

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: P192544

Luminaire Tested: **GAN-AF-06-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192544
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-06-LED-U-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29224.7 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 249
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

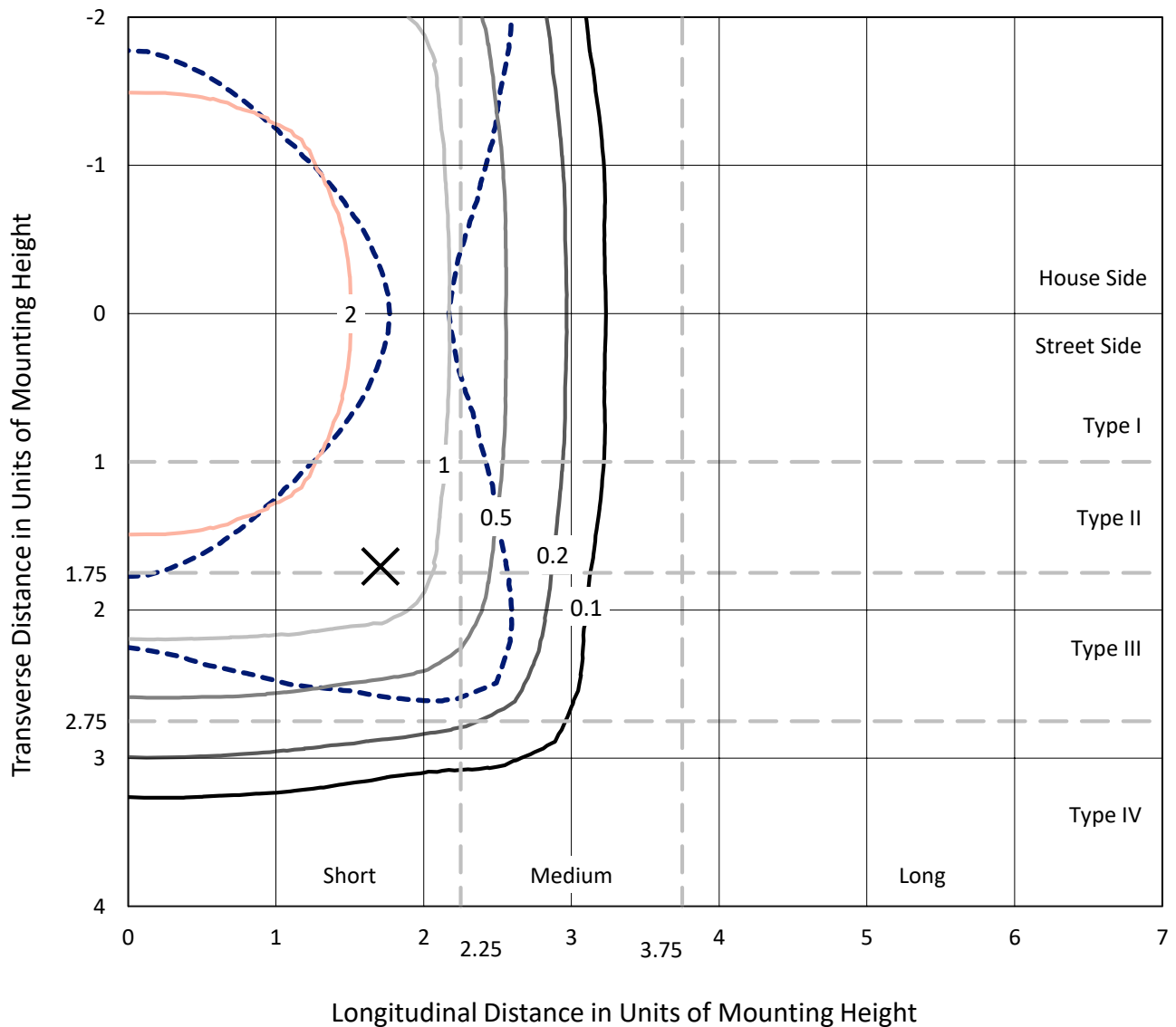


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

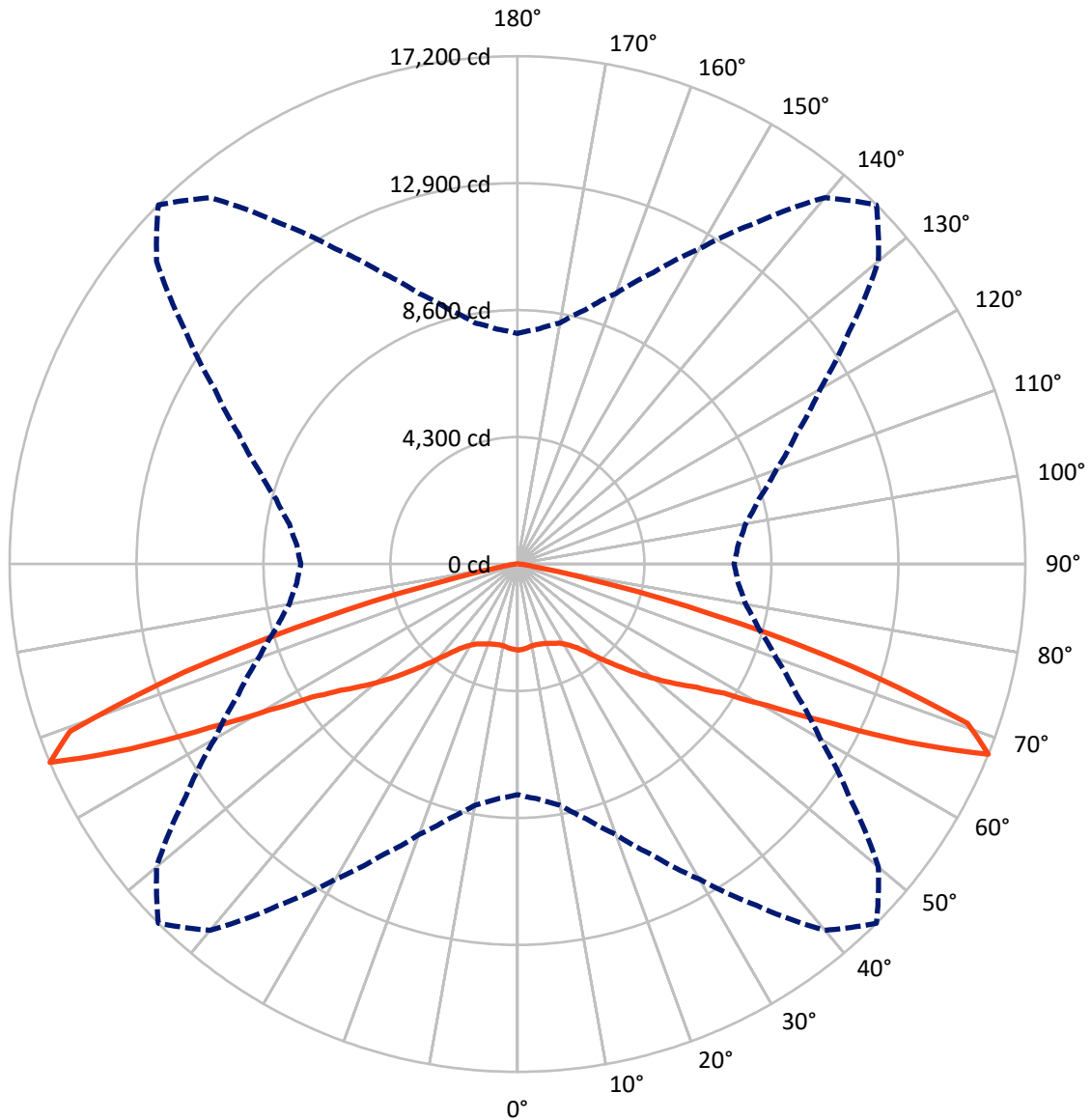


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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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 | 14612.3 | 0.0 | 14612.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14612.3 | 0.0 | 14612.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29224.7 | 0.0 | 29224.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 272.6 | 0.9 |
| 10°-20° | 791.0 | 2.7 |
| 20°-30° | 1344.7 | 4.6 |
| 30°-40° | 2198.1 | 7.5 |
| 40°-50° | 3924.0 | 13.4 |
| 50°-60° | 6616.0 | 22.6 |
| 60°-70° | 10267.0 | 35.1 |
| 70°-80° | 3607.4 | 12.3 |
| 80°-90° | 203.9 | 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° | 29224.7 | 100.0 |
| 0°-180° | 29224.7 | 100.0 |

Coefficient of Utilization



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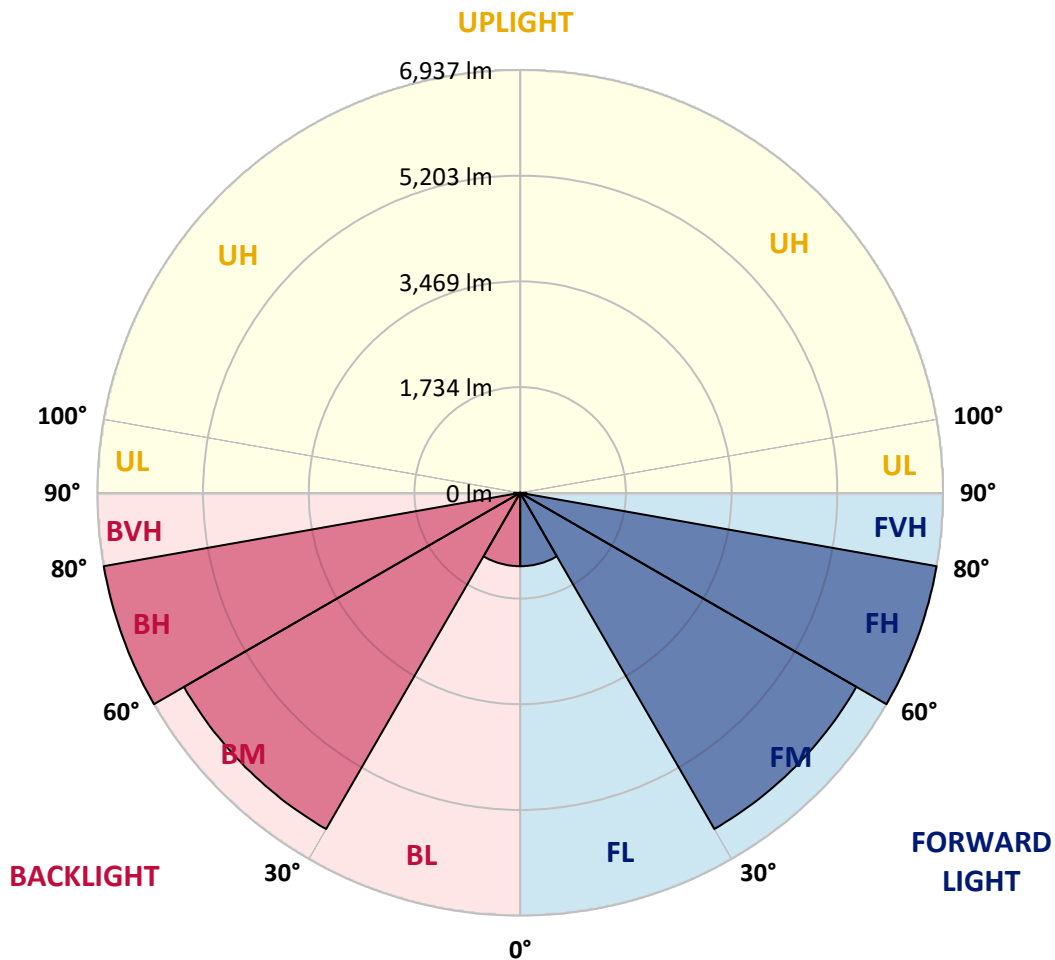
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1204.1 | 4.1 | | | |
