

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: McGRAW-EDISON

Report Number: P452097

Luminaire Tested: **GALN-SA3A-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452097
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12329 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

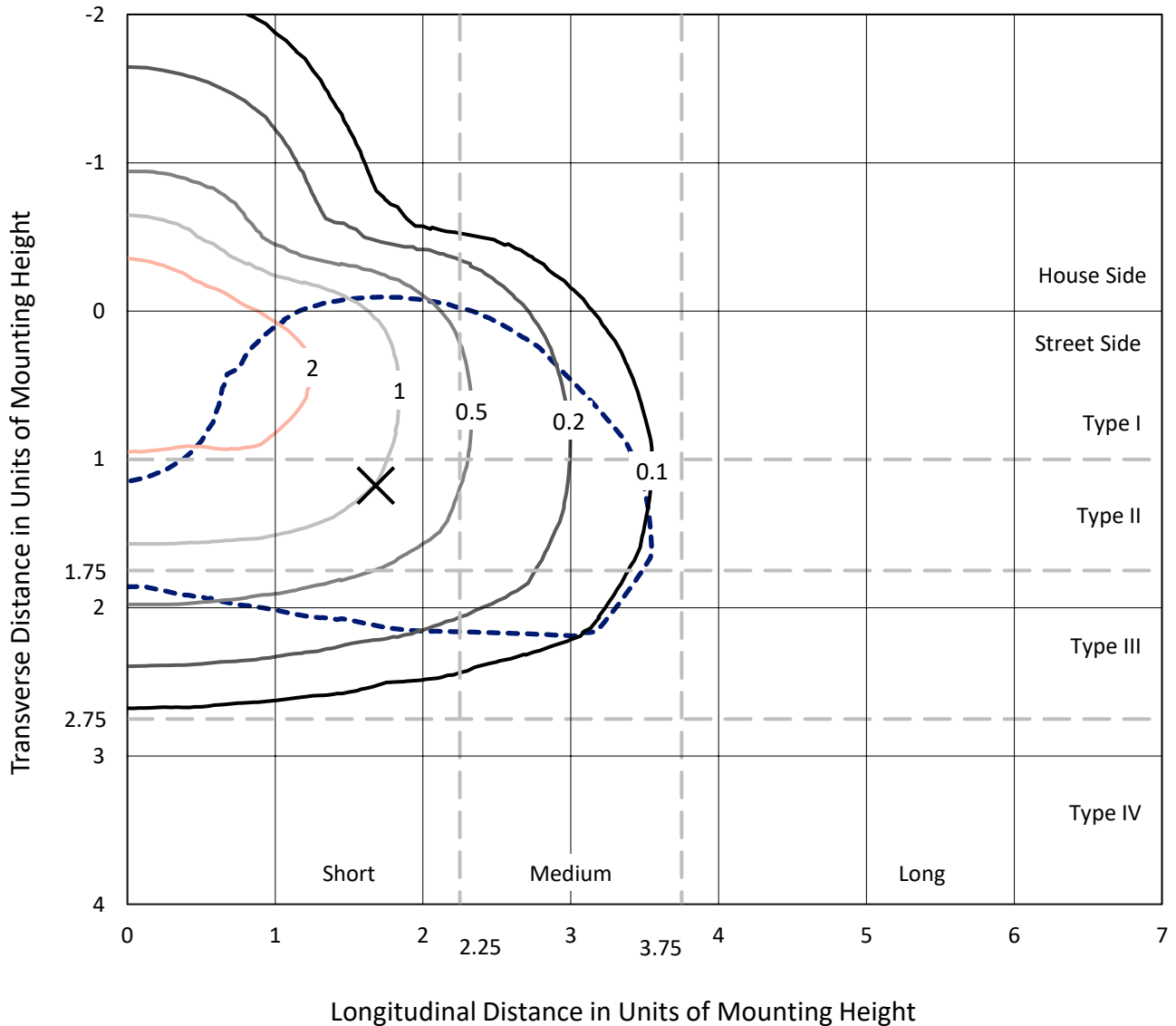
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

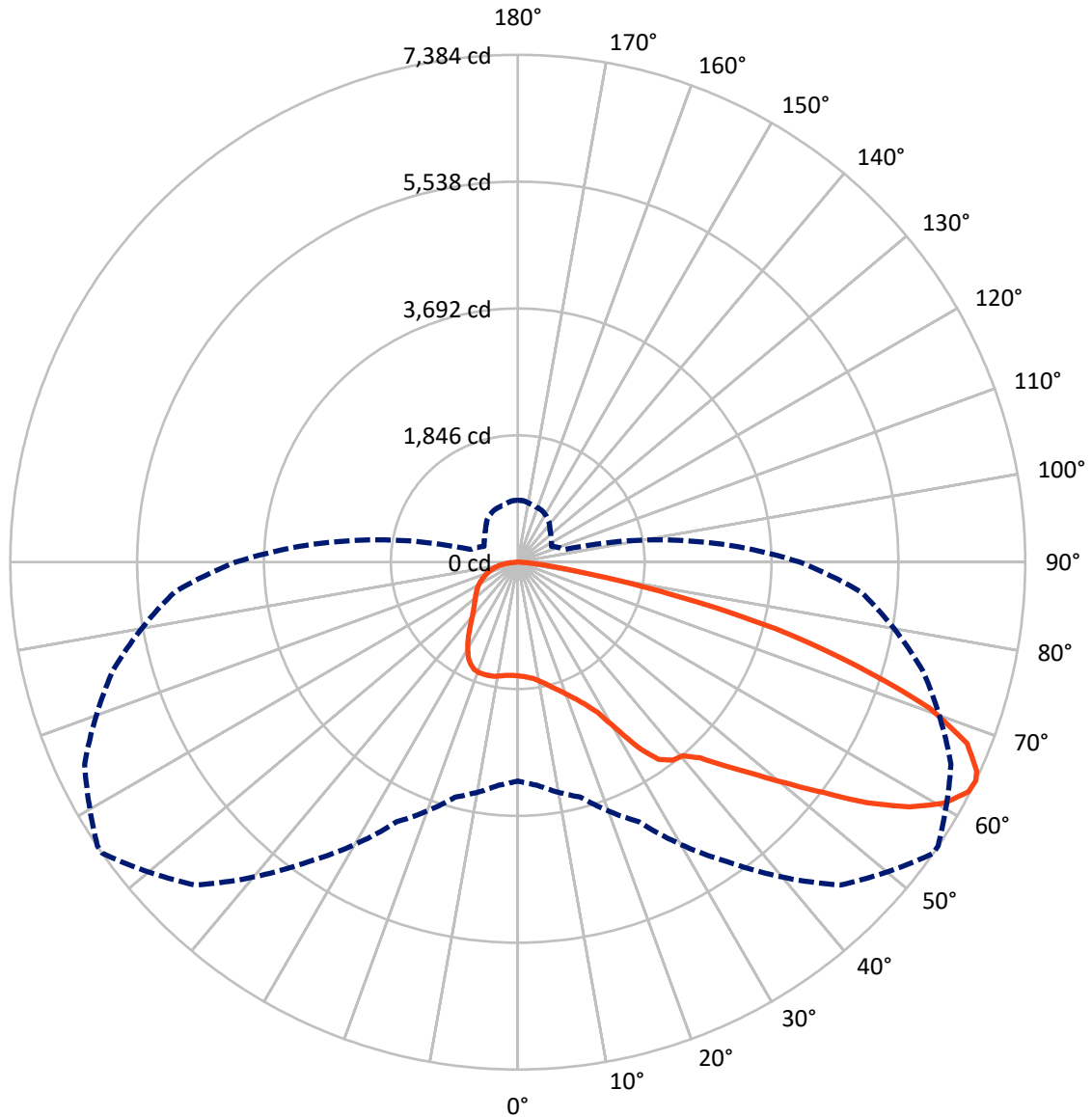
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2995.0 | 0.0 | 2995.0 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 9334.0 | 0.0 | 9334.0 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 12329.0 | 0.0 | 12329.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 160.9 | 1.3 |
| 10°-20° | 507.7 | 4.1 |
| 20°-30° | 903.9 | 7.3 |
| 30°-40° | 1390.7 | 11.3 |
| 40°-50° | 1971.4 | 16.0 |
| 50°-60° | 2853.6 | 23.1 |
| 60°-70° | 2953.1 | 24.0 |
| 70°-80° | 1383.0 | 11.2 |
| 80°-90° | 204.7 | 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° | 12329.0 | 100.0 |
| 0°-180° | 12329.0 | 100.0 |

Coefficient of Utilization



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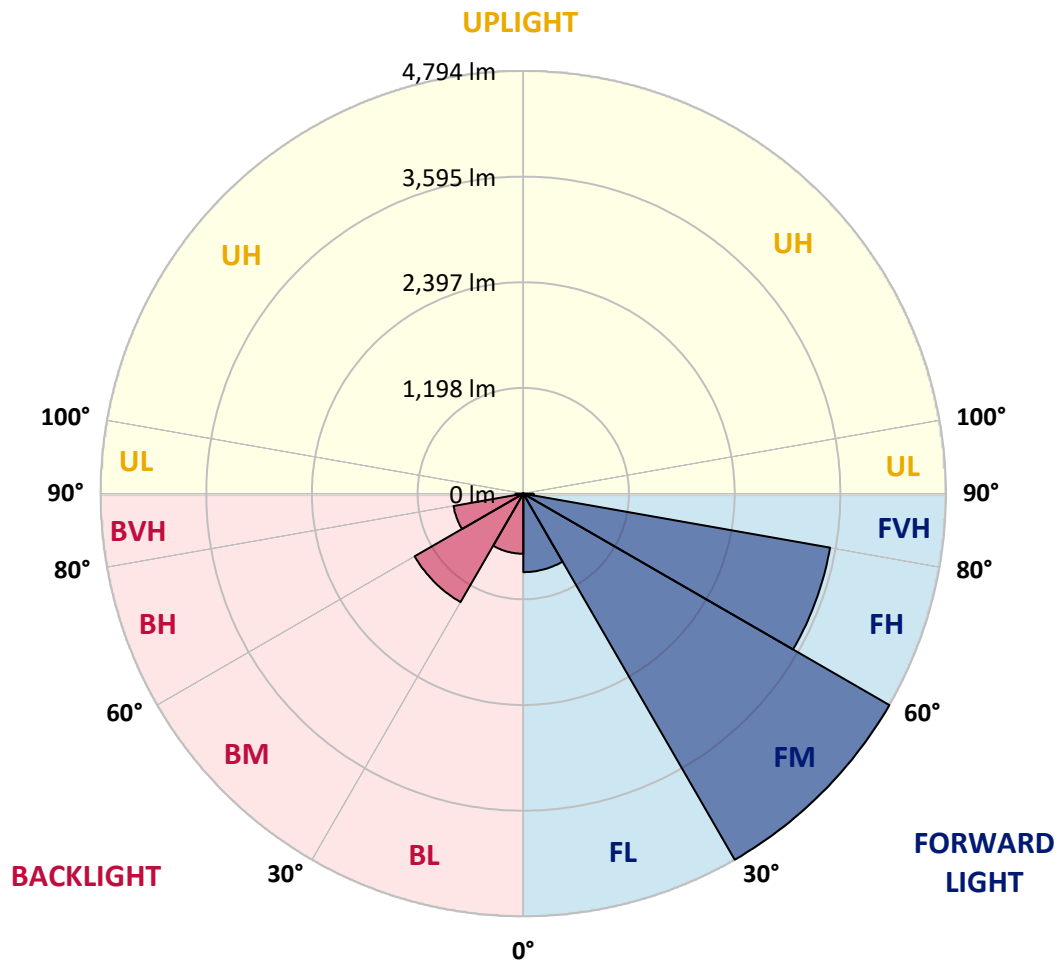
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 890.4 | 7.2 | | | |
| FM | (30°-60°) | 4793.9 | 38.9 | | | |
| FH | (60°-80°) | 3532.6 | 28.7 | | | G2/5000 |
