

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: P194152

Luminaire Tested: **GAN-AF-04-LED-U-5MQ-7060-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-5MQ-7060-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25224 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 225
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: 28.75 FT

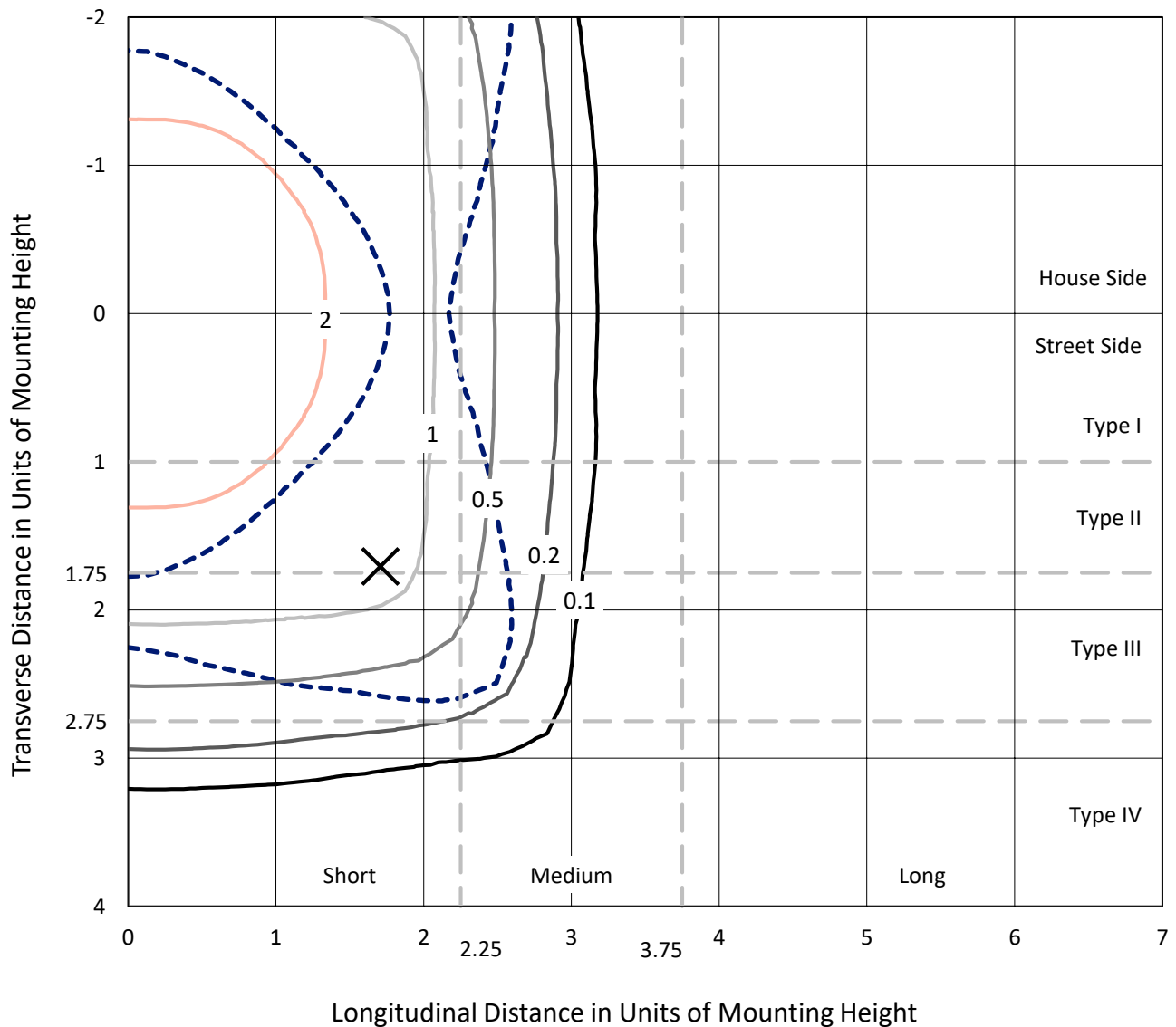


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Iso-Footcandle Lines of Horizontal Illumination

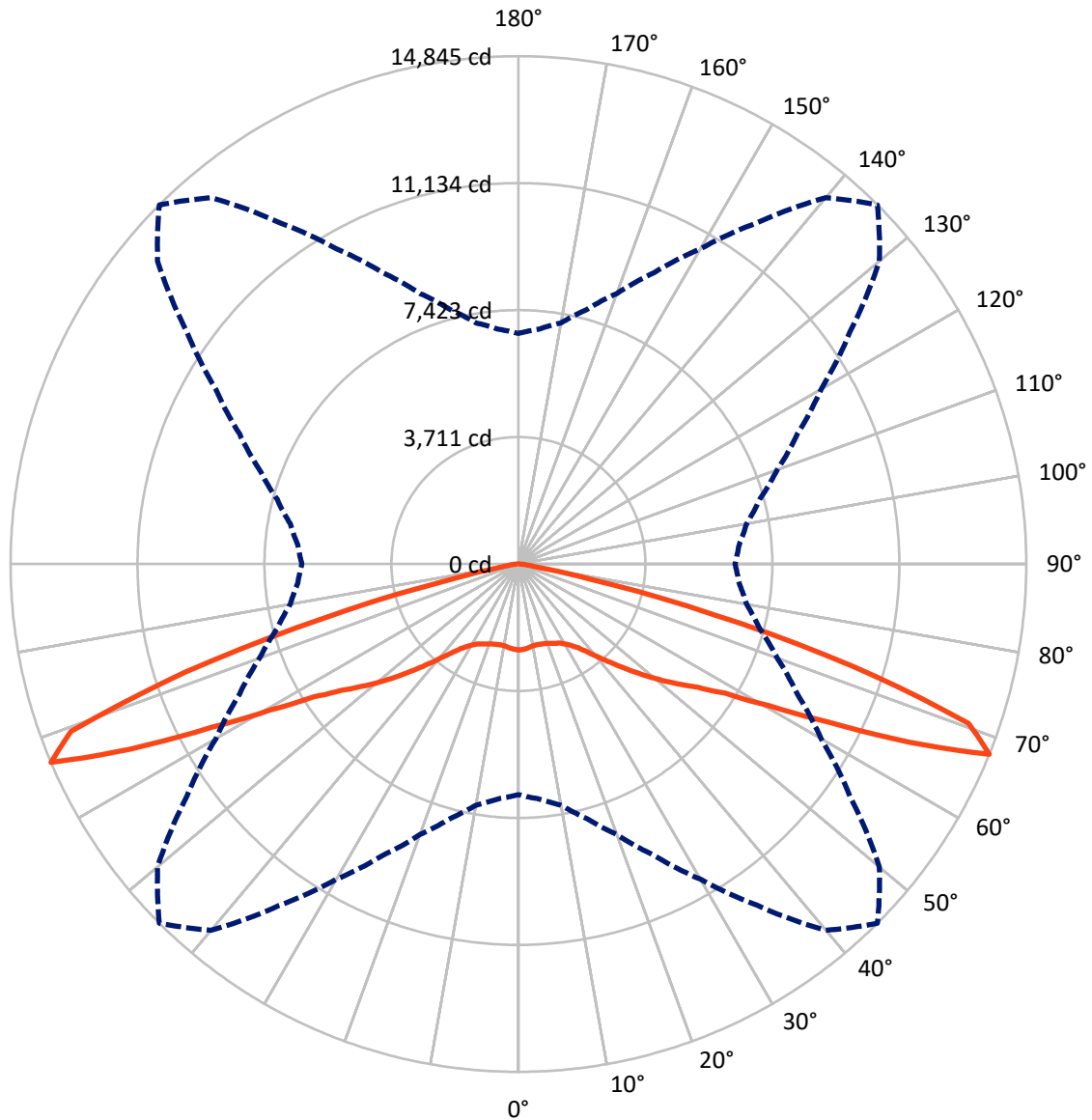
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 12612.0 | 0.0 | 12612.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 12612.0 | 0.0 | 12612.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 25224.0 | 0.0 | 25224.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 235.3 | 0.9 |
| 10°-20° | 682.7 | 2.7 |
| 20°-30° | 1160.6 | 4.6 |
| 30°-40° | 1897.2 | 7.5 |
| 40°-50° | 3386.9 | 13.4 |
| 50°-60° | 5710.3 | 22.6 |
| 60°-70° | 8861.6 | 35.1 |
| 70°-80° | 3113.6 | 12.3 |
| 80°-90° | 176.0 | 0.7 |
| 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° | 25224.0 | 100.0 |
| 0°-180° | 25224.0 | 100.0 |

Coefficient of Utilization



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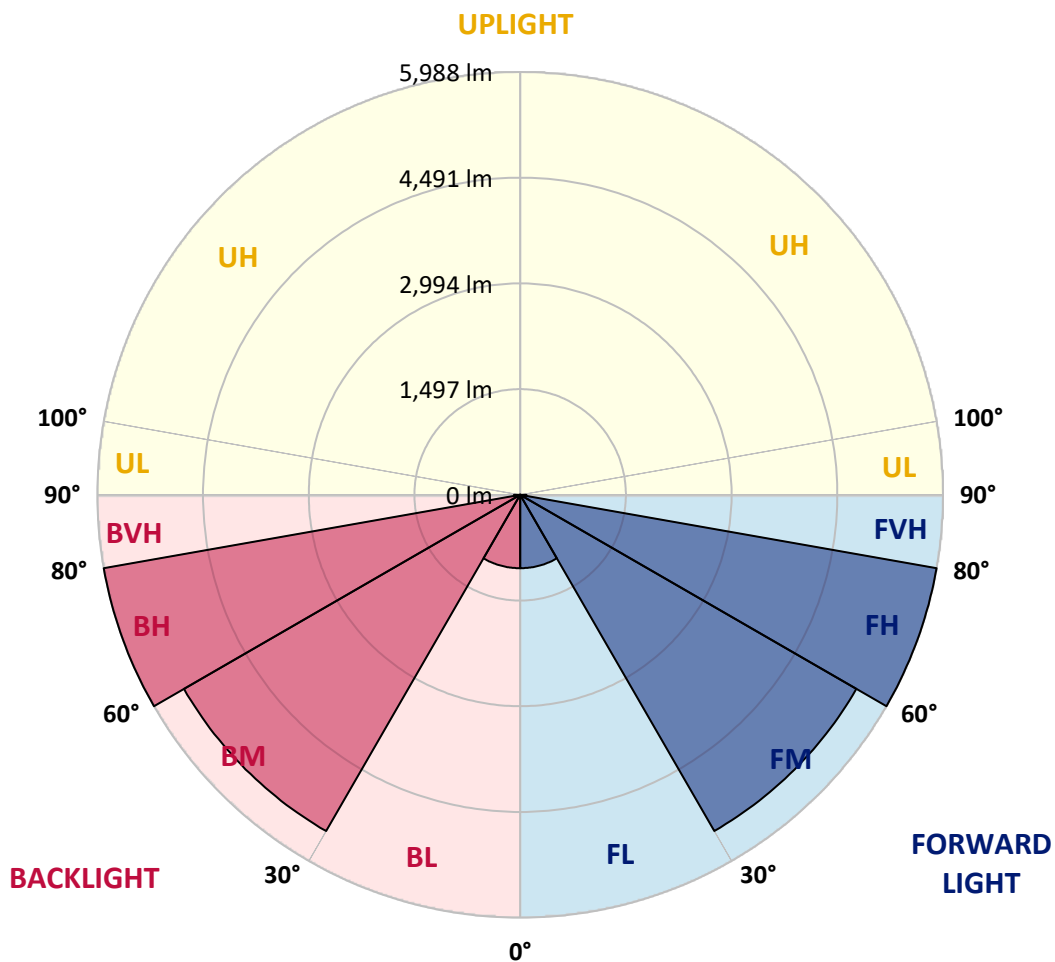
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1039.3 | 4.1 | | | |
| FM | (30°-60°) | 5497.2 | 21.8 | | | |
