

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: P452503

Luminaire Tested: **GALN-SA3C-722-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452503
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-SA3C-722-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15300 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

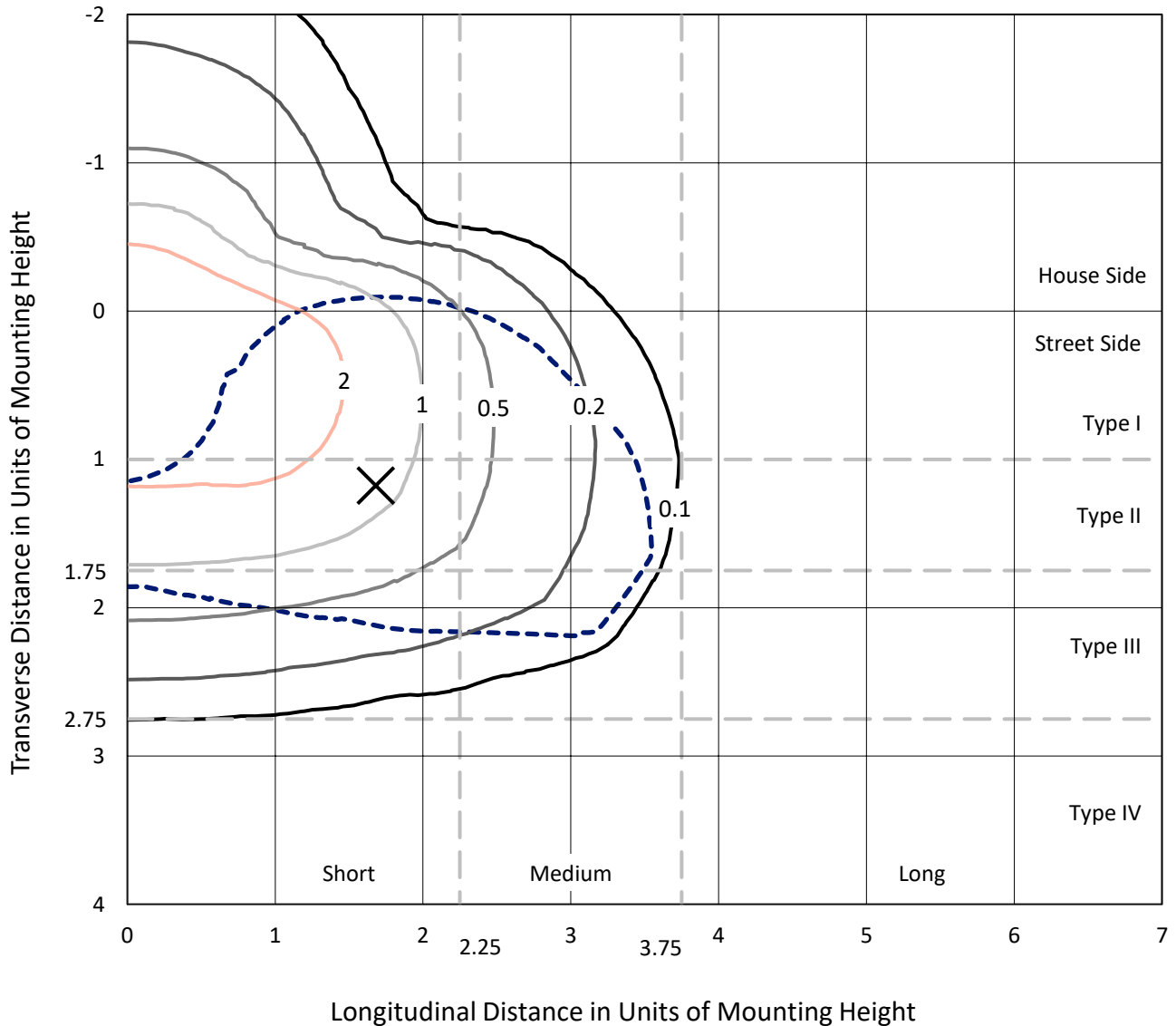
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

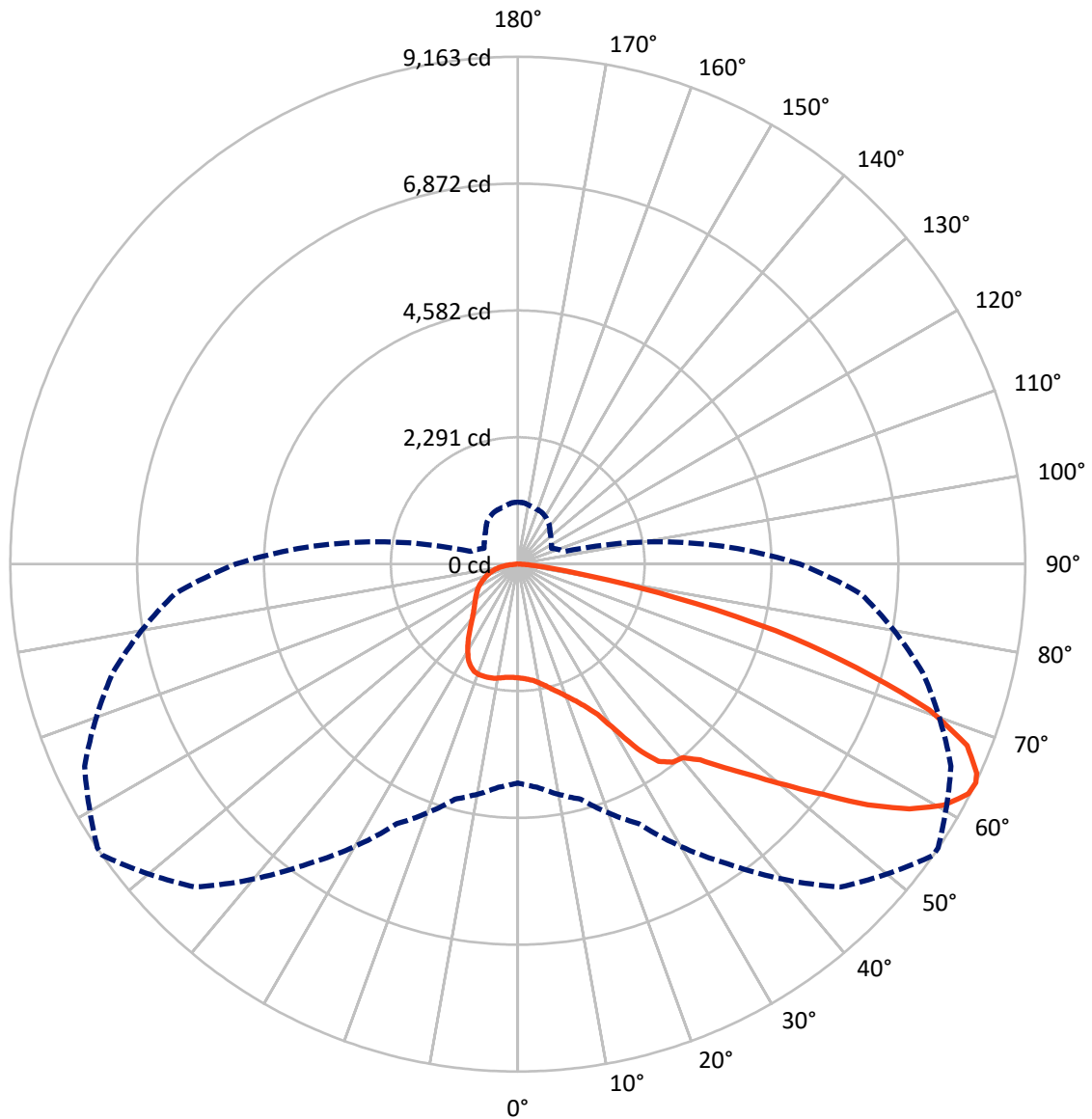
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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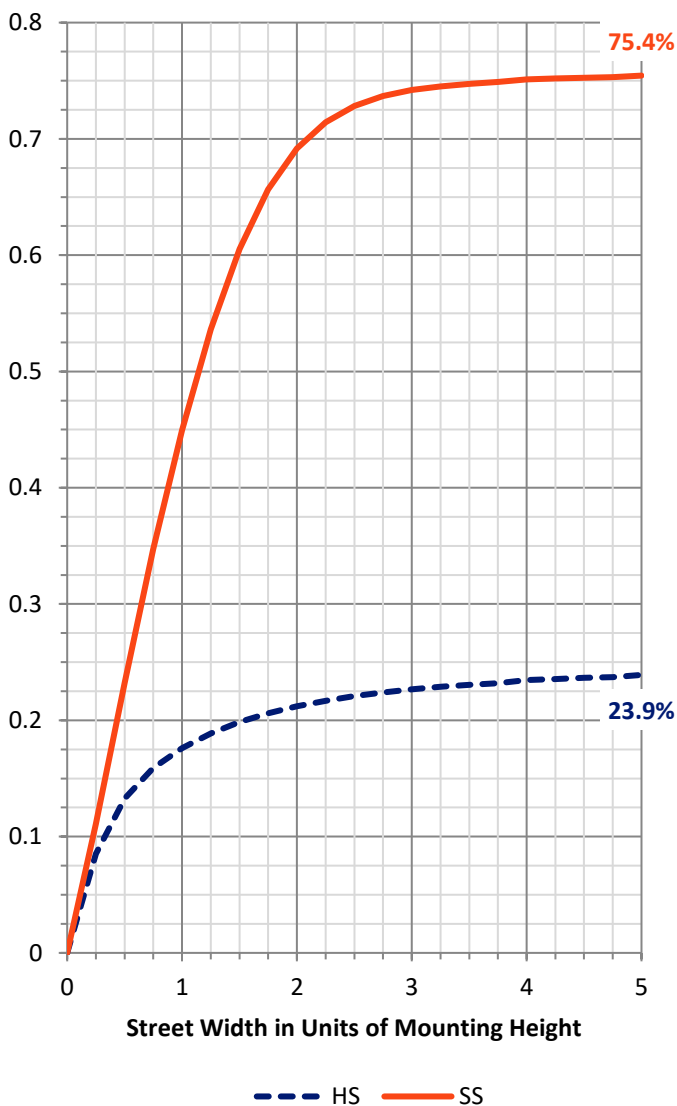
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3716.7 | 0.0 | 3716.7 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 11583.3 | 0.0 | 11583.3 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 15300.0 | 0.0 | 15300.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 199.7 | 1.3 |
| 10°-20° | 630.1 | 4.1 |
| 20°-30° | 1121.7 | 7.3 |
| 30°-40° | 1725.8 | 11.3 |
| 40°-50° | 2446.5 | 16.0 |
| 50°-60° | 3541.2 | 23.1 |
| 60°-70° | 3664.8 | 24.0 |
| 70°-80° | 1716.2 | 11.2 |
| 80°-90° | 254.1 | 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° | 15300.0 | 100.0 |
| 0°-180° | 15300.0 | 100.0 |



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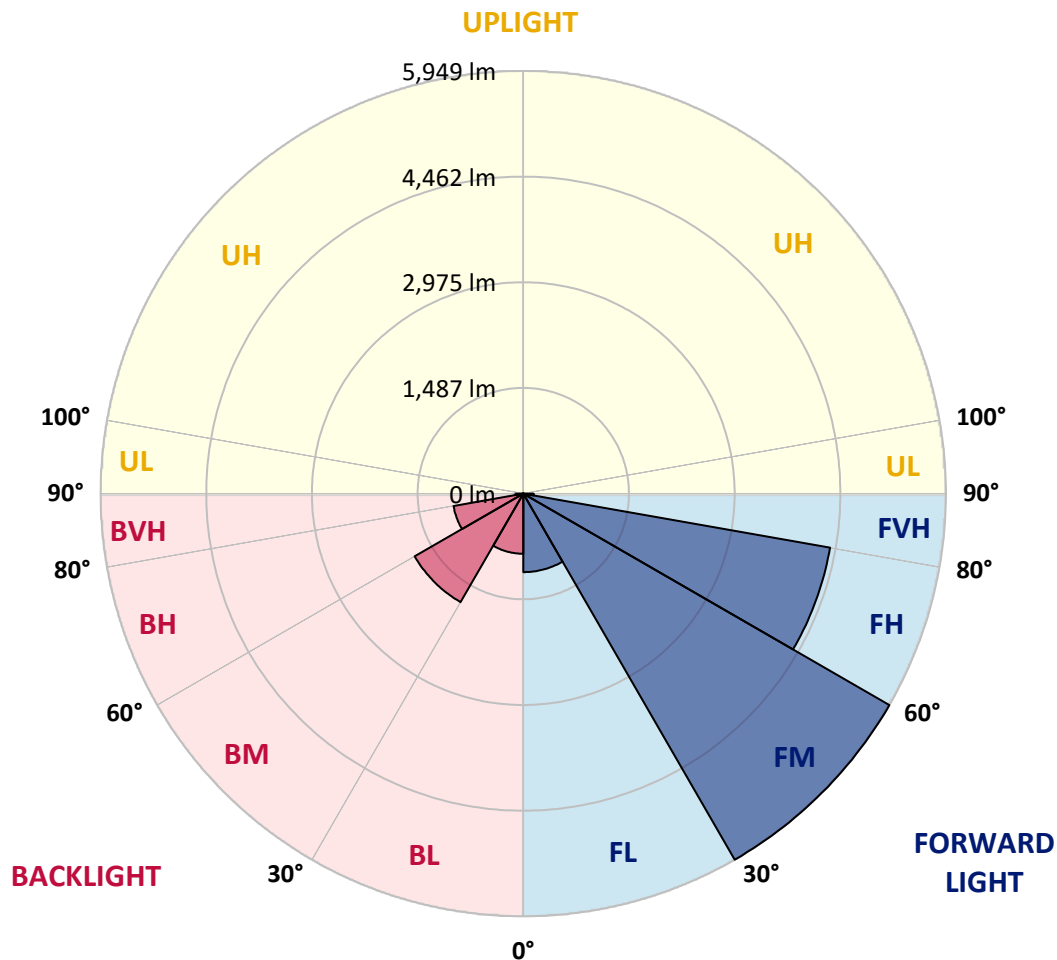
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1104.9 | 7.2 | | | |
