

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: P317392

Luminaire Tested: **GAN-SA8A-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35435 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

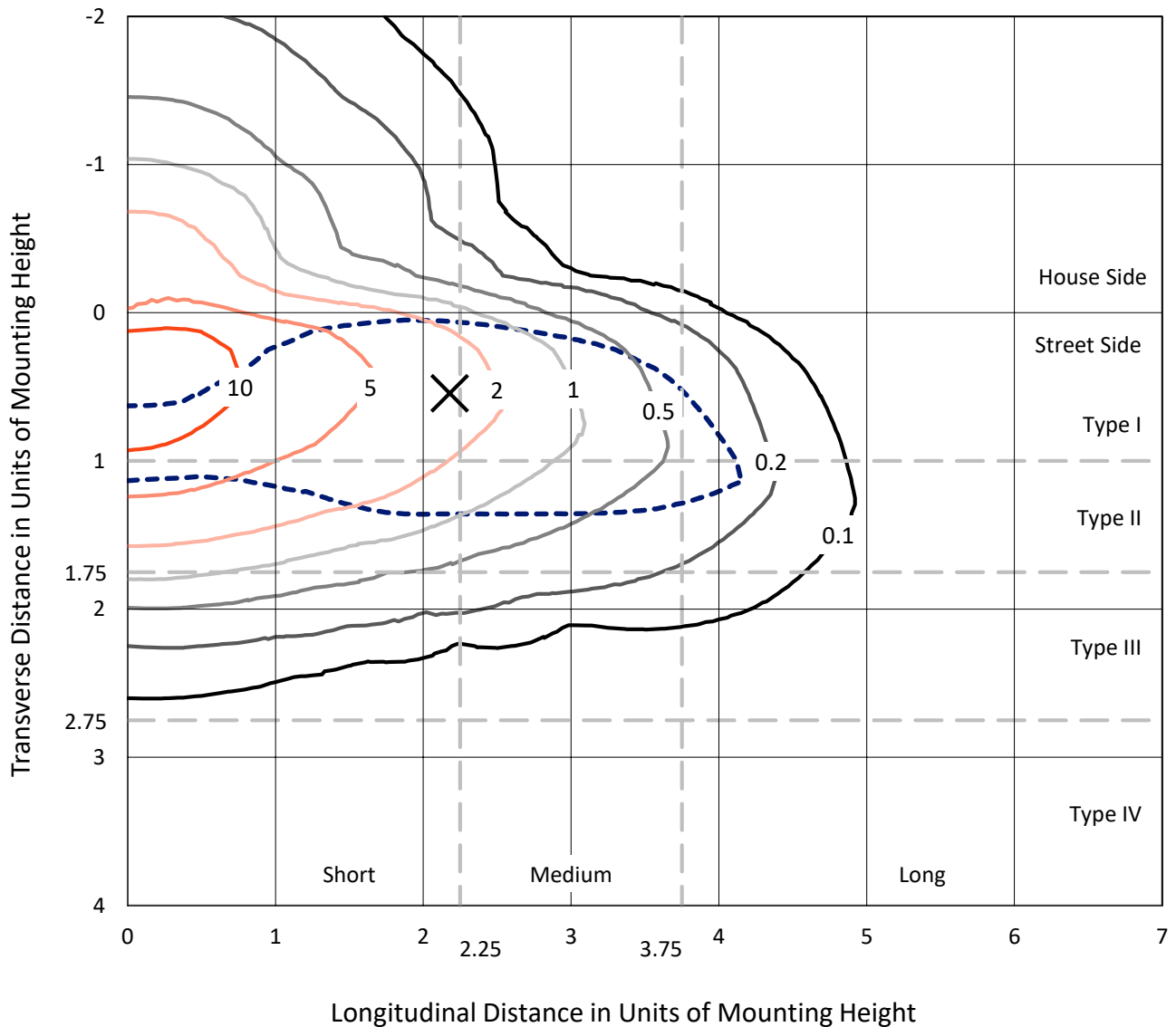
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

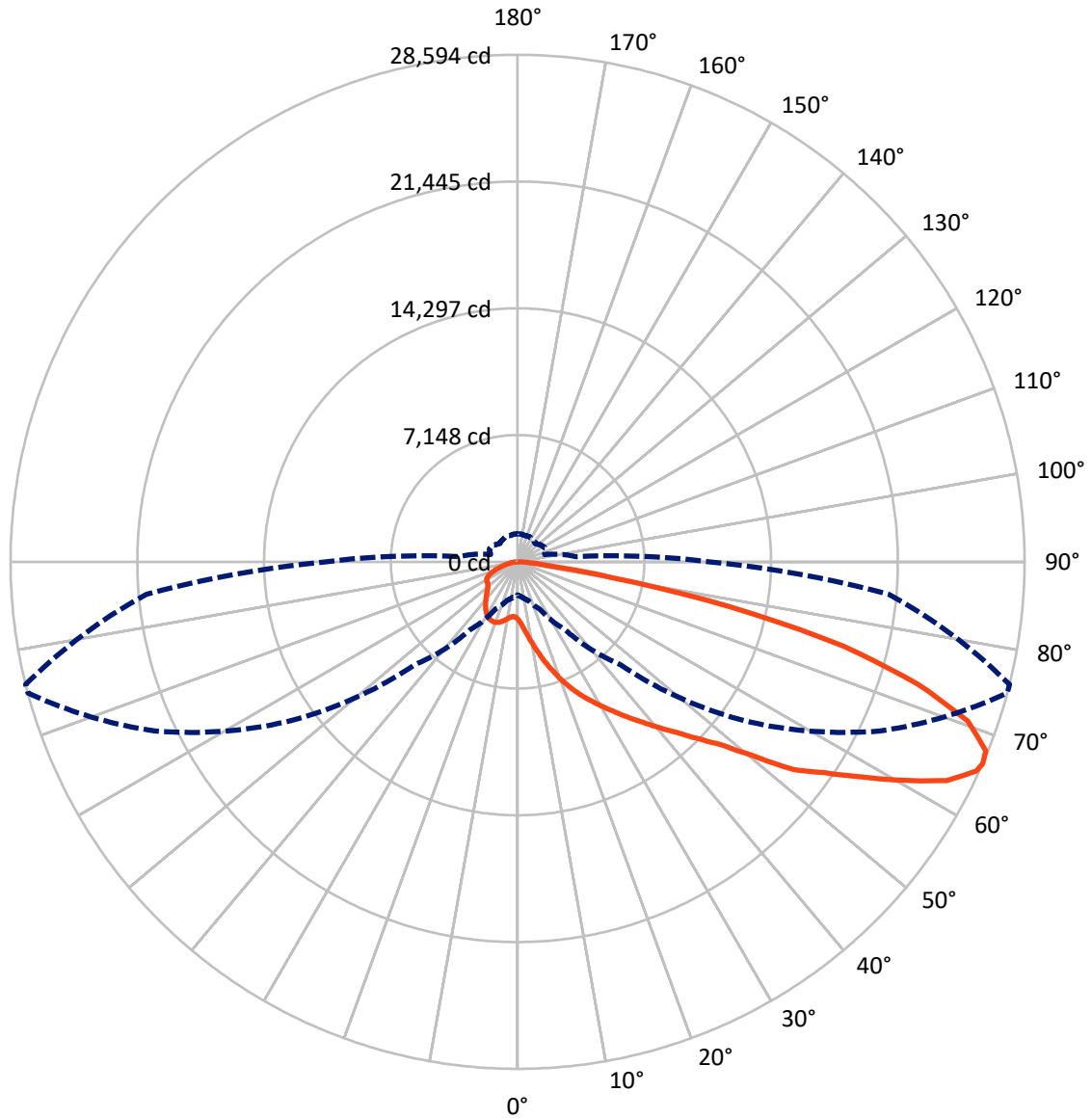
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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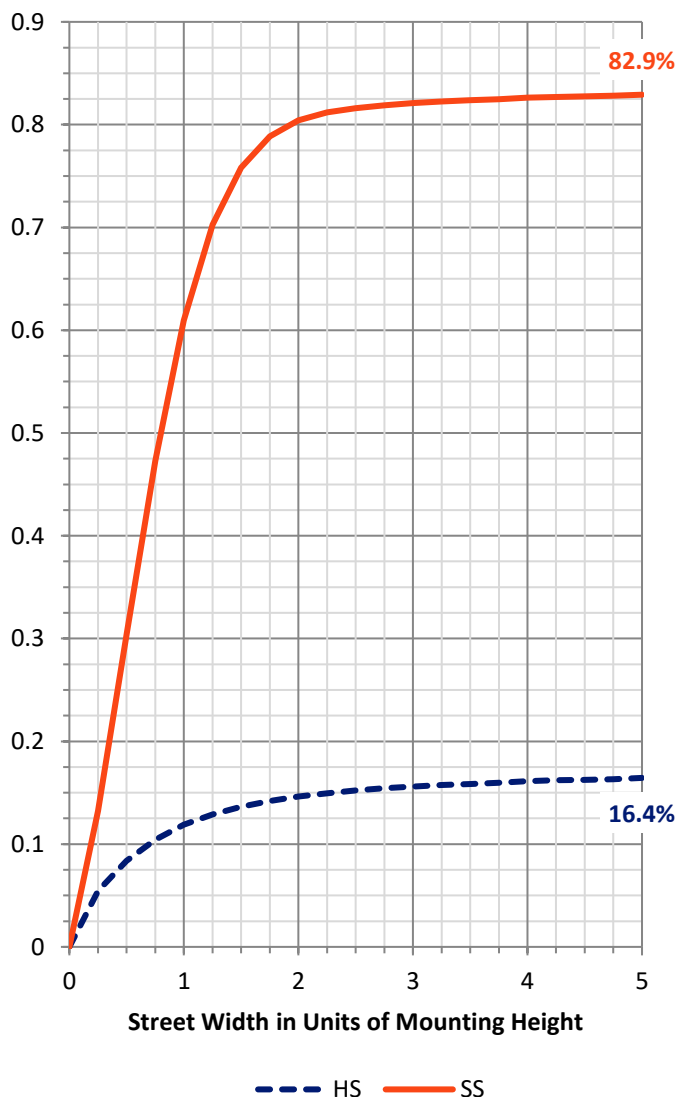
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5962.5 | 0.0 | 5962.5 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 29472.5 | 0.0 | 29472.5 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 35435.0 | 0.0 | 35435.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 391.3 | 1.1 |
| 10°-20° | 1545.3 | 4.4 |
| 20°-30° | 3002.9 | 8.5 |
| 30°-40° | 4901.4 | 13.8 |
| 40°-50° | 6696.5 | 18.9 |
| 50°-60° | 7800.1 | 22.0 |
| 60°-70° | 6992.9 | 19.7 |
| 70°-80° | 3533.9 | 10.0 |
| 80°-90° | 570.7 | 1.6 |
| 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° | 35435.0 | 100.0 |
| 0°-180° | 35435.0 | 100.0 |

Coefficient of Utilization

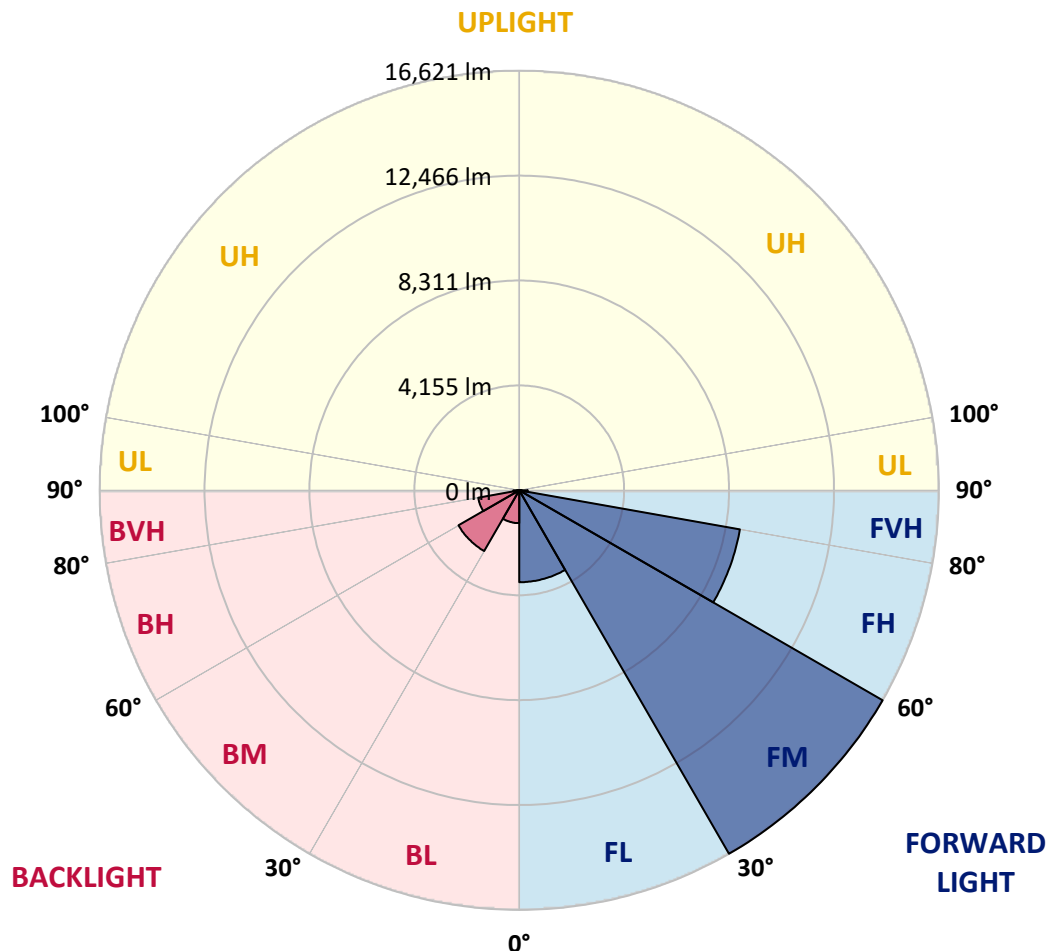


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3639.1 | 10.3 | | | |
| FM (30°-60°) | 16621.5 | 46.9 | | | |
| FH (60°-80°) | 8874.9 | 25.0 | | | G4/12000 |
| FVH (80°-90°) | 337.0 | 1.0 | | | G3/500 |