| FH | (60°-80°) | 5987.6 | 23.7 | | | G3/7500 |
| FVH | (80°-90°) | 88.0 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1039.3 | 4.1 | B3/2500 | | |
| BM | (30°-60°) | 5497.2 | 21.8 | B4/8500 | | |
| BH | (60°-80°) | 5987.6 | 23.7 | B5 | | G3/7500 |
| BVH | (80°-90°) | 88.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 |
| 2.5° | 2504.4 | 2506.7 | 2506.7 | 2506.7 | 2505.6 | 2505.6 | 2503.2 | 2505.6 | 2504.4 | 2500.9 | 2502.1 |
| 5° | 2483.5 | 2485.8 | 2485.8 | 2484.7 | 2488.2 | 2487.0 | 2483.5 | 2485.8 | 2484.7 | 2482.4 | 2483.5 |
| 7.5° | 2453.4 | 2456.8 | 2456.8 | 2455.7 | 2459.2 | 2458.0 | 2455.7 | 2456.8 | 2456.8 | 2453.4 | 2453.4 |
| 10° | 2419.7 | 2422.0 | 2422.0 | 2420.9 | 2426.7 | 2426.7 | 2425.5 | 2429.0 | 2430.2 | 2426.7 | 2424.4 |
| 12.5° | 2388.4 | 2391.9 | 2391.9 | 2396.5 | 2402.3 | 2404.6 | 2410.4 | 2415.1 | 2419.7 | 2418.6 | 2413.9 |
| 15° | 2369.8 | 2372.2 | 2376.8 | 2382.6 | 2391.9 | 2400.0 | 2409.3 | 2419.7 | 2429.0 | 2431.3 | 2424.4 |
| 17.5° | 2358.2 | 2361.7 | 2368.7 | 2376.8 | 2389.6 | 2403.5 | 2417.4 | 2431.3 | 2444.1 | 2448.7 | 2440.6 |
| 20° | 2354.8 | 2357.1 | 2364.0 | 2378.0 | 2395.4 | 2416.2 | 2436.0 | 2452.2 | 2469.6 | 2475.4 | 2469.6 |
| 22.5° | 2361.7 | 2366.4 | 2374.5 | 2390.7 | 2413.9 | 2440.6 | 2463.8 | 2485.8 | 2507.9 | 2518.3 | 2510.2 |
| 25° | 2393.0 | 2397.7 | 2408.1 | 2429.0 | 2454.5 | 2482.4 | 2509.0 | 2534.6 | 2554.3 | 2564.7 | 2558.9 |
