

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: P451809

Luminaire Tested: **GALN-SA2D-722-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-722-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11703 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

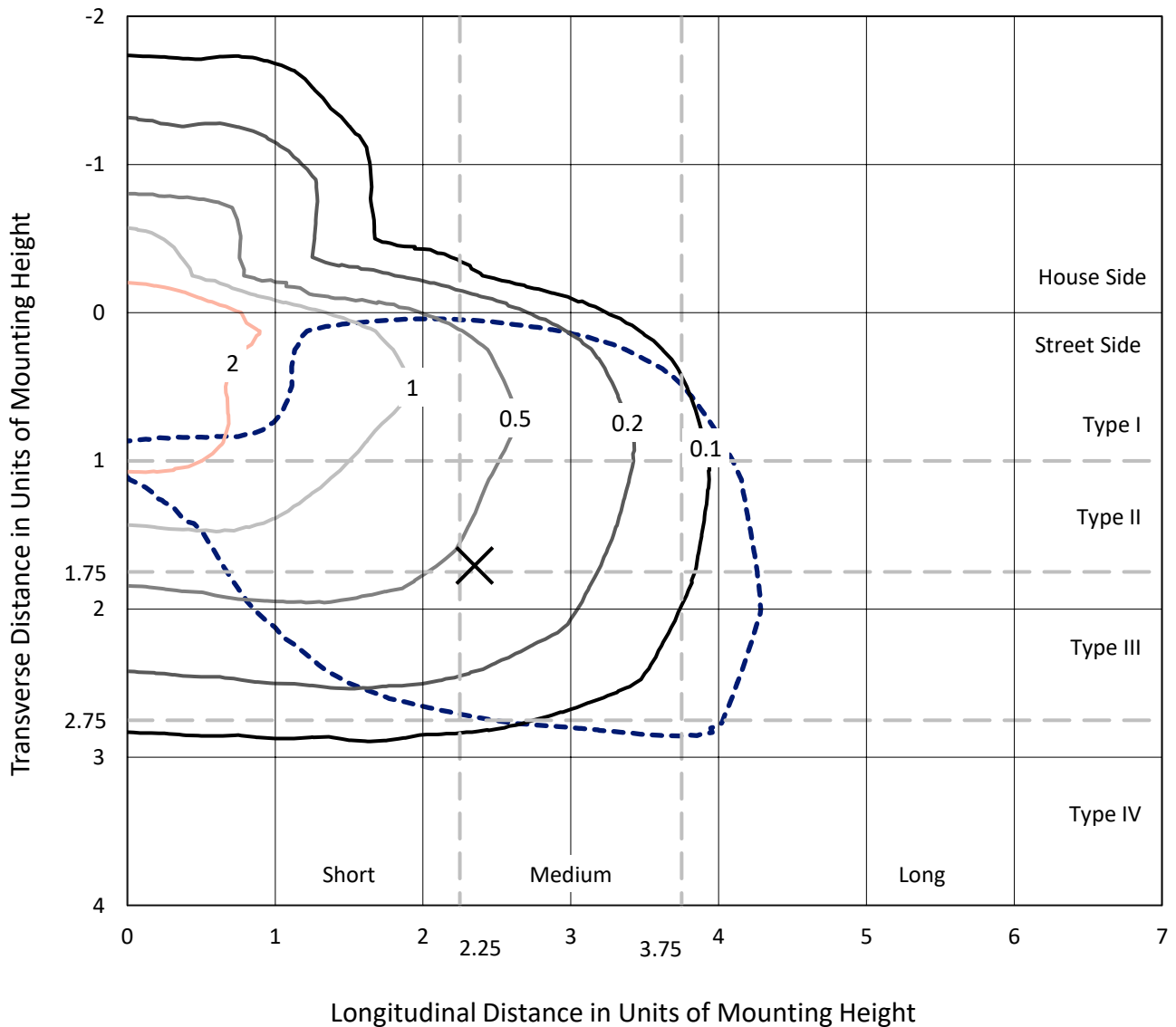
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

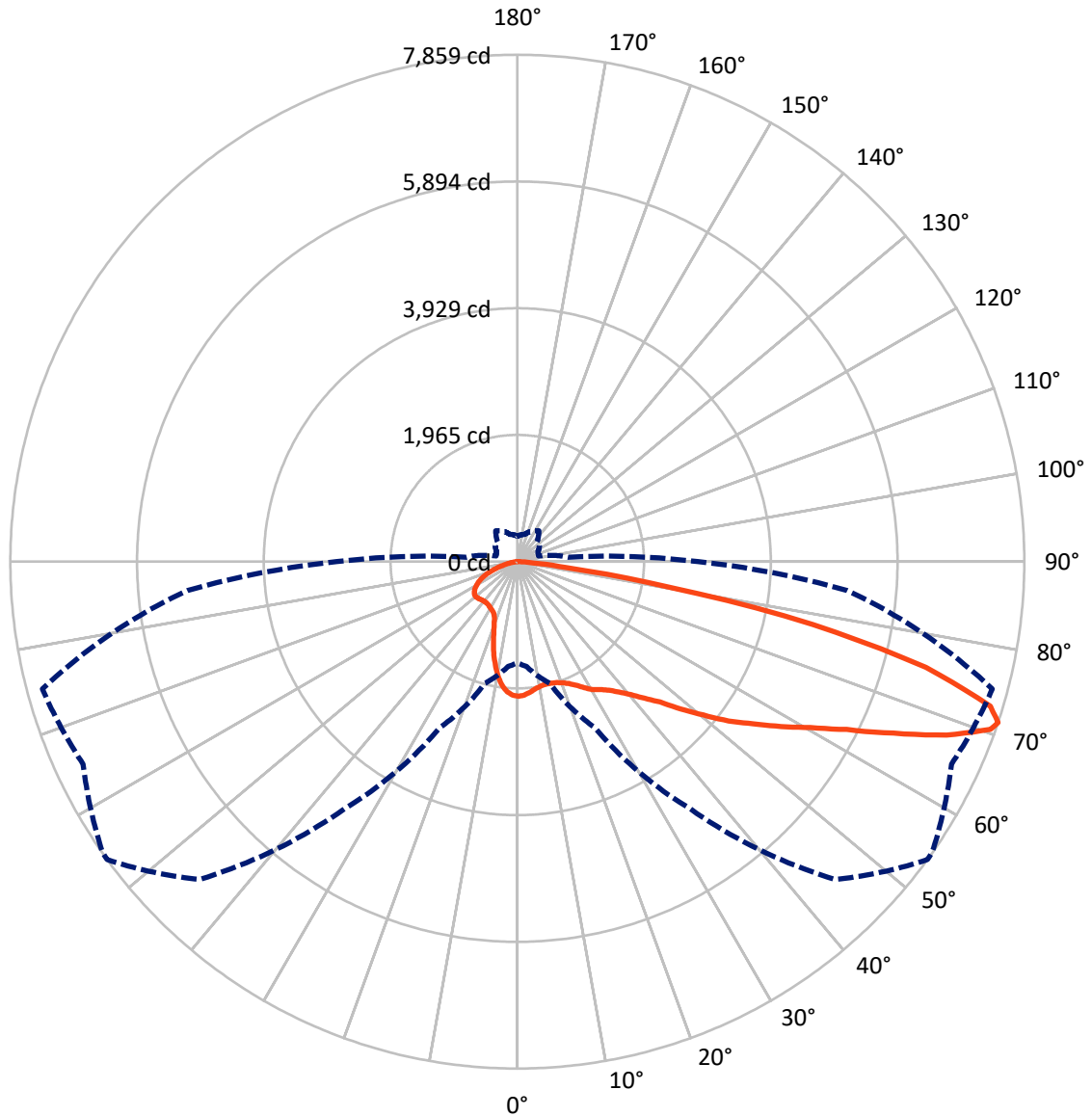
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2112.9 | 0.0 | 2112.9 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 9590.1 | 0.0 | 9590.1 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 11703.0 | 0.0 | 11703.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 186.1 | 1.6 |
| 10°-20° | 491.3 | 4.2 |
| 20°-30° | 818.1 | 7.0 |
| 30°-40° | 1209.7 | 10.3 |
| 40°-50° | 1703.8 | 14.6 |
| 50°-60° | 2281.5 | 19.5 |
| 60°-70° | 2875.7 | 24.6 |
| 70°-80° | 1964.1 | 16.8 |
| 80°-90° | 172.7 | 1.5 |
| 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° | 11703.0 | 100.0 |
| 0°-180° | 11703.0 | 100.0 |

Coefficient of Utilization

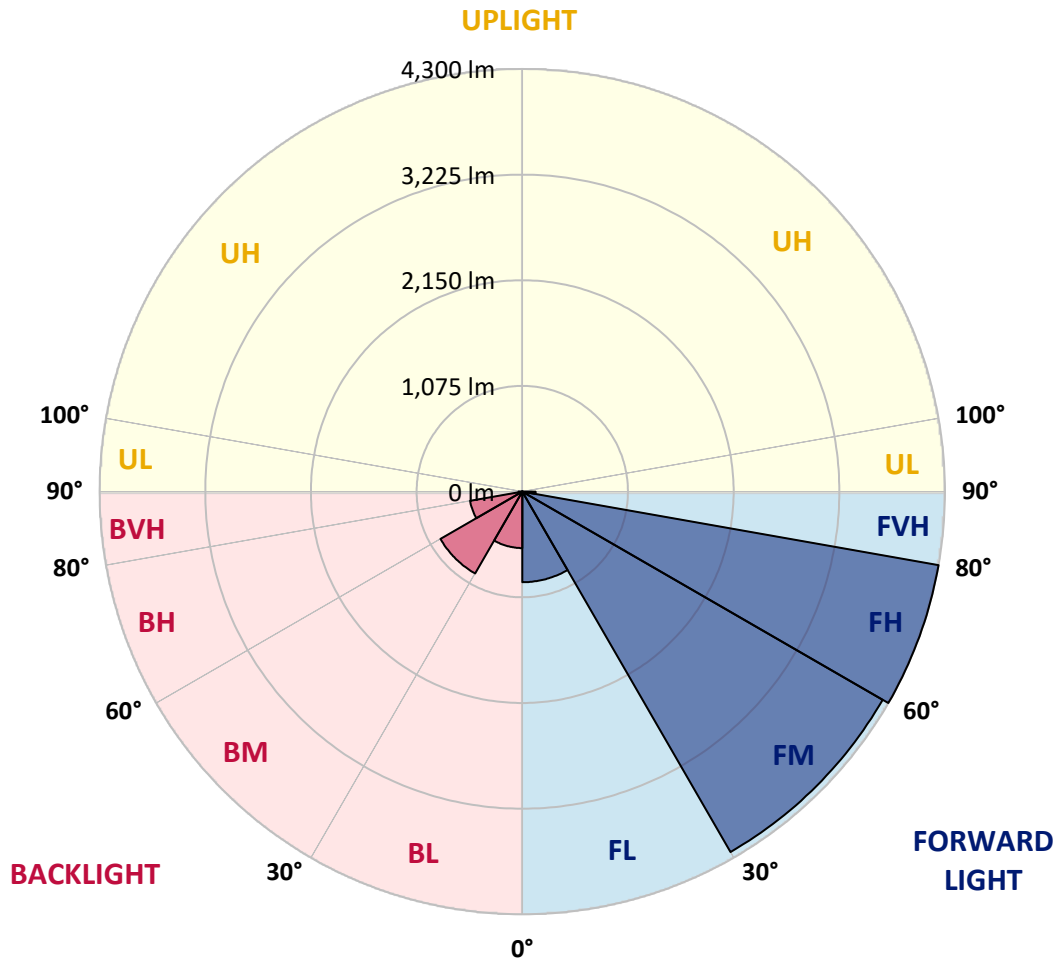


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 921.2 | 7.9 | | | |
| FM | (30°-60°) | 4233.7 | 36.2 | | | |
| FH | (60°-80°) | 4300.1 | 36.7 | | | G2/5000 |
| FVH | (80°-90°) | 135.0 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 574.2 | 4.9 | B2/1000 | | |
| BM | (30°-60°) | 961.3 | 8.2 | B1/1000 | | |
| BH | (60°-80°) | 539.6 | 4.6 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 37.7 | 0.3 | | | 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 IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 |
