

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: P522730

Luminaire Tested: **GALN-SA4B-722-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522730
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-722-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16559 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

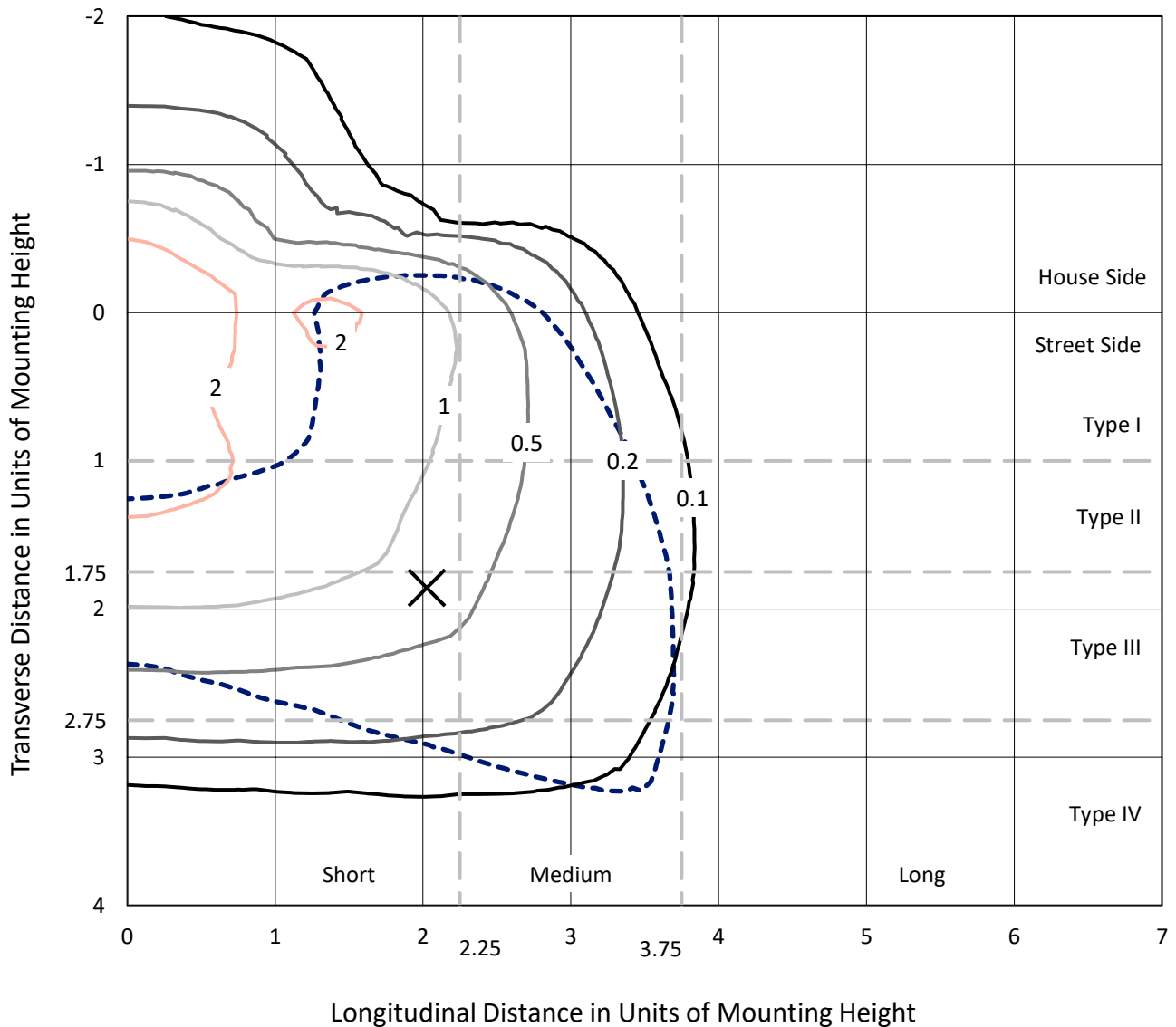
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

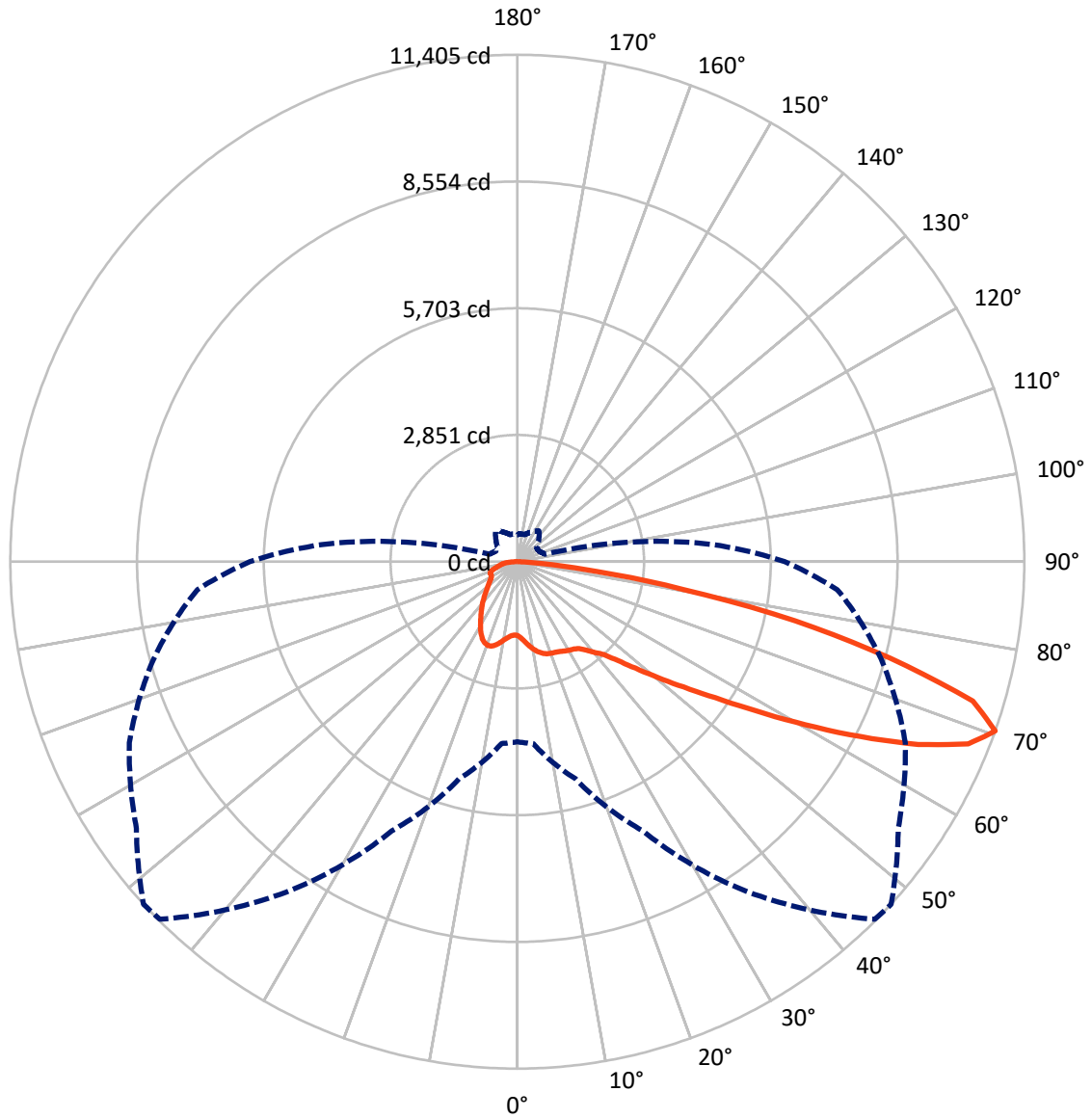
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3749.3 | 0.0 | 3749.3 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 12809.7 | 0.0 | 12809.7 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 16559.0 | 0.0 | 16559.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 171.4 | 1.0 |
| 10°-20° | 572.8 | 3.5 |
| 20°-30° | 952.6 | 5.8 |
| 30°-40° | 1350.2 | 8.2 |
| 40°-50° | 1993.2 | 12.0 |
| 50°-60° | 3452.3 | 20.8 |
| 60°-70° | 4876.5 | 29.4 |
| 70°-80° | 2803.3 | 16.9 |
| 80°-90° | 386.8 | 2.3 |
| 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° | 16559.0 | 100.0 |
| 0°-180° | 16559.0 | 100.0 |

Coefficient of Utilization



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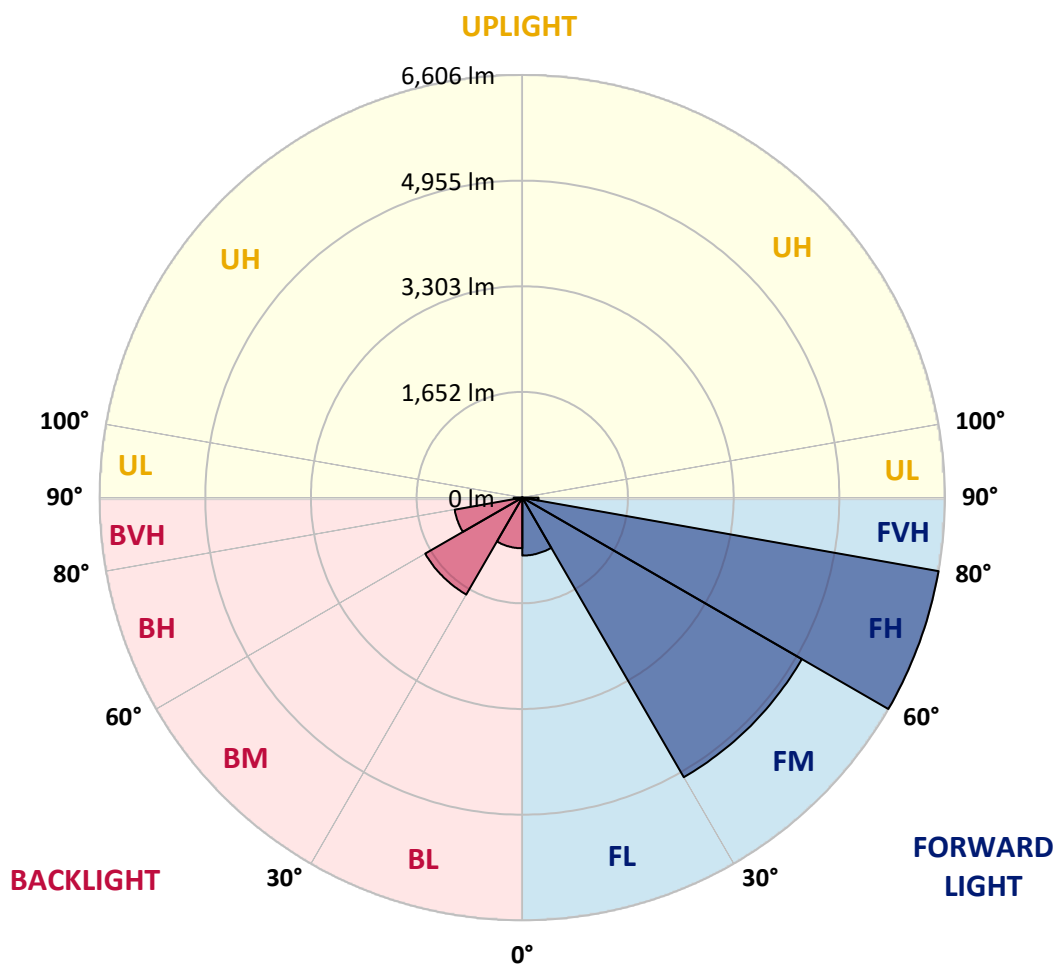
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 905.5 | 5.5 | | | |
| FM | (30°-60°) | 5045.2 | 30.5 | | | |
| FH | (60°-80°) | 6606.3 | 39.9 | | | G3/7500 |
| FVH | (80°-90°) | 252.7 | 1.5 | | | G3/500 |
| BL | (0°-30°) | 791.3 | 4.8 | B2/1000 | | |
| BM | (30°-60°) | 1750.5 | 10.6 | B2/2500 | | |
