

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: STREETWORKS

Report Number: P649991

Luminaire Tested: **GLAN-SA6A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P649991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6A-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12679.9 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

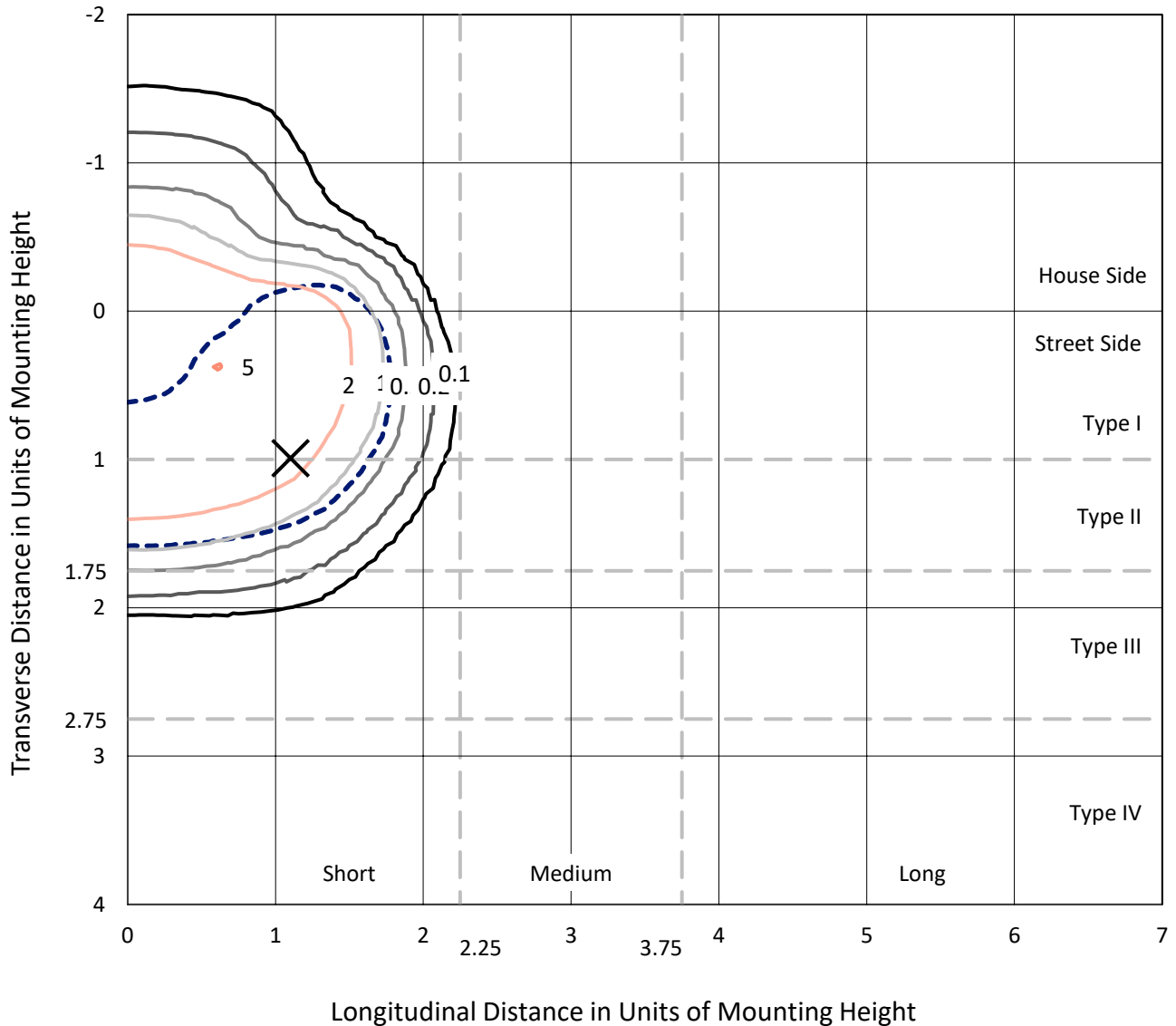
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

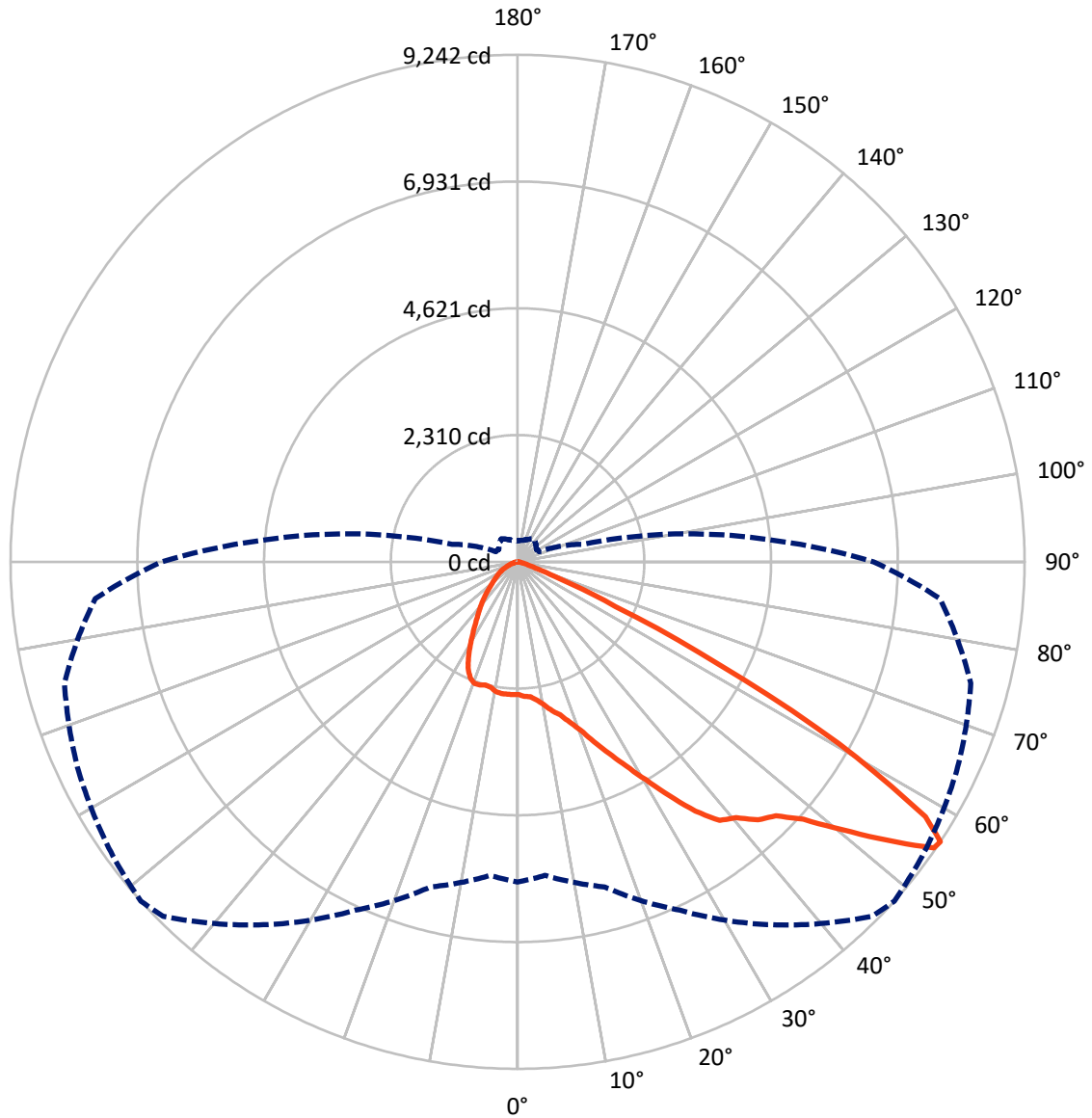
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2757.6 | 0.0 | 2757.6 |
| | % Fixture | 21.7 | 0.0 | 21.7 |
| Street Side | Lumens | 9922.3 | 0.0 | 9922.3 |
| | % Fixture | 78.3 | 0.0 | 78.3 |
| Total | Lumens | 12679.9 | 0.0 | 12679.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 235.9 | 1.9 |
| 10°-20° | 753.9 | 5.9 |
| 20°-30° | 1367.5 | 10.8 |
| 30°-40° | 2148.1 | 16.9 |
| 40°-50° | 3133.7 | 24.7 |
| 50°-60° | 3775.5 | 29.8 |
| 60°-70° | 1105.4 | 8.7 |
| 70°-80° | 140.2 | 1.1 |
| 80°-90° | 19.7 | 0.2 |
| 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° | 12679.9 | 100.0 |
| 0°-180° | 12679.9 | 100.0 |

Coefficient of Utilization

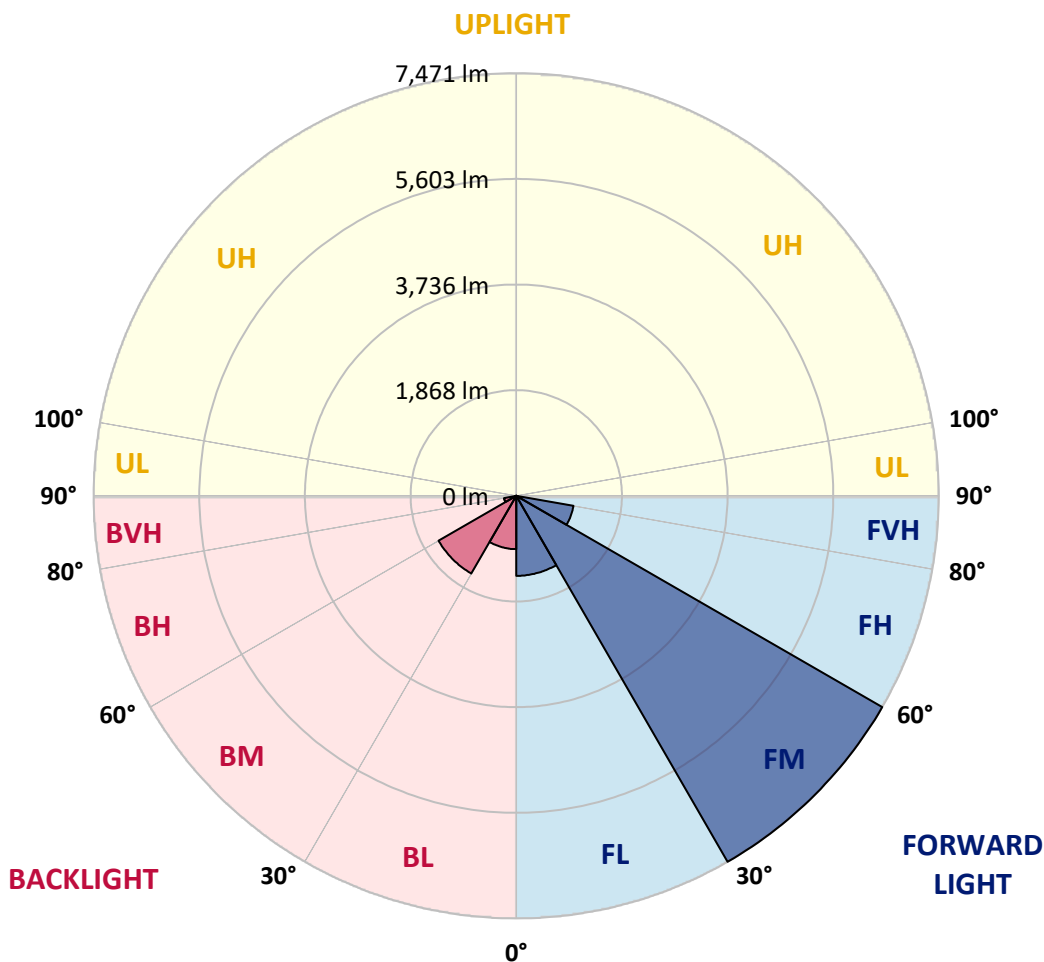


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1414.8 | 11.2 | | | |
| FM (30°-60°) | 7471.0 | 58.9 | | | |
| FH (60°-80°) | 1026.5 | 8.1 | | | G1/1800 |
| FVH (80°-90°) | 9.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 942.6 | 7.4 | B2/1000 | | |
| BM (30°-60°) | 1586.2 | 12.5 | B2/2500 | | |
