

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: P454826

Luminaire Tested: **GALN-SA6A-722-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14355 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 182
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

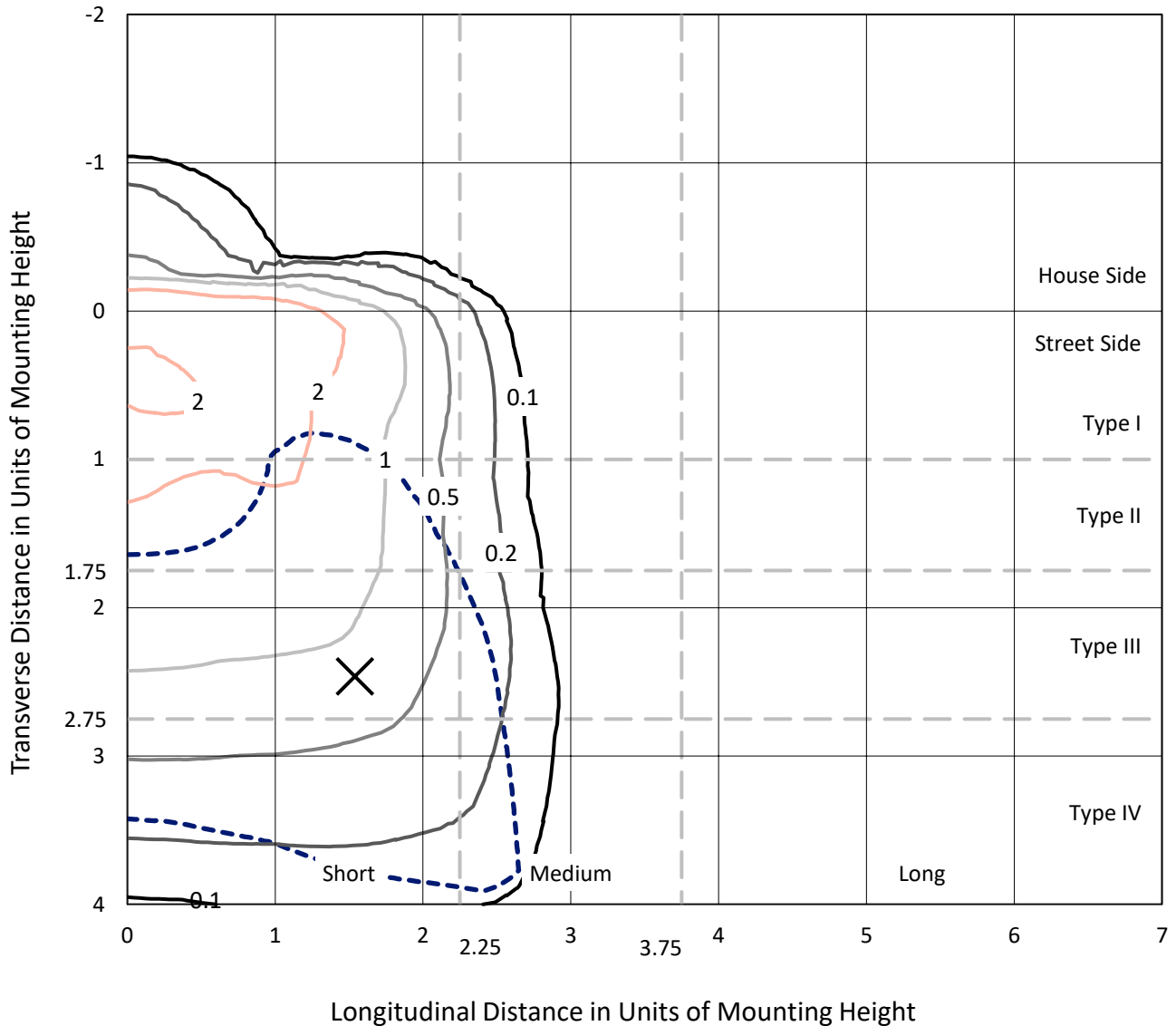




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Iso-Footcandle Lines of Horizontal Illumination

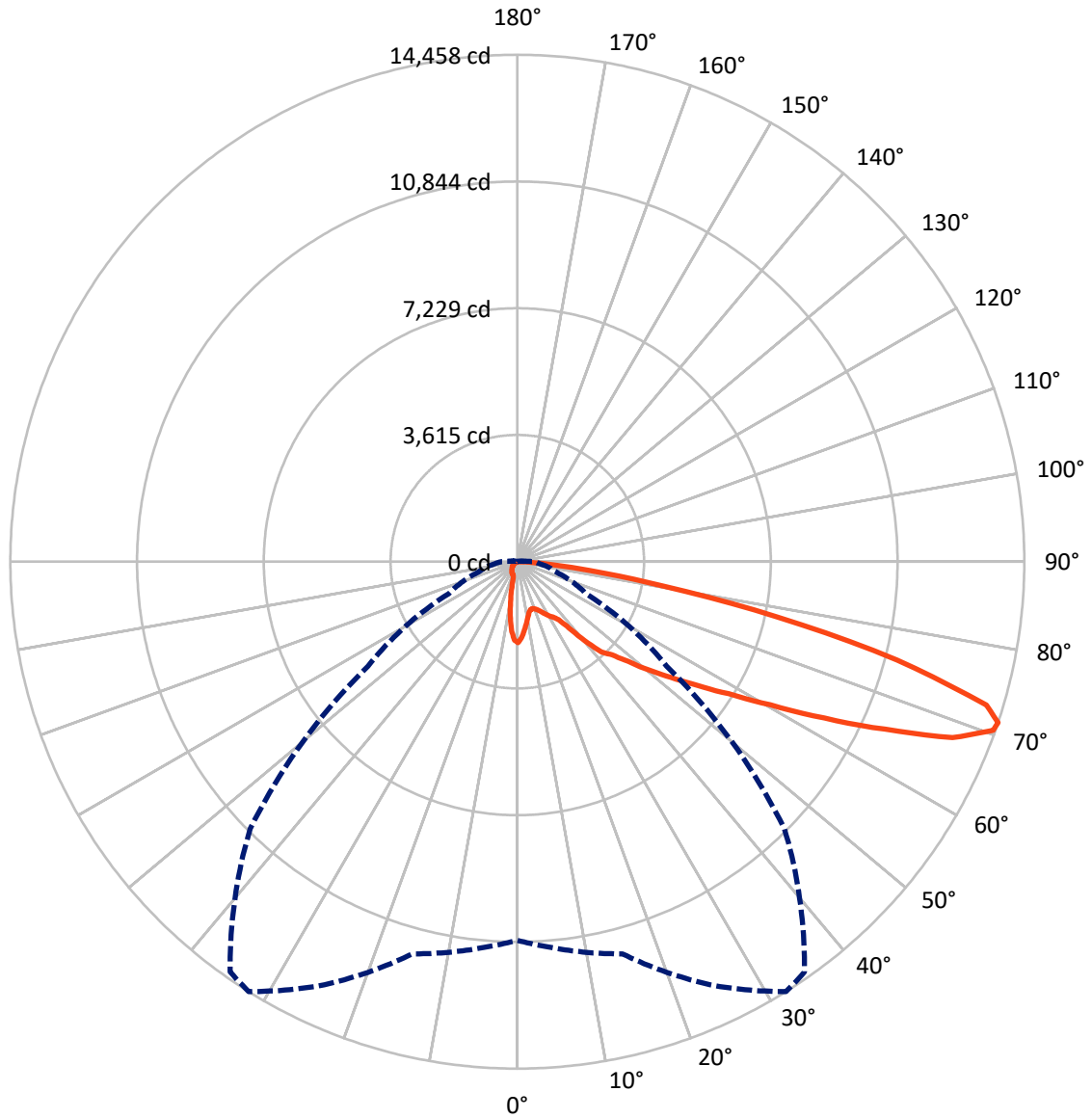
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1202.4 | 0.0 | 1202.4 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 13152.6 | 0.0 | 13152.6 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 14355.0 | 0.0 | 14355.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.7 | 1.3 |
| 10°-20° | 407.4 | 2.8 |
| 20°-30° | 633.8 | 4.4 |
| 30°-40° | 1055.9 | 7.4 |
| 40°-50° | 1964.1 | 13.7 |
| 50°-60° | 3153.5 | 22.0 |
| 60°-70° | 4241.5 | 29.5 |
| 70°-80° | 2516.6 | 17.5 |
| 80°-90° | 194.5 | 1.4 |
| 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° | 14355.0 | 100.0 |
| 0°-180° | 14355.0 | 100.0 |

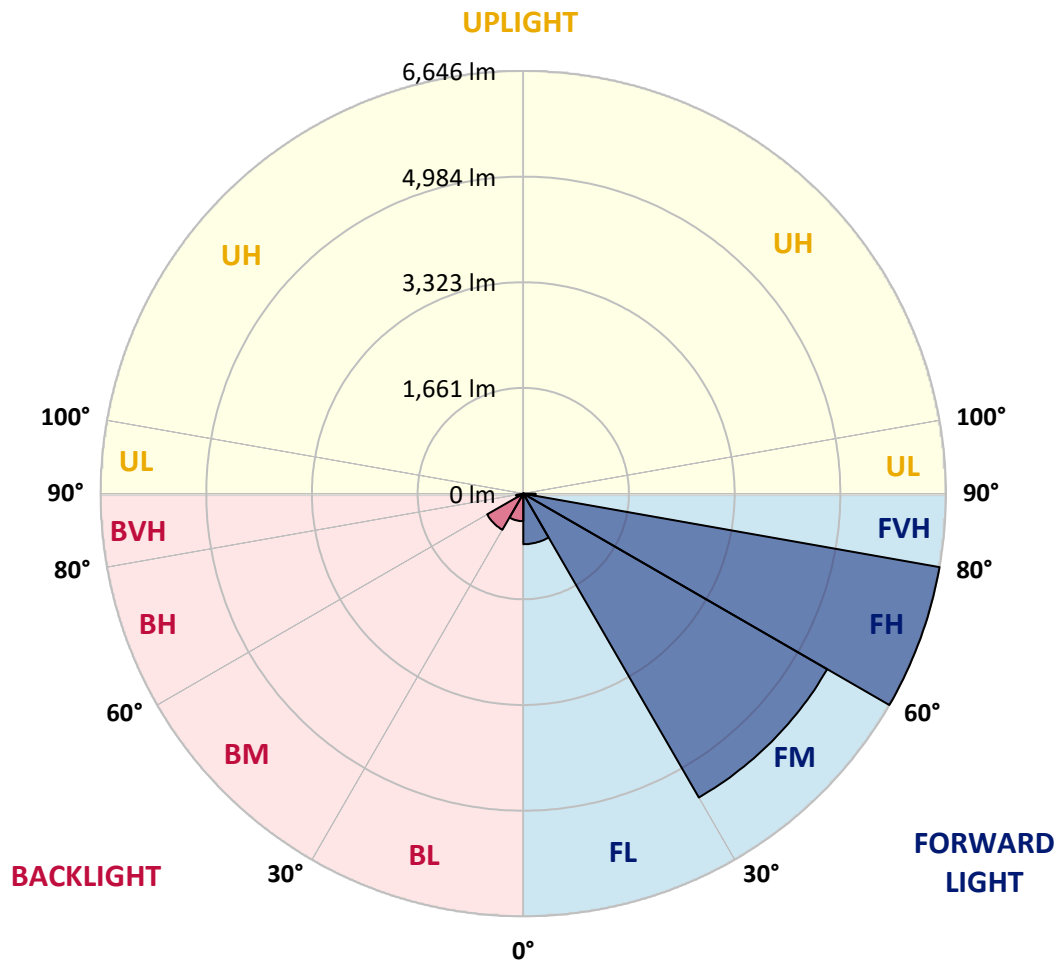


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 795.7 | 5.5 | | | |
| FM (30°-60°) | 5517.5 | 38.4 | | | |
| FH (60°-80°) | 6645.7 | 46.3 | | | G3/7500 |
| FVH (80°-90°) | 193.8 | 1.3 | | | G2/225 |
| BL (0°-30°) | 433.2 | 3.0 | B1/500 | | |
| BM (30°-60°) | 655.9 | 4.6 | B1/1000 | | |
| BH (60°-80°) | 112.5 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.8 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 |
