

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: P451666

Luminaire Tested: **GALN-SA2C-740-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14107 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

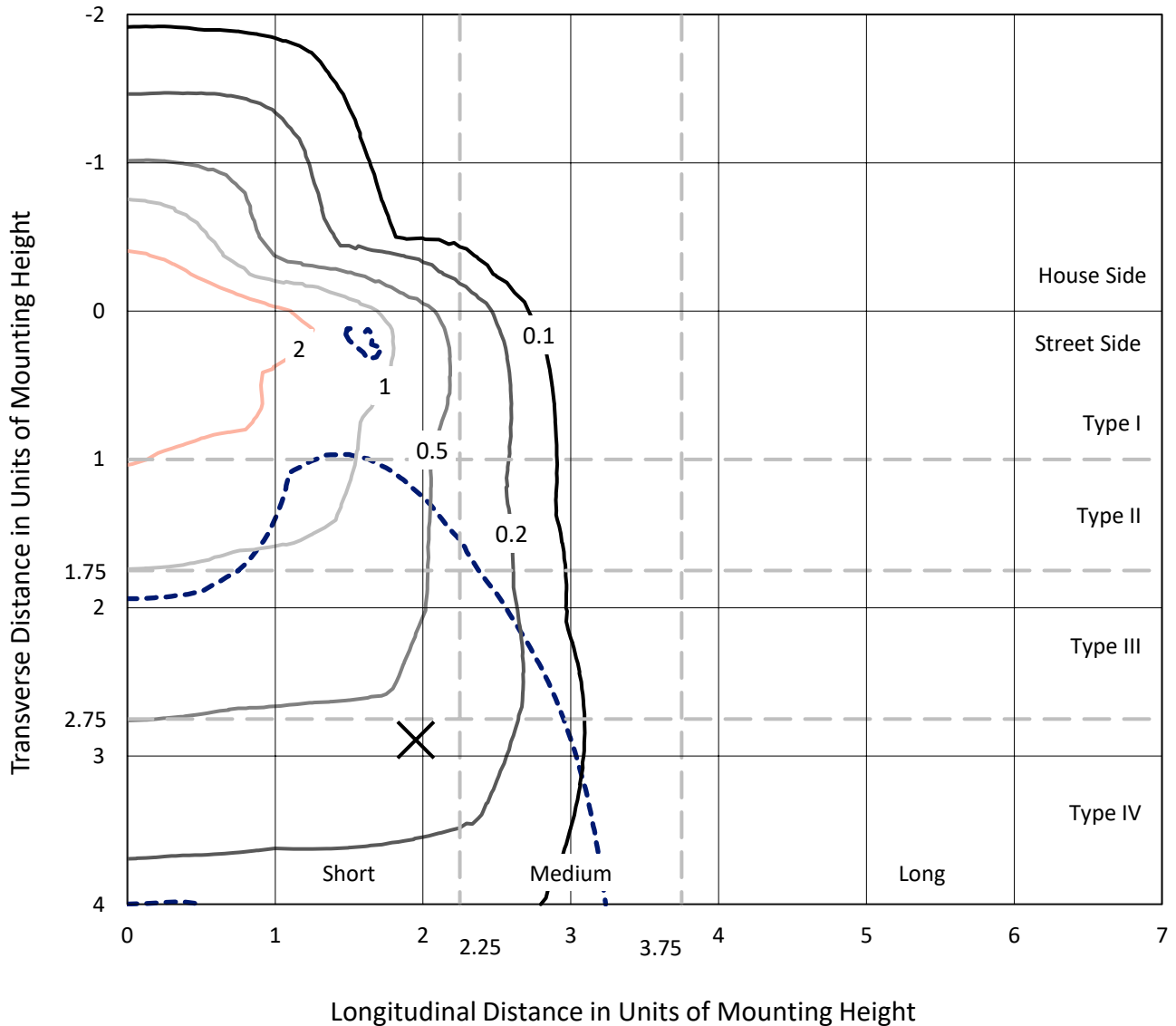
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

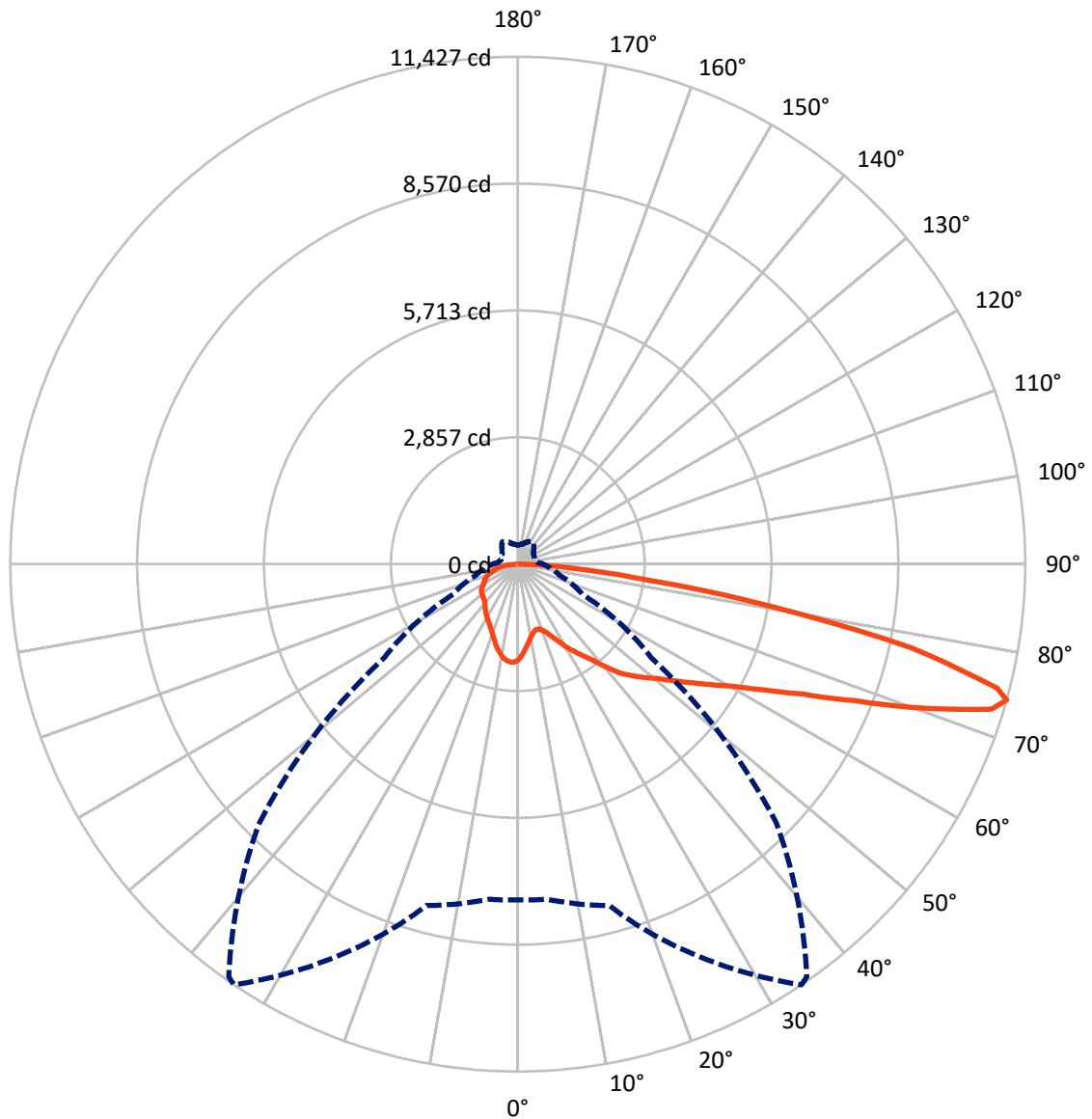
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3002.1 | 0.0 | 3002.1 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 11104.9 | 0.0 | 11104.9 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 14107.0 | 0.0 | 14107.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 195.9 | 1.4 |
| 10°-20° | 536.2 | 3.8 |
| 20°-30° | 884.1 | 6.3 |
| 30°-40° | 1324.3 | 9.4 |
| 40°-50° | 1925.1 | 13.6 |
| 50°-60° | 2689.0 | 19.1 |
| 60°-70° | 3366.4 | 23.9 |
| 70°-80° | 2783.8 | 19.7 |
| 80°-90° | 402.2 | 2.9 |
| 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° | 14107.0 | 100.0 |
| 0°-180° | 14107.0 | 100.0 |

Coefficient of Utilization



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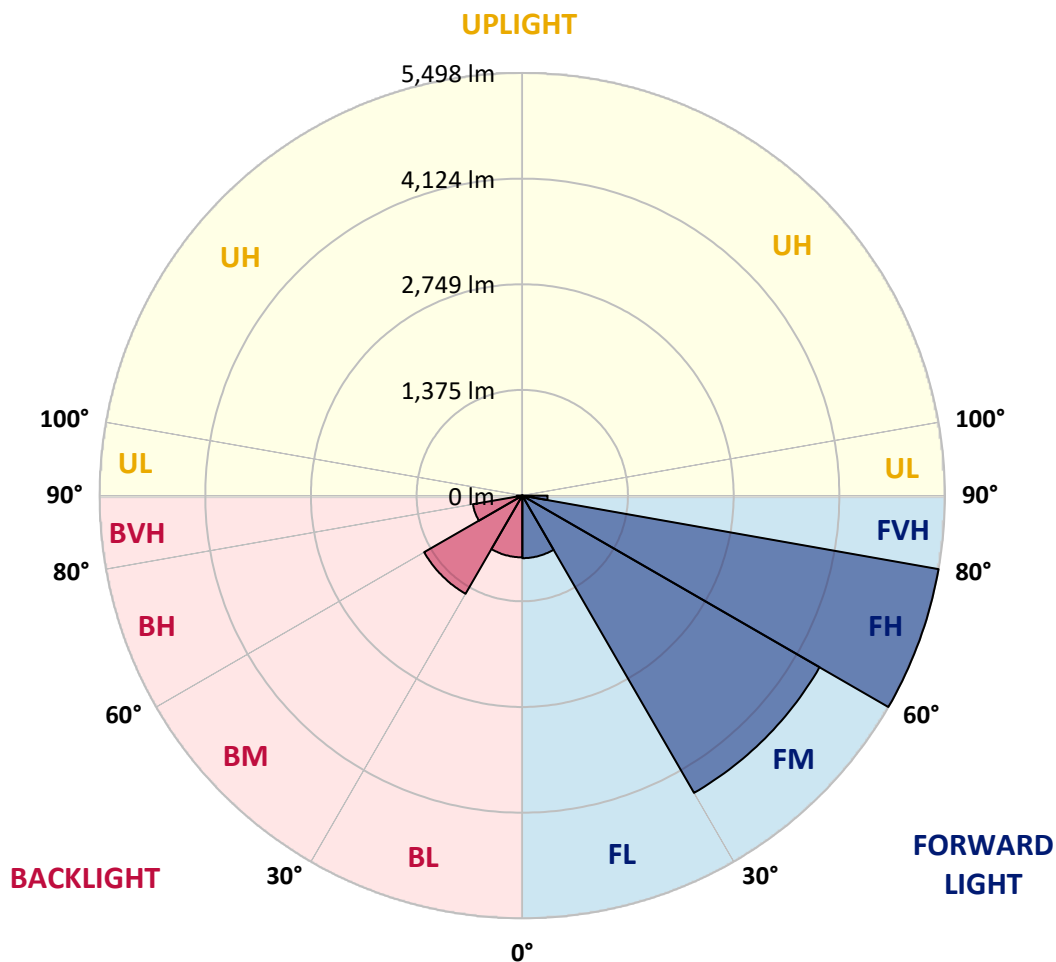
CATALOG NUMBER: GALN-SA2C-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 813.2 | 5.8 | | | |
| FM | (30°-60°) | 4464.0 | 31.6 | | | |
| FH | (60°-80°) | 5498.2 | 39.0 | | | G3/7500 |
| FVH | (80°-90°) | 329.5 | 2.3 | | | G3/500 |
