

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: P192535

Luminaire Tested: **GAN-AF-07-LED-U-5MQ-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192535
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-07-LED-U-5MQ-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28184.5 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 226
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

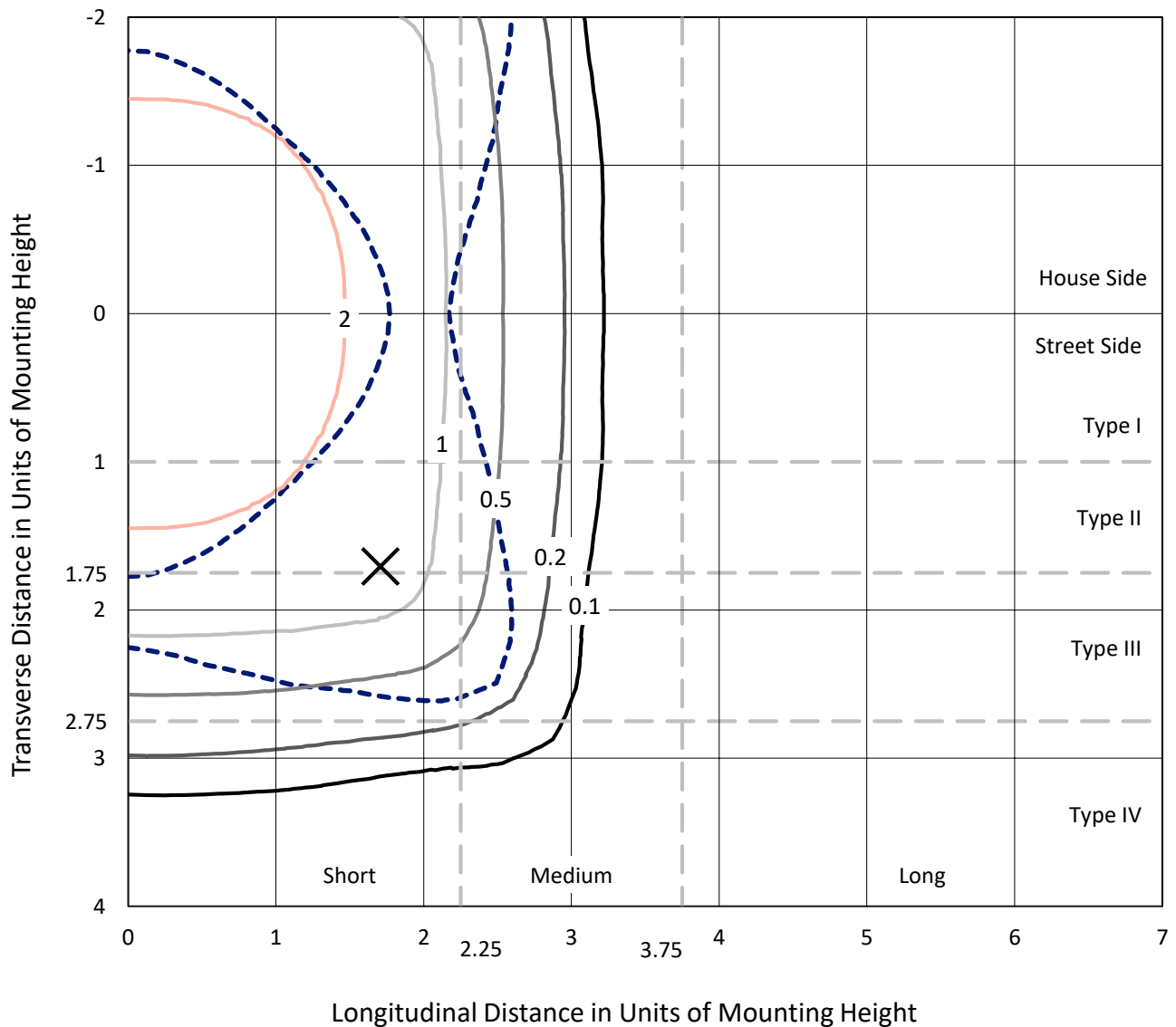


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

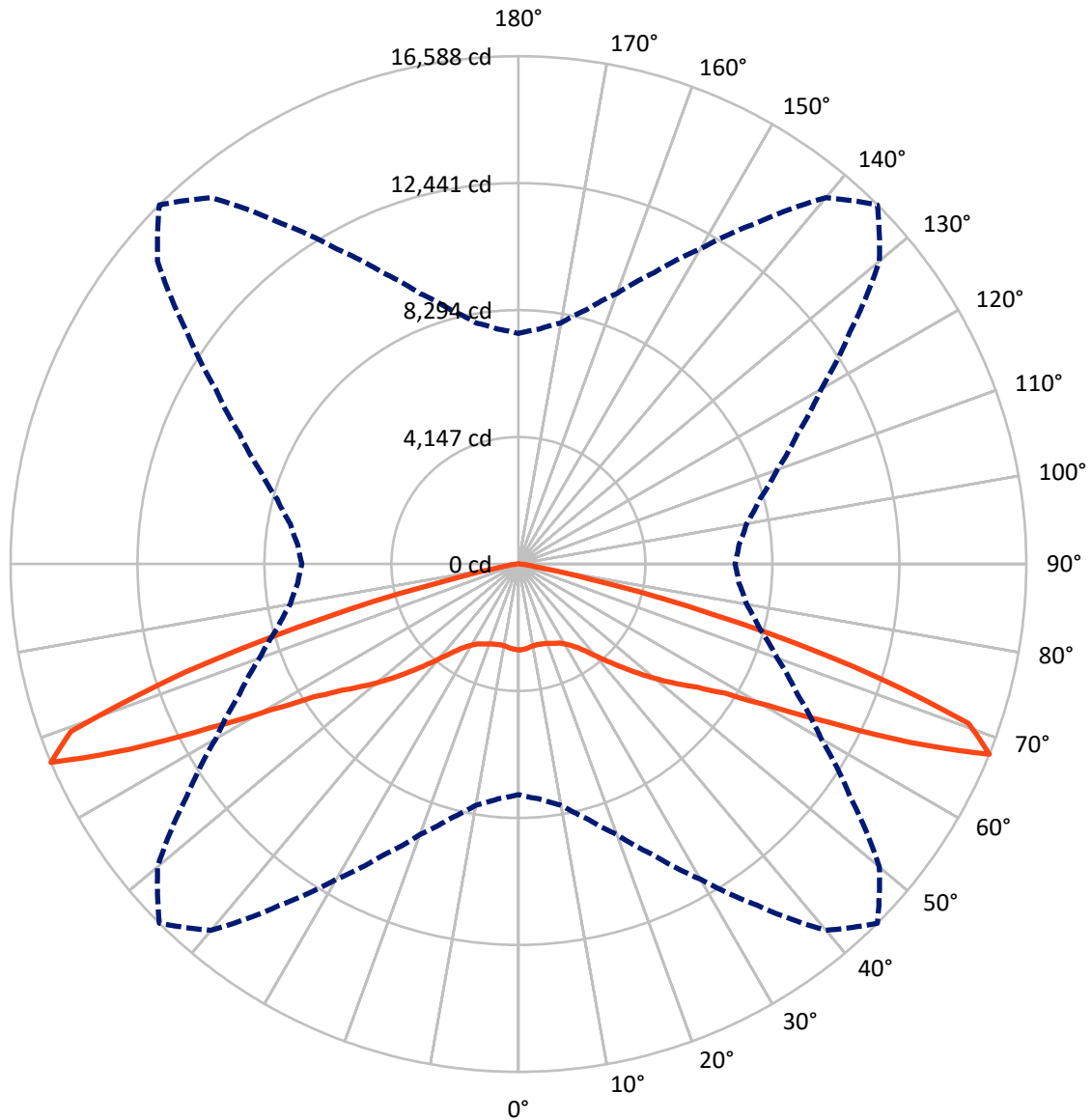


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type V - Short - Full Cutoff

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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 | 14092.3 | 0.0 | 14092.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14092.3 | 0.0 | 14092.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28184.5 | 0.0 | 28184.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 262.9 | 0.9 |
| 10°-20° | 762.8 | 2.7 |
| 20°-30° | 1296.8 | 4.6 |
| 30°-40° | 2119.9 | 7.5 |
| 40°-50° | 3784.4 | 13.4 |
| 50°-60° | 6380.5 | 22.6 |
| 60°-70° | 9901.6 | 35.1 |
| 70°-80° | 3479.0 | 12.3 |
| 80°-90° | 196.6 | 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° | 28184.5 | 100.0 |
| 0°-180° | 28184.5 | 100.0 |



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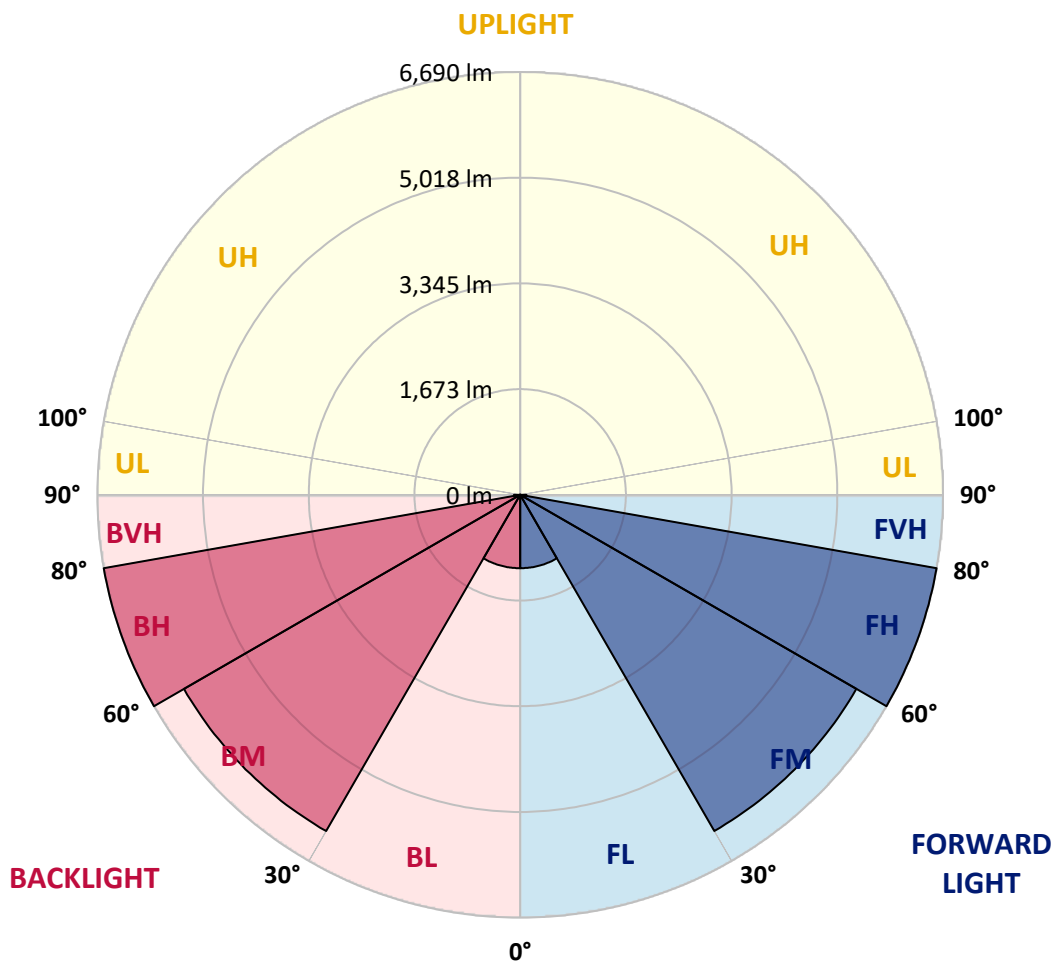
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1161.3 | 4.1 | | | |