| 2.5° | 2141.0 | 2163.1 | 2159.7 | 2167.5 | 2186.2 | 2193.9 | 2214.8 | 2238.0 | 2269.9 | 2292.0 | 2306.3 |
| 5° | 1917.3 | 1933.9 | 1936.1 | 1974.6 | 1993.4 | 2014.3 | 2076.0 | 2143.2 | 2218.2 | 2277.7 | 2317.3 |
| 7.5° | 1678.2 | 1687.0 | 1704.7 | 1755.3 | 1802.7 | 1823.7 | 1917.3 | 2034.1 | 2152.0 | 2263.3 | 2335.0 |
| 10° | 1481.0 | 1490.9 | 1522.8 | 1576.8 | 1620.9 | 1648.5 | 1778.5 | 1925.0 | 2090.3 | 2255.6 | 2360.3 |
| 12.5° | 1368.6 | 1374.1 | 1386.2 | 1434.7 | 1490.9 | 1520.6 | 1660.6 | 1828.1 | 2040.7 | 2258.9 | 2403.3 |
| 15° | 1360.9 | 1358.7 | 1344.3 | 1364.2 | 1414.9 | 1445.7 | 1582.3 | 1762.0 | 1996.7 | 2269.9 | 2454.0 |
| 17.5° | 1401.6 | 1396.1 | 1362.0 | 1362.0 | 1403.8 | 1429.2 | 1549.3 | 1726.7 | 1974.6 | 2295.3 | 2525.6 |
| 20° | 1464.4 | 1455.6 | 1399.4 | 1395.0 | 1435.8 | 1462.2 | 1569.1 | 1728.9 | 1979.0 | 2342.7 | 2621.5 |
| 22.5° | 1543.8 | 1533.9 | 1449.0 | 1451.2 | 1495.3 | 1521.7 | 1626.4 | 1768.6 | 2006.6 | 2401.1 | 2723.9 |
| 25° | 1647.4 | 1636.3 | 1536.1 | 1531.7 | 1577.9 | 1601.1 | 1711.3 | 1839.1 | 2045.2 | 2473.8 | 2858.4 |
| 27.5° | 1785.1 | 1762.0 | 1641.9 | 1635.2 | 1684.8 | 1714.6 | 1813.7 | 1933.9 | 2113.5 | 2574.1 | 3039.1 |
| 30° | 1898.6 | 1873.3 | 1758.7 | 1741.0 | 1793.9 | 1817.1 | 1919.5 | 2061.7 | 2247.9 | 2749.3 | 3289.2 |
| 32.5° | 2047.4 | 2009.9 | 1875.5 | 1829.2 | 1885.4 | 1915.1 | 2072.7 | 2299.7 | 2447.3 | 2934.4 | 3586.7 |