| 27.5° | 2451.0 | 2456.8 | 2469.6 | 2490.5 | 2518.3 | 2548.5 | 2577.5 | 2598.4 | 2614.6 | 2618.1 | 2611.1 |
| 30° | 2538.0 | 2550.8 | 2565.9 | 2589.1 | 2621.6 | 2647.1 | 2676.1 | 2694.6 | 2714.4 | 2714.4 | 2708.6 |
| 32.5° | 2673.8 | 2686.5 | 2702.8 | 2724.8 | 2750.3 | 2778.2 | 2803.7 | 2819.9 | 2840.8 | 2842.0 | 2828.0 |
| 35° | 2876.8 | 2882.6 | 2896.5 | 2910.4 | 2933.6 | 2958.0 | 2980.0 | 2990.4 | 3007.8 | 3009.0 | 2996.2 |
| 37.5° | 3144.7 | 3145.9 | 3155.1 | 3159.8 | 3180.7 | 3207.3 | 3228.2 | 3235.2 | 3251.4 | 3249.1 | 3236.3 |
| 40° | 3456.7 | 3462.5 | 3466.0 | 3473.0 | 3495.0 | 3520.5 | 3542.6 | 3546.1 | 3563.5 | 3560.0 | 3543.7 |
| 42.5° | 3817.5 | 3819.8 | 3839.5 | 3850.0 | 3870.9 | 3883.6 | 3911.5 | 3914.9 | 3935.8 | 3926.5 | 3908.0 |
| 45° | 4222.3 | 4243.2 | 4261.8 | 4282.6 | 4304.7 | 4319.8 | 4341.8 | 4337.2 | 4351.1 | 4337.2 | 4326.7 |
| 47.5° | 4648.0 | 4663.1 | 4704.9 | 4737.4 | 4773.3 | 4786.1 | 4817.4 | 4803.5 | 4817.4 | 4797.7 | 4794.2 |
| 50° | 5116.7 | 5143.4 | 5179.3 | 5216.4 | 5254.7 | 5275.6 | 5316.2 | 5298.8 | 5317.4 | 5298.8 | 5288.4 |
| 52.5° | 5578.3 | 5585.3 | 5664.2 | 5718.7 | 5772.1 | 5796.4 | 5820.8 | 5812.7 | 5813.8 | 5812.7 | 5802.2 |
| 55° | 6016.8 | 6033.1 | 6111.9 | 6186.2 | 6279.0 | 6347.4 | 6389.2 | 6384.5 | 6374.1 | 6363.7 | 6346.3 |
| 57.5° | 6511.0 | 6527.2 | 6617.7 | 6709.3 | 6814.9 | 6912.3 | 6997.0 | 7084.0 | 7117.6 | 7126.9 | 7088.6 |