| FM | (30°-60°) | 6142.4 | 21.8 | | | |
| FH | (60°-80°) | 6690.3 | 23.7 | | | G3/7500 |
| FVH | (80°-90°) | 98.3 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1161.3 | 4.1 | B3/2500 | | |
| BM | (30°-60°) | 6142.4 | 21.8 | B4/8500 | | |
| BH | (60°-80°) | 6690.3 | 23.7 | B5 | | G3/7500 |
| BVH | (80°-90°) | 98.3 | 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° | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 |
| 2.5° | 2798.3 | 2801.0 | 2801.0 | 2801.0 | 2799.7 | 2799.7 | 2797.0 | 2799.7 | 2798.3 | 2794.5 | 2795.7 |
| 5° | 2774.9 | 2777.6 | 2777.6 | 2776.3 | 2780.2 | 2778.9 | 2774.9 | 2777.6 | 2776.3 | 2773.8 | 2774.9 |
| 7.5° | 2741.4 | 2745.2 | 2745.2 | 2743.9 | 2747.8 | 2746.4 | 2743.9 | 2745.2 | 2745.2 | 2741.4 | 2741.4 |
| 10° | 2703.7 | 2706.4 | 2706.4 | 2705.0 | 2711.5 | 2711.5 | 2710.1 | 2714.1 | 2715.4 | 2711.5 | 2708.9 |
| 12.5° | 2668.7 | 2672.6 | 2672.6 | 2677.8 | 2684.3 | 2686.9 | 2693.3 | 2698.4 | 2703.7 | 2702.4 | 2697.3 |
| 15° | 2648.0 | 2650.6 | 2655.8 | 2662.2 | 2672.6 | 2681.7 | 2692.0 | 2703.7 | 2714.1 | 2716.7 | 2708.9 |
| 17.5° | 2635.0 | 2638.9 | 2646.7 | 2655.8 | 2670.0 | 2685.6 | 2701.1 | 2716.7 | 2730.9 | 2736.1 | 2727.0 |
| 20° | 2631.2 | 2633.7 | 2641.5 | 2657.0 | 2676.6 | 2699.8 | 2721.8 | 2740.0 | 2759.5 | 2765.9 | 2759.5 |
| 22.5° | 2638.9 | 2644.1 | 2653.2 | 2671.3 | 2697.3 | 2727.0 | 2753.0 | 2777.6 | 2802.2 | 2813.9 | 2804.8 |