| FVH | (80°-90°) | 117.2 | 1.0 | | | G2/225 |
| BL | (0°-30°) | 682.1 | 5.5 | B2/1000 | | |
| BM | (30°-60°) | 1421.8 | 11.5 | B2/2500 | | |
| BH | (60°-80°) | 803.5 | 6.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 87.5 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 |
| 2.5° | 1672.7 | 1672.0 | 1674.1 | 1672.0 | 1673.4 | 1668.6 | 1666.5 | 1667.9 | 1665.9 | 1662.4 | 1656.2 |
| 5° | 1693.4 | 1692.7 | 1693.4 | 1690.6 | 1692.0 | 1689.2 | 1684.4 | 1685.8 | 1682.4 | 1674.8 | 1665.9 |
| 7.5° | 1728.4 | 1725.7 | 1725.7 | 1725.0 | 1722.2 | 1718.1 | 1714.7 | 1713.3 | 1709.8 | 1700.2 | 1686.5 |
| 10° | 1773.8 | 1773.8 | 1774.4 | 1768.9 | 1772.4 | 1764.8 | 1761.4 | 1760.7 | 1749.0 | 1736.6 | 1717.4 |
| 12.5° | 1833.5 | 1837.0 | 1834.9 | 1832.2 | 1830.8 | 1828.1 | 1816.4 | 1819.1 | 1806.1 | 1784.8 | 1761.4 |
| 15° | 1907.8 | 1913.3 | 1909.8 | 1908.5 | 1905.0 | 1894.7 | 1889.9 | 1887.8 | 1870.7 | 1839.7 | 1808.8 |
| 17.5° | 2006.0 | 1999.2 | 1996.4 | 1993.0 | 1978.6 | 1971.0 | 1962.7 | 1961.4 | 1946.3 | 1909.8 | 1861.7 |
| 20° | 2091.9 | 2101.6 | 2096.1 | 2092.6 | 2078.2 | 2063.8 | 2057.6 | 2055.5 | 2042.5 | 2002.6 | 1925.6 |
| 22.5° | 2194.3 | 2196.4 | 2198.5 | 2190.2 | 2183.4 | 2172.4 | 2161.4 | 2157.9 | 2153.1 | 2111.9 | 2017.7 |
| 25° | 2303.6 | 2311.9 | 2305.0 | 2296.7 | 2288.5 | 2287.8 | 2298.1 | 2296.7 | 2294.7 | 2254.8 | 2140.1 |