| FM | (30°-60°) | 6369.1 | 21.8 | | | |
| FH | (60°-80°) | 6937.2 | 23.7 | | | G3/7500 |
| FVH | (80°-90°) | 101.9 | 0.3 | | | G2/225 |
| BL | (0°-30°) | 1204.1 | 4.1 | B3/2500 | | |
| BM | (30°-60°) | 6369.1 | 21.8 | B4/8500 | | |
| BH | (60°-80°) | 6937.2 | 23.7 | B5 | | G3/7500 |
| BVH | (80°-90°) | 101.9 | 0.3 | | | G2/225 |
| 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° | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 |
| 2.5° | 2901.6 | 2904.3 | 2904.3 | 2904.3 | 2902.9 | 2902.9 | 2900.3 | 2902.9 | 2901.6 | 2897.5 | 2898.9 |
| 5° | 2877.5 | 2880.1 | 2880.1 | 2878.8 | 2882.8 | 2881.5 | 2877.5 | 2880.1 | 2878.8 | 2876.0 | 2877.5 |
| 7.5° | 2842.5 | 2846.5 | 2846.5 | 2845.1 | 2849.2 | 2847.9 | 2845.1 | 2846.5 | 2846.5 | 2842.5 | 2842.5 |
| 10° | 2803.5 | 2806.3 | 2806.3 | 2804.8 | 2811.6 | 2811.6 | 2810.2 | 2814.3 | 2815.6 | 2811.6 | 2808.8 |
| 12.5° | 2767.2 | 2771.3 | 2771.3 | 2776.6 | 2783.4 | 2786.0 | 2792.7 | 2798.1 | 2803.5 | 2802.2 | 2796.8 |
| 15° | 2745.6 | 2748.4 | 2753.8 | 2760.6 | 2771.3 | 2780.6 | 2791.3 | 2803.5 | 2814.3 | 2816.9 | 2808.8 |
| 17.5° | 2732.2 | 2736.3 | 2744.4 | 2753.8 | 2768.5 | 2784.7 | 2800.9 | 2816.9 | 2831.7 | 2837.1 | 2827.7 |
| 20° | 2728.2 | 2730.9 | 2739.0 | 2755.1 | 2775.3 | 2799.4 | 2822.2 | 2841.2 | 2861.3 | 2868.0 | 2861.3 |
| 22.5° | 2736.3 | 2741.7 | 2751.0 | 2769.9 | 2796.8 | 2827.7 | 2854.6 | 2880.1 | 2905.6 | 2917.8 | 2908.4 |