| 35° | 2382.3 | 2359.2 | 2195.0 | 2033.0 | 2029.7 | 2067.2 | 2298.6 | 2539.9 | 2652.3 | 3223.1 | 3992.2 |
| 37.5° | 2861.7 | 2845.1 | 2671.0 | 2454.0 | 2391.2 | 2373.5 | 2573.0 | 2804.4 | 2979.6 | 3619.8 | 4463.9 |
| 40° | 3418.1 | 3379.6 | 3219.8 | 3035.8 | 2954.2 | 2902.4 | 2896.9 | 3197.8 | 3407.1 | 4158.6 | 4955.3 |
| 42.5° | 3817.0 | 3746.5 | 3552.6 | 3539.3 | 3521.7 | 3467.7 | 3311.2 | 3773.0 | 3959.2 | 4738.2 | 5480.9 |
| 45° | 4235.8 | 4128.9 | 3840.2 | 3790.6 | 3784.0 | 3780.7 | 3937.1 | 4453.9 | 4560.8 | 5366.3 | 6020.9 |
| 47.5° | 4560.8 | 4476.0 | 4239.1 | 4217.0 | 4244.6 | 4319.5 | 4764.7 | 5176.8 | 5154.8 | 5926.1 | 6473.7 |
| 50° | 4993.9 | 4930.0 | 4666.6 | 4708.5 | 4850.6 | 4972.9 | 5698.0 | 5964.7 | 5642.9 | 6366.9 | 6803.2 |
| 52.5° | 5505.2 | 5387.3 | 5142.6 | 5256.1 | 5474.3 | 5678.2 | 6688.6 | 6654.5 | 5985.6 | 6698.5 | 7048.9 |
| 55° | 5948.1 | 5864.4 | 5780.6 | 5898.5 | 6224.7 | 6479.2 | 7583.4 | 7171.3 | 6234.6 | 6965.2 | 7156.9 |
| 57.5° | 6697.4 | 6677.6 | 6591.6 | 6711.8 | 7107.3 | 7371.8 | 8384.5 | 7572.3 | 6394.4 | 7104.0 | 7030.2 |
| 60° | 7806.0 | 7774.0 | 7614.2 | 7767.4 | 8283.1 | 8698.5 | 9122.7 | 7932.7 | 6430.8 | 7050.0 | 6665.5 |
| 62.5° | 9139.3 | 9030.2 | 8893.5 | 9119.4 | 9826.9 | 10009.8 | 9818.0 | 8146.4 | 6295.2 | 6620.3 | 5786.1 |
| 65° | 10384.4 | 10272.0 | 10275.3 | 10751.4 | 11521.6 | 11646.1 | 10629.1 | 8114.5 | 5898.5 | 5543.7 | 4267.7 |
| 67.5° | 11337.6 | 11318.9 | 11453.3 | 12382.2 | 13389.3 | 13303.4 | 11354.1 | 7636.3 | 4722.8 | 3593.3 | 2267.7 |