| BH | (60°-80°) | 1073.4 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 134.1 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|
| 0° | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 |
| 2.5° | 1769.5 | 1763.3 | 1762.5 | 1749.2 | 1742.1 | 1728.8 | 1723.5 | 1711.1 | 1696.0 | 1680.9 | 1666.8 |
| 5° | 1908.7 | 1908.7 | 1902.5 | 1883.8 | 1854.6 | 1824.5 | 1811.2 | 1787.3 | 1744.7 | 1710.2 | 1680.9 |
| 7.5° | 2051.3 | 2053.1 | 2040.7 | 2013.2 | 1971.6 | 1922.8 | 1910.4 | 1875.0 | 1814.7 | 1764.2 | 1720.8 |
| 10° | 2174.5 | 2174.5 | 2157.7 | 2120.4 | 2068.2 | 2015.0 | 2002.6 | 1962.7 | 1895.4 | 1832.5 | 1775.7 |
| 12.5° | 2268.4 | 2268.4 | 2246.3 | 2197.5 | 2140.8 | 2093.0 | 2078.8 | 2040.7 | 1977.8 | 1907.8 | 1836.0 |
| 15° | 2329.6 | 2325.1 | 2300.3 | 2245.4 | 2190.4 | 2148.8 | 2139.0 | 2107.1 | 2049.6 | 1978.7 | 1898.0 |
| 17.5° | 2332.2 | 2330.4 | 2306.5 | 2260.4 | 2212.6 | 2184.2 | 2178.0 | 2156.8 | 2111.6 | 2044.2 | 1959.2 |
| 20° | 2280.8 | 2284.4 | 2268.4 | 2235.6 | 2212.6 | 2200.2 | 2197.5 | 2190.4 | 2158.5 | 2095.6 | 2010.6 |
| 22.5° | 2225.9 | 2232.1 | 2217.0 | 2199.3 | 2197.5 | 2209.9 | 2211.7 | 2213.5 | 2193.1 | 2132.0 | 2054.0 |
| 25° | 2212.6 | 2217.0 | 2202.0 | 2186.0 | 2195.8 | 2228.5 | 2235.6 | 2242.7 | 2226.8 | 2175.4 | 2105.4 |
| 27.5° | 2279.9 | 2276.4 | 2247.2 | 2212.6 | 2218.8 | 2263.1 | 2272.8 | 2280.8 | 2272.8 | 2228.5 | 2169.2 |
| 30° | 2470.4 | 2458.9 | 2400.4 | 2299.4 | 2267.5 | 2298.5 | 2308.3 | 2330.4 | 2330.4 | 2297.7 | 2238.3 |
| 32.5° | 2789.4 | 2767.3 | 2660.1 | 2461.6 | 2350.8 | 2332.2 | 2342.0 | 2378.3 | 2396.9 | 2371.2 | 2306.5 |