| 25° | 2772.6 | 2777.9 | 2790.1 | 2814.3 | 2843.8 | 2876.0 | 2907.0 | 2936.6 | 2959.4 | 2971.6 | 2964.8 |
| 27.5° | 2839.7 | 2846.5 | 2861.3 | 2885.4 | 2917.8 | 2952.7 | 2986.3 | 3010.4 | 3029.3 | 3033.4 | 3025.3 |
| 30° | 2940.6 | 2955.4 | 2972.8 | 2999.7 | 3037.3 | 3066.9 | 3100.6 | 3122.0 | 3144.9 | 3144.9 | 3138.2 |
| 32.5° | 3097.8 | 3112.6 | 3131.5 | 3156.9 | 3186.5 | 3218.8 | 3248.4 | 3267.2 | 3291.3 | 3292.7 | 3276.5 |
| 35° | 3333.1 | 3339.7 | 3355.9 | 3372.0 | 3398.8 | 3427.1 | 3452.6 | 3464.7 | 3485.0 | 3486.3 | 3471.5 |
| 37.5° | 3643.5 | 3644.8 | 3655.6 | 3661.0 | 3685.1 | 3716.0 | 3740.3 | 3748.3 | 3767.2 | 3764.4 | 3749.7 |
| 40° | 4005.0 | 4011.7 | 4015.8 | 4023.8 | 4049.3 | 4078.8 | 4104.5 | 4108.4 | 4128.7 | 4124.6 | 4105.8 |
| 42.5° | 4423.0 | 4425.6 | 4448.5 | 4460.6 | 4484.8 | 4499.7 | 4531.8 | 4535.9 | 4560.1 | 4549.3 | 4527.8 |
| 45° | 4892.0 | 4916.2 | 4937.8 | 4961.9 | 4987.4 | 5004.9 | 5030.4 | 5025.1 | 5041.2 | 5025.1 | 5013.0 |
| 47.5° | 5385.3 | 5402.8 | 5451.1 | 5488.7 | 5530.3 | 5545.1 | 5581.5 | 5565.3 | 5581.5 | 5558.6 | 5554.6 |
| 50° | 5928.2 | 5959.1 | 6000.7 | 6043.7 | 6088.2 | 6112.3 | 6159.4 | 6139.2 | 6160.7 | 6139.2 | 6127.2 |
| 52.5° | 6463.1 | 6471.2 | 6562.5 | 6625.7 | 6687.5 | 6715.7 | 6744.0 | 6734.6 | 6736.0 | 6734.6 | 6722.5 |
| 55° | 6971.1 | 6990.0 | 7081.3 | 7167.3 | 7274.8 | 7354.1 | 7402.6 | 7397.2 | 7385.1 | 7373.0 | 7352.8 |