| 25° | 2673.9 | 2679.1 | 2690.7 | 2714.1 | 2742.6 | 2773.8 | 2803.5 | 2832.0 | 2854.1 | 2865.8 | 2859.2 |
| 27.5° | 2738.7 | 2745.2 | 2759.5 | 2782.9 | 2813.9 | 2847.7 | 2880.0 | 2903.3 | 2921.5 | 2925.3 | 2917.5 |
| 30° | 2836.0 | 2850.1 | 2867.1 | 2892.9 | 2929.2 | 2957.7 | 2990.2 | 3010.8 | 3032.9 | 3032.9 | 3026.5 |
| 32.5° | 2987.5 | 3001.8 | 3019.9 | 3044.6 | 3073.1 | 3104.3 | 3132.8 | 3150.9 | 3174.2 | 3175.5 | 3160.0 |
| 35° | 3214.4 | 3220.9 | 3236.5 | 3252.0 | 3277.9 | 3305.1 | 3329.7 | 3341.3 | 3360.9 | 3362.1 | 3347.9 |
| 37.5° | 3513.8 | 3515.1 | 3525.5 | 3530.6 | 3553.9 | 3583.8 | 3607.0 | 3614.9 | 3633.1 | 3630.4 | 3616.2 |
| 40° | 3862.5 | 3869.0 | 3872.8 | 3880.6 | 3905.3 | 3933.8 | 3958.4 | 3962.3 | 3981.7 | 3977.8 | 3959.7 |
| 42.5° | 4265.6 | 4268.1 | 4290.2 | 4301.9 | 4325.1 | 4339.4 | 4370.6 | 4374.4 | 4397.8 | 4387.5 | 4366.6 |
| 45° | 4718.0 | 4741.2 | 4761.9 | 4785.3 | 4809.9 | 4826.7 | 4851.4 | 4846.2 | 4861.8 | 4846.2 | 4834.5 |
| 47.5° | 5193.5 | 5210.5 | 5257.1 | 5293.4 | 5333.6 | 5347.8 | 5382.7 | 5367.3 | 5382.7 | 5360.8 | 5356.9 |
| 50° | 5717.2 | 5747.0 | 5787.3 | 5828.7 | 5871.5 | 5894.7 | 5940.1 | 5920.8 | 5941.4 | 5920.8 | 5909.1 |
| 52.5° | 6233.0 | 6240.9 | 6329.0 | 6389.9 | 6449.6 | 6476.8 | 6503.9 | 6494.9 | 6496.2 | 6494.9 | 6483.2 |
| 55° | 6723.0 | 6741.2 | 6829.2 | 6912.3 | 7016.0 | 7092.4 | 7139.1 | 7133.9 | 7122.2 | 7110.6 | 7091.2 |
