

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: P648514

Luminaire Tested: **GALN-SA6B-835-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648514
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-SA6B-835-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 800mA 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: 19024.6 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

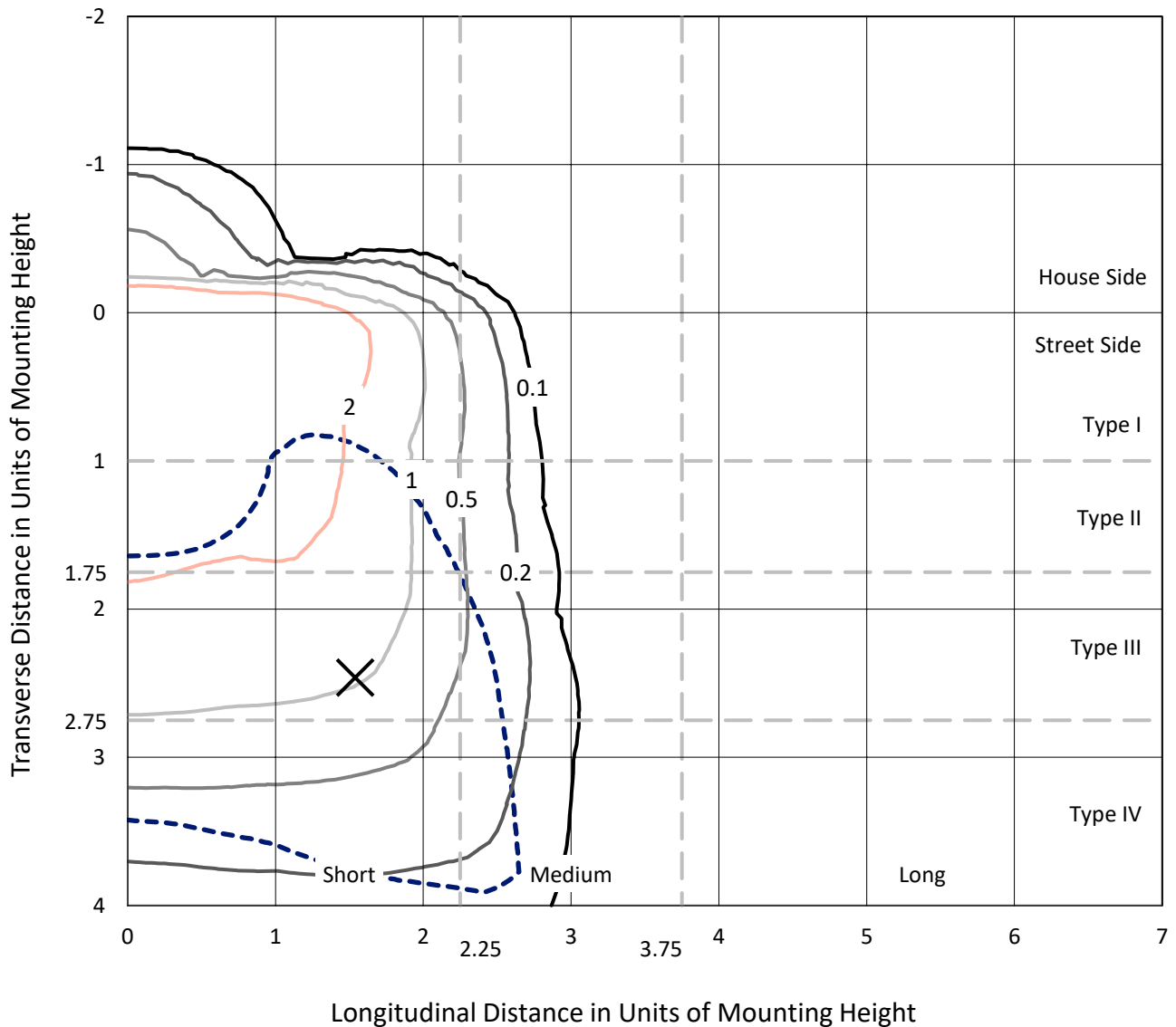
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

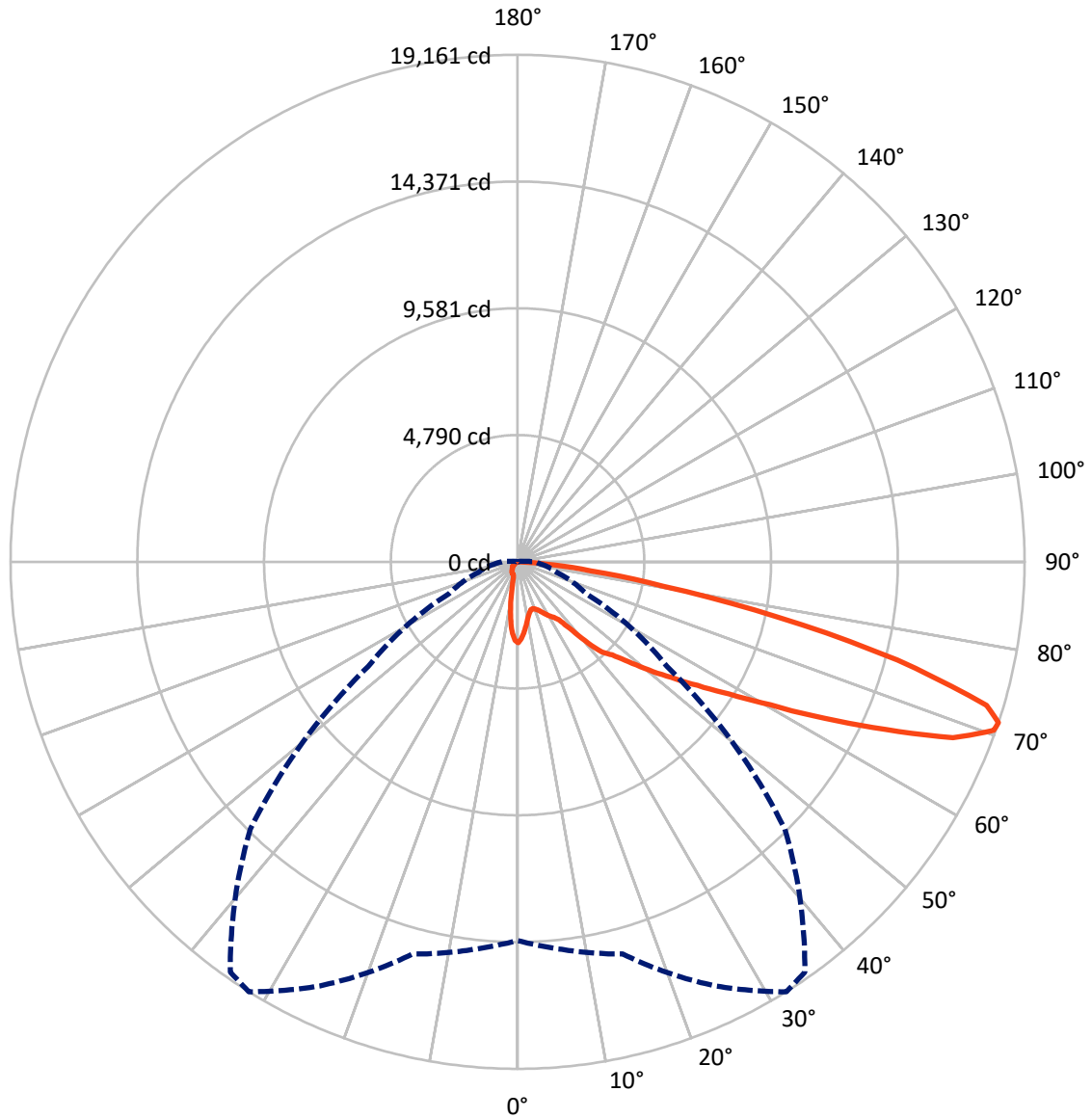
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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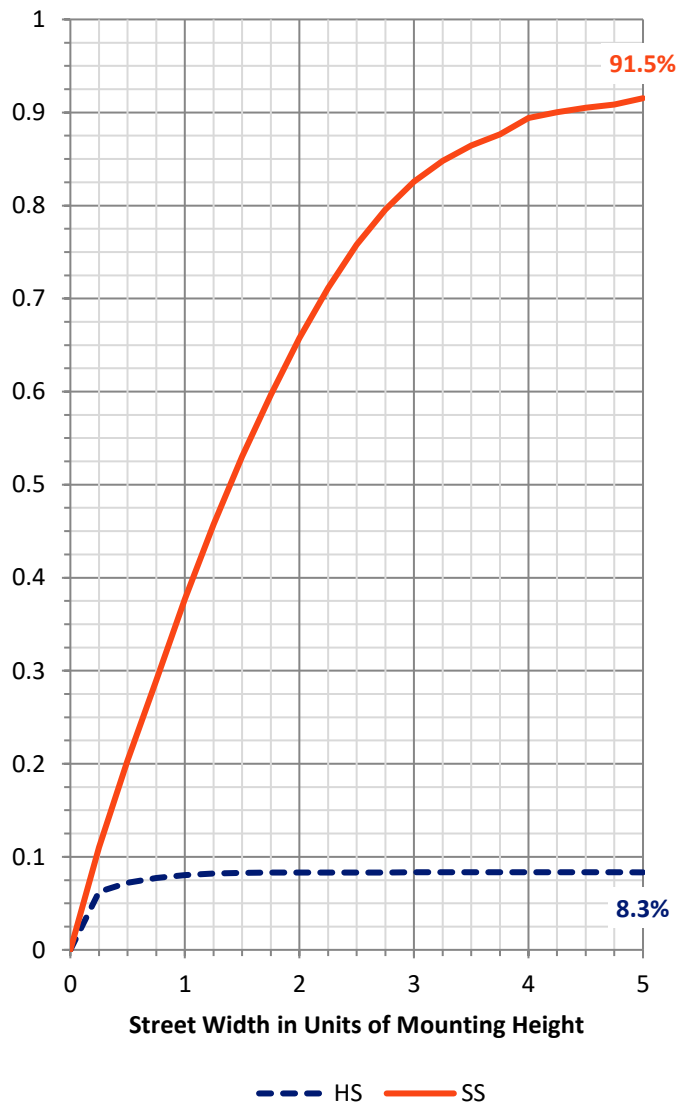
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1593.5 | 0.0 | 1593.5 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 17431.0 | 0.0 | 17431.0 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 19024.6 | 0.0 | 19024.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 248.8 | 1.3 |
| 10°-20° | 539.9 | 2.8 |
| 20°-30° | 839.9 | 4.4 |
| 30°-40° | 1399.4 | 7.4 |
| 40°-50° | 2603.0 | 13.7 |
| 50°-60° | 4179.3 | 22.0 |
| 60°-70° | 5621.3 | 29.5 |
| 70°-80° | 3335.2 | 17.5 |
| 80°-90° | 257.8 | 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° | 19024.6 | 100.0 |
| 0°-180° | 19024.6 | 100.0 |

Coefficient of Utilization

