

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: P323717

Luminaire Tested: **GAN-SA3B-722-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-722-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10958 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

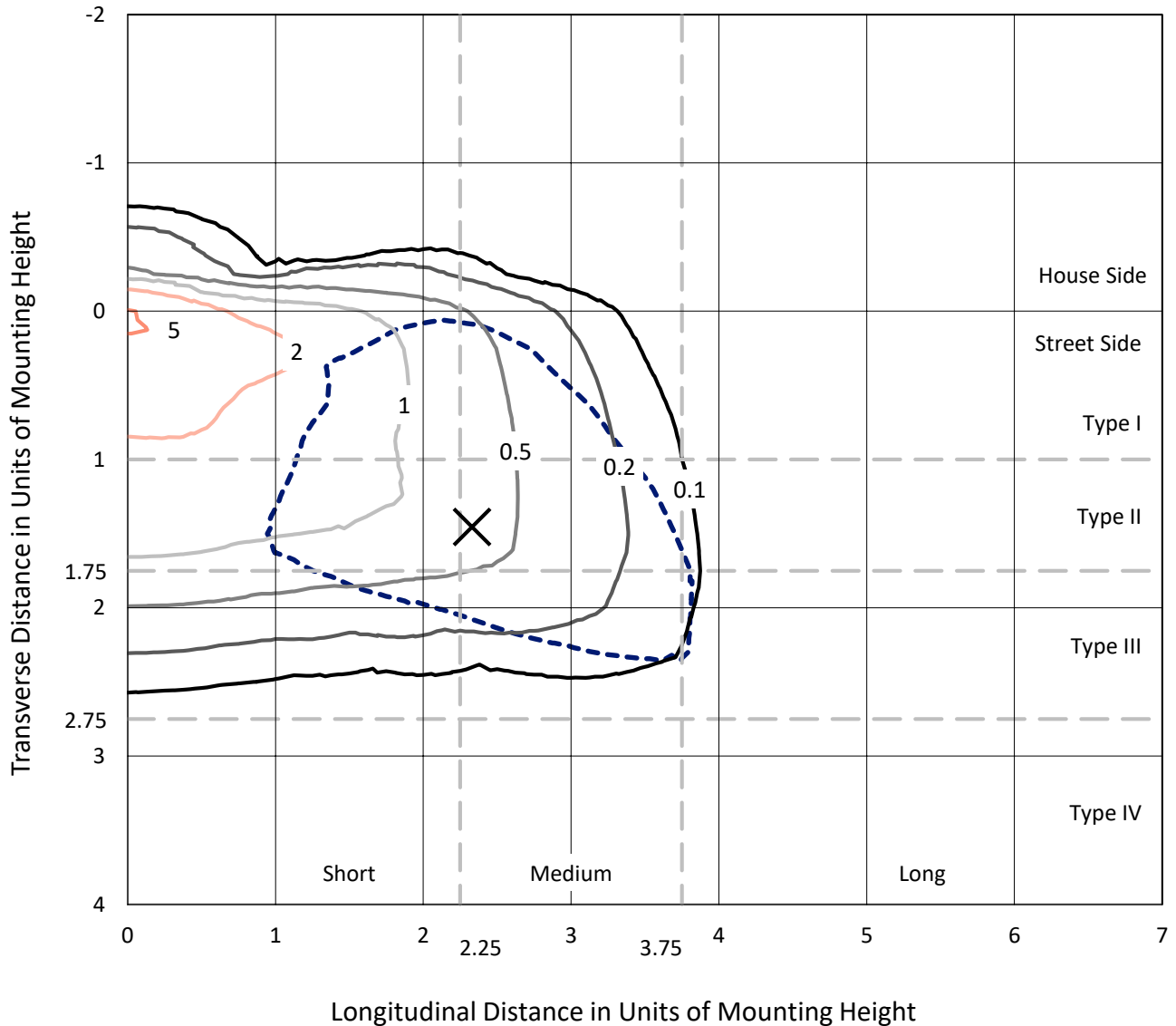
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

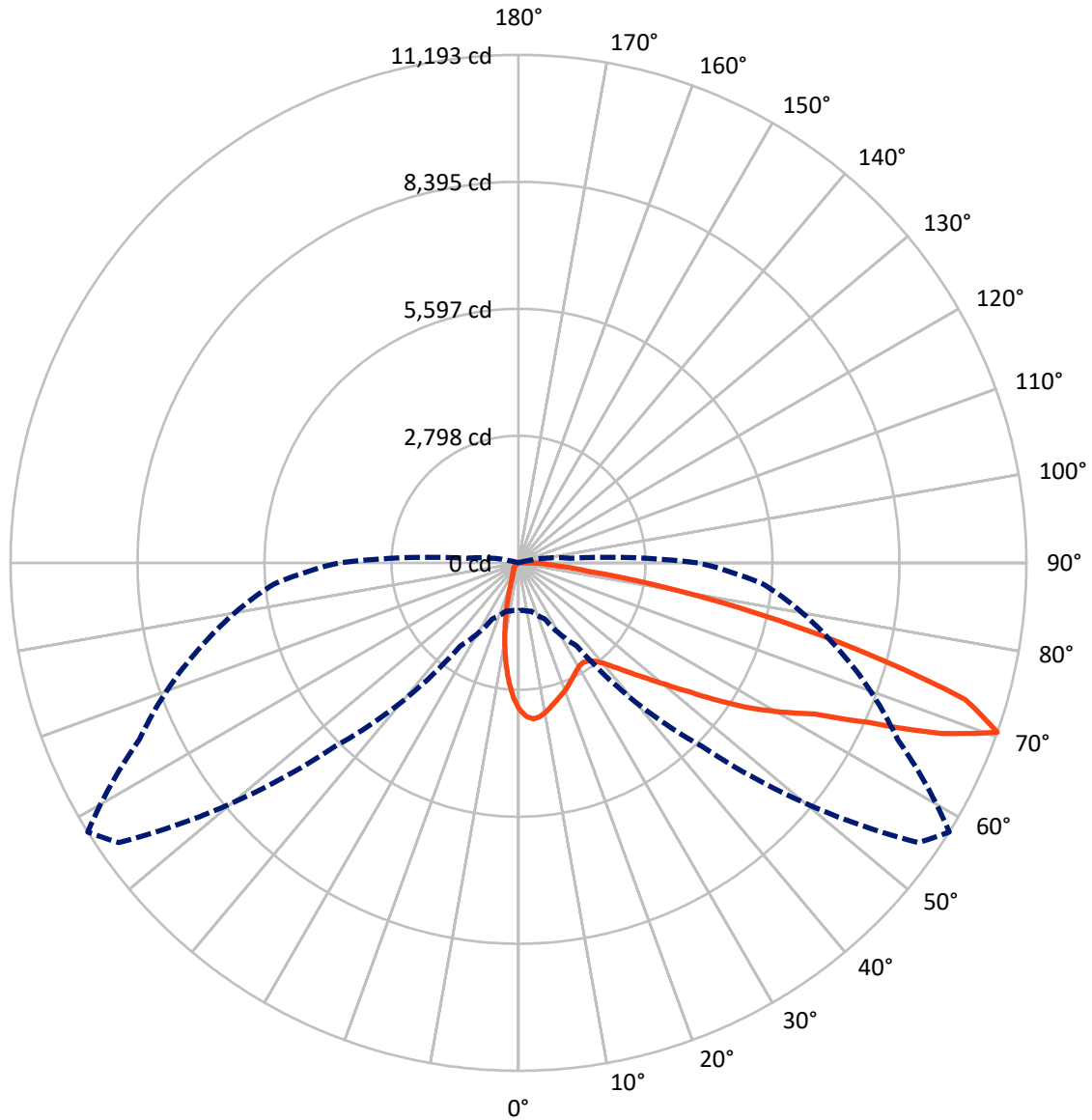
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 937.8 | 0.0 | 937.8 |
| | % Fixture | 8.6 | 0.0 | 8.6 |
| Street Side | Lumens | 10020.2 | 0.0 | 10020.2 |
| | % Fixture | 91.4 | 0.0 | 91.4 |
| Total | Lumens | 10958.0 | 0.0 | 10958.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 264.7 | 2.4 |
| 10°-20° | 555.5 | 5.1 |
| 20°-30° | 730.3 | 6.7 |
| 30°-40° | 967.3 | 8.8 |
| 40°-50° | 1445.8 | 13.2 |
| 50°-60° | 2316.0 | 21.1 |
| 60°-70° | 2919.3 | 26.6 |
| 70°-80° | 1574.7 | 14.4 |
| 80°-90° | 184.3 | 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° | 10958.0 | 100.0 |
| 0°-180° | 10958.0 | 100.0 |

Coefficient of Utilization

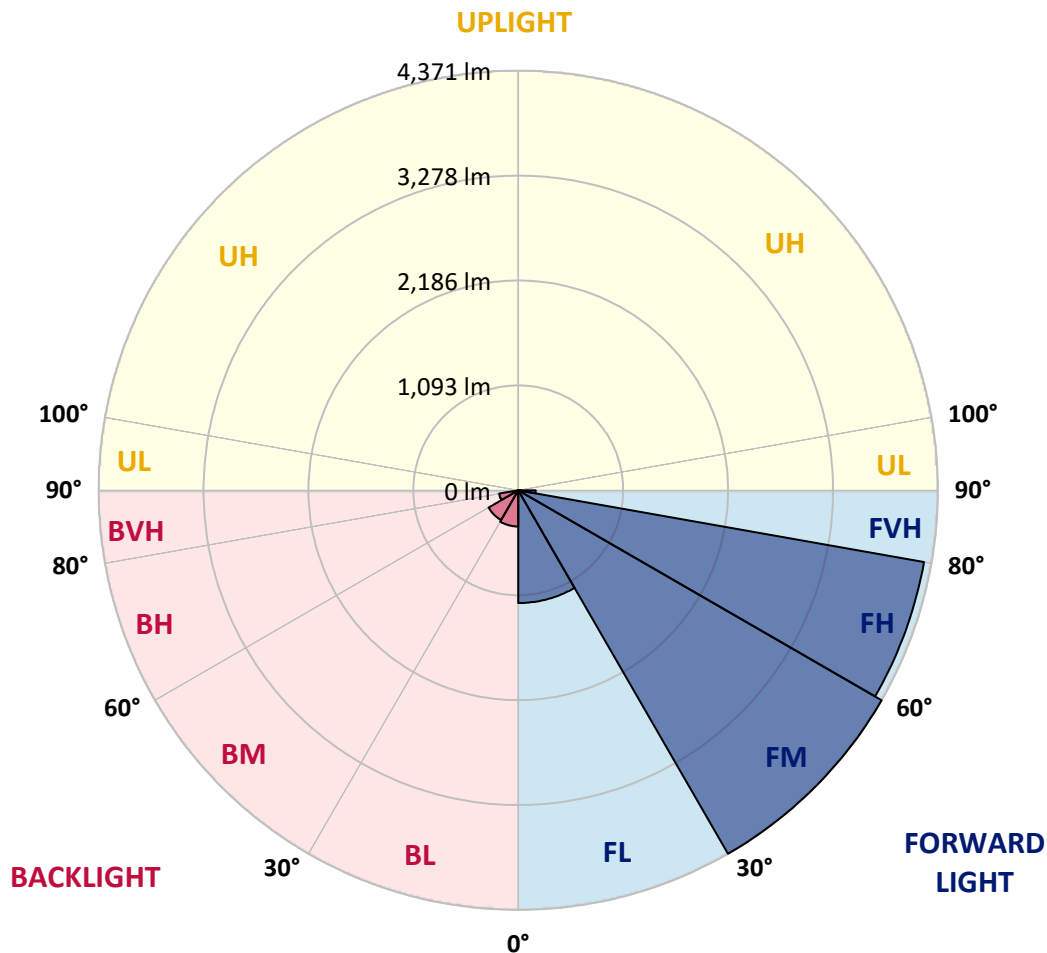


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1173.8 | 10.7 | | | |
| FM (30°-60°) | 4371.3 | 39.9 | | | |
| FH (60°-80°) | 4292.4 | 39.2 | | | G2/5000 |
| FVH (80°-90°) | 182.7 | 1.7 | | | G2/225 |
| BL (0°-30°) | 376.8 | 3.4 | B1/500 | | |
| BM (30°-60°) | 357.7 | 3.3 | B1/1000 | | |
| BH (60°-80°) | 201.7 | 1.8 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|--------|