| 70° | 11386.1 | 11422.4 | 11808.1 | 13376.1 | 14398.7 | 14262.1 | 11292.4 | 6207.1 | 2944.3 | 1652.9 | 893.7 |
| 71° | 10799.9 | 11044.5 | 11577.8 | 13345.3 | 14458.2 | 14280.8 | 10772.3 | 5198.8 | 2159.7 | 1152.6 | 644.6 |
| 72.5° | 9203.2 | 9332.1 | 10484.7 | 12559.6 | 13987.7 | 13608.6 | 9453.3 | 3644.0 | 1382.9 | 705.2 | 370.2 |
| 75° | 5068.8 | 5386.2 | 7021.4 | 9853.3 | 11187.7 | 10854.9 | 6160.8 | 1731.1 | 689.8 | 385.7 | 153.2 |
| 77.5° | 2413.2 | 2351.5 | 3425.8 | 5860.0 | 7585.6 | 7567.9 | 3104.1 | 769.1 | 402.2 | 261.2 | 77.1 |
| 80° | 689.8 | 775.7 | 1311.3 | 2785.6 | 4211.5 | 4257.8 | 1192.3 | 371.3 | 278.8 | 203.9 | 39.7 |
| 82.5° | 208.3 | 212.7 | 481.5 | 1231.9 | 2094.7 | 1974.6 | 447.4 | 189.5 | 200.5 | 162.0 | 23.1 |
| 85° | 36.4 | 45.2 | 142.1 | 434.2 | 798.9 | 606.1 | 112.4 | 90.4 | 132.2 | 106.9 | 13.2 |
| 87.5° | 2.2 | 3.3 | 47.4 | 49.6 | 70.5 | 40.8 | 19.8 | 13.2 | 28.6 | 28.6 | 7.7 |
| 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° | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 | 2308.5 |
| 2.5° | 2316.2 | 2322.8 | 2318.4 | 2308.5 | 2292.0 | 2272.1 | 2245.7 | 2223.7 | 2204.9 | 2195.0 | 2207.1 |
| 5° | 2330.5 | 2339.4 | 2317.3 | 2267.7 | 2192.8 | 2111.3 | 2018.7 | 1947.1 | 1890.9 | 1873.3 | 1866.6 |
| 7.5° | 2352.6 | 2358.1 | 2298.6 | 2188.4 | 2029.7 | 1836.9 | 1668.3 | 1526.1 | 1416.0 | 1382.9 | 1334.4 |
| 10° | 2381.2 | 2377.9 | 2265.5 | 2060.6 | 1781.8 | 1492.0 | 1230.8 | 1036.9 | 890.3 | 837.5 | 833.0 |