| BL (0°-30°) | 1300.4 | 3.7 | B3/2500 | | |
| BM (30°-60°) | 2776.5 | 7.8 | B3/5000 | | |
| BH (60°-80°) | 1651.9 | 4.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 233.7 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 |
| 2.5° | 4295.8 | 4230.9 | 4224.9 | 4129.8 | 4108.2 | 3926.5 | 3793.0 | 3653.4 | 3494.7 | 3463.4 | 3338.3 |
| 5° | 5518.1 | 5512.1 | 5429.0 | 5273.9 | 5152.4 | 4842.0 | 4535.2 | 4210.4 | 3854.3 | 3796.6 | 3515.1 |
| 7.5° | 6617.6 | 6608.0 | 6544.2 | 6377.0 | 6201.4 | 5820.0 | 5382.1 | 4884.1 | 4306.7 | 4221.3 | 3754.5 |
| 10° | 7452.5 | 7448.8 | 7427.2 | 7304.5 | 7155.3 | 6789.6 | 6306.0 | 5626.3 | 4832.4 | 4715.7 | 4054.0 |
| 12.5° | 8097.3 | 8104.5 | 8118.9 | 8075.6 | 8004.6 | 7693.1 | 7197.4 | 6413.1 | 5393.0 | 5277.5 | 4387.3 |
| 15° | 8533.9 | 8555.6 | 8630.2 | 8691.5 | 8728.8 | 8537.5 | 8057.6 | 7217.9 | 6020.9 | 5882.6 | 4756.6 |
| 17.5° | 8754.1 | 8778.1 | 8906.9 | 9092.1 | 9262.9 | 9243.7 | 8862.3 | 7985.4 | 6623.6 | 6490.1 | 5153.6 |
| 20° | 8944.2 | 8962.2 | 9106.6 | 9329.1 | 9631.1 | 9764.6 | 9550.5 | 8724.0 | 7284.0 | 7125.2 | 5574.6 |
| 22.5° | 9495.1 | 9518.0 | 9561.3 | 9687.6 | 9954.7 | 10200.1 | 10096.6 | 9422.9 | 7889.1 | 7741.2 | 5974.0 |
| 25° | 10558.6 | 10586.2 | 10492.4 | 10385.3 | 10435.8 | 10606.7 | 10625.9 | 10060.5 | 8502.7 | 8335.4 | 6403.5 |