| 0° | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 |
| 2.5° | 3505.3 | 3496.7 | 3493.5 | 3488.0 | 3467.0 | 3446.5 | 3406.0 | 3394.6 | 3369.1 | 3308.5 | 3244.2 |
| 5° | 3508.1 | 3507.6 | 3517.2 | 3514.9 | 3507.6 | 3498.0 | 3468.9 | 3453.8 | 3410.5 | 3324.0 | 3206.4 |
| 7.5° | 3339.0 | 3347.7 | 3369.1 | 3386.4 | 3406.4 | 3432.4 | 3436.1 | 3421.5 | 3385.9 | 3292.5 | 3136.7 |
| 10° | 3112.1 | 3125.8 | 3155.8 | 3190.0 | 3242.4 | 3294.4 | 3340.8 | 3339.0 | 3326.7 | 3234.7 | 3052.9 |
| 12.5° | 2884.7 | 2900.7 | 2935.3 | 2985.9 | 3060.1 | 3144.9 | 3227.8 | 3239.2 | 3259.7 | 3182.7 | 2975.4 |
| 15° | 2685.6 | 2699.3 | 2733.4 | 2795.4 | 2887.5 | 3001.4 | 3123.0 | 3144.0 | 3196.8 | 3142.2 | 2910.7 |
| 17.5° | 2516.6 | 2525.2 | 2550.3 | 2619.1 | 2725.7 | 2863.8 | 3021.9 | 3062.9 | 3141.7 | 3110.3 | 2854.7 |
| 20° | 2398.5 | 2399.9 | 2416.3 | 2464.6 | 2571.2 | 2725.7 | 2917.1 | 2975.9 | 3083.4 | 3082.9 | 2796.8 |
| 22.5° | 2340.2 | 2335.7 | 2338.9 | 2366.6 | 2445.0 | 2594.0 | 2812.3 | 2882.0 | 3031.0 | 3059.7 | 2738.0 |
| 25° | 2329.3 | 2325.6 | 2316.5 | 2320.2 | 2367.6 | 2478.7 | 2706.6 | 2787.2 | 2985.0 | 3045.6 | 2687.0 |
| 27.5° | 2363.5 | 2367.1 | 2351.6 | 2335.2 | 2338.9 | 2404.0 | 2612.7 | 2706.1 | 2947.6 | 3045.6 | 2651.0 |
| 30° | 2432.3 | 2434.1 | 2422.7 | 2401.3 | 2372.6 | 2383.1 | 2547.5 | 2641.0 | 2928.9 | 3066.5 | 2628.2 |