| 2.5° | 2017.2 | 2026.7 | 2029.2 | 2035.5 | 2048.8 | 2059.5 | 2070.3 | 2069.0 | 2084.2 | 2090.5 | 2096.2 |
| 5° | 1927.4 | 1930.0 | 1939.4 | 1952.1 | 1975.5 | 2005.2 | 2034.3 | 2034.9 | 2072.2 | 2101.9 | 2116.4 |
| 7.5° | 1861.7 | 1869.9 | 1876.2 | 1889.5 | 1914.1 | 1946.4 | 1992.5 | 1996.3 | 2062.7 | 2121.5 | 2152.5 |
| 10° | 1818.7 | 1828.2 | 1835.1 | 1851.6 | 1876.2 | 1912.3 | 1962.2 | 1969.1 | 2055.7 | 2152.5 | 2206.8 |
| 12.5° | 1779.5 | 1789.0 | 1795.3 | 1816.8 | 1849.0 | 1893.3 | 1949.5 | 1957.8 | 2058.3 | 2188.5 | 2266.3 |
| 15° | 1803.5 | 1811.1 | 1808.6 | 1814.9 | 1836.4 | 1887.0 | 1954.6 | 1962.8 | 2067.8 | 2223.3 | 2325.0 |
| 17.5° | 1910.4 | 1916.7 | 1895.8 | 1871.8 | 1861.7 | 1899.0 | 1970.4 | 1979.3 | 2086.7 | 2259.3 | 2385.1 |
| 20° | 2067.8 | 2084.8 | 2039.3 | 1985.6 | 1936.9 | 1942.0 | 2003.3 | 2012.8 | 2113.3 | 2295.3 | 2446.4 |
| 22.5° | 2272.6 | 2285.2 | 2229.6 | 2141.1 | 2051.3 | 2005.2 | 2052.6 | 2058.3 | 2153.1 | 2342.1 | 2513.4 |
| 25° | 2513.4 | 2521.0 | 2443.9 | 2330.1 | 2200.5 | 2113.3 | 2120.2 | 2130.3 | 2218.8 | 2395.2 | 2572.8 |
| 27.5° | 2747.3 | 2771.3 | 2682.2 | 2543.1 | 2372.5 | 2227.1 | 2213.2 | 2219.5 | 2290.3 | 2424.9 | 2613.9 |
| 30° | 3024.8 | 3022.9 | 2928.7 | 2767.5 | 2548.8 | 2351.0 | 2301.0 | 2299.8 | 2328.8 | 2439.5 | 2643.6 |
| 32.5° | 3246.1 | 3272.0 | 3179.7 | 3004.0 | 2750.5 | 2479.3 | 2361.7 | 2359.2 | 2358.5 | 2464.7 | 2687.9 |