| 12.5° | 2425.3 | 2407.7 | 2223.7 | 1886.5 | 1486.5 | 1107.4 | 784.6 | 613.8 | 521.2 | 490.4 | 483.7 |
| 15° | 2480.4 | 2438.5 | 2157.5 | 1682.6 | 1138.3 | 715.1 | 483.7 | 431.9 | 419.8 | 417.6 | 415.4 |
| 17.5° | 2545.4 | 2479.3 | 2070.5 | 1432.5 | 800.0 | 463.9 | 404.4 | 403.3 | 404.4 | 402.2 | 401.1 |
| 20° | 2633.6 | 2522.3 | 1966.9 | 1136.1 | 528.9 | 391.2 | 385.7 | 385.7 | 386.8 | 385.7 | 385.7 |
| 22.5° | 2727.2 | 2573.0 | 1839.1 | 867.2 | 398.9 | 371.3 | 370.2 | 372.4 | 374.7 | 373.5 | 373.5 |
| 25° | 2842.9 | 2639.1 | 1670.5 | 593.9 | 357.0 | 354.8 | 355.9 | 360.3 | 364.7 | 365.8 | 364.7 |
| 27.5° | 3010.4 | 2720.6 | 1489.8 | 408.8 | 327.3 | 329.5 | 340.5 | 351.5 | 358.1 | 359.2 | 359.2 |
| 30° | 3198.9 | 2811.0 | 1254.0 | 331.7 | 303.0 | 303.0 | 316.2 | 337.2 | 351.5 | 353.7 | 354.8 |
| 32.5° | 3441.3 | 2915.7 | 992.8 | 298.6 | 279.9 | 277.7 | 289.8 | 315.1 | 341.6 | 349.3 | 349.3 |
| 35° | 3741.0 | 3039.1 | 738.3 | 277.7 | 263.4 | 257.8 | 264.5 | 285.4 | 319.6 | 341.6 | 343.8 |
| 37.5° | 4092.5 | 3155.9 | 539.9 | 258.9 | 247.9 | 240.2 | 244.6 | 261.2 | 288.7 | 321.8 | 330.6 |
| 40° | 4417.6 | 3259.5 | 403.3 | 243.5 | 232.5 | 227.0 | 230.3 | 238.0 | 261.2 | 292.0 | 297.5 |
| 42.5° | 4772.4 | 3339.9 | 320.7 | 227.0 | 217.1 | 214.9 | 214.9 | 218.2 | 233.6 | 251.2 | 252.3 |
| 45° | 5126.1 | 3368.5 | 268.9 | 207.2 | 200.5 | 202.8 | 201.7 | 199.4 | 206.1 | 203.9 | 203.9 |
| 47.5° | 5378.4 | 3334.4 | 222.6 | 188.4 | 188.4 | 191.7 | 186.2 | 178.5 | 175.2 | 162.0 | 163.1 |