| 32.5° | 2508.4 | 2518.4 | 2517.0 | 2499.7 | 2458.7 | 2416.3 | 2532.0 | 2617.3 | 2927.6 | 3113.0 | 2625.9 |
| 35° | 2602.7 | 2614.1 | 2633.2 | 2629.6 | 2586.7 | 2517.0 | 2584.9 | 2651.9 | 2954.4 | 3189.6 | 2650.5 |
| 37.5° | 2702.9 | 2720.2 | 2761.2 | 2780.8 | 2753.0 | 2674.2 | 2703.4 | 2751.2 | 3026.4 | 3313.5 | 2712.9 |
| 40° | 2800.0 | 2819.6 | 2894.3 | 2971.3 | 2950.3 | 2869.2 | 2882.9 | 2921.2 | 3154.5 | 3491.6 | 2831.4 |
| 42.5° | 2895.2 | 2924.4 | 3034.2 | 3160.8 | 3185.9 | 3121.2 | 3128.5 | 3159.0 | 3344.5 | 3736.8 | 3025.1 |
| 45° | 3009.1 | 3041.9 | 3204.6 | 3360.9 | 3427.9 | 3399.6 | 3430.6 | 3450.6 | 3592.8 | 4060.8 | 3286.2 |
| 47.5° | 3176.3 | 3214.2 | 3413.7 | 3591.9 | 3709.5 | 3727.7 | 3790.1 | 3803.3 | 3906.7 | 4438.0 | 3626.5 |
| 50° | 3502.6 | 3513.1 | 3693.5 | 3855.3 | 4024.8 | 4134.1 | 4205.2 | 4215.2 | 4286.8 | 4850.4 | 4051.6 |
| 52.5° | 3913.1 | 3920.0 | 4022.0 | 4130.5 | 4323.2 | 4546.5 | 4712.8 | 4726.9 | 4742.0 | 5252.3 | 4471.3 |
| 55° | 4320.9 | 4320.0 | 4387.5 | 4451.2 | 4671.8 | 4996.2 | 5357.1 | 5365.7 | 5257.8 | 5633.7 | 4792.1 |
| 57.5° | 4575.6 | 4600.2 | 4702.8 | 4784.8 | 5092.8 | 5508.8 | 6009.6 | 6041.5 | 5799.5 | 5916.2 | 5109.2 |
| 60° | 4494.5 | 4506.4 | 4733.8 | 5037.2 | 5617.3 | 6237.4 | 6669.8 | 6678.0 | 6206.9 | 6198.2 | 5510.2 |
| 62.5° | 3829.3 | 3835.7 | 4192.9 | 4818.5 | 5882.9 | 7182.4 | 7466.3 | 7332.8 | 6675.3 | 6589.6 | 5990.0 |
| 65° | 2624.5 | 2666.0 | 2964.5 | 3737.7 | 5394.9 | 7775.2 | 8699.3 | 8478.3 | 7389.3 | 7153.7 | 6423.8 |