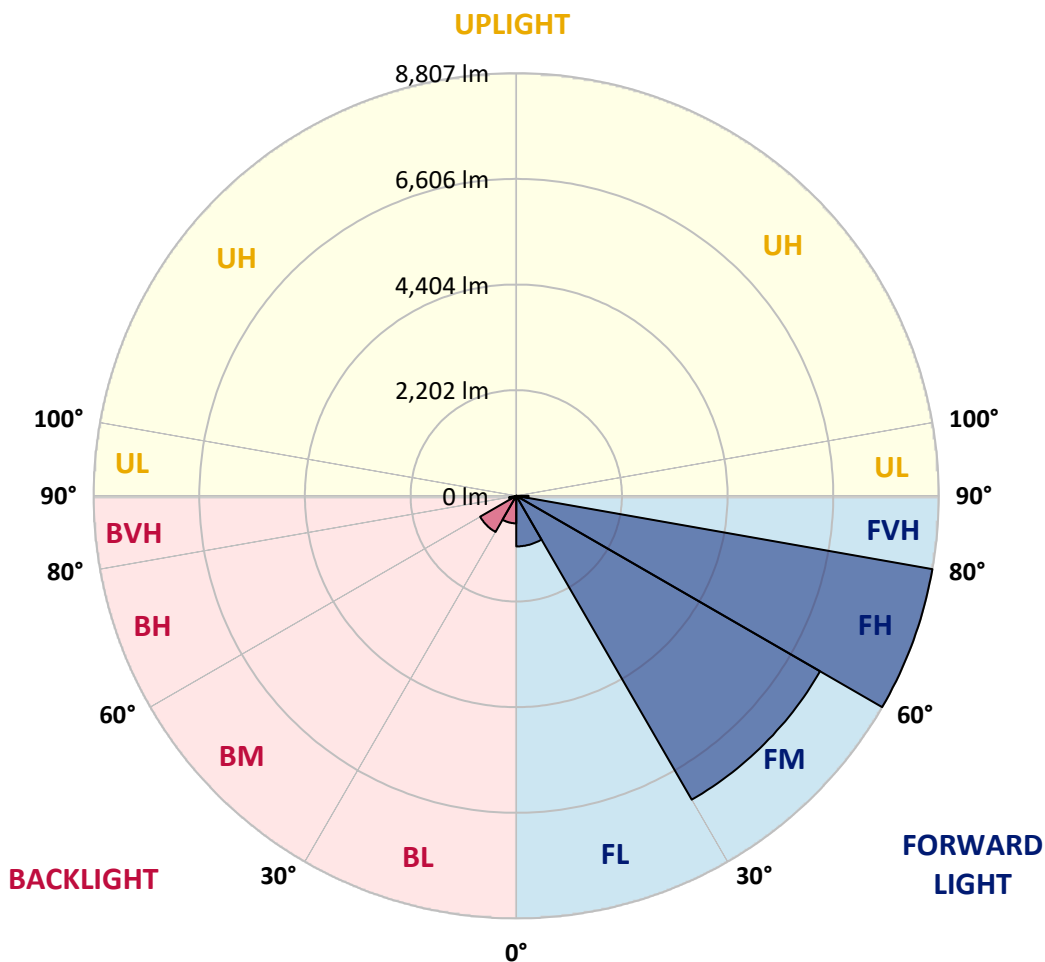


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1054.5 | 5.5 | | | |
| FM (30°-60°) | 7312.3 | 38.4 | | | |
| FH (60°-80°) | 8807.4 | 46.3 | | | G4/12000 |
| FVH (80°-90°) | 256.8 | 1.3 | | | G3/500 |
| BL (0°-30°) | 574.2 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 869.3 | 4.6 | B1/1000 | | |
| BH (60°-80°) | 149.1 | 0.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 32° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 |
| 2.5° | 2837.4 | 2866.6 | 2862.3 | 2872.5 | 2897.3 | 2907.6 | 2935.3 | 2966.0 | 3008.4 | 3037.6 | 3056.5 |
| 5° | 2541.0 | 2562.9 | 2565.8 | 2616.9 | 2641.8 | 2669.6 | 2751.3 | 2840.4 | 2939.7 | 3018.5 | 3071.2 |
| 7.5° | 2224.1 | 2235.8 | 2259.2 | 2326.4 | 2389.2 | 2416.9 | 2541.0 | 2695.8 | 2852.1 | 2999.6 | 3094.5 |
| 10° | 1962.7 | 1975.8 | 2018.2 | 2089.7 | 2148.2 | 2184.7 | 2357.0 | 2551.2 | 2770.3 | 2989.3 | 3128.1 |
| 12.5° | 1813.7 | 1821.1 | 1837.2 | 1901.4 | 1975.8 | 2015.3 | 2200.8 | 2422.8 | 2704.6 | 2993.7 | 3185.0 |
| 15° | 1803.6 | 1800.6 | 1781.6 | 1807.9 | 1875.1 | 1916.0 | 2097.1 | 2335.1 | 2646.1 | 3008.4 | 3252.2 |
| 17.5° | 1857.6 | 1850.3 | 1805.0 | 1805.0 | 1860.5 | 1894.1 | 2053.3 | 2288.4 | 2616.9 | 3042.0 | 3347.2 |
| 20° | 1940.8 | 1929.2 | 1854.6 | 1848.8 | 1902.8 | 1937.9 | 2079.6 | 2291.3 | 2622.8 | 3104.8 | 3474.2 |