| FM (30°-60°) | 5949.1 | 38.9 | | | |
| FH (60°-80°) | 4383.9 | 28.7 | | | G2/5000 |
| FVH (80°-90°) | 145.5 | 1.0 | | | G2/225 |
| BL (0°-30°) | 846.5 | 5.5 | B2/1000 | | |
| BM (30°-60°) | 1764.4 | 11.5 | B2/2500 | | |
| BH (60°-80°) | 997.1 | 6.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 108.6 | 0.7 | | | G2/225 |
| 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° | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 |
| 2.5° | 2075.8 | 2075.0 | 2077.5 | 2075.0 | 2076.7 | 2070.7 | 2068.1 | 2069.9 | 2067.3 | 2063.0 | 2055.4 |
| 5° | 2101.4 | 2100.6 | 2101.4 | 2098.0 | 2099.7 | 2096.3 | 2090.3 | 2092.0 | 2087.8 | 2078.4 | 2067.3 |
| 7.5° | 2144.9 | 2141.5 | 2141.5 | 2140.6 | 2137.2 | 2132.1 | 2127.8 | 2126.1 | 2121.9 | 2109.9 | 2092.9 |
| 10° | 2201.2 | 2201.2 | 2202.0 | 2195.2 | 2199.5 | 2190.1 | 2185.8 | 2185.0 | 2170.5 | 2155.1 | 2131.3 |
| 12.5° | 2275.4 | 2279.7 | 2277.1 | 2273.7 | 2272.0 | 2268.6 | 2254.1 | 2257.5 | 2241.3 | 2214.8 | 2185.8 |
| 15° | 2367.5 | 2374.3 | 2370.1 | 2368.4 | 2364.1 | 2351.3 | 2345.3 | 2342.8 | 2321.4 | 2283.1 | 2244.7 |
| 17.5° | 2489.5 | 2480.9 | 2477.5 | 2473.3 | 2455.3 | 2446.0 | 2435.7 | 2434.0 | 2415.3 | 2370.1 | 2310.4 |
| 20° | 2596.1 | 2608.0 | 2601.2 | 2596.9 | 2579.0 | 2561.1 | 2553.4 | 2550.9 | 2534.7 | 2485.2 | 2389.7 |