| 35° | 3497.7 | 3501.5 | 3416.8 | 3239.8 | 2968.6 | 2640.5 | 2446.4 | 2433.8 | 2419.2 | 2519.1 | 2748.0 |
| 37.5° | 3722.7 | 3740.4 | 3662.7 | 3464.2 | 3182.9 | 2808.0 | 2562.7 | 2554.5 | 2510.3 | 2613.3 | 2844.0 |
| 40° | 3898.5 | 3911.7 | 3865.0 | 3675.9 | 3394.0 | 2988.8 | 2710.7 | 2695.5 | 2641.8 | 2767.5 | 2972.4 |
| 42.5° | 3956.0 | 3983.2 | 4001.5 | 3908.6 | 3636.8 | 3203.1 | 2892.7 | 2873.7 | 2832.7 | 3001.4 | 3120.3 |
| 45° | 3960.4 | 4003.4 | 4100.1 | 4104.5 | 3880.8 | 3459.8 | 3105.1 | 3091.8 | 3088.7 | 3301.1 | 3328.3 |
| 47.5° | 3926.9 | 3970.5 | 4133.0 | 4220.9 | 4098.2 | 3718.9 | 3411.7 | 3390.8 | 3392.7 | 3671.5 | 3561.5 |
| 50° | 3846.0 | 3897.8 | 4095.1 | 4295.5 | 4268.3 | 3988.2 | 3735.4 | 3728.4 | 3767.6 | 4094.4 | 3803.6 |
| 52.5° | 3693.6 | 3756.2 | 4055.9 | 4342.2 | 4394.7 | 4220.2 | 4103.3 | 4083.7 | 4182.9 | 4553.4 | 4068.5 |
| 55° | 3272.0 | 3366.2 | 3912.4 | 4368.2 | 4514.8 | 4442.1 | 4434.5 | 4469.9 | 4601.4 | 5054.0 | 4359.9 |
| 57.5° | 3052.0 | 3122.8 | 3600.7 | 4372.6 | 4666.5 | 4700.0 | 4821.4 | 4830.3 | 5060.4 | 5585.7 | 4689.3 |
| 60° | 2931.9 | 2994.5 | 3430.0 | 4343.5 | 4878.3 | 5019.3 | 5217.1 | 5248.7 | 5508.5 | 6161.6 | 5030.6 |
| 62.5° | 2827.0 | 2880.7 | 3327.6 | 4243.0 | 5117.2 | 5492.7 | 5729.8 | 5745.0 | 6017.4 | 6797.5 | 5367.6 |
| 65° | 2579.8 | 2641.1 | 3121.6 | 4142.5 | 5323.3 | 6084.4 | 6410.0 | 6392.3 | 6559.2 | 7346.2 | 5578.7 |
| 67.5° | 2246.7 | 2324.4 | 2736.6 | 3795.4 | 5425.1 | 6731.1 | 7176.2 | 7154.0 | 7094.0 | 7705.9 | 5639.4 |
| 70° | 1821.2 | 1862.9 | 2244.1 | 3195.5 | 5018.6 | 7070.6 | 7781.1 | 7757.7 | 7425.2 | 7753.3 | 5352.4 |
