

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: P192634

Luminaire Tested: **GAN-AF-06-LED-U-5WQ-7030-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7030-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36267.5 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 333
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

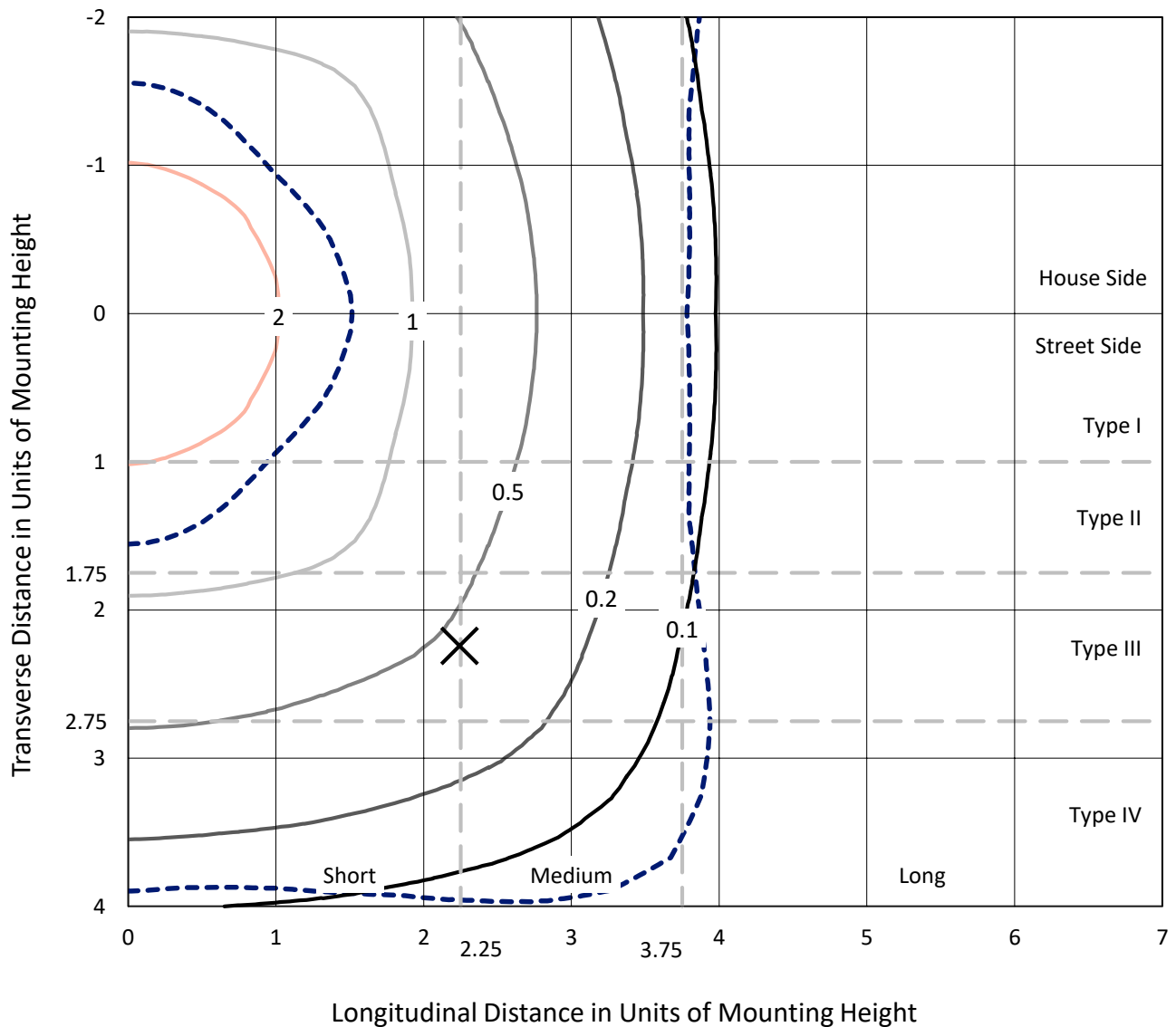


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

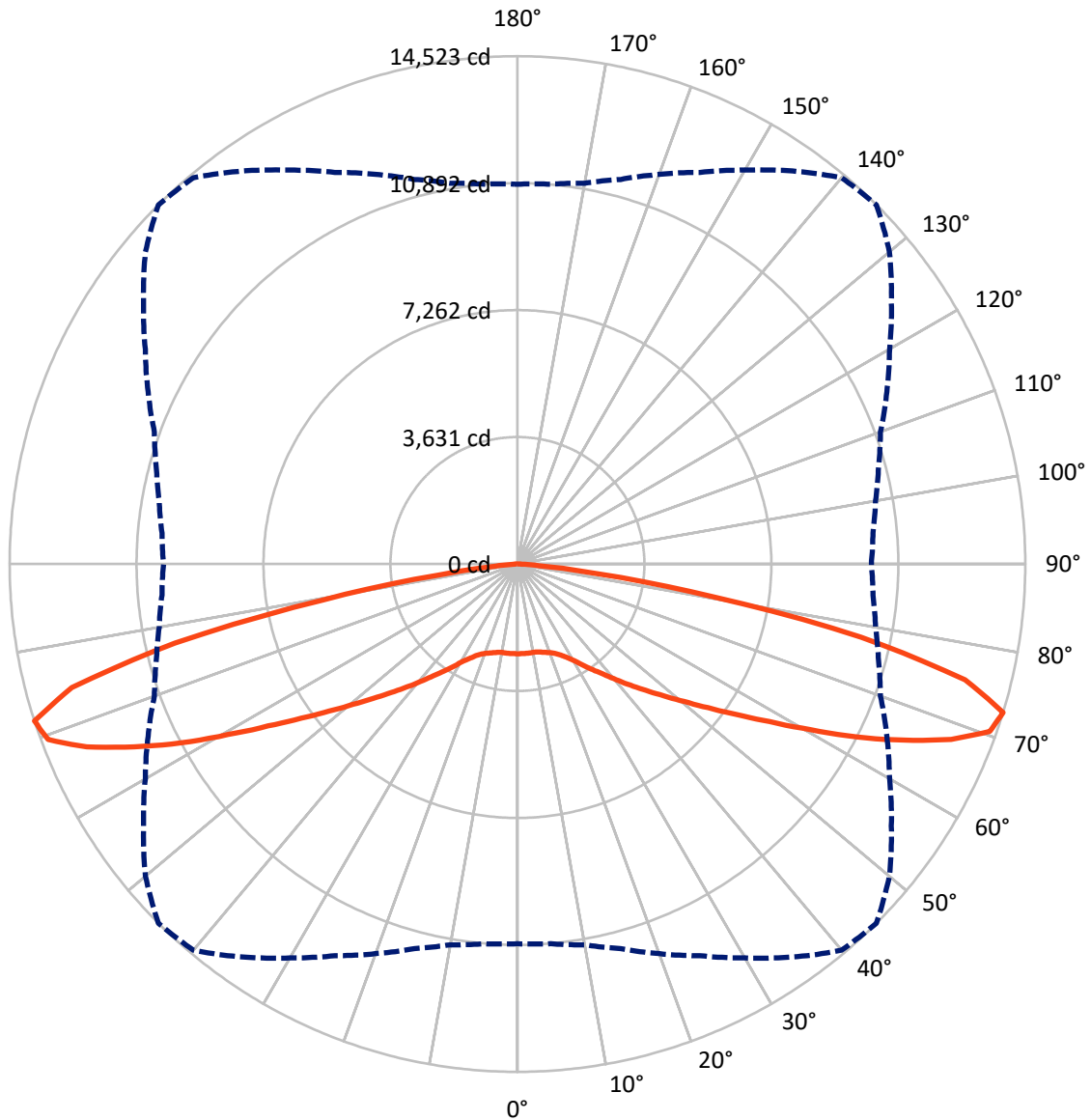


Based on 30 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18133.8 | 0.0 | 18133.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18133.8 | 0.0 | 18133.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 36267.5 | 0.0 | 36267.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 245.2 | 0.7 |
| 10°-20° | 744.8 | 2.1 |
| 20°-30° | 1361.1 | 3.8 |
| 30°-40° | 2346.8 | 6.5 |
| 40°-50° | 4011.8 | 11.1 |
| 50°-60° | 6502.6 | 17.9 |
| 60°-70° | 10787.6 | 29.7 |
| 70°-80° | 9501.4 | 26.2 |
| 80°-90° | 766.1 | 2.1 |
| 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° | 36267.5 | 100.0 |
| 0°-180° | 36267.5 | 100.0 |