| BH (60°-80°) | 219.1 | 1.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.8 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 |
| 2.5° | 2465.7 | 2454.2 | 2454.2 | 2435.8 | 2456.5 | 2447.3 | 2454.2 | 2431.1 | 2454.2 | 2419.5 | 2447.3 |
| 5° | 2477.3 | 2479.6 | 2470.4 | 2481.9 | 2481.9 | 2495.7 | 2472.6 | 2493.5 | 2505.0 | 2479.6 | 2468.0 |
| 7.5° | 2537.3 | 2541.9 | 2539.6 | 2530.3 | 2548.8 | 2546.6 | 2544.2 | 2528.1 | 2532.7 | 2523.5 | 2509.6 |
| 10° | 2655.1 | 2652.7 | 2664.3 | 2641.2 | 2627.4 | 2643.5 | 2648.1 | 2622.7 | 2604.3 | 2597.4 | 2553.4 |
| 12.5° | 2825.9 | 2798.2 | 2782.0 | 2759.0 | 2765.9 | 2742.8 | 2784.3 | 2740.5 | 2731.3 | 2689.7 | 2645.8 |
| 15° | 2964.4 | 2959.8 | 2962.1 | 2925.2 | 2883.6 | 2892.9 | 2892.9 | 2869.8 | 2855.9 | 2805.1 | 2742.8 |
| 17.5° | 3248.4 | 3151.4 | 3172.2 | 3126.0 | 3091.4 | 3089.1 | 3068.3 | 3073.0 | 3036.0 | 2929.8 | 2835.2 |
| 20° | 3470.0 | 3428.4 | 3396.2 | 3317.6 | 3264.6 | 3280.7 | 3271.5 | 3248.4 | 3236.8 | 3098.3 | 2964.4 |
| 22.5° | 3668.6 | 3682.4 | 3629.4 | 3608.5 | 3534.7 | 3541.6 | 3560.1 | 3539.3 | 3451.5 | 3308.4 | 3109.8 |
| 25° | 3948.0 | 3931.8 | 3860.2 | 3834.8 | 3765.5 | 3791.0 | 3862.5 | 3846.3 | 3791.0 | 3532.3 | 3223.0 |
| 27.5° | 4278.1 | 4222.7 | 4236.5 | 4121.1 | 4054.1 | 4125.7 | 4211.1 | 4291.9 | 4134.9 | 3795.6 | 3356.9 |
| 30° | 4511.3 | 4453.5 | 4448.9 | 4444.3 | 4428.2 | 4511.3 | 4610.5 | 4684.5 | 4557.5 | 4058.8 | 3578.5 |
| 32.5° | 4626.7 | 4640.5 | 4679.8 | 4666.0 | 4806.8 | 4977.6 | 5081.5 | 5187.8 | 5028.4 | 4488.2 | 3871.8 |