| 22.5° | 2723.1 | 2725.7 | 2728.3 | 2718.0 | 2709.5 | 2695.8 | 2682.2 | 2677.9 | 2672.0 | 2620.8 | 2504.0 |
| 25° | 2858.7 | 2869.0 | 2860.4 | 2850.2 | 2840.0 | 2839.1 | 2851.9 | 2850.2 | 2847.6 | 2798.2 | 2655.8 |
| 27.5° | 3079.6 | 3089.0 | 3091.6 | 3080.5 | 3041.2 | 3044.7 | 3073.7 | 3083.0 | 3122.3 | 3040.4 | 2851.1 |
| 30° | 3204.1 | 3213.5 | 3234.8 | 3276.6 | 3338.9 | 3393.5 | 3463.4 | 3484.7 | 3522.3 | 3367.9 | 3083.0 |
| 32.5° | 3280.9 | 3284.3 | 3322.7 | 3400.3 | 3587.1 | 3790.9 | 3981.1 | 3988.8 | 4012.6 | 3796.0 | 3295.4 |
| 35° | 3402.0 | 3404.6 | 3435.3 | 3520.5 | 3739.7 | 4079.2 | 4373.4 | 4382.8 | 4363.2 | 3929.1 | 3394.3 |
| 37.5° | 3551.2 | 3558.1 | 3577.7 | 3648.5 | 3910.3 | 4320.5 | 4536.3 | 4529.5 | 4355.5 | 4034.8 | 3569.2 |
| 40° | 3768.7 | 3768.7 | 3745.7 | 3841.2 | 4090.2 | 4458.7 | 4593.4 | 4581.5 | 4535.4 | 4341.0 | 3835.2 |
| 42.5° | 3960.6 | 3957.2 | 4011.8 | 4076.6 | 4315.4 | 4671.9 | 4833.1 | 4852.7 | 4928.6 | 4725.6 | 4138.0 |
| 45° | 4210.5 | 4225.8 | 4256.5 | 4374.2 | 4698.3 | 5036.1 | 5244.1 | 5262.9 | 5370.4 | 5178.5 | 4491.9 |
| 47.5° | 4462.9 | 4468.1 | 4564.4 | 4721.4 | 5172.5 | 5529.8 | 5700.4 | 5731.1 | 5829.2 | 5708.1 | 4873.2 |
| 50° | 4642.0 | 4690.6 | 4845.0 | 5092.3 | 5661.2 | 6132.0 | 6265.0 | 6301.7 | 6474.8 | 6284.6 | 5317.5 |
| 52.5° | 4831.4 | 4879.1 | 5067.6 | 5444.6 | 6222.4 | 6747.7 | 6911.5 | 6936.2 | 7116.1 | 6868.0 | 5772.1 |