| 57.5° | 7275.1 | 7293.3 | 7394.4 | 7496.9 | 7614.8 | 7723.6 | 7818.3 | 7915.4 | 7953.0 | 7963.4 | 7920.6 |
| 60° | 8021.7 | 8020.4 | 8155.2 | 8279.6 | 8448.2 | 8610.1 | 8817.6 | 9028.8 | 9271.2 | 9383.9 | 9234.9 |
| 62.5° | 8781.2 | 8812.5 | 9006.8 | 9227.2 | 9574.5 | 9912.8 | 10295.2 | 10671.1 | 11054.7 | 11367.0 | 11035.1 |
| 65° | 8690.5 | 8809.8 | 9098.8 | 9597.8 | 10239.4 | 11001.6 | 11825.9 | 12698.1 | 13486.2 | 14028.1 | 13420.1 |
| 67.5° | 7531.8 | 7701.5 | 7995.8 | 8602.4 | 9404.7 | 10503.8 | 11888.1 | 13613.2 | 15618.3 | 16587.8 | 15386.3 |
| 70° | 5459.2 | 5651.1 | 5959.5 | 6551.9 | 7346.5 | 8391.1 | 9894.6 | 11965.8 | 14620.3 | 15597.7 | 14274.2 |
| 72.5° | 2716.7 | 2820.4 | 3010.8 | 3388.0 | 3989.5 | 4837.1 | 6200.7 | 8191.5 | 10540.1 | 11437.0 | 10227.8 |
| 75° | 922.8 | 970.8 | 1003.2 | 1126.4 | 1316.9 | 1650.0 | 2327.9 | 3581.2 | 5463.2 | 6549.3 | 5385.4 |
| 77.5° | 532.7 | 533.9 | 556.0 | 578.1 | 610.4 | 646.9 | 737.5 | 968.2 | 1674.6 | 2378.3 | 1733.0 |
| 80° | 344.8 | 343.5 | 361.6 | 378.5 | 400.6 | 418.7 | 423.8 | 448.5 | 517.2 | 613.1 | 548.3 |
| 82.5° | 178.8 | 200.9 | 241.0 | 263.1 | 304.7 | 312.4 | 302.0 | 293.0 | 309.8 | 321.4 | 329.2 |
| 85° | 98.6 | 85.5 | 128.3 | 165.8 | 184.1 | 186.7 | 186.7 | 176.2 | 182.8 | 178.8 | 194.4 |
| 87.5° | 45.4 | 41.5 | 50.6 | 81.6 | 86.9 | 73.9 | 77.8 | 68.8 | 49.2 | 48.0 | 54.4 |
| 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° | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 | 2808.7 |