| BL | (0°-30°) | 803.0 | 5.7 | B2/1000 | | |
| BM | (30°-60°) | 1474.3 | 10.5 | B2/2500 | | |
| BH | (60°-80°) | 652.0 | 4.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 72.7 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 |
| 2.5° | 1990.5 | 2000.7 | 2006.2 | 2025.7 | 2030.4 | 2036.6 | 2053.0 | 2074.9 | 2103.1 | 2128.1 | 2150.0 |
| 5° | 1824.8 | 1840.5 | 1849.8 | 1867.0 | 1900.6 | 1903.8 | 1947.5 | 1997.6 | 2054.6 | 2107.8 | 2151.5 |
| 7.5° | 1667.8 | 1684.9 | 1692.8 | 1724.0 | 1768.6 | 1775.6 | 1839.7 | 1918.6 | 2014.0 | 2094.5 | 2161.7 |
| 10° | 1549.7 | 1558.3 | 1575.5 | 1599.0 | 1652.1 | 1656.8 | 1740.4 | 1845.9 | 1969.4 | 2088.2 | 2178.9 |
| 12.5° | 1485.7 | 1490.4 | 1494.3 | 1519.3 | 1571.6 | 1578.7 | 1666.2 | 1785.8 | 1934.3 | 2092.9 | 2207.0 |
| 15° | 1495.0 | 1496.6 | 1479.4 | 1484.1 | 1526.3 | 1536.5 | 1623.2 | 1745.9 | 1912.4 | 2104.6 | 2249.2 |
| 17.5° | 1574.0 | 1568.5 | 1526.3 | 1504.4 | 1534.1 | 1538.8 | 1614.6 | 1730.3 | 1902.2 | 2126.5 | 2293.0 |
| 20° | 1698.2 | 1690.4 | 1617.7 | 1569.3 | 1586.5 | 1590.4 | 1642.7 | 1742.0 | 1912.4 | 2162.5 | 2361.0 |
| 22.5° | 1853.0 | 1849.8 | 1739.7 | 1681.0 | 1680.3 | 1680.3 | 1707.6 | 1784.2 | 1942.9 | 2211.7 | 2432.1 |
| 25° | 2069.5 | 2053.0 | 1909.2 | 1833.4 | 1812.3 | 1810.8 | 1807.6 | 1853.8 | 1981.9 | 2264.1 | 2516.5 |