| 27.5° | 2481.6 | 2489.2 | 2491.2 | 2482.3 | 2450.7 | 2453.4 | 2476.8 | 2484.4 | 2516.0 | 2450.0 | 2297.4 |
| 30° | 2581.9 | 2589.5 | 2606.7 | 2640.4 | 2690.5 | 2734.5 | 2790.9 | 2808.1 | 2838.3 | 2713.9 | 2484.4 |
| 32.5° | 2643.8 | 2646.6 | 2677.5 | 2740.0 | 2890.5 | 3054.8 | 3208.0 | 3214.2 | 3233.5 | 3058.9 | 2655.5 |
| 35° | 2741.4 | 2743.5 | 2768.2 | 2836.9 | 3013.5 | 3287.1 | 3524.2 | 3531.7 | 3515.9 | 3166.1 | 2735.2 |
| 37.5° | 2861.7 | 2867.2 | 2883.0 | 2940.0 | 3151.0 | 3481.5 | 3655.4 | 3649.9 | 3509.7 | 3251.3 | 2876.1 |
| 40° | 3036.9 | 3036.9 | 3018.3 | 3095.3 | 3296.0 | 3592.9 | 3701.5 | 3691.8 | 3654.7 | 3498.0 | 3090.5 |
| 42.5° | 3191.5 | 3188.8 | 3232.8 | 3285.0 | 3477.4 | 3764.7 | 3894.6 | 3910.4 | 3971.5 | 3808.0 | 3334.5 |
| 45° | 3392.9 | 3405.3 | 3430.0 | 3524.8 | 3786.0 | 4058.1 | 4225.8 | 4240.9 | 4327.5 | 4172.9 | 3619.7 |
| 47.5° | 3596.3 | 3600.4 | 3678.1 | 3804.5 | 4168.1 | 4456.0 | 4593.5 | 4618.2 | 4697.3 | 4599.7 | 3926.9 |
| 50° | 3740.6 | 3779.8 | 3904.2 | 4103.5 | 4561.9 | 4941.2 | 5048.4 | 5078.0 | 5217.5 | 5064.3 | 4284.9 |
| 52.5° | 3893.2 | 3931.7 | 4083.6 | 4387.3 | 5014.1 | 5437.4 | 5569.4 | 5589.3 | 5734.3 | 5534.3 | 4651.2 |
| 55° | 4023.8 | 4059.5 | 4232.0 | 4638.9 | 5374.2 | 5943.9 | 6183.1 | 6159.7 | 6229.1 | 5896.5 | 4933.7 |