| 60° | 7179.1 | 7178.0 | 7298.6 | 7410.0 | 7560.8 | 7705.8 | 7891.3 | 8080.4 | 8297.3 | 8398.3 | 8264.9 |
| 62.5° | 7858.9 | 7886.7 | 8060.7 | 8257.9 | 8568.8 | 8871.5 | 9213.7 | 9550.1 | 9893.5 | 10173.0 | 9876.1 |
| 65° | 7777.7 | 7884.4 | 8143.1 | 8589.7 | 9163.8 | 9845.9 | 10583.7 | 11364.3 | 12069.6 | 12554.5 | 12010.4 |
| 67.5° | 6740.6 | 6892.6 | 7155.9 | 7698.8 | 8416.8 | 9400.5 | 10639.3 | 12183.3 | 13977.8 | 14845.4 | 13770.1 |
| 70° | 4885.8 | 5057.5 | 5333.6 | 5863.7 | 6574.8 | 7509.7 | 8855.3 | 10708.9 | 13084.6 | 13959.2 | 12774.9 |
| 72.5° | 2431.3 | 2524.1 | 2694.6 | 3032.2 | 3570.4 | 4329.0 | 5549.3 | 7331.1 | 9433.0 | 10235.7 | 9153.4 |
| 75° | 825.9 | 868.8 | 897.8 | 1008.0 | 1178.5 | 1476.7 | 2083.3 | 3205.0 | 4889.3 | 5861.4 | 4819.7 |
| 77.5° | 476.8 | 477.9 | 497.6 | 517.4 | 546.4 | 578.8 | 660.0 | 866.5 | 1498.7 | 2128.6 | 1550.9 |
| 80° | 308.6 | 307.4 | 323.6 | 338.7 | 358.4 | 374.7 | 379.3 | 401.4 | 462.8 | 548.7 | 490.7 |
| 82.5° | 160.1 | 179.8 | 215.8 | 235.5 | 272.6 | 279.6 | 270.3 | 262.2 | 277.2 | 287.7 | 294.6 |
| 85° | 88.2 | 76.6 | 114.8 | 148.5 | 164.7 | 167.0 | 167.0 | 157.8 | 163.6 | 160.1 | 174.0 |
| 87.5° | 40.6 | 37.1 | 45.2 | 73.1 | 77.7 | 66.1 | 69.6 | 61.5 | 44.1 | 42.9 | 48.7 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|
| 0° | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 | 2513.7 |
