

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: P458711

Luminaire Tested: **GALN-SA2C-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458711
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-SA2C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13478 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

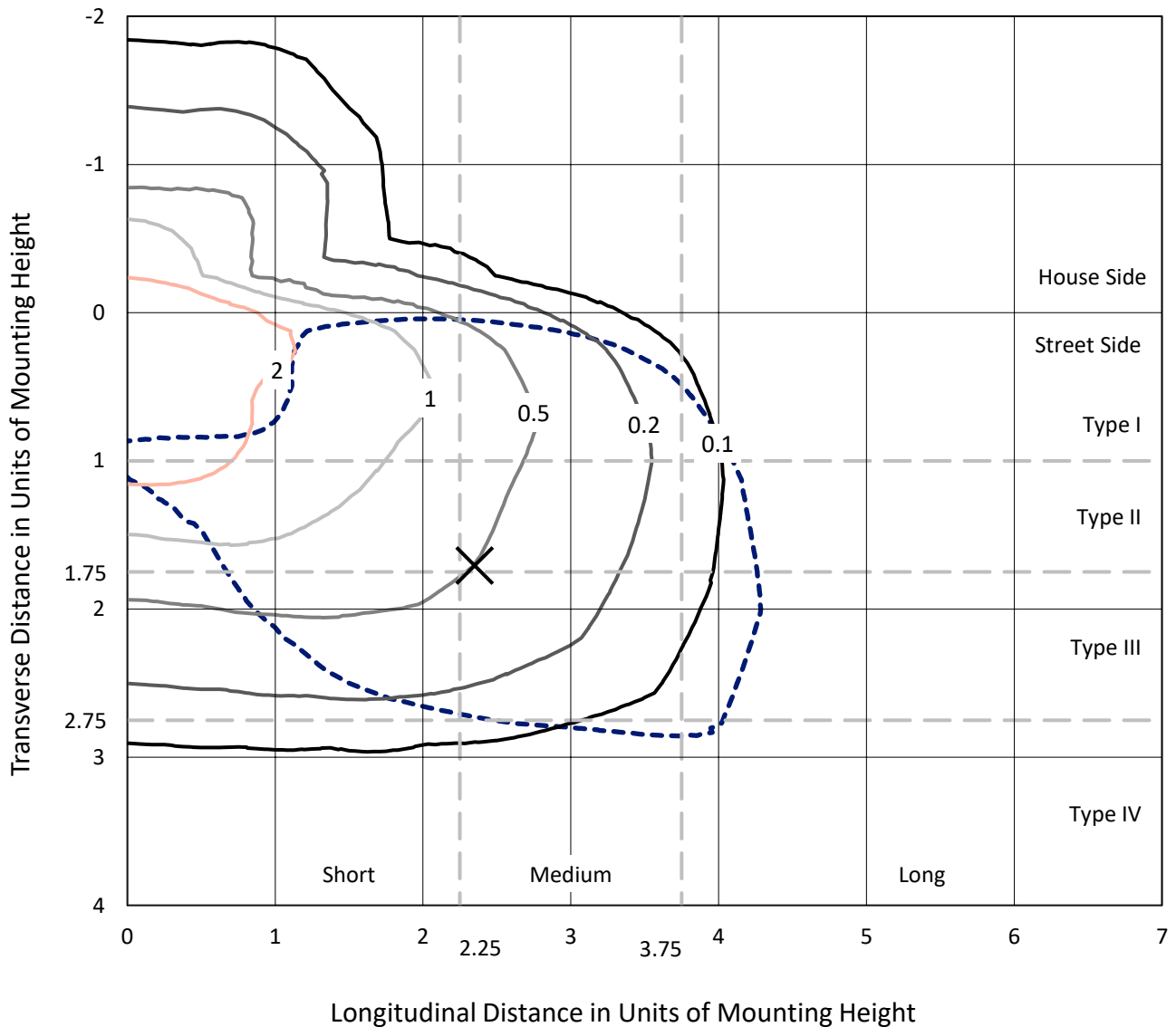
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

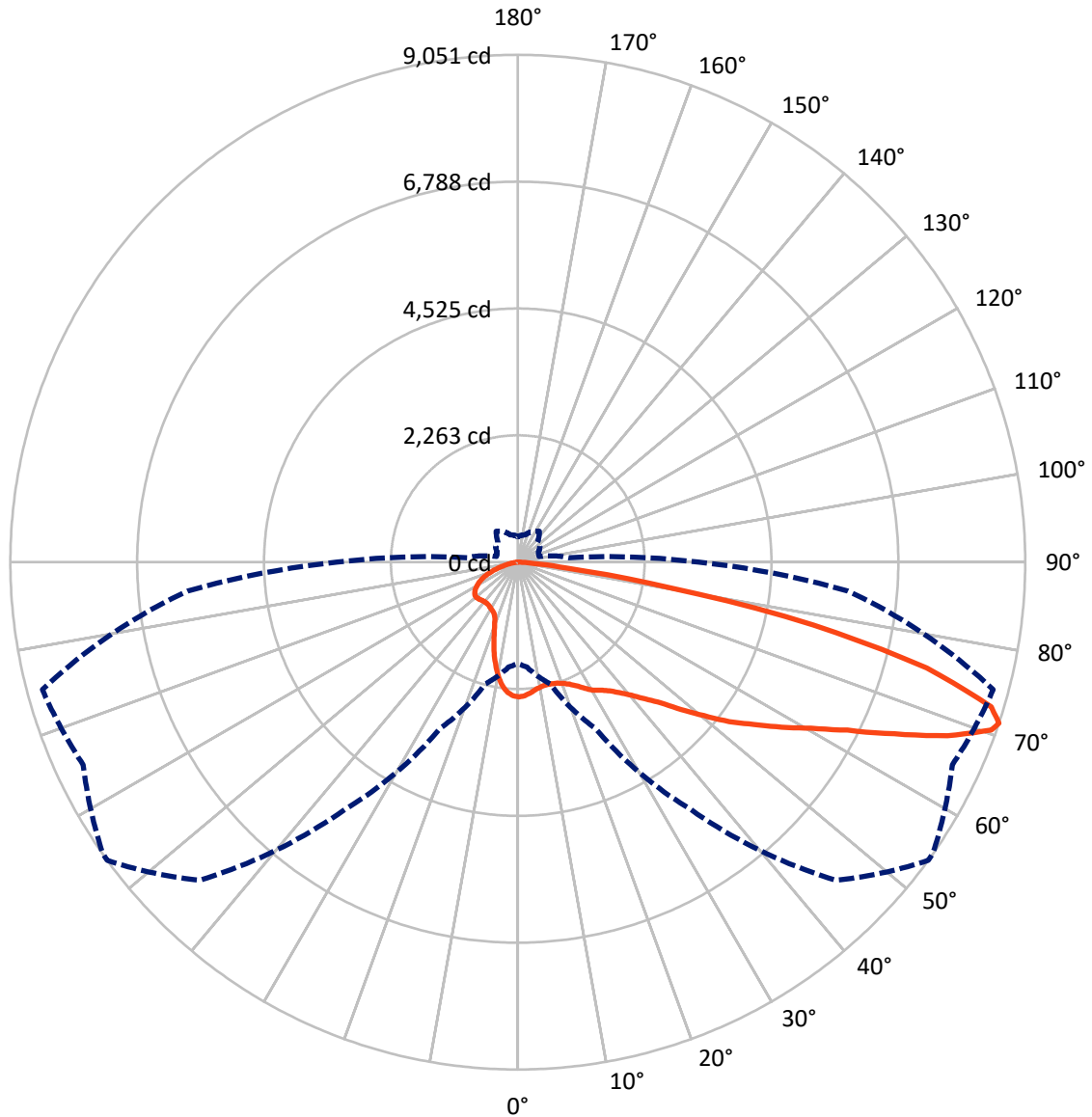
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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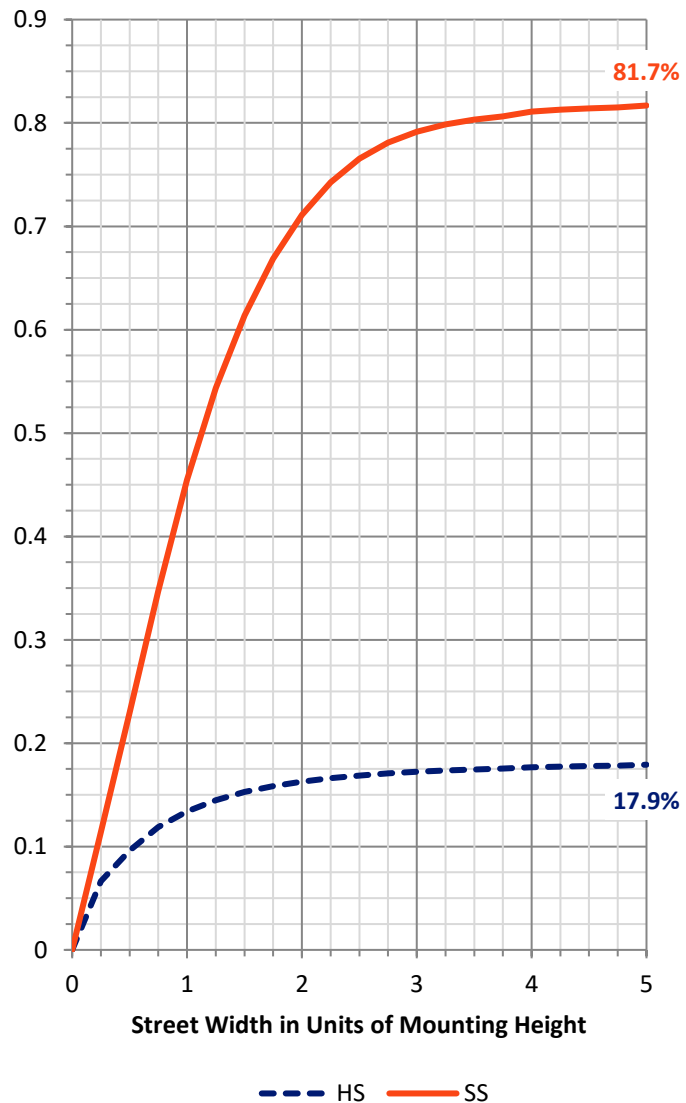
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2433.4 | 0.0 | 2433.4 |
| | % Fixture | 18.1 | 0.0 | 18.1 |
| Street Side | Lumens | 11044.6 | 0.0 | 11044.6 |
| | % Fixture | 81.9 | 0.0 | 81.9 |
| Total | Lumens | 13478.0 | 0.0 | 13478.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 214.3 | 1.6 |
| 10°-20° | 565.8 | 4.2 |
| 20°-30° | 942.1 | 7.0 |
| 30°-40° | 1393.1 | 10.3 |
| 40°-50° | 1962.3 | 14.6 |
| 50°-60° | 2627.6 | 19.5 |
| 60°-70° | 3311.8 | 24.6 |
| 70°-80° | 2262.0 | 16.8 |
| 80°-90° | 198.9 | 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° | 13478.0 | 100.0 |
| 0°-180° | 13478.0 | 100.0 |



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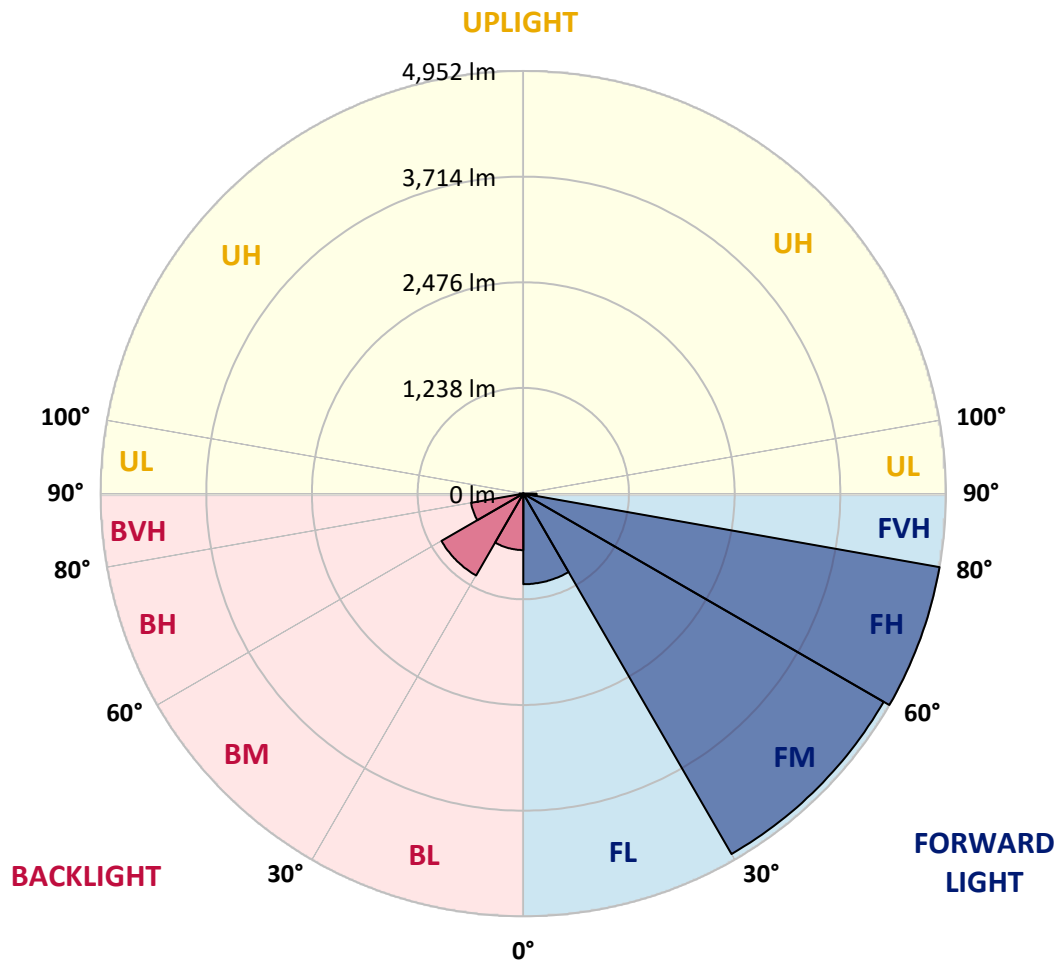