| 22.5° | 2046.0 | 2032.8 | 1920.4 | 1923.3 | 1981.7 | 2016.8 | 2155.5 | 2343.8 | 2659.3 | 3182.1 | 3610.0 |
| 25° | 2183.2 | 2168.6 | 2035.7 | 2029.9 | 2091.2 | 2121.9 | 2268.0 | 2437.3 | 2710.4 | 3278.5 | 3788.2 |
| 27.5° | 2365.8 | 2335.1 | 2176.0 | 2167.2 | 2232.9 | 2272.3 | 2403.7 | 2562.9 | 2800.9 | 3411.4 | 4027.7 |
| 30° | 2516.2 | 2482.6 | 2330.8 | 2307.3 | 2377.4 | 2408.1 | 2544.0 | 2732.4 | 2979.2 | 3643.6 | 4359.2 |
| 32.5° | 2713.3 | 2663.7 | 2485.6 | 2424.2 | 2498.6 | 2538.1 | 2746.9 | 3047.7 | 3243.4 | 3888.9 | 4753.4 |
| 35° | 3157.3 | 3126.6 | 2909.0 | 2694.4 | 2690.0 | 2739.6 | 3046.3 | 3366.1 | 3515.0 | 4271.6 | 5290.9 |
| 37.5° | 3792.5 | 3770.6 | 3539.9 | 3252.2 | 3169.0 | 3145.6 | 3410.0 | 3716.6 | 3948.8 | 4797.3 | 5915.9 |
| 40° | 4530.0 | 4478.9 | 4267.2 | 4023.3 | 3915.2 | 3846.6 | 3839.3 | 4238.0 | 4515.4 | 5511.4 | 6567.3 |
| 42.5° | 5058.6 | 4965.2 | 4708.2 | 4690.6 | 4667.3 | 4595.7 | 4388.4 | 5000.2 | 5247.0 | 6279.5 | 7263.8 |
| 45° | 5613.6 | 5471.9 | 5089.3 | 5023.6 | 5014.9 | 5010.5 | 5217.8 | 5902.7 | 6044.4 | 7111.9 | 7979.4 |
| 47.5° | 6044.4 | 5931.9 | 5618.0 | 5588.8 | 5625.3 | 5724.6 | 6314.6 | 6860.7 | 6831.5 | 7853.8 | 8579.6 |
| 50° | 6618.3 | 6533.7 | 6184.6 | 6240.1 | 6428.5 | 6590.6 | 7551.5 | 7904.9 | 7478.5 | 8437.9 | 9016.2 |