| 57.5° | 4045.1 | 4073.9 | 4291.1 | 4799.7 | 5645.0 | 6378.2 | 6721.2 | 6734.9 | 6654.5 | 6167.3 | 5166.6 |
| 60° | 3880.1 | 3939.2 | 4188.7 | 4782.5 | 5766.6 | 6680.6 | 7122.5 | 7132.1 | 6904.0 | 6306.1 | 5259.4 |
| 62.5° | 3588.1 | 3581.9 | 3883.6 | 4506.2 | 5596.2 | 6749.4 | 7358.9 | 7348.6 | 7001.6 | 6239.4 | 5169.4 |
| 64° | 3184.7 | 3258.9 | 3540.6 | 4166.7 | 5321.3 | 6643.5 | 7383.7 | 7378.2 | 6954.8 | 6100.6 | 5016.1 |
| 65° | 2938.6 | 2934.5 | 3212.8 | 3889.1 | 5047.8 | 6484.1 | 7339.7 | 7332.1 | 6857.3 | 5976.2 | 4897.3 |
| 67.5° | 2121.5 | 2131.1 | 2406.0 | 3001.2 | 4103.5 | 5860.8 | 7053.1 | 7024.9 | 6472.4 | 5563.9 | 4445.0 |
| 70° | 1285.1 | 1290.6 | 1506.4 | 1990.9 | 2945.5 | 4737.8 | 6357.6 | 6359.0 | 5883.4 | 4948.1 | 3783.2 |
| 72.5° | 676.9 | 691.4 | 778.0 | 1130.5 | 1788.9 | 3324.2 | 5157.7 | 5280.0 | 5051.2 | 4223.1 | 2988.8 |
| 75° | 376.6 | 378.7 | 439.8 | 557.3 | 912.7 | 1860.4 | 3876.7 | 3911.8 | 3999.0 | 3399.1 | 2210.2 |
| 77.5° | 287.3 | 291.4 | 310.6 | 360.1 | 496.9 | 862.5 | 2346.2 | 2522.2 | 2818.4 | 2396.4 | 1261.1 |
| 80° | 233.0 | 237.1 | 253.6 | 283.1 | 330.6 | 408.9 | 1090.0 | 1184.8 | 1508.5 | 1063.8 | 492.1 |
| 82.5° | 181.4 | 178.7 | 200.0 | 219.2 | 240.5 | 241.9 | 447.4 | 494.8 | 614.4 | 457.7 | 213.0 |
| 85° | 134.7 | 134.7 | 151.9 | 147.8 | 155.3 | 141.6 | 197.2 | 217.9 | 246.0 | 194.5 | 99.0 |