| 35° | 3176.7 | 3153.6 | 3000.3 | 2733.6 | 2503.2 | 2399.6 | 2396.9 | 2437.7 | 2487.3 | 2429.7 | 2345.5 |
| 37.5° | 3565.7 | 3541.7 | 3357.4 | 3057.9 | 2725.6 | 2541.3 | 2525.4 | 2539.6 | 2560.8 | 2455.4 | 2399.6 |
| 40° | 3954.7 | 3926.3 | 3765.0 | 3420.3 | 2997.7 | 2729.2 | 2687.5 | 2623.7 | 2614.9 | 2539.6 | 2504.1 |
| 42.5° | 4340.1 | 4314.4 | 4232.9 | 3827.1 | 3323.8 | 2912.6 | 2848.8 | 2738.9 | 2772.6 | 2727.4 | 2696.4 |
| 45° | 4729.1 | 4730.9 | 4644.1 | 4283.4 | 3717.2 | 3251.1 | 3165.2 | 2993.2 | 3073.0 | 3056.2 | 3073.9 |
| 47.5° | 5073.8 | 5069.4 | 5038.4 | 4726.5 | 4205.4 | 3687.1 | 3576.3 | 3376.9 | 3513.4 | 3575.4 | 3711.0 |
| 50° | 5407.9 | 5405.2 | 5407.0 | 5228.9 | 4772.5 | 4205.4 | 4083.2 | 3874.0 | 4181.5 | 4396.8 | 4639.6 |
| 52.5° | 5886.4 | 5901.4 | 5794.2 | 5747.2 | 5461.9 | 4817.7 | 4683.0 | 4466.8 | 4971.0 | 5310.4 | 5784.5 |
| 55° | 6366.6 | 6354.2 | 6270.0 | 6318.8 | 6183.2 | 5542.6 | 5401.7 | 5229.8 | 5850.0 | 6221.3 | 6933.7 |
| 57.5° | 6649.3 | 6653.7 | 6739.7 | 6978.0 | 7073.7 | 6446.4 | 6318.8 | 6185.9 | 6838.0 | 7101.2 | 7956.3 |
| 60° | 6903.6 | 6924.0 | 7171.2 | 7621.3 | 7881.0 | 7556.7 | 7443.2 | 7313.9 | 7744.5 | 7849.1 | 8844.2 |
| 62.5° | 6983.4 | 7046.3 | 7477.8 | 8151.2 | 8667.8 | 8809.6 | 8668.7 | 8383.4 | 8607.6 | 8566.8 | 9445.8 |
| 65° | 6585.5 | 6671.4 | 7445.0 | 8349.7 | 9370.5 | 9998.8 | 9909.3 | 9379.4 | 9343.0 | 9097.6 | 9544.2 |
| 67.5° | 5538.1 | 5624.1 | 6617.4 | 7933.3 | 9661.2 | 11028.4 | 10938.9 | 10106.0 | 9789.6 | 9147.2 | 8799.9 |