| 27.5° | 11839.7 | 11879.4 | 11719.4 | 11443.9 | 11203.3 | 11137.2 | 11114.3 | 10582.6 | 9088.5 | 8894.8 | 6828.1 |
| 30° | 13094.4 | 13163.0 | 12954.9 | 12597.6 | 12156.1 | 11845.7 | 11616.0 | 11093.9 | 9665.9 | 9480.7 | 7228.7 |
| 32.5° | 14320.3 | 14292.6 | 13990.7 | 13641.8 | 13124.5 | 12735.9 | 12180.2 | 11642.4 | 10315.5 | 10102.6 | 7626.9 |
| 35° | 15159.9 | 15169.6 | 14889.3 | 14475.5 | 13982.2 | 13683.9 | 12935.6 | 12234.3 | 10978.4 | 10782.3 | 8079.2 |
| 37.5° | 15874.5 | 15830.0 | 15512.4 | 15126.3 | 14701.6 | 14574.1 | 13819.8 | 12886.3 | 11696.6 | 11482.4 | 8560.4 |
| 40° | 16112.7 | 16061.0 | 15852.9 | 15575.0 | 15234.5 | 15223.7 | 14795.4 | 13624.9 | 12508.6 | 12296.9 | 9102.9 |
| 42.5° | 15968.3 | 15902.2 | 15816.8 | 15741.0 | 15636.3 | 15684.4 | 15712.1 | 14491.1 | 13401.2 | 13164.2 | 9730.9 |
| 45° | 15435.4 | 15335.6 | 15395.7 | 15560.5 | 15787.9 | 16059.8 | 16539.8 | 15449.9 | 14400.9 | 14202.4 | 10468.3 |
| 47.5° | 14616.2 | 14526.0 | 14713.6 | 15066.1 | 15684.4 | 16372.6 | 17322.9 | 16508.5 | 15594.2 | 15396.9 | 11518.5 |
| 50° | 13463.7 | 13490.2 | 13758.5 | 14399.7 | 15334.4 | 16516.9 | 18287.7 | 17910.0 | 17328.9 | 17144.9 | 12951.3 |
| 52.5° | 11572.7 | 11577.5 | 12332.9 | 13385.6 | 14713.6 | 16442.3 | 18823.0 | 19701.2 | 19697.6 | 19475.0 | 14315.5 |
| 55° | 9816.3 | 9923.4 | 10521.3 | 11920.3 | 13708.0 | 16144.0 | 19197.1 | 20572.2 | 21253.0 | 20992.0 | 15587.0 |