| 55° | 4993.4 | 5037.8 | 5251.8 | 5756.7 | 6669.2 | 7376.3 | 7673.0 | 7644.1 | 7730.2 | 7317.4 | 6122.6 |
| 57.5° | 5019.8 | 5055.7 | 5325.2 | 5956.3 | 7005.3 | 7915.3 | 8340.8 | 8357.9 | 8258.1 | 7653.4 | 6411.7 |
| 60° | 4815.2 | 4888.5 | 5198.1 | 5934.9 | 7156.2 | 8290.5 | 8838.9 | 8850.8 | 8567.7 | 7825.7 | 6526.8 |
| 62.5° | 4452.7 | 4445.0 | 4819.4 | 5592.1 | 6944.7 | 8375.8 | 9132.3 | 9119.5 | 8688.8 | 7743.0 | 6415.1 |
| 64° | 3952.1 | 4044.2 | 4393.9 | 5170.8 | 6603.6 | 8244.5 | 9163.0 | 9156.1 | 8630.8 | 7570.7 | 6224.9 |
| 65° | 3646.8 | 3641.6 | 3987.1 | 4826.3 | 6264.1 | 8046.6 | 9108.4 | 9099.0 | 8509.7 | 7416.3 | 6077.4 |
| 67.5° | 2632.7 | 2644.7 | 2985.8 | 3724.4 | 5092.3 | 7273.1 | 8752.7 | 8717.8 | 8032.1 | 6904.6 | 5516.2 |
| 70° | 1594.8 | 1601.6 | 1869.4 | 2470.7 | 3655.3 | 5879.5 | 7889.7 | 7891.4 | 7301.2 | 6140.5 | 4694.9 |
| 72.5° | 840.1 | 858.0 | 965.4 | 1402.9 | 2220.0 | 4125.2 | 6400.6 | 6552.4 | 6268.4 | 5240.7 | 3709.0 |
| 75° | 467.4 | 469.9 | 545.8 | 691.7 | 1132.6 | 2308.7 | 4810.9 | 4854.4 | 4962.7 | 4218.2 | 2742.7 |
| 77.5° | 356.5 | 361.6 | 385.5 | 446.9 | 616.6 | 1070.3 | 2911.6 | 3129.9 | 3497.5 | 2973.9 | 1565.0 |
| 80° | 289.1 | 294.2 | 314.7 | 351.4 | 410.2 | 507.4 | 1352.6 | 1470.3 | 1872.0 | 1320.2 | 610.6 |
| 82.5° | 225.2 | 221.7 | 248.2 | 272.1 | 298.5 | 300.2 | 555.2 | 614.0 | 762.4 | 568.0 | 264.4 |