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1060.9 | 7.9 | | | |
| FM (30°-60°) | 4875.9 | 36.2 | | | |
| FH (60°-80°) | 4952.3 | 36.7 | | | G2/5000 |
| FVH (80°-90°) | 155.5 | 1.2 | | | G2/225 |
| BL (0°-30°) | 661.3 | 4.9 | B2/1000 | | |
| BM (30°-60°) | 1107.1 | 8.2 | B2/2500 | | |
| BH (60°-80°) | 621.5 | 4.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 43.4 | 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° | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 |
| 2.5° | 2323.1 | 2334.1 | 2337.0 | 2344.2 | 2359.5 | 2371.9 | 2384.3 | 2382.8 | 2400.3 | 2407.6 | 2414.1 |
| 5° | 2219.8 | 2222.7 | 2233.6 | 2248.1 | 2275.1 | 2309.3 | 2342.8 | 2343.5 | 2386.5 | 2420.7 | 2437.4 |
| 7.5° | 2144.0 | 2153.5 | 2160.8 | 2176.1 | 2204.5 | 2241.6 | 2294.7 | 2299.1 | 2375.6 | 2443.3 | 2478.9 |
| 10° | 2094.5 | 2105.5 | 2113.5 | 2132.4 | 2160.8 | 2202.3 | 2259.8 | 2267.8 | 2367.5 | 2478.9 | 2541.5 |
| 12.5° | 2049.4 | 2060.3 | 2067.6 | 2092.4 | 2129.5 | 2180.4 | 2245.2 | 2254.7 | 2370.5 | 2520.4 | 2610.0 |
| 15° | 2077.1 | 2085.8 | 2082.9 | 2090.2 | 2114.9 | 2173.2 | 2251.1 | 2260.5 | 2381.4 | 2560.5 | 2677.7 |
| 17.5° | 2200.1 | 2207.4 | 2183.4 | 2155.7 | 2144.0 | 2187.0 | 2269.3 | 2279.5 | 2403.2 | 2602.0 | 2746.8 |
| 20° | 2381.4 | 2401.0 | 2348.6 | 2286.7 | 2230.7 | 2236.5 | 2307.1 | 2318.0 | 2433.8 | 2643.5 | 2817.5 |