| 52.5° | 7295.9 | 7139.7 | 6815.5 | 6965.9 | 7255.0 | 7525.2 | 8864.3 | 8819.1 | 7932.7 | 8877.5 | 9341.9 |
| 55° | 7883.0 | 7772.0 | 7661.0 | 7817.3 | 8249.5 | 8586.9 | 10050.2 | 9504.0 | 8262.7 | 9230.9 | 9485.0 |
| 57.5° | 8876.0 | 8849.8 | 8735.9 | 8895.0 | 9419.3 | 9769.8 | 11111.9 | 10035.6 | 8474.4 | 9414.9 | 9317.1 |
| 60° | 10345.2 | 10302.8 | 10091.1 | 10294.0 | 10977.5 | 11528.0 | 12090.3 | 10513.1 | 8522.6 | 9343.4 | 8833.7 |
| 62.5° | 12112.2 | 11967.6 | 11786.5 | 12085.9 | 13023.5 | 13265.9 | 13011.7 | 10796.4 | 8343.0 | 8773.8 | 7668.3 |
| 65° | 13762.4 | 13613.5 | 13617.8 | 14248.7 | 15269.4 | 15434.5 | 14086.6 | 10754.0 | 7817.3 | 7347.0 | 5655.9 |
| 67.5° | 15025.6 | 15000.8 | 15178.9 | 16410.0 | 17744.8 | 17630.9 | 15047.5 | 10120.3 | 6259.1 | 4762.2 | 3005.4 |
| 70° | 15089.8 | 15138.1 | 15649.2 | 17727.3 | 19082.5 | 18901.4 | 14965.7 | 8226.2 | 3902.1 | 2190.5 | 1184.4 |
| 71° | 14312.9 | 14637.2 | 15344.0 | 17686.4 | 19161.3 | 18926.2 | 14276.4 | 6889.9 | 2862.3 | 1527.6 | 854.3 |
| 72.5° | 12196.9 | 12367.7 | 13895.3 | 16645.2 | 18537.8 | 18035.4 | 12528.4 | 4829.4 | 1832.8 | 934.6 | 490.7 |
| 75° | 6717.7 | 7138.2 | 9305.4 | 13058.5 | 14827.0 | 14386.0 | 8164.8 | 2294.2 | 914.2 | 511.1 | 203.0 |
| 77.5° | 3198.2 | 3116.4 | 4540.2 | 7766.2 | 10053.1 | 10029.8 | 4113.8 | 1019.3 | 533.1 | 346.1 | 102.3 |