| 67.5° | 1545.6 | 1536.9 | 1684.5 | 2254.1 | 3962.3 | 7381.5 | 10259.0 | 10039.3 | 8363.0 | 7531.4 | 6296.6 |
| 70° | 1055.7 | 1049.8 | 1106.3 | 1364.7 | 2236.8 | 5726.2 | 10749.7 | 11193.1 | 9222.8 | 7277.2 | 5419.1 |
| 72.5° | 753.6 | 756.8 | 840.2 | 1060.3 | 1404.3 | 3336.3 | 9244.2 | 10293.6 | 8953.5 | 6344.0 | 4119.1 |
| 75° | 511.7 | 520.4 | 639.7 | 869.8 | 1231.2 | 1697.3 | 6560.0 | 7824.9 | 7290.9 | 4610.7 | 2367.6 |
| 77.5° | 275.2 | 284.8 | 425.6 | 700.8 | 1113.2 | 1179.2 | 4219.8 | 5385.3 | 4579.7 | 2072.8 | 686.2 |
| 80° | 114.8 | 120.3 | 199.1 | 509.4 | 961.9 | 1035.7 | 2482.8 | 3265.6 | 1951.6 | 408.7 | 153.1 |
| 82.5° | 49.7 | 52.4 | 82.9 | 303.9 | 719.0 | 874.4 | 1314.6 | 1571.1 | 591.4 | 89.8 | 77.0 |
| 85° | 9.6 | 10.0 | 34.2 | 160.8 | 458.8 | 493.5 | 852.1 | 835.2 | 265.6 | 38.7 | 56.0 |
| 87.5° | 0.0 | 0.0 | 8.2 | 50.6 | 134.9 | 268.8 | 519.9 | 513.5 | 90.2 | 18.7 | 21.0 |
| 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° | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 | 3236.9 |
| 2.5° | 3211.4 | 3180.0 | 3113.9 | 3032.4 | 2969.9 | 2901.1 | 2846.4 | 2777.2 | 2747.1 | 2748.5 | 2732.1 |
| 5° | 3139.4 | 3074.7 | 2928.5 | 2743.9 | 2601.8 | 2455.0 | 2328.8 | 2203.1 | 2128.8 | 2104.6 | 2081.9 |
| 7.5° | 3036.5 | 2933.9 | 2700.6 | 2416.3 | 2175.7 | 1940.6 | 1736.0 | 1556.0 | 1442.1 | 1386.5 | 1366.0 |
| 10° | 2920.3 | 2776.3 | 2438.6 | 2064.1 | 1720.5 | 1402.5 | 1137.3 | 906.7 | 814.7 | 752.3 | 736.3 |