| 22.5° | 2617.3 | 2631.8 | 2567.8 | 2465.8 | 2362.4 | 2309.3 | 2363.9 | 2370.5 | 2479.7 | 2697.3 | 2894.6 |
| 25° | 2894.6 | 2903.4 | 2814.6 | 2683.5 | 2534.3 | 2433.8 | 2441.8 | 2453.5 | 2555.4 | 2758.5 | 2963.1 |
| 27.5° | 3164.0 | 3191.7 | 3089.0 | 2928.9 | 2732.3 | 2564.8 | 2548.8 | 2556.1 | 2637.6 | 2792.7 | 3010.4 |
| 30° | 3483.6 | 3481.4 | 3373.0 | 3187.3 | 2935.4 | 2707.5 | 2650.0 | 2648.6 | 2682.1 | 2809.5 | 3044.6 |
| 32.5° | 3738.4 | 3768.3 | 3662.0 | 3459.6 | 3167.6 | 2855.3 | 2719.9 | 2717.0 | 2716.3 | 2838.6 | 3095.6 |
| 35° | 4028.2 | 4032.5 | 3935.0 | 3731.1 | 3418.8 | 3041.0 | 2817.5 | 2802.9 | 2786.2 | 2901.2 | 3164.7 |
| 37.5° | 4287.4 | 4307.7 | 4218.2 | 3989.6 | 3665.6 | 3233.9 | 2951.4 | 2942.0 | 2891.0 | 3009.7 | 3275.4 |
| 40° | 4489.7 | 4505.0 | 4451.2 | 4233.5 | 3908.8 | 3442.1 | 3121.8 | 3104.3 | 3042.4 | 3187.3 | 3423.2 |
| 42.5° | 4556.0 | 4587.3 | 4608.4 | 4501.4 | 4188.3 | 3688.9 | 3331.5 | 3309.6 | 3262.3 | 3456.7 | 3593.5 |
| 45° | 4561.1 | 4610.6 | 4722.0 | 4727.1 | 4469.4 | 3984.5 | 3576.1 | 3560.8 | 3557.1 | 3801.8 | 3833.1 |
| 47.5° | 4522.5 | 4572.7 | 4759.8 | 4861.0 | 4719.8 | 4283.0 | 3929.2 | 3905.1 | 3907.3 | 4228.4 | 4101.7 |
| 50° | 4429.3 | 4489.0 | 4716.2 | 4946.9 | 4915.6 | 4593.1 | 4301.9 | 4293.9 | 4339.0 | 4715.4 | 4380.5 |
| 52.5° | 4253.9 | 4325.9 | 4671.0 | 5000.8 | 5061.2 | 4860.3 | 4725.6 | 4703.1 | 4817.4 | 5244.0 | 4685.6 |