| 80° | 914.2 | 1028.1 | 1737.8 | 3691.8 | 5581.5 | 5642.8 | 1580.1 | 492.1 | 369.5 | 270.1 | 52.5 |
| 82.5° | 276.0 | 281.9 | 638.1 | 1632.7 | 2776.1 | 2616.9 | 592.9 | 251.2 | 265.8 | 214.7 | 30.7 |
| 85° | 48.2 | 59.9 | 188.4 | 575.3 | 1058.8 | 803.2 | 148.9 | 119.7 | 175.2 | 141.6 | 17.5 |
| 87.5° | 2.9 | 4.4 | 62.8 | 65.7 | 93.5 | 54.0 | 26.3 | 17.5 | 38.0 | 38.0 | 10.3 |
| 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° | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 | 3059.4 |
| 2.5° | 3069.7 | 3078.4 | 3072.6 | 3059.4 | 3037.6 | 3011.3 | 2976.2 | 2947.0 | 2922.2 | 2909.0 | 2925.1 |
| 5° | 3088.6 | 3100.4 | 3071.2 | 3005.4 | 2906.1 | 2798.1 | 2675.4 | 2580.5 | 2506.0 | 2482.6 | 2473.8 |
| 7.5° | 3117.8 | 3125.2 | 3046.3 | 2900.2 | 2690.0 | 2434.4 | 2211.0 | 2022.6 | 1876.5 | 1832.8 | 1768.5 |
| 10° | 3155.8 | 3151.4 | 3002.5 | 2730.9 | 2361.4 | 1977.3 | 1631.2 | 1374.2 | 1180.0 | 1109.9 | 1104.0 |
| 12.5° | 3214.2 | 3190.9 | 2947.0 | 2500.1 | 1970.0 | 1467.7 | 1039.7 | 813.4 | 690.8 | 649.9 | 641.1 |
| 15° | 3287.3 | 3231.8 | 2859.4 | 2230.0 | 1508.5 | 947.7 | 641.1 | 572.5 | 556.4 | 553.5 | 550.5 |
| 17.5° | 3373.4 | 3285.8 | 2744.0 | 1898.5 | 1060.2 | 614.8 | 536.0 | 534.5 | 536.0 | 533.1 | 531.6 |
| 20° | 3490.2 | 3342.8 | 2606.8 | 1505.6 | 700.9 | 518.4 | 511.1 | 511.1 | 512.6 | 511.1 | 511.1 |