| 57.5° | 8100.9 | 8163.4 | 8730.0 | 10135.1 | 12272.8 | 15348.8 | 19580.9 | 21617.5 | 23045.5 | 22880.7 | 17167.7 |
| 60° | 6149.6 | 6245.9 | 6831.7 | 8129.7 | 10437.0 | 13937.7 | 19617.0 | 22708.6 | 25188.0 | 25022.0 | 18932.5 |
| 62.5° | 3991.5 | 4157.5 | 4706.1 | 5922.3 | 8216.3 | 11908.3 | 18779.7 | 23422.0 | 27218.6 | 27159.7 | 20498.8 |
| 65° | 2294.1 | 2419.2 | 2800.5 | 3738.9 | 5668.4 | 9360.4 | 16788.8 | 23147.7 | 28468.5 | 28434.8 | 21084.6 |
| 66° | 1874.2 | 1952.4 | 2244.8 | 2922.0 | 4677.2 | 8220.0 | 15631.5 | 22569.1 | 28592.4 | 28593.6 | 21017.3 |
| 67.5° | 1498.9 | 1533.8 | 1664.9 | 2092.0 | 3451.3 | 6515.3 | 13563.6 | 21292.7 | 28438.4 | 28480.5 | 20583.0 |
| 70° | 1240.3 | 1258.3 | 1299.2 | 1402.7 | 1883.9 | 3928.9 | 9627.4 | 17976.1 | 26892.6 | 26925.1 | 18888.0 |
| 72.5° | 1112.8 | 1123.6 | 1139.2 | 1153.7 | 1329.3 | 2195.4 | 5880.2 | 14380.4 | 23578.4 | 23620.5 | 16305.2 |
| 75° | 1008.1 | 1014.1 | 1011.7 | 1012.9 | 1115.2 | 1399.1 | 3038.7 | 10736.6 | 19064.8 | 18980.6 | 12490.5 |
| 77.5° | 885.4 | 891.4 | 879.4 | 881.8 | 986.4 | 1075.5 | 1512.1 | 7516.2 | 12865.9 | 12271.6 | 7037.4 |
| 80° | 748.3 | 753.1 | 748.3 | 756.7 | 858.9 | 812.0 | 879.4 | 4228.5 | 5688.9 | 5380.9 | 2502.2 |
| 82.5° | 565.4 | 585.9 | 600.3 | 634.0 | 707.4 | 577.4 | 588.3 | 1646.9 | 1732.3 | 1649.3 | 767.5 |
| 85° | 247.8 | 301.9 | 452.3 | 484.8 | 531.7 | 346.5 | 386.2 | 671.3 | 704.9 | 683.3 | 279.1 |