| 85° | 167.2 | 167.2 | 188.5 | 183.4 | 192.7 | 175.7 | 244.8 | 270.4 | 305.3 | 241.4 | 122.8 |
| 87.5° | 66.5 | 73.3 | 123.7 | 110.9 | 86.1 | 69.1 | 90.4 | 95.5 | 105.8 | 94.7 | 51.2 |
| 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° | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 | 2052.8 |
| 2.5° | 2056.2 | 2058.8 | 2052.8 | 2048.5 | 2046.8 | 2044.3 | 2041.7 | 2042.6 | 2046.0 | 2049.4 | 2048.5 |
| 5° | 2066.4 | 2067.3 | 2057.1 | 2051.9 | 2048.5 | 2045.1 | 2045.1 | 2047.7 | 2054.5 | 2059.6 | 2059.6 |
| 7.5° | 2092.0 | 2092.0 | 2077.5 | 2068.1 | 2063.0 | 2057.1 | 2055.4 | 2056.2 | 2061.3 | 2068.1 | 2069.0 |
| 10° | 2132.1 | 2128.7 | 2109.9 | 2095.4 | 2086.1 | 2071.6 | 2058.8 | 2051.9 | 2054.5 | 2058.8 | 2058.8 |
| 12.5° | 2180.7 | 2171.3 | 2147.5 | 2127.8 | 2104.8 | 2077.5 | 2051.1 | 2037.4 | 2036.6 | 2040.9 | 2039.2 |
| 15° | 2232.7 | 2222.5 | 2189.3 | 2153.4 | 2113.4 | 2073.3 | 2041.7 | 2022.1 | 2006.7 | 2002.5 | 2011.9 |
| 17.5° | 2293.3 | 2272.0 | 2225.9 | 2176.5 | 2116.8 | 2064.7 | 2015.3 | 1975.2 | 1947.9 | 1940.2 | 1942.8 |
| 20° | 2366.6 | 2338.5 | 2276.2 | 2198.6 | 2114.2 | 2034.0 | 1957.3 | 1903.6 | 1859.2 | 1845.6 | 1847.3 |
| 22.5° | 2468.1 | 2419.5 | 2328.3 | 2209.7 | 2092.9 | 1976.0 | 1869.4 | 1799.5 | 1745.8 | 1724.5 | 1737.2 |
| 25° | 2583.3 | 2530.4 | 2377.7 | 2207.2 | 2037.4 | 1883.1 | 1765.4 | 1674.1 | 1625.5 | 1594.0 | 1600.8 |