| 2.5° | 2502.1 | 2503.2 | 2503.2 | 2506.7 | 2507.9 | 2510.2 | 2512.5 | 2513.7 |
| 5° | 2482.4 | 2485.8 | 2483.5 | 2487.0 | 2487.0 | 2489.3 | 2489.3 | 2490.5 |
| 7.5° | 2453.4 | 2456.8 | 2456.8 | 2456.8 | 2455.7 | 2459.2 | 2459.2 | 2459.2 |
| 10° | 2423.2 | 2425.5 | 2424.4 | 2422.0 | 2419.7 | 2423.2 | 2422.0 | 2420.9 |
| 12.5° | 2413.9 | 2408.1 | 2403.5 | 2401.2 | 2396.5 | 2397.7 | 2394.2 | 2394.2 |
| 15° | 2419.7 | 2409.3 | 2401.2 | 2397.7 | 2393.0 | 2390.7 | 2388.4 | 2389.6 |
| 17.5° | 2434.8 | 2422.0 | 2411.6 | 2405.8 | 2400.0 | 2396.5 | 2391.9 | 2393.0 |
| 20° | 2461.5 | 2446.4 | 2431.3 | 2419.7 | 2409.3 | 2403.5 | 2400.0 | 2398.8 |
| 22.5° | 2500.9 | 2478.9 | 2456.8 | 2439.4 | 2425.5 | 2417.4 | 2413.9 | 2411.6 |
| 25° | 2546.2 | 2521.8 | 2496.3 | 2476.6 | 2462.6 | 2452.2 | 2445.2 | 2445.2 |
| 27.5° | 2603.0 | 2583.3 | 2560.1 | 2536.9 | 2524.1 | 2513.7 | 2509.0 | 2506.7 |
| 30° | 2698.1 | 2679.6 | 2661.0 | 2639.0 | 2622.7 | 2612.3 | 2604.2 | 2597.2 |
| 32.5° | 2819.9 | 2804.8 | 2789.8 | 2773.5 | 2758.4 | 2744.5 | 2731.8 | 2726.0 |
| 35° | 2991.6 | 2980.0 | 2969.6 | 2951.0 | 2945.2 | 2937.1 | 2930.1 | 2924.3 |
| 37.5° | 3228.2 | 3223.6 | 3223.6 | 3203.9 | 3199.2 | 3195.7 | 3188.8 | 3189.9 |
| 40° | 3539.1 | 3543.7 | 3537.9 | 3531.0 | 3527.5 | 3518.2 | 3518.2 | 3526.3 |
| 42.5° | 3906.8 | 3910.3 | 3923.1 | 3911.5 | 3924.2 | 3912.6 | 3905.7 | 3911.5 |
| 45° | 4333.7 | 4346.4 | 4372.0 | 4360.4 | 4368.5 | 4348.8 | 4324.4 | 4325.6 |