| 87.5° | 65.0 | 71.0 | 223.8 | 281.5 | 294.7 | 156.4 | 200.9 | 305.6 | 322.4 | 305.6 | 92.6 |
| 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° | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 | 3236.0 |
| 2.5° | 3272.1 | 3213.2 | 3107.3 | 3013.5 | 2942.5 | 2894.4 | 2846.2 | 2822.2 | 2807.8 | 2793.3 | 2795.7 |
| 5° | 3376.8 | 3257.7 | 3076.0 | 2947.3 | 2875.1 | 2829.4 | 2805.3 | 2795.7 | 2789.7 | 2775.3 | 2775.3 |
| 7.5° | 3534.4 | 3365.9 | 3115.7 | 2983.4 | 2926.8 | 2892.0 | 2877.5 | 2872.7 | 2865.5 | 2848.7 | 2851.1 |
| 10° | 3732.8 | 3497.1 | 3198.7 | 3070.0 | 3018.3 | 2979.8 | 2959.3 | 2952.1 | 2938.9 | 2919.6 | 2922.0 |
| 12.5° | 3966.2 | 3659.5 | 3308.2 | 3173.5 | 3110.9 | 3059.2 | 3025.5 | 3005.0 | 2982.2 | 2956.9 | 2958.1 |
| 15° | 4221.3 | 3836.3 | 3426.1 | 3266.1 | 3180.7 | 3108.5 | 3054.4 | 3019.5 | 2983.4 | 2952.1 | 2950.9 |
| 17.5° | 4479.9 | 4007.1 | 3516.3 | 3316.6 | 3201.1 | 3106.1 | 3032.7 | 2978.6 | 2934.1 | 2895.6 | 2892.0 |
| 20° | 4759.0 | 4161.1 | 3566.8 | 3311.8 | 3162.6 | 3049.6 | 2952.1 | 2884.7 | 2835.4 | 2796.9 | 2790.9 |
| 22.5° | 5042.9 | 4305.5 | 3575.3 | 3262.5 | 3077.2 | 2938.9 | 2836.6 | 2762.0 | 2711.5 | 2671.8 | 2657.4 |
| 25° | 5302.7 | 4417.3 | 3540.4 | 3167.4 | 2958.1 | 2809.0 | 2709.1 | 2633.3 | 2592.4 | 2545.5 | 2531.1 |