| 55° | 3768.3 | 3876.7 | 4505.8 | 5030.7 | 5199.6 | 5115.8 | 5107.1 | 5147.9 | 5299.3 | 5820.6 | 5021.2 |
| 57.5° | 3514.9 | 3596.5 | 4146.8 | 5035.8 | 5374.3 | 5412.9 | 5552.7 | 5562.9 | 5827.9 | 6432.9 | 5400.5 |
| 60° | 3376.6 | 3448.7 | 3950.3 | 5002.3 | 5618.2 | 5780.5 | 6008.4 | 6044.8 | 6344.0 | 7096.1 | 5793.6 |
| 62.5° | 3255.7 | 3317.6 | 3832.3 | 4886.5 | 5893.4 | 6325.8 | 6598.8 | 6616.3 | 6930.1 | 7828.5 | 6181.7 |
| 65° | 2971.1 | 3041.7 | 3595.0 | 4770.8 | 6130.7 | 7007.3 | 7382.2 | 7361.8 | 7554.0 | 8460.4 | 6424.8 |
| 67.5° | 2587.4 | 2677.0 | 3151.6 | 4371.1 | 6247.9 | 7752.0 | 8264.6 | 8239.1 | 8169.9 | 8874.7 | 6494.7 |
| 70° | 2097.4 | 2145.5 | 2584.5 | 3680.2 | 5779.8 | 8143.0 | 8961.3 | 8934.4 | 8551.4 | 8929.3 | 6164.2 |
| 71° | 1804.8 | 1879.8 | 2250.3 | 3268.8 | 5390.3 | 8023.6 | 9050.8 | 9043.6 | 8552.1 | 8778.6 | 5915.2 |
| 72.5° | 1408.7 | 1454.6 | 1782.2 | 2532.8 | 4581.5 | 7345.1 | 8829.5 | 8857.2 | 8366.5 | 8359.9 | 5402.0 |
| 75° | 891.1 | 911.5 | 1118.3 | 1491.0 | 2513.9 | 5201.8 | 7537.3 | 7612.3 | 7428.8 | 6842.7 | 4017.3 |
| 77.5° | 517.6 | 543.8 | 669.8 | 878.7 | 1086.2 | 2823.3 | 5393.2 | 5474.8 | 5161.7 | 3767.5 | 1644.6 |
| 80° | 301.4 | 330.5 | 441.2 | 510.3 | 498.7 | 1047.6 | 2746.1 | 2885.2 | 2235.0 | 951.5 | 461.6 |