| 71° | 1567.1 | 1632.2 | 1954.0 | 2838.3 | 4680.4 | 6966.9 | 7858.9 | 7852.6 | 7425.9 | 7622.5 | 5136.2 |
| 72.5° | 1223.2 | 1263.0 | 1547.5 | 2199.2 | 3978.1 | 6377.8 | 7666.7 | 7690.7 | 7264.7 | 7259.0 | 4690.5 |
| 75° | 773.8 | 791.5 | 971.0 | 1294.6 | 2182.8 | 4516.7 | 6544.6 | 6609.8 | 6450.4 | 5941.6 | 3488.2 |
| 77.5° | 449.5 | 472.2 | 581.6 | 763.0 | 943.2 | 2451.5 | 4683.0 | 4753.8 | 4481.9 | 3271.4 | 1428.0 |
| 80° | 261.7 | 287.0 | 383.1 | 443.1 | 433.0 | 909.7 | 2384.5 | 2505.2 | 1940.7 | 826.2 | 400.8 |
| 82.5° | 145.4 | 162.5 | 269.3 | 269.9 | 230.7 | 297.1 | 750.4 | 785.1 | 553.8 | 333.1 | 163.7 |
| 85° | 105.6 | 119.5 | 173.8 | 157.4 | 110.6 | 127.7 | 261.1 | 273.7 | 223.8 | 140.3 | 53.1 |
| 87.5° | 37.3 | 53.1 | 95.5 | 75.9 | 30.3 | 26.6 | 75.2 | 61.3 | 56.9 | 39.2 | 12.0 |
| 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° | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 | 2088.0 |
| 2.5° | 2099.4 | 2100.6 | 2094.3 | 2082.9 | 2071.6 | 2057.0 | 2040.6 | 2027.9 | 2022.2 | 2021.6 | 2021.0 |
| 5° | 2122.1 | 2125.3 | 2101.3 | 2065.9 | 2026.7 | 1978.6 | 1937.5 | 1890.8 | 1878.7 | 1859.8 | 1865.5 |
| 7.5° | 2158.8 | 2156.9 | 2109.5 | 2034.3 | 1942.6 | 1840.8 | 1754.8 | 1704.9 | 1653.1 | 1638.5 | 1639.2 |
| 10° | 2211.3 | 2199.2 | 2109.5 | 1969.8 | 1816.8 | 1665.7 | 1545.6 | 1469.7 | 1428.7 | 1394.5 | 1381.9 |
| 12.5° | 2266.9 | 2236.5 | 2089.3 | 1879.4 | 1655.0 | 1469.7 | 1340.8 | 1238.4 | 1211.8 | 1184.0 | 1184.6 |