| 12.5° | 2818.2 | 2623.2 | 2182.6 | 1702.8 | 1295.0 | 911.3 | 658.4 | 514.9 | 452.5 | 427.9 | 423.8 |
| 15° | 2722.1 | 2480.1 | 1936.1 | 1375.6 | 896.7 | 560.9 | 418.7 | 370.0 | 355.4 | 351.3 | 351.3 |
| 17.5° | 2631.4 | 2343.9 | 1695.0 | 1053.5 | 593.3 | 393.2 | 346.8 | 335.8 | 331.3 | 330.8 | 331.3 |
| 20° | 2536.6 | 2207.6 | 1458.1 | 771.9 | 414.2 | 333.1 | 320.3 | 314.4 | 313.0 | 313.0 | 313.0 |
| 22.5° | 2445.9 | 2071.4 | 1227.5 | 551.3 | 332.2 | 303.9 | 297.5 | 293.4 | 292.1 | 291.6 | 290.7 |
| 25° | 2358.9 | 1942.0 | 1002.4 | 389.6 | 291.6 | 278.4 | 272.9 | 267.5 | 263.4 | 261.1 | 259.7 |
| 27.5° | 2287.4 | 1826.7 | 792.8 | 312.6 | 263.4 | 252.0 | 245.1 | 236.9 | 226.9 | 222.4 | 220.5 |
| 30° | 2230.4 | 1721.4 | 611.0 | 263.8 | 236.9 | 225.5 | 215.1 | 200.9 | 186.4 | 178.6 | 178.2 |
| 32.5° | 2185.8 | 1618.0 | 463.9 | 233.3 | 213.2 | 199.1 | 184.1 | 166.3 | 149.5 | 140.8 | 140.3 |
| 35° | 2163.9 | 1526.9 | 354.5 | 211.0 | 192.3 | 174.5 | 155.8 | 136.2 | 119.8 | 111.6 | 110.7 |
| 37.5° | 2178.5 | 1449.9 | 276.6 | 192.3 | 174.5 | 154.0 | 132.1 | 111.6 | 97.1 | 89.8 | 89.3 |
| 40° | 2231.8 | 1400.7 | 224.6 | 176.3 | 159.5 | 134.4 | 110.7 | 91.6 | 79.3 | 73.4 | 72.9 |
| 42.5° | 2345.2 | 1382.4 | 191.8 | 163.1 | 144.9 | 116.2 | 92.0 | 75.6 | 64.2 | 60.1 | 59.2 |
| 45° | 2534.8 | 1409.3 | 169.5 | 150.4 | 129.9 | 98.9 | 76.1 | 62.0 | 51.9 | 48.8 | 48.3 |