| 82.5° | 167.4 | 187.1 | 310.1 | 310.9 | 265.7 | 342.2 | 864.2 | 904.2 | 637.8 | 383.7 | 188.6 |
| 85° | 121.6 | 137.6 | 200.2 | 181.3 | 127.4 | 147.1 | 300.7 | 315.2 | 257.7 | 161.6 | 61.2 |
| 87.5° | 43.0 | 61.2 | 109.9 | 87.4 | 34.9 | 30.6 | 86.6 | 70.6 | 65.5 | 45.1 | 13.8 |
| 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° | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 | 2404.7 |
| 2.5° | 2417.8 | 2419.2 | 2412.0 | 2398.9 | 2385.7 | 2369.0 | 2350.1 | 2335.5 | 2329.0 | 2328.2 | 2327.5 |
| 5° | 2444.0 | 2447.6 | 2420.0 | 2379.2 | 2334.1 | 2278.7 | 2231.4 | 2177.5 | 2163.7 | 2141.9 | 2148.4 |
| 7.5° | 2486.2 | 2484.0 | 2429.4 | 2342.8 | 2237.2 | 2120.0 | 2021.0 | 1963.5 | 1903.8 | 1887.0 | 1887.8 |
| 10° | 2546.6 | 2532.8 | 2429.4 | 2268.5 | 2092.4 | 1918.4 | 1780.0 | 1692.7 | 1645.3 | 1606.0 | 1591.5 |
| 12.5° | 2610.7 | 2575.8 | 2406.1 | 2164.4 | 1906.0 | 1692.7 | 1544.1 | 1426.2 | 1395.6 | 1363.6 | 1364.3 |
| 15° | 2671.9 | 2613.6 | 2360.3 | 2018.1 | 1705.0 | 1451.7 | 1307.5 | 1236.9 | 1227.5 | 1231.1 | 1230.4 |
| 17.5° | 2727.2 | 2640.6 | 2290.4 | 1855.0 | 1470.6 | 1244.9 | 1168.5 | 1173.6 | 1199.1 | 1217.3 | 1219.4 |
| 20° | 2783.2 | 2656.6 | 2186.3 | 1636.6 | 1249.3 | 1119.7 | 1122.6 | 1162.7 | 1201.2 | 1226.0 | 1229.6 |
| 22.5° | 2836.4 | 2663.9 | 2064.0 | 1425.5 | 1089.1 | 1066.6 | 1109.5 | 1152.5 | 1190.3 | 1214.3 | 1218.0 |