| 15° | 2320.0 | 2269.4 | 2049.4 | 1752.3 | 1480.5 | 1260.5 | 1135.3 | 1074.0 | 1065.8 | 1069.0 | 1068.3 |
| 17.5° | 2368.0 | 2292.8 | 1988.7 | 1610.7 | 1276.9 | 1081.0 | 1014.6 | 1019.0 | 1041.1 | 1057.0 | 1058.8 |
| 20° | 2416.7 | 2306.7 | 1898.3 | 1421.1 | 1084.8 | 972.2 | 974.8 | 1009.5 | 1043.0 | 1064.5 | 1067.7 |
| 22.5° | 2462.9 | 2313.0 | 1792.1 | 1237.7 | 945.7 | 926.1 | 963.4 | 1000.7 | 1033.6 | 1054.4 | 1057.6 |
| 25° | 2493.2 | 2298.5 | 1641.7 | 1046.2 | 877.4 | 909.7 | 948.9 | 980.5 | 1008.3 | 1029.8 | 1034.8 |
| 27.5° | 2501.4 | 2251.7 | 1455.2 | 891.3 | 845.8 | 893.9 | 929.9 | 953.3 | 974.8 | 995.0 | 998.8 |
| 30° | 2497.0 | 2182.8 | 1250.4 | 800.3 | 827.5 | 875.5 | 903.3 | 920.4 | 946.3 | 962.1 | 965.3 |
| 32.5° | 2490.0 | 2102.5 | 1036.7 | 751.6 | 812.3 | 858.5 | 874.9 | 890.1 | 889.4 | 883.1 | 887.5 |
| 35° | 2492.6 | 2006.4 | 863.5 | 722.5 | 799.0 | 845.8 | 859.7 | 840.8 | 786.4 | 783.9 | 781.3 |
| 37.5° | 2505.8 | 1911.6 | 737.7 | 702.3 | 792.1 | 843.9 | 851.5 | 764.3 | 716.2 | 694.1 | 688.4 |
| 40° | 2540.0 | 1801.0 | 654.9 | 687.1 | 791.5 | 858.5 | 814.2 | 725.7 | 633.4 | 590.4 | 587.3 |
| 42.5° | 2585.5 | 1692.3 | 604.3 | 677.7 | 799.0 | 880.6 | 799.0 | 671.3 | 570.8 | 545.5 | 541.8 |
| 45° | 2653.1 | 1567.7 | 576.5 | 673.2 | 810.4 | 888.8 | 794.0 | 631.5 | 545.5 | 525.3 | 525.3 |
| 47.5° | 2729.6 | 1448.9 | 561.3 | 670.1 | 825.0 | 883.1 | 749.1 | 618.9 | 533.5 | 536.1 | 548.1 |
| 50° | 2805.5 | 1345.8 | 550.0 | 663.1 | 837.6 | 880.0 | 730.8 | 618.2 | 536.7 | 568.9 | 590.4 |
