
| 85° | 382.7 | 433.1 | 630.2 | 570.6 | 401.0 | 462.9 | 946.4 | 992.3 | 811.2 | 508.7 | 192.5 |
| 87.5° | 135.2 | 192.5 | 346.0 | 275.0 | 110.0 | 96.2 | 272.7 | 222.3 | 206.2 | 142.1 | 43.5 |
| 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° | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 | 7569.2 |
| 2.5° | 7610.5 | 7615.1 | 7592.2 | 7550.9 | 7509.7 | 7457.0 | 7397.4 | 7351.5 | 7330.9 | 7328.6 | 7326.3 |
| 5° | 7693.0 | 7704.5 | 7617.4 | 7489.0 | 7347.0 | 7172.8 | 7023.8 | 6854.3 | 6810.7 | 6742.0 | 6762.6 |
| 7.5° | 7825.9 | 7819.0 | 7647.2 | 7374.5 | 7042.2 | 6673.2 | 6361.6 | 6180.5 | 5992.6 | 5939.9 | 5942.2 |
| 10° | 8016.1 | 7972.6 | 7647.2 | 7140.7 | 6586.1 | 6038.4 | 5603.0 | 5328.0 | 5179.1 | 5055.3 | 5009.5 |
| 12.5° | 8217.8 | 8107.8 | 7573.8 | 6813.0 | 5999.5 | 5328.0 | 4860.5 | 4489.3 | 4393.1 | 4292.2 | 4294.5 |
| 15° | 8410.3 | 8226.9 | 7429.5 | 6352.4 | 5367.0 | 4569.5 | 4115.8 | 3893.5 | 3863.7 | 3875.1 | 3872.9 |
| 17.5° | 8584.4 | 8311.7 | 7209.5 | 5839.1 | 4629.1 | 3918.7 | 3678.1 | 3694.1 | 3774.3 | 3831.6 | 3838.5 |
| 20° | 8760.9 | 8362.2 | 6881.8 | 5151.6 | 3932.4 | 3524.5 | 3533.7 | 3659.7 | 3781.2 | 3859.1 | 3870.6 |
| 22.5° | 8928.2 | 8385.1 | 6496.8 | 4487.0 | 3428.3 | 3357.2 | 3492.4 | 3627.6 | 3746.8 | 3822.4 | 3833.9 |
| 25° | 9038.2 | 8332.4 | 5951.4 | 3792.6 | 3180.8 | 3297.7 | 3439.7 | 3554.3 | 3655.1 | 3733.1 | 3751.4 |
| 27.5° | 9068.0 | 8162.8 | 5275.3 | 3231.2 | 3066.2 | 3240.4 | 3371.0 | 3455.8 | 3533.7 | 3607.0 | 3620.8 |
| 30° | 9051.9 | 7913.0 | 4532.8 | 2901.2 | 2999.7 | 3173.9 | 3274.7 | 3336.6 | 3430.6 | 3487.9 | 3499.3 |
| 32.5° | 9026.7 | 7622.0 | 3758.3 | 2724.7 | 2944.7 | 3112.0 | 3171.6 | 3226.6 | 3224.3 | 3201.4 | 3217.4 |
| 35° | 9035.9 | 7273.6 | 3130.4 | 2619.3 | 2896.6 | 3066.2 | 3116.6 | 3047.9 | 2850.8 | 2841.6 | 2832.5 |
| 37.5° | 9084.0 | 6929.9 | 2674.3 | 2546.0 | 2871.4 | 3059.3 | 3086.8 | 2770.6 | 2596.4 | 2516.2 | 2495.6 |
| 40° | 9207.8 | 6528.8 | 2374.1 | 2491.0 | 2869.1 | 3112.0 | 2951.6 | 2630.8 | 2296.2 | 2140.4 | 2128.9 |