| 27.5° | 2291.4 | 2263.3 | 2135.1 | 2018.7 | 1973.3 | 1967.9 | 1947.5 | 1952.2 | 2031.9 | 2323.4 | 2612.6 |
| 30° | 2490.7 | 2472.7 | 2352.4 | 2223.4 | 2169.5 | 2157.0 | 2100.7 | 2074.9 | 2115.6 | 2430.5 | 2765.8 |
| 32.5° | 2643.1 | 2632.1 | 2538.4 | 2421.1 | 2341.4 | 2339.1 | 2257.0 | 2235.9 | 2246.1 | 2560.2 | 2940.8 |
| 35° | 2766.6 | 2770.5 | 2722.8 | 2621.2 | 2529.8 | 2516.5 | 2461.8 | 2435.2 | 2405.5 | 2747.8 | 3161.2 |
| 37.5° | 2935.4 | 2944.0 | 2940.8 | 2853.3 | 2741.6 | 2744.7 | 2732.2 | 2688.4 | 2609.5 | 2957.3 | 3405.8 |
| 40° | 3121.4 | 3127.6 | 3126.8 | 3093.2 | 3034.6 | 3037.8 | 3033.1 | 2983.0 | 2865.0 | 3223.8 | 3677.8 |
| 42.5° | 3378.5 | 3348.8 | 3271.4 | 3305.0 | 3339.4 | 3354.3 | 3386.3 | 3338.6 | 3176.9 | 3508.2 | 3933.4 |
| 45° | 3666.1 | 3609.8 | 3434.8 | 3450.4 | 3577.8 | 3605.9 | 3782.5 | 3716.9 | 3515.3 | 3834.9 | 4234.3 |
| 47.5° | 3847.4 | 3791.9 | 3644.2 | 3641.1 | 3809.9 | 3837.2 | 4149.9 | 4125.6 | 3823.2 | 4187.4 | 4601.6 |
| 50° | 4009.2 | 4001.4 | 3834.9 | 3874.8 | 4039.7 | 4080.3 | 4550.0 | 4527.3 | 4130.3 | 4603.1 | 5001.7 |
| 52.5° | 4249.1 | 4185.8 | 4052.9 | 4135.0 | 4353.0 | 4406.2 | 4947.0 | 4880.6 | 4412.4 | 4970.4 | 5390.1 |
| 55° | 4357.0 | 4342.1 | 4334.3 | 4405.4 | 4704.7 | 4743.0 | 5333.1 | 5180.7 | 4653.2 | 5281.5 | 5685.5 |