| 27.5° | 5539.7 | 4495.5 | 3470.6 | 3045.9 | 2824.6 | 2677.8 | 2584.0 | 2519.0 | 2474.5 | 2438.4 | 2426.4 |
| 30° | 5752.6 | 4537.6 | 3356.3 | 2901.6 | 2687.5 | 2553.9 | 2474.5 | 2430.0 | 2391.5 | 2345.8 | 2337.4 |
| 32.5° | 5954.7 | 4537.6 | 3209.5 | 2744.0 | 2551.5 | 2444.5 | 2397.5 | 2369.9 | 2326.6 | 2282.1 | 2270.0 |
| 35° | 6156.8 | 4510.0 | 3036.3 | 2579.2 | 2426.4 | 2366.3 | 2363.9 | 2331.4 | 2265.2 | 2205.1 | 2189.4 |
| 37.5° | 6369.8 | 4453.4 | 2841.4 | 2425.2 | 2324.2 | 2331.4 | 2351.8 | 2279.6 | 2185.8 | 2100.4 | 2077.5 |
| 40° | 6610.4 | 4375.2 | 2639.3 | 2291.7 | 2238.7 | 2315.7 | 2319.3 | 2205.1 | 2022.2 | 1944.0 | 1923.6 |
| 42.5° | 6893.1 | 4297.0 | 2451.7 | 2173.8 | 2171.4 | 2268.8 | 2258.0 | 2043.9 | 1934.4 | 1894.7 | 1883.9 |
| 45° | 7264.8 | 4252.5 | 2273.6 | 2061.9 | 2118.4 | 2193.0 | 2153.3 | 1954.8 | 1909.1 | 1886.3 | 1876.6 |
| 47.5° | 7850.6 | 4275.4 | 2110.0 | 1972.9 | 2065.5 | 2117.2 | 1958.5 | 1918.8 | 1886.3 | 1858.6 | 1849.0 |
| 50° | 8584.5 | 4262.2 | 1977.7 | 1911.5 | 2005.4 | 2037.8 | 1870.6 | 1871.8 | 1855.0 | 1823.7 | 1809.3 |
| 52.5° | 9136.6 | 4158.7 | 1892.3 | 1876.6 | 1952.4 | 1897.1 | 1815.3 | 1826.1 | 1817.7 | 1772.0 | 1756.3 |
| 55° | 9669.5 | 4069.7 | 1849.0 | 1863.4 | 1913.9 | 1721.5 | 1750.3 | 1776.8 | 1768.4 | 1723.9 | 1716.7 |
| 57.5° | 10332.4 | 4052.8 | 1822.5 | 1867.0 | 1881.5 | 1633.6 | 1687.8 | 1722.7 | 1716.7 | 1697.4 | 1693.8 |