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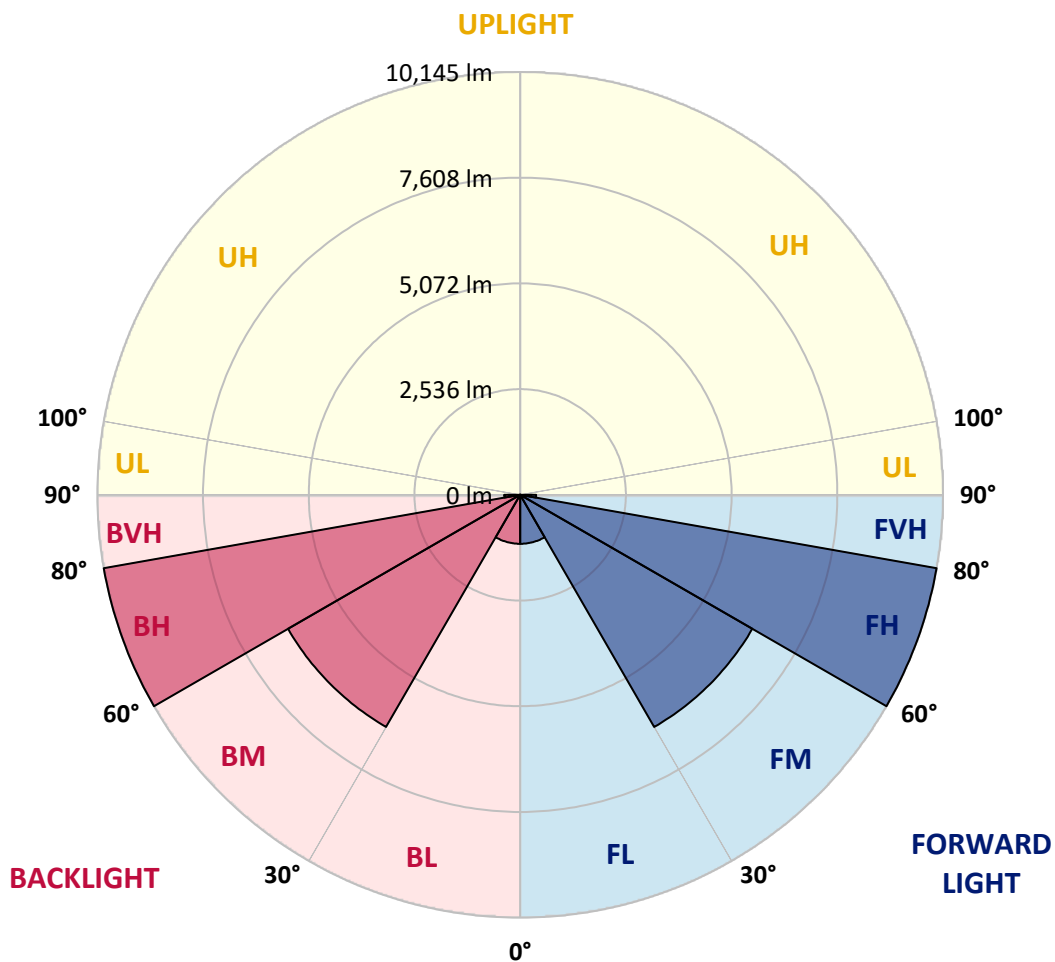
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1175.6 | 3.2 | | | |
| FM | (30°-60°) | 6430.6 | 17.7 | | | |
| FH | (60°-80°) | 10144.5 | 28.0 | | | G4/12000 |
| FVH | (80°-90°) | 383.0 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 1175.6 | 3.2 | B3/2500 | | |
| BM | (30°-60°) | 6430.6 | 17.7 | B4/8500 | | |
| BH | (60°-80°) | 10144.5 | 28.0 | B5 | | G4/12000 |
| BVH | (80°-90°) | 383.0 | 1.1 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 |
| 2.5° | 2568.3 | 2570.0 | 2571.6 | 2570.0 | 2570.0 | 2568.3 | 2566.6 | 2568.3 | 2566.6 | 2563.3 | 2565.0 |
| 5° | 2576.7 | 2579.9 | 2579.9 | 2576.7 | 2578.3 | 2576.7 | 2573.3 | 2574.9 | 2571.6 | 2566.6 | 2566.6 |
| 7.5° | 2586.6 | 2588.3 | 2588.3 | 2585.0 | 2586.6 | 2583.3 | 2579.9 | 2578.3 | 2574.9 | 2568.3 | 2563.3 |
| 10° | 2601.6 | 2603.2 | 2601.6 | 2598.3 | 2598.3 | 2593.3 | 2585.0 | 2581.6 | 2574.9 | 2565.0 | 2560.0 |
| 12.5° | 2618.2 | 2619.8 | 2618.2 | 2614.9 | 2613.3 | 2604.8 | 2598.3 | 2593.3 | 2588.3 | 2579.9 | 2571.6 |
| 15° | 2641.5 | 2644.8 | 2641.5 | 2634.8 | 2629.9 | 2623.2 | 2619.8 | 2621.5 | 2623.2 | 2616.5 | 2608.2 |
| 17.5° | 2684.7 | 2686.3 | 2681.4 | 2666.5 | 2659.8 | 2653.2 | 2653.2 | 2656.4 | 2661.4 | 2658.2 | 2649.9 |
| 20° | 2764.6 | 2759.6 | 2748.0 | 2729.7 | 2721.3 | 2709.7 | 2708.0 | 2709.7 | 2709.7 | 2708.0 | 2701.3 |
| 22.5° | 2864.3 | 2861.1 | 2846.1 | 2822.8 | 2811.1 | 2804.4 | 2794.6 | 2786.2 | 2784.6 | 2779.5 | 2772.9 |
| 25° | 2984.2 | 2982.4 | 2964.2 | 2944.2 | 2935.9 | 2927.6 | 2919.3 | 2907.6 | 2897.7 | 2886.0 | 2879.3 |
| 27.5° | 3137.2 | 3130.5 | 3103.9 | 3093.9 | 3082.3 | 3077.3 | 3065.7 | 3052.3 | 3044.1 | 3029.1 | 3020.8 |
| 30° | 3305.2 | 3305.2 | 3283.6 | 3280.3 | 3280.3 | 3268.6 | 3255.3 | 3232.0 | 3217.0 | 3202.1 | 3197.0 |
| 32.5° | 3473.3 | 3474.9 | 3453.2 | 3459.9 | 3464.8 | 3473.3 | 3476.5 | 3468.2 | 3458.3 | 3456.5 | 3446.6 |