| 2.5° | 2795.7 | 2797.0 | 2797.0 | 2801.0 | 2802.2 | 2804.8 | 2807.4 | 2808.7 |
| 5° | 2773.8 | 2777.6 | 2774.9 | 2778.9 | 2778.9 | 2781.5 | 2781.5 | 2782.9 |
| 7.5° | 2741.4 | 2745.2 | 2745.2 | 2745.2 | 2743.9 | 2747.8 | 2747.8 | 2747.8 |
| 10° | 2707.6 | 2710.1 | 2708.9 | 2706.4 | 2703.7 | 2707.6 | 2706.4 | 2705.0 |
| 12.5° | 2697.3 | 2690.7 | 2685.6 | 2683.0 | 2677.8 | 2679.1 | 2675.2 | 2675.2 |
| 15° | 2703.7 | 2692.0 | 2683.0 | 2679.1 | 2673.9 | 2671.3 | 2668.7 | 2670.0 |
| 17.5° | 2720.5 | 2706.4 | 2694.7 | 2688.3 | 2681.7 | 2677.8 | 2672.6 | 2673.9 |
| 20° | 2750.4 | 2733.5 | 2716.7 | 2703.7 | 2692.0 | 2685.6 | 2681.7 | 2680.3 |
| 22.5° | 2794.5 | 2769.8 | 2745.2 | 2725.8 | 2710.1 | 2701.1 | 2697.3 | 2694.7 |
| 25° | 2845.0 | 2817.8 | 2789.3 | 2767.2 | 2751.7 | 2740.0 | 2732.2 | 2732.2 |
| 27.5° | 2908.5 | 2886.5 | 2860.5 | 2834.6 | 2820.4 | 2808.7 | 2803.5 | 2801.0 |
| 30° | 3014.8 | 2994.0 | 2973.3 | 2948.7 | 2930.6 | 2918.9 | 2909.8 | 2902.0 |
| 32.5° | 3150.9 | 3134.0 | 3117.1 | 3099.0 | 3082.2 | 3066.7 | 3052.3 | 3045.9 |
| 35° | 3342.7 | 3329.7 | 3318.1 | 3297.3 | 3290.9 | 3281.8 | 3274.1 | 3267.5 |
| 37.5° | 3607.0 | 3602.0 | 3602.0 | 3579.9 | 3574.8 | 3570.8 | 3563.1 | 3564.4 |
| 40° | 3954.5 | 3959.7 | 3953.2 | 3945.5 | 3941.5 | 3931.1 | 3931.1 | 3940.2 |
| 42.5° | 4365.4 | 4369.3 | 4383.5 | 4370.6 | 4384.8 | 4371.8 | 4364.1 | 4370.6 |