| 70° | 4052.1 | 4106.2 | 5056.1 | 6679.4 | 9077.2 | 11374.0 | 11405.0 | 10460.4 | 9630.1 | 8472.9 | 7225.3 |
| 72.5° | 2334.9 | 2454.5 | 3120.0 | 4699.0 | 7415.8 | 10500.3 | 10715.6 | 9723.2 | 8621.8 | 7068.4 | 5051.7 |
| 75° | 1004.0 | 1006.6 | 1442.6 | 2591.8 | 5022.4 | 8440.1 | 8648.3 | 8060.0 | 6770.7 | 4887.7 | 2697.3 |
| 77.5° | 477.6 | 486.5 | 634.4 | 1157.2 | 2764.6 | 5831.4 | 6393.2 | 5694.1 | 4330.4 | 2348.2 | 1019.0 |
| 80° | 310.1 | 316.3 | 388.1 | 574.2 | 1355.7 | 3381.4 | 3773.0 | 3284.8 | 1910.4 | 839.1 | 439.5 |
| 82.5° | 187.9 | 189.6 | 259.6 | 350.9 | 746.1 | 1531.2 | 1805.0 | 1425.7 | 815.2 | 502.4 | 258.7 |
| 85° | 114.3 | 115.2 | 157.7 | 217.1 | 452.8 | 529.0 | 543.2 | 538.7 | 478.5 | 328.7 | 138.2 |
| 87.5° | 54.9 | 56.7 | 81.5 | 102.8 | 178.1 | 163.9 | 155.1 | 179.9 | 226.0 | 177.2 | 59.4 |
| 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° | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 | 1662.3 |
| 2.5° | 1660.6 | 1657.9 | 1651.7 | 1649.0 | 1647.3 | 1648.1 | 1647.3 | 1647.3 | 1648.1 | 1648.1 | 1648.1 |
| 5° | 1668.5 | 1664.1 | 1654.3 | 1654.3 | 1659.7 | 1672.1 | 1683.6 | 1692.5 | 1702.2 | 1701.3 | 1701.3 |
| 7.5° | 1703.1 | 1695.1 | 1683.6 | 1687.1 | 1700.4 | 1719.9 | 1740.3 | 1759.8 | 1779.3 | 1781.1 | 1780.2 |
| 10° | 1753.6 | 1745.6 | 1733.2 | 1737.6 | 1758.9 | 1788.2 | 1813.8 | 1842.2 | 1863.5 | 1869.7 | 1867.9 |
| 12.5° | 1811.2 | 1795.2 | 1784.6 | 1797.0 | 1830.7 | 1869.7 | 1894.5 | 1915.7 | 1930.8 | 1939.7 | 1936.1 |