| 87.5° | 53.6 | 59.1 | 99.6 | 89.3 | 69.4 | 55.7 | 72.8 | 77.0 | 85.2 | 76.3 | 41.2 |
| 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° | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 | 1654.2 |
| 2.5° | 1656.9 | 1659.0 | 1654.2 | 1650.7 | 1649.4 | 1647.3 | 1645.2 | 1645.9 | 1648.7 | 1651.4 | 1650.7 |
| 5° | 1665.2 | 1665.9 | 1657.6 | 1653.5 | 1650.7 | 1648.0 | 1648.0 | 1650.1 | 1655.6 | 1659.7 | 1659.7 |
| 7.5° | 1685.8 | 1685.8 | 1674.1 | 1666.5 | 1662.4 | 1657.6 | 1656.2 | 1656.9 | 1661.1 | 1666.5 | 1667.2 |
| 10° | 1718.1 | 1715.3 | 1700.2 | 1688.5 | 1681.0 | 1669.3 | 1659.0 | 1653.5 | 1655.6 | 1659.0 | 1659.0 |
| 12.5° | 1757.3 | 1749.7 | 1730.5 | 1714.7 | 1696.1 | 1674.1 | 1652.8 | 1641.8 | 1641.1 | 1644.6 | 1643.2 |
| 15° | 1799.2 | 1790.9 | 1764.1 | 1735.3 | 1703.0 | 1670.7 | 1645.2 | 1629.4 | 1617.1 | 1613.6 | 1621.2 |
| 17.5° | 1848.0 | 1830.8 | 1793.7 | 1753.8 | 1705.7 | 1663.8 | 1623.9 | 1591.6 | 1569.6 | 1563.5 | 1565.5 |
| 20° | 1907.1 | 1884.4 | 1834.2 | 1771.7 | 1703.7 | 1639.1 | 1577.2 | 1533.9 | 1498.2 | 1487.2 | 1488.6 |
| 22.5° | 1988.9 | 1949.7 | 1876.2 | 1780.6 | 1686.5 | 1592.3 | 1506.4 | 1450.1 | 1406.8 | 1389.6 | 1399.9 |
| 25° | 2081.6 | 2039.0 | 1916.0 | 1778.6 | 1641.8 | 1517.4 | 1422.6 | 1349.0 | 1309.9 | 1284.4 | 1289.9 |