| 57.5° | 7543.7 | 7562.5 | 7667.3 | 7773.5 | 7895.7 | 8008.7 | 8106.8 | 8207.5 | 8246.6 | 8257.3 | 8212.9 |
| 60° | 8317.8 | 8316.4 | 8456.2 | 8585.3 | 8760.0 | 8927.9 | 9143.0 | 9362.0 | 9613.4 | 9730.3 | 9575.7 |
| 62.5° | 9105.3 | 9137.6 | 9339.2 | 9567.7 | 9927.9 | 10278.6 | 10675.0 | 11064.8 | 11462.6 | 11786.6 | 11442.5 |
| 65° | 9011.2 | 9134.9 | 9434.6 | 9952.0 | 10617.3 | 11407.5 | 12262.2 | 13166.8 | 13983.9 | 14545.6 | 13915.4 |
| 67.5° | 7809.8 | 7985.8 | 8290.9 | 8919.8 | 9751.8 | 10891.4 | 12326.8 | 14115.6 | 16194.7 | 17200.0 | 15954.1 |
| 70° | 5660.7 | 5859.7 | 6179.4 | 6793.7 | 7617.5 | 8700.8 | 10259.8 | 12407.5 | 15159.8 | 16173.2 | 14801.1 |
| 72.5° | 2816.9 | 2924.5 | 3122.0 | 3513.1 | 4136.7 | 5015.6 | 6429.5 | 8493.9 | 10929.1 | 11859.1 | 10605.1 |
| 75° | 956.9 | 1006.6 | 1040.2 | 1167.9 | 1365.4 | 1710.9 | 2413.7 | 3713.4 | 5664.8 | 6791.0 | 5584.1 |
| 77.5° | 552.5 | 553.7 | 576.6 | 599.4 | 633.0 | 670.7 | 764.7 | 1004.0 | 1736.3 | 2466.2 | 1796.9 |
| 80° | 357.5 | 356.1 | 375.0 | 392.5 | 415.3 | 434.1 | 439.4 | 465.0 | 536.3 | 635.7 | 568.4 |
| 82.5° | 185.4 | 208.3 | 249.9 | 272.8 | 315.9 | 323.9 | 313.1 | 303.7 | 321.2 | 333.3 | 341.3 |
| 85° | 102.1 | 88.7 | 133.1 | 172.0 | 190.8 | 193.5 | 193.5 | 182.8 | 189.4 | 185.4 | 201.6 |
| 87.5° | 47.1 | 43.0 | 52.5 | 84.6 | 90.0 | 76.6 | 80.7 | 71.2 | 51.1 | 49.7 | 56.5 |
| 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° | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 | 2912.5 |