| 25° | 2871.3 | 2647.1 | 1890.7 | 1204.9 | 1010.5 | 1047.6 | 1092.8 | 1129.2 | 1161.2 | 1186.0 | 1191.8 |
| 27.5° | 2880.8 | 2593.2 | 1675.9 | 1026.5 | 974.1 | 1029.4 | 1070.9 | 1097.9 | 1122.6 | 1145.9 | 1150.3 |
| 30° | 2875.7 | 2513.9 | 1440.0 | 921.7 | 953.0 | 1008.3 | 1040.4 | 1060.0 | 1089.9 | 1108.1 | 1111.7 |
| 32.5° | 2867.7 | 2421.4 | 1194.0 | 865.6 | 935.5 | 988.7 | 1007.6 | 1025.1 | 1024.3 | 1017.1 | 1022.2 |
| 35° | 2870.6 | 2310.8 | 994.5 | 832.1 | 920.2 | 974.1 | 990.1 | 968.3 | 905.7 | 902.8 | 899.8 |
| 37.5° | 2885.9 | 2201.6 | 849.6 | 808.8 | 912.2 | 971.9 | 980.7 | 880.2 | 824.9 | 799.4 | 792.8 |
| 40° | 2925.2 | 2074.2 | 754.2 | 791.4 | 911.5 | 988.7 | 937.7 | 835.8 | 729.5 | 680.0 | 676.3 |
| 42.5° | 2977.6 | 1948.9 | 696.0 | 780.4 | 920.2 | 1014.1 | 920.2 | 773.2 | 657.4 | 628.3 | 623.9 |
| 45° | 3055.5 | 1805.5 | 664.0 | 775.3 | 933.3 | 1023.6 | 914.4 | 727.3 | 628.3 | 605.0 | 605.0 |
| 47.5° | 3143.6 | 1668.6 | 646.5 | 771.7 | 950.1 | 1017.1 | 862.7 | 712.7 | 614.5 | 617.4 | 631.2 |
| 50° | 3231.0 | 1550.0 | 633.4 | 763.7 | 964.6 | 1013.4 | 841.6 | 712.0 | 618.1 | 655.2 | 680.0 |
| 52.5° | 3332.2 | 1466.2 | 617.4 | 750.6 | 964.6 | 990.1 | 835.0 | 726.6 | 628.3 | 639.2 | 650.1 |
| 55° | 3454.5 | 1440.0 | 597.0 | 722.2 | 947.2 | 931.9 | 831.4 | 747.7 | 635.6 | 610.1 | 614.5 |