| 27.5° | 2209.5 | 2133.9 | 1958.6 | 1760.0 | 1577.9 | 1426.0 | 1316.1 | 1246.6 | 1210.9 | 1197.9 | 1204.0 |
| 30° | 2373.0 | 2256.9 | 2004.7 | 1709.8 | 1476.9 | 1310.6 | 1208.9 | 1163.5 | 1142.2 | 1125.7 | 1131.2 |
| 32.5° | 2491.2 | 2343.5 | 2015.0 | 1625.3 | 1367.6 | 1205.4 | 1136.0 | 1102.3 | 1079.0 | 1063.2 | 1066.6 |
| 35° | 2575.8 | 2417.0 | 2010.2 | 1521.5 | 1253.5 | 1118.8 | 1078.3 | 1050.8 | 1013.0 | 978.6 | 972.4 |
| 37.5° | 2689.2 | 2509.1 | 1975.1 | 1408.1 | 1140.8 | 1060.4 | 1031.5 | 980.7 | 926.4 | 880.4 | 878.3 |
| 40° | 2863.0 | 2617.0 | 1900.2 | 1274.8 | 1044.6 | 1017.1 | 982.1 | 916.1 | 857.7 | 820.6 | 817.8 |
| 42.5° | 3042.4 | 2716.6 | 1798.5 | 1134.6 | 965.6 | 971.8 | 929.1 | 863.9 | 828.1 | 804.1 | 801.3 |
| 45° | 3261.6 | 2824.5 | 1688.5 | 1013.0 | 907.2 | 929.1 | 883.1 | 845.3 | 824.0 | 808.2 | 804.1 |
| 47.5° | 3498.7 | 2935.2 | 1564.8 | 903.7 | 857.7 | 890.0 | 863.9 | 846.7 | 835.0 | 824.0 | 819.2 |
| 50° | 3754.4 | 3058.9 | 1448.7 | 815.8 | 813.0 | 849.4 | 861.8 | 855.6 | 848.7 | 845.3 | 841.2 |
| 52.5° | 4034.8 | 3185.3 | 1351.1 | 753.9 | 773.8 | 820.6 | 862.5 | 867.3 | 867.3 | 865.2 | 862.5 |
| 55° | 4224.4 | 3273.3 | 1252.1 | 703.7 | 734.0 | 797.2 | 861.1 | 879.7 | 886.5 | 883.8 | 881.0 |
| 57.5° | 4364.6 | 3321.4 | 1127.8 | 660.4 | 700.3 | 774.5 | 853.5 | 881.0 | 887.9 | 891.3 | 890.0 |