| 27.5° | 2741.9 | 2648.1 | 2430.6 | 2184.1 | 1958.1 | 1769.7 | 1633.2 | 1547.1 | 1502.7 | 1486.5 | 1494.2 |
| 30° | 2944.9 | 2800.7 | 2487.7 | 2121.9 | 1832.8 | 1626.4 | 1500.2 | 1443.9 | 1417.4 | 1397.0 | 1403.8 |
| 32.5° | 3091.6 | 2908.2 | 2500.5 | 2017.0 | 1697.2 | 1495.9 | 1409.8 | 1368.0 | 1339.0 | 1319.4 | 1323.6 |
| 35° | 3196.5 | 2999.5 | 2494.6 | 1888.2 | 1555.6 | 1388.4 | 1338.1 | 1304.0 | 1257.1 | 1214.5 | 1206.8 |
| 37.5° | 3337.2 | 3113.7 | 2451.1 | 1747.5 | 1415.7 | 1315.9 | 1280.1 | 1217.0 | 1149.6 | 1092.5 | 1089.9 |
| 40° | 3553.0 | 3247.6 | 2358.1 | 1582.0 | 1296.3 | 1262.2 | 1218.7 | 1136.8 | 1064.4 | 1018.3 | 1014.9 |
| 42.5° | 3775.5 | 3371.3 | 2231.9 | 1408.0 | 1198.2 | 1205.9 | 1153.0 | 1072.0 | 1027.7 | 997.8 | 994.4 |
| 45° | 4047.6 | 3505.2 | 2095.4 | 1257.1 | 1125.8 | 1153.0 | 1095.9 | 1049.0 | 1022.6 | 1002.9 | 997.8 |
| 47.5° | 4341.8 | 3642.5 | 1941.9 | 1121.5 | 1064.4 | 1104.4 | 1072.0 | 1050.7 | 1036.2 | 1022.6 | 1016.6 |
| 50° | 4659.1 | 3796.0 | 1797.8 | 1012.3 | 1008.9 | 1054.1 | 1069.5 | 1061.8 | 1053.3 | 1049.0 | 1043.9 |
| 52.5° | 5007.1 | 3952.9 | 1676.7 | 935.6 | 960.3 | 1018.3 | 1070.3 | 1076.3 | 1076.3 | 1073.7 | 1070.3 |
| 55° | 5242.4 | 4062.1 | 1553.9 | 873.3 | 910.8 | 989.3 | 1068.6 | 1091.6 | 1100.2 | 1096.8 | 1093.3 |
| 57.5° | 5416.4 | 4121.8 | 1399.5 | 819.6 | 869.0 | 961.2 | 1059.2 | 1093.3 | 1101.9 | 1106.1 | 1104.4 |