| 22.5° | 3614.4 | 3410.0 | 2437.3 | 1149.3 | 528.7 | 492.1 | 490.7 | 493.6 | 496.5 | 495.1 | 495.1 |
| 25° | 3767.7 | 3497.6 | 2213.9 | 787.1 | 473.2 | 470.3 | 471.7 | 477.6 | 483.3 | 484.8 | 483.3 |
| 27.5° | 3989.7 | 3605.6 | 1974.4 | 541.8 | 433.7 | 436.7 | 451.2 | 465.9 | 474.7 | 476.1 | 476.1 |
| 30° | 4239.4 | 3725.4 | 1661.9 | 439.6 | 401.6 | 401.6 | 419.1 | 446.9 | 465.9 | 468.8 | 470.3 |
| 32.5° | 4560.7 | 3864.1 | 1315.8 | 395.7 | 370.9 | 368.0 | 384.1 | 417.7 | 452.7 | 462.9 | 462.9 |
| 35° | 4957.9 | 4027.7 | 978.4 | 368.0 | 349.1 | 341.7 | 350.5 | 378.3 | 423.5 | 452.7 | 455.6 |
| 37.5° | 5423.8 | 4182.5 | 715.6 | 343.2 | 328.5 | 318.4 | 324.2 | 346.1 | 382.7 | 426.4 | 438.1 |
| 40° | 5854.6 | 4319.7 | 534.5 | 322.8 | 308.1 | 300.8 | 305.2 | 315.5 | 346.1 | 387.0 | 394.3 |
| 42.5° | 6324.8 | 4426.3 | 424.9 | 300.8 | 287.7 | 284.8 | 284.8 | 289.2 | 309.6 | 332.9 | 334.4 |
| 45° | 6793.5 | 4464.3 | 356.3 | 274.5 | 265.8 | 268.7 | 267.2 | 264.3 | 273.1 | 270.1 | 270.1 |
| 47.5° | 7128.0 | 4419.0 | 295.0 | 249.7 | 249.7 | 254.1 | 246.8 | 236.5 | 232.2 | 214.7 | 216.1 |
| 50° | 7357.3 | 4254.0 | 242.4 | 220.5 | 232.2 | 238.0 | 223.5 | 207.3 | 191.3 | 172.3 | 168.0 |
| 52.5° | 7452.2 | 3960.5 | 198.6 | 182.5 | 205.9 | 213.2 | 195.7 | 176.7 | 151.9 | 135.9 | 131.5 |