| 60° | 4393.5 | 3276.7 | 964.9 | 615.1 | 663.9 | 741.5 | 826.1 | 860.4 | 869.4 | 890.7 | 892.7 |
| 62.5° | 4263.6 | 3139.3 | 802.7 | 570.4 | 619.2 | 691.4 | 788.9 | 837.1 | 854.9 | 887.9 | 891.3 |
| 64° | 4104.2 | 2985.4 | 712.7 | 542.2 | 590.3 | 663.2 | 770.4 | 830.9 | 854.2 | 898.2 | 901.0 |
| 65° | 3987.3 | 2873.3 | 656.3 | 524.4 | 571.8 | 644.6 | 760.1 | 832.9 | 860.4 | 914.0 | 918.1 |
| 67.5° | 3557.1 | 2487.8 | 542.9 | 482.4 | 527.8 | 613.0 | 762.1 | 850.1 | 859.0 | 920.2 | 919.5 |
| 70° | 2943.4 | 1980.6 | 455.0 | 444.0 | 485.2 | 587.6 | 753.9 | 822.6 | 823.3 | 863.9 | 854.2 |
| 72.5° | 2204.0 | 1463.8 | 394.5 | 404.1 | 437.8 | 527.1 | 712.0 | 785.5 | 773.8 | 779.3 | 769.7 |
| 75° | 1514.0 | 968.3 | 339.5 | 361.5 | 388.3 | 465.9 | 652.9 | 713.4 | 694.8 | 687.9 | 681.1 |
| 77.5° | 808.2 | 535.4 | 282.5 | 319.6 | 337.4 | 402.7 | 569.7 | 628.1 | 608.9 | 582.1 | 573.2 |
| 80° | 327.1 | 252.2 | 227.5 | 264.6 | 274.9 | 324.4 | 474.2 | 510.6 | 496.2 | 449.5 | 434.3 |
| 82.5° | 164.2 | 151.2 | 178.7 | 208.2 | 208.9 | 231.6 | 352.6 | 386.9 | 354.6 | 297.6 | 284.5 |
| 85° | 85.9 | 88.7 | 123.0 | 146.4 | 129.2 | 125.1 | 211.7 | 234.3 | 215.1 | 186.9 | 168.4 |
| 87.5° | 30.9 | 35.7 | 64.6 | 63.9 | 45.4 | 24.1 | 46.7 | 22.7 | 12.4 | 7.6 | 9.6 |
| 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)