| 60° | 5452.2 | 4066.4 | 1197.4 | 763.3 | 823.8 | 920.2 | 1025.1 | 1067.8 | 1078.8 | 1105.3 | 1107.8 |
| 62.5° | 5291.1 | 3895.8 | 996.1 | 707.9 | 768.4 | 858.0 | 979.1 | 1038.8 | 1060.9 | 1101.9 | 1106.1 |
| 64° | 5093.2 | 3704.8 | 884.4 | 672.9 | 732.6 | 823.0 | 956.0 | 1031.1 | 1060.1 | 1114.7 | 1118.1 |
| 65° | 4948.2 | 3565.7 | 814.5 | 650.7 | 709.6 | 800.0 | 943.2 | 1033.6 | 1067.8 | 1134.3 | 1139.4 |
| 67.5° | 4414.3 | 3087.3 | 673.7 | 598.7 | 655.0 | 760.7 | 945.8 | 1055.0 | 1066.1 | 1142.0 | 1141.1 |
| 70° | 3652.7 | 2457.9 | 564.6 | 550.9 | 602.1 | 729.2 | 935.6 | 1020.9 | 1021.7 | 1072.0 | 1060.1 |
| 72.5° | 2735.1 | 1816.6 | 489.5 | 501.5 | 543.3 | 654.1 | 883.5 | 974.8 | 960.3 | 967.1 | 955.2 |
| 75° | 1878.8 | 1201.7 | 421.3 | 448.6 | 481.9 | 578.2 | 810.2 | 885.3 | 862.2 | 853.7 | 845.2 |
| 77.5° | 1002.9 | 664.4 | 350.5 | 396.6 | 418.7 | 499.8 | 707.0 | 779.5 | 755.6 | 722.4 | 711.3 |
| 80° | 406.0 | 313.0 | 282.3 | 328.3 | 341.1 | 402.5 | 588.5 | 633.7 | 615.8 | 557.8 | 539.0 |
| 82.5° | 203.8 | 187.6 | 221.7 | 258.4 | 259.3 | 287.4 | 437.5 | 480.2 | 440.1 | 369.3 | 353.1 |
| 85° | 106.6 | 110.0 | 152.7 | 181.7 | 160.3 | 155.2 | 262.7 | 290.8 | 266.9 | 232.0 | 208.9 |
| 87.5° | 38.4 | 44.3 | 80.2 | 79.3 | 56.3 | 29.8 | 58.0 | 28.1 | 15.4 | 9.4 | 11.9 |
| 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)