| 15° | 1869.7 | 1854.6 | 1842.2 | 1867.9 | 1908.7 | 1945.0 | 1957.4 | 1960.9 | 1963.6 | 1972.5 | 1970.7 |
| 17.5° | 1926.4 | 1906.0 | 1901.6 | 1935.2 | 1974.2 | 1990.2 | 1983.1 | 1968.0 | 1956.5 | 1963.6 | 1962.7 |
| 20° | 1976.9 | 1960.9 | 1959.2 | 1992.8 | 2007.9 | 1992.8 | 1962.7 | 1936.1 | 1915.7 | 1917.5 | 1916.6 |
| 22.5° | 2024.7 | 2012.3 | 2014.1 | 2028.3 | 2004.4 | 1953.0 | 1903.3 | 1867.0 | 1844.9 | 1849.3 | 1851.9 |
| 25° | 2077.9 | 2065.5 | 2069.9 | 2046.9 | 1968.0 | 1878.5 | 1806.8 | 1775.7 | 1766.9 | 1775.7 | 1781.9 |
| 27.5° | 2147.0 | 2139.0 | 2136.4 | 2047.8 | 1903.3 | 1768.7 | 1687.1 | 1675.6 | 1683.6 | 1703.1 | 1712.8 |
| 30° | 2221.5 | 2221.5 | 2207.3 | 2032.7 | 1814.7 | 1636.6 | 1565.7 | 1567.5 | 1595.0 | 1622.4 | 1632.2 |
| 32.5° | 2293.2 | 2308.3 | 2264.0 | 1992.0 | 1700.4 | 1508.1 | 1454.1 | 1455.9 | 1479.8 | 1513.5 | 1522.3 |
| 35° | 2352.6 | 2396.0 | 2312.7 | 1917.5 | 1565.7 | 1400.0 | 1359.3 | 1335.4 | 1336.2 | 1361.9 | 1369.0 |
| 37.5° | 2434.1 | 2514.8 | 2341.1 | 1806.8 | 1422.2 | 1307.9 | 1261.8 | 1220.2 | 1192.7 | 1182.1 | 1182.1 |
| 40° | 2575.9 | 2694.6 | 2348.2 | 1642.8 | 1286.6 | 1220.2 | 1154.6 | 1105.0 | 1051.8 | 1004.0 | 995.1 |
| 42.5° | 2816.0 | 2965.8 | 2334.0 | 1454.1 | 1164.3 | 1123.6 | 1059.8 | 998.6 | 925.1 | 857.7 | 852.4 |
| 45° | 3241.4 | 3318.4 | 2295.9 | 1258.3 | 1055.3 | 1030.5 | 968.5 | 902.1 | 824.1 | 763.8 | 759.4 |
| 47.5° | 3922.8 | 3813.8 | 2245.4 | 1084.6 | 956.1 | 949.0 | 901.2 | 824.1 | 746.1 | 704.4 | 700.0 |
| 50° | 4917.9 | 4593.5 | 2238.3 | 958.8 | 876.4 | 879.9 | 840.9 | 770.0 | 701.8 | 667.2 | 661.9 |