| 2.5° | 2898.9 | 2900.3 | 2900.3 | 2904.3 | 2905.6 | 2908.4 | 2911.0 | 2912.5 |
| 5° | 2876.0 | 2880.1 | 2877.5 | 2881.5 | 2881.5 | 2884.1 | 2884.1 | 2885.4 |
| 7.5° | 2842.5 | 2846.5 | 2846.5 | 2846.5 | 2845.1 | 2849.2 | 2849.2 | 2849.2 |
| 10° | 2807.5 | 2810.2 | 2808.8 | 2806.3 | 2803.5 | 2807.5 | 2806.3 | 2804.8 |
| 12.5° | 2796.8 | 2790.1 | 2784.7 | 2782.0 | 2776.6 | 2777.9 | 2774.0 | 2774.0 |
| 15° | 2803.5 | 2791.3 | 2782.0 | 2777.9 | 2772.6 | 2769.9 | 2767.2 | 2768.5 |
| 17.5° | 2821.0 | 2806.3 | 2794.1 | 2787.4 | 2780.6 | 2776.6 | 2771.3 | 2772.6 |
| 20° | 2851.8 | 2834.4 | 2816.9 | 2803.5 | 2791.3 | 2784.7 | 2780.6 | 2779.3 |
| 22.5° | 2897.5 | 2872.0 | 2846.5 | 2826.3 | 2810.2 | 2800.9 | 2796.8 | 2794.1 |
| 25° | 2950.0 | 2921.8 | 2892.2 | 2869.3 | 2853.2 | 2841.2 | 2833.1 | 2833.1 |
| 27.5° | 3015.9 | 2993.0 | 2966.2 | 2939.3 | 2924.5 | 2912.5 | 2907.0 | 2904.3 |
| 30° | 3126.0 | 3104.6 | 3083.1 | 3057.5 | 3038.7 | 3026.6 | 3017.2 | 3009.1 |
| 32.5° | 3267.2 | 3249.7 | 3232.2 | 3213.5 | 3196.0 | 3179.8 | 3165.0 | 3158.3 |
| 35° | 3466.0 | 3452.6 | 3440.6 | 3419.0 | 3412.2 | 3402.9 | 3394.8 | 3388.1 |
| 37.5° | 3740.3 | 3734.9 | 3734.9 | 3712.0 | 3706.6 | 3702.6 | 3694.5 | 3695.9 |
| 40° | 4100.4 | 4105.8 | 4099.1 | 4091.0 | 4087.0 | 4076.3 | 4076.3 | 4085.6 |
| 42.5° | 4526.5 | 4530.4 | 4545.3 | 4531.8 | 4546.6 | 4533.1 | 4525.1 | 4531.8 |