| 35° | 4933.8 | 4846.1 | 4933.8 | 4943.0 | 5088.5 | 5450.9 | 5582.6 | 5836.5 | 5797.3 | 5095.4 | 4229.6 |
| 37.5° | 5113.9 | 5107.0 | 5118.5 | 5206.2 | 5347.0 | 5794.9 | 5982.0 | 6178.2 | 6104.3 | 5460.2 | 4675.2 |
| 40° | 5411.7 | 5430.2 | 5427.8 | 5494.8 | 5649.5 | 6053.5 | 6129.7 | 6289.0 | 6295.9 | 5965.8 | 5330.9 |
| 42.5° | 5889.6 | 5815.7 | 5767.3 | 5836.5 | 6053.5 | 6277.5 | 6429.8 | 6397.5 | 6626.1 | 6579.9 | 6173.6 |
| 45° | 6319.0 | 6362.9 | 6291.3 | 6406.7 | 6485.3 | 6605.3 | 6600.7 | 6669.9 | 6960.9 | 7180.2 | 6808.5 |
| 47.5° | 6720.7 | 6748.4 | 6783.1 | 6861.6 | 7032.4 | 7050.9 | 7011.6 | 6981.6 | 7383.4 | 7609.6 | 7300.2 |
| 50° | 6960.9 | 6986.2 | 7147.9 | 7288.7 | 7607.3 | 7648.8 | 7671.9 | 7595.7 | 7868.2 | 7893.6 | 7764.3 |
| 52.5° | 6896.2 | 6923.9 | 7150.2 | 7614.2 | 8122.1 | 8503.1 | 8433.8 | 8304.5 | 8288.4 | 8387.7 | 8193.7 |
| 55° | 6323.7 | 6298.2 | 6609.9 | 7332.6 | 8283.7 | 9198.0 | 9207.2 | 9071.1 | 8810.2 | 8743.2 | 8129.1 |
| 56° | 5836.5 | 5737.2 | 6134.3 | 7007.0 | 8075.9 | 9138.0 | 9241.9 | 9096.4 | 8851.7 | 8551.5 | 7729.6 |
| 57.5° | 4781.4 | 4876.1 | 5270.8 | 5993.5 | 7357.9 | 8706.3 | 8766.3 | 8731.6 | 8546.9 | 8043.7 | 6801.5 |
| 60° | 2636.6 | 2802.8 | 3151.4 | 4035.7 | 5238.5 | 6681.5 | 6730.0 | 7011.6 | 7046.3 | 6159.7 | 4679.8 |
| 62.5° | 1119.8 | 1101.3 | 1463.7 | 2114.8 | 2982.9 | 4033.4 | 4123.4 | 4412.0 | 4465.1 | 3550.8 | 2348.0 |
| 65° | 454.8 | 480.2 | 662.6 | 1064.3 | 1576.9 | 1837.8 | 1964.7 | 2059.4 | 2234.8 | 1466.0 | 865.8 |