| 57.5° | 4645.3 | 4618.0 | 4695.4 | 4743.8 | 5118.9 | 5177.5 | 5736.3 | 5494.1 | 4864.2 | 5528.4 | 5829.3 |
| 60° | 5018.9 | 5004.1 | 5075.2 | 5162.7 | 5581.6 | 5670.7 | 6195.9 | 5761.3 | 5033.7 | 5652.7 | 5750.4 |
| 62.5° | 5576.9 | 5575.3 | 5562.1 | 5749.6 | 6237.3 | 6319.3 | 6723.4 | 6021.6 | 5060.3 | 5559.7 | 5342.4 |
| 65° | 6377.2 | 6349.0 | 6233.4 | 6438.1 | 7053.2 | 7149.3 | 7272.8 | 6166.9 | 4900.1 | 5082.2 | 4498.4 |
| 67.5° | 7214.2 | 7212.6 | 7118.8 | 7384.6 | 8224.7 | 8323.9 | 7959.7 | 6134.9 | 4455.4 | 4117.0 | 3194.8 |
| 70° | 7908.2 | 7874.6 | 7994.1 | 8702.2 | 9721.3 | 9836.2 | 8560.7 | 5757.4 | 3548.9 | 2718.9 | 1898.3 |
| 72.5° | 8074.6 | 8076.2 | 8324.7 | 9718.2 | 11158.5 | 11176.5 | 8777.2 | 4666.4 | 2375.0 | 1499.7 | 949.5 |
| 74° | 7562.0 | 7575.2 | 7960.5 | 9769.0 | 11426.6 | 11345.3 | 8223.9 | 3667.7 | 1606.0 | 979.2 | 684.6 |
| 75° | 6902.4 | 6818.7 | 7376.0 | 9430.6 | 11148.3 | 11060.8 | 7576.0 | 2943.2 | 1225.4 | 782.3 | 599.4 |
| 77.5° | 3690.3 | 3775.5 | 4635.2 | 7037.6 | 9057.0 | 8956.2 | 5136.9 | 1411.4 | 661.9 | 544.7 | 431.4 |
| 80° | 1313.7 | 1448.9 | 2036.6 | 3682.5 | 5806.7 | 5837.9 | 2451.6 | 647.1 | 465.8 | 401.7 | 304.8 |
| 82.5° | 536.1 | 551.0 | 874.5 | 1634.2 | 2948.7 | 2976.8 | 1001.1 | 384.5 | 332.9 | 276.7 | 182.1 |
| 85° | 209.4 | 215.7 | 386.9 | 734.6 | 1258.2 | 1340.3 | 346.2 | 203.2 | 204.8 | 158.6 | 93.0 |