| 60° | 11144.4 | 4057.6 | 1798.5 | 1873.0 | 1845.4 | 1568.7 | 1628.8 | 1673.3 | 1677.0 | 1673.3 | 1670.9 |
| 62.5° | 11590.7 | 3926.5 | 1738.3 | 1856.2 | 1781.6 | 1512.1 | 1567.5 | 1632.4 | 1633.6 | 1640.9 | 1639.7 |
| 65° | 11211.8 | 3534.4 | 1626.4 | 1797.3 | 1674.5 | 1465.2 | 1514.6 | 1585.5 | 1567.5 | 1600.0 | 1600.0 |
| 66° | 10843.7 | 3308.2 | 1571.1 | 1758.8 | 1628.8 | 1447.2 | 1497.7 | 1561.5 | 1538.6 | 1583.1 | 1583.1 |
| 67.5° | 10091.8 | 2926.8 | 1471.2 | 1677.0 | 1563.9 | 1421.9 | 1478.5 | 1521.8 | 1490.5 | 1556.7 | 1551.8 |
| 70° | 8718.0 | 2264.0 | 1270.3 | 1491.7 | 1456.8 | 1384.6 | 1452.0 | 1442.4 | 1396.7 | 1497.7 | 1478.5 |
| 72.5° | 7350.2 | 1720.3 | 1020.1 | 1248.7 | 1294.4 | 1337.7 | 1414.7 | 1341.3 | 1283.6 | 1354.6 | 1312.5 |
| 75° | 5703.3 | 1293.2 | 806.0 | 970.8 | 1093.5 | 1264.3 | 1370.2 | 1224.6 | 1141.6 | 1134.4 | 1111.6 |
| 77.5° | 3083.2 | 887.8 | 638.8 | 741.0 | 868.6 | 1172.9 | 1340.1 | 1099.5 | 974.4 | 945.5 | 927.5 |
| 80° | 1221.0 | 577.4 | 464.4 | 561.8 | 607.5 | 1040.6 | 1267.9 | 954.0 | 803.6 | 774.7 | 747.1 |
| 82.5° | 504.0 | 341.6 | 299.5 | 376.5 | 395.8 | 890.2 | 1138.0 | 781.9 | 620.7 | 858.9 | 911.9 |
| 85° | 216.5 | 187.7 | 178.0 | 194.9 | 223.8 | 624.3 | 905.8 | 596.7 | 670.1 | 597.9 | 475.2 |
| 87.5° | 65.0 | 79.4 | 75.8 | 74.6 | 81.8 | 149.2 | 482.4 | 332.0 | 492.0 | 186.5 | 139.5 |
| 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)