| 47.5° | 2787.2 | 1480.0 | 153.6 | 138.1 | 116.2 | 83.4 | 63.3 | 50.1 | 42.4 | 39.2 | 38.7 |
| 50° | 3112.5 | 1592.0 | 140.3 | 125.8 | 103.4 | 70.6 | 52.4 | 39.6 | 32.8 | 30.5 | 30.5 |
| 52.5° | 3466.6 | 1725.5 | 128.5 | 114.4 | 90.7 | 58.8 | 42.4 | 30.5 | 26.0 | 23.2 | 23.2 |
| 55° | 3759.1 | 1842.2 | 115.7 | 105.7 | 75.2 | 48.8 | 32.4 | 23.2 | 19.1 | 17.8 | 17.8 |
| 57.5° | 4051.2 | 1966.6 | 101.2 | 90.7 | 60.1 | 39.6 | 24.6 | 17.3 | 14.1 | 13.2 | 13.2 |
| 60° | 4429.8 | 2118.8 | 87.0 | 73.8 | 47.4 | 30.1 | 18.2 | 12.3 | 10.5 | 10.0 | 10.0 |
| 62.5° | 4846.3 | 2208.1 | 74.3 | 59.2 | 36.9 | 22.3 | 13.2 | 8.2 | 7.7 | 7.7 | 7.3 |
| 65° | 5101.0 | 2081.9 | 62.4 | 47.4 | 28.7 | 16.9 | 8.7 | 5.9 | 6.8 | 6.4 | 5.5 |
| 67.5° | 4776.1 | 1629.9 | 51.0 | 36.9 | 22.3 | 12.8 | 5.5 | 4.1 | 7.3 | 5.9 | 4.6 |
| 70° | 3954.6 | 1140.9 | 39.6 | 26.0 | 17.8 | 10.9 | 3.6 | 2.7 | 7.7 | 5.9 | 3.6 |
| 72.5° | 2959.5 | 763.7 | 31.4 | 17.3 | 13.2 | 9.6 | 3.2 | 1.4 | 6.8 | 5.0 | 3.2 |
| 75° | 1617.1 | 307.6 | 25.1 | 10.9 | 8.2 | 6.8 | 2.3 | 0.9 | 4.6 | 3.6 | 2.3 |
| 77.5° | 425.6 | 81.1 | 18.2 | 7.3 | 4.6 | 2.7 | 1.4 | 0.5 | 2.3 | 1.8 | 0.9 |
| 80° | 108.4 | 31.4 | 11.8 | 5.0 | 3.2 | 1.4 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| 82.5° | 57.9 | 13.2 | 7.3 | 3.6 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 43.7 | 8.7 | 4.1 | 2.3 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 16.9 | 2.7 | 1.4 | 0.0 | 0.0 | 0.0 | 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)