| 50° | 5551.4 | 3209.9 | 182.9 | 166.4 | 175.2 | 179.6 | 168.6 | 156.5 | 144.4 | 130.0 | 126.7 |
| 52.5° | 5623.1 | 2988.4 | 149.9 | 137.7 | 155.4 | 160.9 | 147.7 | 133.3 | 114.6 | 102.5 | 99.2 |
| 55° | 5576.8 | 2715.1 | 124.5 | 112.4 | 131.1 | 137.7 | 124.5 | 108.0 | 87.1 | 73.8 | 71.6 |
| 57.5° | 5372.9 | 2388.9 | 105.8 | 89.3 | 104.7 | 109.1 | 100.3 | 82.6 | 61.7 | 48.5 | 48.5 |
| 60° | 5020.3 | 2051.8 | 85.9 | 70.5 | 78.2 | 84.8 | 76.0 | 59.5 | 41.9 | 29.8 | 27.5 |
| 62.5° | 4305.2 | 1666.1 | 69.4 | 55.1 | 55.1 | 60.6 | 52.9 | 43.0 | 26.4 | 15.4 | 14.3 |
| 65° | 3108.5 | 1142.7 | 55.1 | 40.8 | 39.7 | 39.7 | 33.1 | 28.6 | 15.4 | 6.6 | 4.4 |
| 67.5° | 1689.2 | 644.6 | 44.1 | 30.9 | 27.5 | 26.4 | 20.9 | 16.5 | 6.6 | 1.1 | 0.0 |
| 70° | 664.5 | 247.9 | 34.2 | 20.9 | 17.6 | 16.5 | 11.0 | 7.7 | 4.4 | 0.0 | 0.0 |
| 71° | 450.7 | 170.8 | 29.8 | 17.6 | 14.3 | 12.1 | 8.8 | 6.6 | 3.3 | 0.0 | 0.0 |
| 72.5° | 257.8 | 105.8 | 23.1 | 13.2 | 11.0 | 8.8 | 6.6 | 4.4 | 3.3 | 0.0 | 0.0 |
| 75° | 112.4 | 54.0 | 14.3 | 9.9 | 7.7 | 5.5 | 4.4 | 3.3 | 1.1 | 0.0 | 0.0 |
| 77.5° | 57.3 | 29.8 | 9.9 | 7.7 | 4.4 | 3.3 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| 80° | 32.0 | 15.4 | 6.6 | 4.4 | 3.3 | 2.2 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 |
| 82.5° | 17.6 | 8.8 | 3.3 | 2.2 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 11.0 | 5.5 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.5 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 1.1 | 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)