| 55° | 7390.9 | 3598.4 | 165.1 | 148.9 | 173.7 | 182.5 | 165.1 | 143.1 | 115.3 | 97.9 | 94.9 |
| 57.5° | 7120.7 | 3166.1 | 140.2 | 118.3 | 138.7 | 144.5 | 132.9 | 109.5 | 81.7 | 64.3 | 64.3 |
| 60° | 6653.4 | 2719.2 | 113.9 | 93.5 | 103.7 | 112.4 | 100.8 | 78.8 | 55.5 | 39.5 | 36.5 |
| 62.5° | 5705.6 | 2208.1 | 92.0 | 73.1 | 73.1 | 80.3 | 70.1 | 56.9 | 35.1 | 20.4 | 18.9 |
| 65° | 4119.7 | 1514.4 | 73.1 | 54.0 | 52.5 | 52.5 | 43.8 | 38.0 | 20.4 | 8.8 | 5.9 |
| 67.5° | 2238.8 | 854.3 | 58.4 | 40.9 | 36.5 | 35.1 | 27.7 | 21.9 | 8.8 | 1.5 | 0.0 |
| 70° | 880.6 | 328.5 | 45.3 | 27.7 | 23.3 | 21.9 | 14.6 | 10.3 | 5.9 | 0.0 | 0.0 |
| 71° | 597.3 | 226.4 | 39.5 | 23.3 | 18.9 | 16.1 | 11.7 | 8.8 | 4.4 | 0.0 | 0.0 |
| 72.5° | 341.7 | 140.2 | 30.7 | 17.5 | 14.6 | 11.7 | 8.8 | 5.9 | 4.4 | 0.0 | 0.0 |
| 75° | 148.9 | 71.6 | 18.9 | 13.2 | 10.3 | 7.3 | 5.9 | 4.4 | 1.5 | 0.0 | 0.0 |
| 77.5° | 76.0 | 39.5 | 13.2 | 10.3 | 5.9 | 4.4 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 |
| 80° | 42.4 | 20.4 | 8.8 | 5.9 | 4.4 | 2.9 | 1.5 | 1.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 23.3 | 11.7 | 4.4 | 2.9 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 14.6 | 7.3 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.3 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 1.5 | 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)