| 52.5° | 2893.3 | 1273.1 | 536.1 | 651.7 | 837.6 | 859.7 | 725.1 | 630.9 | 545.5 | 555.0 | 564.5 |
| 55° | 2999.5 | 1250.4 | 518.4 | 627.1 | 822.4 | 809.2 | 721.9 | 649.2 | 551.9 | 529.7 | 533.5 |
| 57.5° | 3139.9 | 1287.1 | 501.3 | 596.1 | 787.7 | 756.7 | 720.6 | 654.3 | 537.3 | 519.0 | 515.2 |
| 60° | 3303.0 | 1359.8 | 496.2 | 564.5 | 740.2 | 711.8 | 713.1 | 639.7 | 517.1 | 498.1 | 501.3 |
| 62.5° | 3417.4 | 1403.4 | 493.1 | 540.5 | 688.4 | 662.5 | 694.7 | 622.0 | 508.2 | 491.8 | 495.0 |
| 65° | 3417.4 | 1350.3 | 464.0 | 503.8 | 621.4 | 603.1 | 672.6 | 599.9 | 496.9 | 477.9 | 474.7 |
| 67.5° | 3287.8 | 1195.4 | 419.7 | 448.8 | 547.4 | 535.4 | 641.6 | 573.4 | 479.8 | 465.3 | 457.7 |
| 70° | 2950.2 | 906.5 | 364.1 | 384.3 | 453.9 | 464.6 | 601.8 | 537.3 | 451.4 | 433.7 | 422.3 |
| 71° | 2801.7 | 789.6 | 340.7 | 351.5 | 417.9 | 433.7 | 582.8 | 522.2 | 438.7 | 413.4 | 393.2 |
| 72.5° | 2515.3 | 665.0 | 305.3 | 309.8 | 357.2 | 385.6 | 543.0 | 493.1 | 414.7 | 378.7 | 355.9 |
| 75° | 1911.0 | 485.5 | 245.9 | 243.4 | 264.2 | 306.0 | 459.6 | 439.3 | 363.5 | 314.8 | 301.5 |
| 77.5° | 825.6 | 264.2 | 184.0 | 185.9 | 179.5 | 232.0 | 361.6 | 377.4 | 311.6 | 256.0 | 244.0 |
| 80° | 250.3 | 152.3 | 125.8 | 128.3 | 120.1 | 155.5 | 254.8 | 295.8 | 250.3 | 199.1 | 182.7 |
| 82.5° | 128.3 | 91.0 | 86.0 | 84.7 | 76.5 | 87.9 | 154.2 | 202.3 | 178.9 | 124.5 | 110.0 |
| 85° | 55.6 | 48.7 | 42.4 | 41.1 | 36.0 | 31.6 | 55.0 | 101.1 | 94.8 | 69.5 | 66.4 |
| 87.5° | 13.9 | 12.6 | 8.2 | 7.6 | 4.4 | 0.6 | 0.0 | 0.0 | 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)