| 87.5° | 70.3 | 79.7 | 158.6 | 244.6 | 427.5 | 418.9 | 100.8 | 60.2 | 73.5 | 68.8 | 28.9 |
| 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° | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 | 2153.9 |
| 2.5° | 2160.9 | 2175.7 | 2185.9 | 2196.8 | 2207.0 | 2210.1 | 2207.8 | 2214.8 | 2215.6 | 2216.4 | 2217.2 |
| 5° | 2173.4 | 2193.7 | 2213.3 | 2224.2 | 2228.9 | 2225.0 | 2211.7 | 2204.7 | 2198.4 | 2193.7 | 2195.3 |
| 7.5° | 2190.6 | 2219.5 | 2237.5 | 2242.2 | 2229.7 | 2211.7 | 2178.9 | 2153.1 | 2136.7 | 2125.7 | 2124.9 |
| 10° | 2217.2 | 2245.3 | 2260.1 | 2246.9 | 2212.5 | 2168.7 | 2117.1 | 2068.7 | 2031.9 | 2021.0 | 2020.2 |
| 12.5° | 2250.8 | 2282.8 | 2282.0 | 2243.0 | 2182.8 | 2104.6 | 2021.0 | 1964.7 | 1914.7 | 1889.7 | 1899.9 |
| 15° | 2294.5 | 2318.8 | 2296.1 | 2225.8 | 2130.4 | 2023.3 | 1920.2 | 1843.6 | 1787.3 | 1760.8 | 1762.3 |
| 17.5° | 2345.3 | 2366.4 | 2306.3 | 2195.3 | 2057.0 | 1919.4 | 1799.8 | 1727.2 | 1682.6 | 1663.1 | 1661.5 |
| 20° | 2408.6 | 2414.9 | 2306.3 | 2142.1 | 1962.4 | 1798.3 | 1684.2 | 1633.4 | 1608.4 | 1598.2 | 1601.3 |
| 22.5° | 2476.6 | 2464.1 | 2293.8 | 2067.1 | 1838.1 | 1671.7 | 1595.1 | 1572.4 | 1559.9 | 1558.3 | 1559.9 |
| 25° | 2553.2 | 2518.0 | 2268.0 | 1965.5 | 1708.4 | 1562.3 | 1517.7 | 1521.6 | 1524.0 | 1524.0 | 1529.4 |