| 47.5° | 4812.8 | 4824.4 | 4834.8 | 4826.7 | 4827.8 | 4795.4 | 4762.9 | 4754.8 |
| 50° | 5310.4 | 5315.0 | 5320.8 | 5309.2 | 5311.6 | 5275.6 | 5238.5 | 5239.6 |
| 52.5° | 5802.2 | 5824.3 | 5847.5 | 5816.1 | 5809.2 | 5768.6 | 5716.4 | 5695.5 |
| 55° | 6364.8 | 6396.1 | 6369.5 | 6314.9 | 6260.4 | 6205.9 | 6137.5 | 6125.9 |
| 57.5° | 7058.5 | 7005.1 | 6921.6 | 6818.4 | 6743.0 | 6666.4 | 6596.8 | 6567.8 |
| 60° | 8023.6 | 7822.9 | 7672.1 | 7519.0 | 7422.7 | 7328.8 | 7237.1 | 7223.2 |
| 62.5° | 9387.7 | 9040.9 | 8740.5 | 8423.8 | 8165.1 | 7963.3 | 7802.0 | 7756.8 |
| 65° | 11097.5 | 10277.4 | 9566.4 | 8902.9 | 8326.3 | 7891.3 | 7617.6 | 7497.0 |
| 67.5° | 11833.0 | 10213.6 | 8994.5 | 8052.6 | 7298.6 | 6772.0 | 6476.2 | 6328.9 |
| 70° | 10398.1 | 8470.2 | 7144.3 | 6201.3 | 5514.5 | 4953.1 | 4685.2 | 4527.4 |
| 72.5° | 7153.6 | 5388.1 | 4260.6 | 3477.6 | 2929.0 | 2459.2 | 2273.6 | 2259.6 |
| 75° | 3212.0 | 2127.4 | 1466.2 | 1129.8 | 951.2 | 827.1 | 788.8 | 759.8 |
| 77.5° | 899.0 | 664.7 | 592.8 | 554.5 | 517.4 | 474.4 | 458.2 | 461.7 |
| 80° | 437.3 | 413.0 | 396.7 | 372.4 | 338.7 | 302.8 | 286.5 | 293.5 |
| 82.5° | 290.0 | 286.5 | 297.0 | 279.6 | 230.8 | 196.0 | 164.7 | 150.8 |
| 85° | 176.3 | 178.6 | 182.1 | 183.3 | 155.4 | 109.0 | 74.2 | 83.5 |
| 87.5° | 69.6 | 80.0 | 87.0 | 90.5 | 84.7 | 52.2 | 41.8 | 42.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)