| 42.5° | 9372.8 | 6134.7 | 2190.8 | 2456.6 | 2896.6 | 3192.2 | 2896.6 | 2433.7 | 2069.3 | 1977.7 | 1963.9 |
| 45° | 9618.0 | 5683.2 | 2090.0 | 2440.6 | 2937.9 | 3222.0 | 2878.3 | 2289.3 | 1977.7 | 1904.3 | 1904.3 |
| 47.5° | 9895.3 | 5252.4 | 2035.0 | 2429.1 | 2990.6 | 3201.4 | 2715.6 | 2243.5 | 1934.1 | 1943.3 | 1986.8 |
| 50° | 10170.2 | 4878.9 | 1993.7 | 2403.9 | 3036.4 | 3189.9 | 2649.1 | 2241.2 | 1945.6 | 2062.5 | 2140.4 |
| 52.5° | 10488.8 | 4615.3 | 1943.3 | 2362.7 | 3036.4 | 3116.6 | 2628.5 | 2287.0 | 1977.7 | 2012.0 | 2046.4 |
| 55° | 10873.8 | 4532.8 | 1879.1 | 2273.3 | 2981.4 | 2933.3 | 2617.0 | 2353.5 | 2000.6 | 1920.4 | 1934.1 |
| 57.5° | 11382.5 | 4665.8 | 1817.3 | 2161.0 | 2855.4 | 2743.1 | 2612.5 | 2371.8 | 1947.9 | 1881.4 | 1867.7 |
| 60° | 11973.8 | 4929.3 | 1798.9 | 2046.4 | 2683.5 | 2580.4 | 2585.0 | 2319.1 | 1874.6 | 1805.8 | 1817.3 |
| 62.5° | 12388.5 | 5087.4 | 1787.5 | 1959.3 | 2495.6 | 2401.6 | 2518.5 | 2255.0 | 1842.5 | 1782.9 | 1794.3 |
| 65° | 12388.5 | 4894.9 | 1682.1 | 1826.4 | 2252.7 | 2186.2 | 2438.3 | 2174.8 | 1801.2 | 1732.5 | 1721.0 |
| 67.5° | 11918.8 | 4333.5 | 1521.6 | 1627.1 | 1984.6 | 1941.0 | 2326.0 | 2078.5 | 1739.3 | 1686.6 | 1659.1 |
| 70° | 10695.0 | 3286.2 | 1320.0 | 1393.3 | 1645.4 | 1684.3 | 2181.6 | 1947.9 | 1636.2 | 1572.1 | 1530.8 |
| 71° | 10156.5 | 2862.2 | 1235.2 | 1274.1 | 1514.8 | 1572.1 | 2112.9 | 1892.9 | 1590.4 | 1498.7 | 1425.4 |
| 72.5° | 9118.4 | 2410.8 | 1106.9 | 1122.9 | 1294.8 | 1397.9 | 1968.5 | 1787.5 | 1503.3 | 1372.7 | 1290.2 |
| 75° | 6927.6 | 1760.0 | 891.4 | 882.3 | 957.9 | 1109.1 | 1666.0 | 1592.7 | 1317.7 | 1141.2 | 1093.1 |
| 77.5° | 2992.9 | 957.9 | 666.9 | 673.7 | 650.8 | 841.0 | 1310.8 | 1368.1 | 1129.8 | 928.1 | 884.6 |
| 80° | 907.5 | 552.3 | 456.0 | 465.2 | 435.4 | 563.7 | 923.5 | 1072.5 | 907.5 | 721.9 | 662.3 |
| 82.5° | 465.2 | 330.0 | 311.7 | 307.1 | 277.3 | 318.5 | 559.2 | 733.3 | 648.5 | 451.5 | 398.7 |
| 85° | 201.7 | 176.5 | 153.5 | 149.0 | 130.6 | 114.6 | 199.4 | 366.7 | 343.7 | 252.1 | 240.6 |
| 87.5° | 50.4 | 45.8 | 29.8 | 27.5 | 16.0 | 2.3 | 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)