| 67.5° | 300.1 | 297.9 | 390.2 | 607.2 | 849.6 | 819.6 | 819.6 | 865.8 | 801.2 | 598.0 | 374.0 |
| 70° | 214.7 | 221.7 | 279.4 | 420.2 | 528.7 | 392.5 | 376.3 | 360.2 | 408.6 | 394.8 | 302.5 |
| 72.5° | 140.9 | 150.1 | 187.0 | 251.7 | 274.8 | 214.7 | 214.7 | 258.5 | 337.1 | 318.6 | 247.0 |
| 75° | 92.3 | 94.7 | 115.4 | 145.5 | 136.2 | 110.8 | 122.4 | 173.1 | 244.7 | 235.5 | 175.5 |
| 77.5° | 62.3 | 64.7 | 78.5 | 94.7 | 76.2 | 62.3 | 66.9 | 87.7 | 120.0 | 120.0 | 92.3 |
| 80° | 23.1 | 25.4 | 32.3 | 30.0 | 34.6 | 43.8 | 48.5 | 60.1 | 71.6 | 71.6 | 62.3 |
| 82.5° | 0.0 | 2.3 | 6.9 | 16.1 | 25.4 | 34.6 | 39.2 | 46.2 | 53.1 | 60.1 | 57.7 |
| 85° | 0.0 | 2.3 | 6.9 | 11.5 | 18.5 | 20.7 | 23.1 | 16.1 | 13.9 | 13.9 | 11.5 |
| 87.5° | 0.0 | 0.0 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 4.6 | 2.3 | 2.3 |
| 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° | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 | 2421.9 |
| 2.5° | 2421.9 | 2419.5 | 2419.5 | 2412.7 | 2426.5 | 2419.5 | 2424.2 | 2421.9 | 2391.8 | 2414.9 | 2398.8 |
| 5° | 2447.3 | 2463.4 | 2438.0 | 2433.4 | 2414.9 | 2421.9 | 2421.9 | 2398.8 | 2419.5 | 2417.3 | 2412.7 |
| 7.5° | 2511.9 | 2484.2 | 2456.5 | 2428.8 | 2424.2 | 2417.3 | 2391.8 | 2382.6 | 2398.8 | 2380.3 | 2408.0 |
| 10° | 2539.6 | 2544.2 | 2502.7 | 2465.7 | 2431.1 | 2382.6 | 2348.0 | 2327.2 | 2301.8 | 2329.5 | 2345.7 |
| 12.5° | 2666.6 | 2620.4 | 2548.8 | 2491.1 | 2373.4 | 2324.9 | 2290.3 | 2281.0 | 2324.9 | 2334.1 | 2318.0 |
| 15° | 2710.4 | 2703.5 | 2611.1 | 2481.9 | 2359.5 | 2301.8 | 2308.8 | 2290.3 | 2294.9 | 2271.8 | 2276.4 |