| 57.5° | 3616.1 | 1482.3 | 577.3 | 686.5 | 907.1 | 871.4 | 830.0 | 753.5 | 618.8 | 597.7 | 593.3 |
| 60° | 3803.9 | 1566.0 | 571.5 | 650.1 | 852.5 | 819.8 | 821.2 | 736.8 | 595.5 | 573.7 | 577.3 |
| 62.5° | 3935.7 | 1616.2 | 567.9 | 622.5 | 792.8 | 763.0 | 800.1 | 716.4 | 585.3 | 566.4 | 570.0 |
| 65° | 3935.7 | 1555.1 | 534.4 | 580.2 | 715.7 | 694.5 | 774.6 | 690.9 | 572.2 | 550.4 | 546.7 |
| 67.5° | 3786.5 | 1376.7 | 483.4 | 516.9 | 630.5 | 616.6 | 738.9 | 660.3 | 552.6 | 535.8 | 527.1 |
| 70° | 3397.7 | 1044.0 | 419.3 | 442.6 | 522.7 | 535.1 | 693.1 | 618.8 | 519.8 | 499.4 | 486.3 |
| 71° | 3226.6 | 909.3 | 392.4 | 404.8 | 481.2 | 499.4 | 671.2 | 601.4 | 505.3 | 476.1 | 452.8 |
| 72.5° | 2896.8 | 765.9 | 351.6 | 356.7 | 411.3 | 444.1 | 625.4 | 567.9 | 477.6 | 436.1 | 409.9 |
| 75° | 2200.8 | 559.1 | 283.2 | 280.3 | 304.3 | 352.4 | 529.3 | 506.0 | 418.6 | 362.6 | 347.3 |
| 77.5° | 950.8 | 304.3 | 211.9 | 214.0 | 206.8 | 267.2 | 416.4 | 434.6 | 358.9 | 294.9 | 281.0 |
| 80° | 288.3 | 175.5 | 144.9 | 147.8 | 138.3 | 179.1 | 293.4 | 340.7 | 288.3 | 229.3 | 210.4 |
| 82.5° | 147.8 | 104.8 | 99.0 | 97.6 | 88.1 | 101.2 | 177.6 | 233.0 | 206.0 | 143.4 | 126.7 |
| 85° | 64.1 | 56.1 | 48.8 | 47.3 | 41.5 | 36.4 | 63.3 | 116.5 | 109.2 | 80.1 | 76.4 |
| 87.5° | 16.0 | 14.6 | 9.5 | 8.7 | 5.1 | 0.7 | 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)