| 27.5° | 2647.0 | 2576.7 | 2225.0 | 1837.3 | 1556.8 | 1460.7 | 1448.2 | 1475.5 | 1488.0 | 1490.4 | 1494.3 |
| 30° | 2770.5 | 2640.7 | 2153.9 | 1677.1 | 1427.8 | 1369.2 | 1391.1 | 1427.8 | 1441.9 | 1450.5 | 1448.9 |
| 32.5° | 2917.4 | 2711.1 | 2057.7 | 1516.9 | 1323.9 | 1305.1 | 1331.7 | 1369.2 | 1384.8 | 1389.5 | 1383.3 |
| 35° | 3090.1 | 2790.8 | 1931.1 | 1366.9 | 1233.2 | 1244.2 | 1275.4 | 1287.2 | 1301.2 | 1301.2 | 1304.4 |
| 37.5° | 3276.1 | 2854.9 | 1776.4 | 1229.3 | 1162.9 | 1202.8 | 1225.4 | 1214.5 | 1208.2 | 1200.4 | 1204.3 |
| 40° | 3465.2 | 2902.6 | 1575.5 | 1093.3 | 1092.6 | 1159.8 | 1166.0 | 1134.8 | 1109.8 | 1101.9 | 1098.0 |
| 42.5° | 3630.1 | 2932.3 | 1394.2 | 987.8 | 1026.1 | 1117.6 | 1122.3 | 1072.2 | 1032.4 | 1008.9 | 1001.1 |
| 45° | 3824.7 | 2966.6 | 1216.8 | 900.3 | 964.4 | 1084.0 | 1095.7 | 1028.5 | 969.9 | 920.6 | 908.1 |
| 47.5° | 4091.2 | 3044.8 | 1076.9 | 832.3 | 919.8 | 1062.9 | 1079.3 | 992.5 | 915.2 | 851.1 | 840.9 |
| 50° | 4392.1 | 3151.9 | 968.3 | 786.2 | 885.5 | 1044.1 | 1064.4 | 955.8 | 864.4 | 793.2 | 785.4 |
| 52.5° | 4668.0 | 3209.7 | 874.5 | 744.8 | 851.9 | 1009.7 | 1044.9 | 929.2 | 814.3 | 735.4 | 728.4 |
| 55° | 4818.8 | 3115.9 | 782.3 | 704.1 | 805.7 | 965.2 | 1017.5 | 892.5 | 765.9 | 704.9 | 694.8 |
| 57.5° | 4839.2 | 2922.1 | 698.7 | 660.4 | 757.3 | 910.5 | 966.7 | 847.9 | 734.6 | 683.8 | 675.2 |