| 17.5° | 2800.5 | 2722.0 | 2613.5 | 2451.9 | 2357.2 | 2343.4 | 2301.8 | 2227.9 | 2186.4 | 2167.9 | 2184.1 |
| 20° | 2899.8 | 2823.6 | 2666.6 | 2463.4 | 2378.0 | 2341.1 | 2204.8 | 2114.8 | 2029.4 | 1983.2 | 1985.5 |
| 22.5° | 2987.5 | 2892.9 | 2643.5 | 2468.0 | 2396.4 | 2244.1 | 2080.2 | 1902.4 | 1796.2 | 1724.6 | 1726.9 |
| 25° | 3093.7 | 2959.8 | 2652.7 | 2477.3 | 2348.0 | 2089.4 | 1853.9 | 1680.8 | 1553.8 | 1505.3 | 1521.4 |
| 27.5° | 3153.8 | 3001.4 | 2703.5 | 2498.1 | 2221.0 | 1870.1 | 1616.1 | 1454.5 | 1380.7 | 1357.6 | 1355.2 |
| 30° | 3333.9 | 3093.7 | 2765.9 | 2456.5 | 2008.6 | 1634.6 | 1399.1 | 1299.9 | 1228.2 | 1207.5 | 1212.1 |
| 32.5° | 3601.6 | 3262.2 | 2846.7 | 2348.0 | 1791.6 | 1424.5 | 1258.3 | 1184.4 | 1117.4 | 1078.2 | 1073.6 |
| 35° | 3825.6 | 3550.8 | 2932.1 | 2179.5 | 1539.9 | 1262.9 | 1159.0 | 1066.6 | 965.0 | 921.2 | 909.6 |
| 37.5° | 4252.7 | 3876.4 | 2913.6 | 1925.5 | 1299.9 | 1142.8 | 1052.8 | 939.7 | 851.9 | 791.9 | 785.0 |
| 40° | 4820.6 | 4257.3 | 2823.6 | 1616.1 | 1122.0 | 1036.6 | 939.7 | 831.2 | 722.6 | 671.8 | 667.2 |
| 42.5° | 5511.0 | 4723.7 | 2659.7 | 1302.1 | 944.3 | 930.4 | 842.7 | 718.0 | 621.1 | 584.1 | 586.4 |
| 45° | 6072.0 | 5123.1 | 2493.5 | 1045.9 | 812.7 | 826.5 | 750.3 | 632.6 | 565.6 | 535.7 | 535.7 |
| 47.5° | 6570.7 | 5393.2 | 2313.4 | 863.5 | 690.3 | 722.6 | 655.7 | 586.4 | 528.7 | 505.6 | 501.0 |
| 50° | 7050.9 | 5668.0 | 2133.3 | 699.5 | 588.7 | 621.1 | 614.1 | 558.7 | 512.6 | 484.8 | 487.2 |