| 52.5° | 6115.9 | 5535.5 | 2285.3 | 870.2 | 806.4 | 819.6 | 800.1 | 734.6 | 674.3 | 645.1 | 639.8 |
| 55° | 7278.4 | 6382.6 | 2313.6 | 801.0 | 740.8 | 765.6 | 768.2 | 713.3 | 658.4 | 629.1 | 625.6 |
| 57.5° | 8222.1 | 7020.6 | 2187.8 | 738.1 | 684.1 | 722.2 | 741.7 | 700.9 | 650.4 | 628.2 | 624.7 |
| 60° | 8878.7 | 7321.8 | 1829.8 | 682.3 | 642.4 | 687.6 | 731.9 | 701.8 | 669.9 | 672.6 | 674.3 |
| 62.5° | 9087.8 | 7188.0 | 1372.6 | 640.7 | 614.1 | 676.1 | 747.9 | 738.1 | 705.3 | 725.7 | 729.3 |
| 65° | 8741.4 | 6635.1 | 995.1 | 607.9 | 589.3 | 684.1 | 795.7 | 764.7 | 692.9 | 708.0 | 708.0 |
| 67.5° | 7581.5 | 5716.2 | 774.5 | 577.7 | 560.9 | 699.1 | 843.6 | 762.0 | 663.7 | 681.4 | 665.5 |
| 70° | 6014.0 | 4421.6 | 645.1 | 544.1 | 530.8 | 677.0 | 848.0 | 734.6 | 629.1 | 632.7 | 602.5 |
| 72.5° | 3991.0 | 2907.3 | 554.7 | 512.2 | 484.7 | 608.8 | 811.7 | 699.1 | 595.5 | 575.1 | 545.0 |
| 75° | 1955.6 | 1449.7 | 483.8 | 472.3 | 424.4 | 529.9 | 762.0 | 665.5 | 559.1 | 527.2 | 510.4 |
| 77.5° | 757.6 | 616.7 | 412.9 | 421.8 | 369.5 | 467.0 | 696.5 | 617.6 | 511.3 | 467.9 | 454.6 |
| 80° | 367.7 | 350.0 | 338.5 | 351.8 | 303.9 | 397.9 | 636.2 | 576.0 | 467.0 | 419.1 | 399.6 |
| 82.5° | 228.6 | 216.2 | 259.6 | 273.8 | 233.9 | 363.3 | 603.4 | 540.5 | 411.2 | 347.4 | 331.4 |
| 85° | 116.1 | 124.1 | 173.7 | 187.0 | 167.5 | 288.9 | 497.1 | 405.8 | 296.8 | 246.3 | 248.1 |
| 87.5° | 44.3 | 59.4 | 91.3 | 98.4 | 89.5 | 152.4 | 273.8 | 236.6 | 190.5 | 129.4 | 119.6 |
| 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)