| 60° | 4682.1 | 2632.9 | 633.8 | 624.4 | 708.1 | 848.7 | 909.7 | 808.9 | 702.6 | 660.4 | 651.8 |
| 62.5° | 4291.3 | 2318.8 | 588.5 | 591.6 | 658.0 | 783.9 | 867.5 | 771.4 | 672.1 | 634.6 | 626.8 |
| 65° | 3619.2 | 1913.9 | 544.7 | 558.0 | 613.5 | 733.1 | 829.2 | 740.1 | 641.6 | 615.1 | 608.0 |
| 67.5° | 2514.1 | 1381.7 | 508.8 | 522.8 | 571.3 | 681.5 | 784.6 | 706.5 | 607.2 | 593.2 | 582.2 |
| 70° | 1391.9 | 850.3 | 466.6 | 483.0 | 527.5 | 623.7 | 734.6 | 655.7 | 557.2 | 551.0 | 535.3 |
| 72.5° | 731.5 | 541.6 | 418.9 | 436.9 | 468.1 | 549.4 | 658.0 | 600.2 | 508.0 | 481.4 | 461.1 |
| 74° | 571.3 | 443.9 | 386.9 | 405.6 | 426.7 | 505.6 | 612.7 | 560.3 | 472.8 | 441.6 | 425.9 |
| 75° | 497.8 | 395.4 | 359.5 | 383.7 | 402.5 | 475.9 | 577.5 | 532.2 | 453.3 | 423.6 | 409.5 |
| 77.5° | 351.7 | 296.2 | 293.9 | 322.8 | 332.9 | 417.3 | 520.5 | 484.5 | 404.0 | 372.8 | 359.5 |
| 80° | 247.0 | 222.0 | 232.9 | 250.9 | 264.9 | 368.9 | 483.0 | 418.9 | 331.4 | 294.6 | 289.9 |
| 82.5° | 161.0 | 145.4 | 166.5 | 182.9 | 187.6 | 272.0 | 390.0 | 318.1 | 241.5 | 196.2 | 182.1 |
| 85° | 74.2 | 72.7 | 95.3 | 93.0 | 92.2 | 132.9 | 231.3 | 186.0 | 139.1 | 103.9 | 97.7 |
| 87.5° | 18.8 | 18.0 | 23.4 | 19.5 | 23.4 | 20.3 | 21.1 | 5.5 | 0.8 | 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)