| 52.5° | 7351.0 | 5711.8 | 1904.7 | 572.5 | 514.8 | 551.8 | 574.9 | 524.1 | 473.3 | 457.1 | 452.5 |
| 55° | 6984.0 | 5146.2 | 1477.6 | 471.0 | 436.4 | 484.8 | 528.7 | 471.0 | 431.7 | 404.0 | 401.8 |
| 56° | 6489.9 | 4601.3 | 1235.2 | 434.0 | 413.3 | 466.4 | 512.6 | 450.2 | 406.4 | 390.2 | 378.7 |
| 57.5° | 5494.8 | 3765.5 | 912.0 | 385.5 | 383.3 | 434.0 | 487.2 | 429.4 | 378.7 | 364.8 | 364.8 |
| 60° | 3426.2 | 2119.4 | 551.8 | 323.2 | 332.5 | 385.5 | 438.6 | 383.3 | 337.1 | 337.1 | 344.0 |
| 62.5° | 1560.7 | 882.0 | 334.7 | 274.8 | 286.3 | 332.5 | 390.2 | 346.3 | 321.0 | 346.3 | 350.9 |
| 65° | 531.0 | 380.9 | 242.4 | 219.3 | 226.3 | 274.8 | 334.7 | 350.9 | 348.6 | 364.8 | 374.0 |
| 67.5° | 297.9 | 244.7 | 203.2 | 182.4 | 177.7 | 203.2 | 274.8 | 350.9 | 337.1 | 330.1 | 334.7 |
| 70° | 251.7 | 207.8 | 180.1 | 161.6 | 154.7 | 163.9 | 212.4 | 265.5 | 237.8 | 230.9 | 226.3 |
| 72.5° | 203.2 | 173.1 | 157.0 | 145.5 | 124.7 | 106.2 | 96.9 | 101.6 | 113.1 | 120.0 | 131.6 |
| 75° | 143.1 | 131.6 | 131.6 | 117.8 | 90.0 | 66.9 | 53.1 | 43.8 | 30.0 | 20.7 | 23.1 |
| 77.5° | 80.8 | 80.8 | 83.1 | 71.6 | 57.7 | 43.8 | 32.3 | 23.1 | 11.5 | 4.6 | 2.3 |
| 80° | 55.4 | 60.1 | 64.7 | 57.7 | 48.5 | 39.2 | 27.7 | 16.1 | 6.9 | 0.0 | 0.0 |
| 82.5° | 55.4 | 62.3 | 66.9 | 57.7 | 48.5 | 37.0 | 27.7 | 16.1 | 6.9 | 2.3 | 0.0 |
| 85° | 11.5 | 13.9 | 16.1 | 18.5 | 27.7 | 27.7 | 20.7 | 13.9 | 6.9 | 2.3 | 0.0 |
| 87.5° | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 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)