| 45° | 5021.0 | 5035.9 | 5065.4 | 5051.9 | 5061.3 | 5038.5 | 5010.3 | 5011.6 |
| 47.5° | 5576.0 | 5589.4 | 5601.6 | 5592.2 | 5593.5 | 5556.0 | 5518.2 | 5508.9 |
| 50° | 6152.6 | 6158.1 | 6164.7 | 6151.3 | 6154.0 | 6112.3 | 6069.4 | 6070.7 |
| 52.5° | 6722.5 | 6748.1 | 6774.9 | 6738.6 | 6730.6 | 6683.5 | 6623.1 | 6598.8 |
| 55° | 7374.4 | 7410.6 | 7379.7 | 7316.5 | 7253.4 | 7190.2 | 7110.9 | 7097.5 |
| 57.5° | 8177.9 | 8116.3 | 8019.4 | 7899.8 | 7812.5 | 7723.7 | 7643.1 | 7609.5 |
| 60° | 9296.3 | 9063.7 | 8889.0 | 8711.6 | 8600.1 | 8491.2 | 8385.0 | 8368.8 |
| 62.5° | 10876.6 | 10474.8 | 10126.7 | 9759.8 | 9460.1 | 9226.3 | 9039.4 | 8987.0 |
| 65° | 12857.6 | 11907.5 | 11083.6 | 10314.8 | 9646.9 | 9143.0 | 8825.8 | 8686.0 |
| 67.5° | 13709.8 | 11833.6 | 10421.0 | 9329.7 | 8456.2 | 7846.0 | 7503.4 | 7332.6 |
| 70° | 12047.3 | 9813.5 | 8277.5 | 7184.8 | 6389.2 | 5738.8 | 5428.2 | 5245.4 |
| 72.5° | 8288.2 | 6242.7 | 4936.4 | 4029.2 | 3393.5 | 2849.2 | 2634.1 | 2618.1 |
| 75° | 3721.5 | 2464.8 | 1698.8 | 1309.0 | 1102.1 | 958.2 | 913.9 | 880.3 |
| 77.5° | 1041.6 | 770.1 | 686.8 | 642.5 | 599.4 | 549.7 | 530.9 | 535.0 |
| 80° | 506.6 | 478.4 | 459.7 | 431.5 | 392.5 | 350.7 | 331.9 | 340.1 |
| 82.5° | 336.0 | 331.9 | 344.0 | 323.9 | 267.4 | 227.2 | 190.8 | 174.7 |
| 85° | 204.4 | 206.9 | 211.0 | 212.4 | 180.1 | 126.3 | 86.0 | 96.8 |
| 87.5° | 80.7 | 92.8 | 100.8 | 104.8 | 98.2 | 60.5 | 48.4 | 49.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)