| 45° | 4842.4 | 4856.6 | 4885.1 | 4872.1 | 4881.2 | 4859.2 | 4832.0 | 4833.3 |
| 47.5° | 5377.6 | 5390.7 | 5402.3 | 5393.1 | 5394.4 | 5358.2 | 5321.9 | 5312.8 |
| 50° | 5933.7 | 5938.9 | 5945.4 | 5932.3 | 5935.0 | 5894.7 | 5853.3 | 5854.6 |
| 52.5° | 6483.2 | 6507.8 | 6533.8 | 6498.7 | 6491.0 | 6445.6 | 6387.3 | 6364.1 |
| 55° | 7111.8 | 7146.8 | 7117.0 | 7056.1 | 6995.3 | 6934.2 | 6857.7 | 6844.9 |
| 57.5° | 7886.9 | 7827.4 | 7734.0 | 7618.6 | 7534.4 | 7448.9 | 7371.0 | 7338.6 |
| 60° | 8965.3 | 8741.1 | 8572.6 | 8401.5 | 8293.9 | 8189.0 | 8086.5 | 8071.0 |
| 62.5° | 10489.6 | 10102.0 | 9766.3 | 9412.4 | 9123.4 | 8897.8 | 8717.8 | 8667.2 |
| 65° | 12400.1 | 11483.7 | 10689.2 | 9947.7 | 9303.7 | 8817.6 | 8511.7 | 8376.9 |
| 67.5° | 13221.8 | 11412.3 | 10050.2 | 8997.7 | 8155.2 | 7566.7 | 7236.2 | 7071.7 |
| 70° | 11618.5 | 9464.4 | 7982.8 | 6929.1 | 6161.7 | 5534.4 | 5235.0 | 5058.8 |
| 72.5° | 7993.2 | 6020.5 | 4760.7 | 3885.8 | 3272.8 | 2747.8 | 2540.4 | 2524.9 |
| 75° | 3588.9 | 2377.1 | 1638.4 | 1262.4 | 1062.9 | 924.2 | 881.4 | 849.0 |
| 77.5° | 1004.5 | 742.6 | 662.3 | 619.5 | 578.1 | 530.1 | 512.0 | 515.8 |
| 80° | 488.6 | 461.4 | 443.3 | 416.1 | 378.5 | 338.2 | 320.1 | 327.9 |
| 82.5° | 324.1 | 320.1 | 331.8 | 312.4 | 258.0 | 219.1 | 184.1 | 168.5 |
| 85° | 197.0 | 199.6 | 203.4 | 204.8 | 173.7 | 121.9 | 82.9 | 93.3 |
| 87.5° | 77.8 | 89.5 | 97.2 | 101.1 | 94.6 | 58.4 | 46.7 | 48.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)