| 35° | 3716.0 | 3709.4 | 3687.8 | 3692.8 | 3691.1 | 3689.4 | 3689.4 | 3707.7 | 3711.1 | 3714.4 | 3694.4 |
| 37.5° | 4017.1 | 4017.1 | 3995.5 | 3995.5 | 3985.6 | 3975.5 | 3962.3 | 3973.9 | 3992.3 | 3997.1 | 3983.8 |
| 40° | 4361.4 | 4373.1 | 4346.5 | 4344.8 | 4348.2 | 4316.5 | 4301.5 | 4319.9 | 4331.5 | 4351.5 | 4336.5 |
| 42.5° | 4767.3 | 4759.0 | 4732.3 | 4729.1 | 4710.8 | 4700.8 | 4687.4 | 4702.4 | 4720.8 | 4734.1 | 4739.0 |
| 45° | 5156.6 | 5149.9 | 5120.0 | 5120.0 | 5101.7 | 5093.3 | 5100.0 | 5125.0 | 5133.3 | 5151.6 | 5169.9 |
| 47.5° | 5540.9 | 5532.5 | 5512.5 | 5520.9 | 5522.5 | 5537.5 | 5559.1 | 5582.4 | 5605.6 | 5630.6 | 5639.0 |
| 50° | 5933.5 | 5935.1 | 5913.4 | 5933.5 | 5958.4 | 5999.9 | 6058.1 | 6096.4 | 6144.6 | 6176.2 | 6186.3 |
| 52.5° | 6291.0 | 6297.7 | 6320.9 | 6367.5 | 6417.5 | 6499.0 | 6598.7 | 6691.9 | 6771.8 | 6825.0 | 6821.6 |
| 55° | 6720.2 | 6730.2 | 6786.7 | 6866.5 | 6948.1 | 7071.2 | 7219.2 | 7383.8 | 7516.9 | 7593.4 | 7545.2 |
| 57.5° | 7269.1 | 7290.8 | 7353.9 | 7462.1 | 7583.4 | 7743.2 | 7946.1 | 8194.0 | 8400.2 | 8503.3 | 8425.2 |
| 60° | 8022.6 | 8035.9 | 8112.5 | 8232.2 | 8378.5 | 8576.6 | 8847.7 | 9180.4 | 9471.4 | 9607.8 | 9518.0 |
| 62.5° | 9015.6 | 9040.6 | 9102.2 | 9223.5 | 9373.4 | 9597.9 | 9928.9 | 10344.7 | 10707.4 | 10897.0 | 10694.1 |
| 65° | 10201.6 | 10281.6 | 10333.0 | 10456.2 | 10596.0 | 10833.8 | 11179.7 | 11625.5 | 12014.8 | 12139.6 | 11905.0 |
| 67.5° | 11376.1 | 11445.9 | 11535.7 | 11677.1 | 11818.6 | 12086.4 | 12407.4 | 12839.8 | 13267.4 | 13380.4 | 13016.2 |
| 70° | 11890.0 | 11930.0 | 12069.7 | 12262.6 | 12533.7 | 12849.9 | 13220.8 | 13706.5 | 14235.5 | 14328.6 | 13866.2 |
| 72.5° | 10860.4 | 10900.4 | 11056.7 | 11384.4 | 11856.9 | 12359.1 | 13006.2 | 13719.8 | 14418.4 | 14523.2 | 13886.1 |
| 75° | 8213.9 | 8149.0 | 8380.3 | 8814.4 | 9451.5 | 10151.9 | 11056.7 | 12079.7 | 13089.4 | 13220.8 | 12460.6 |
| 77.5° | 4245.0 | 4236.7 | 4411.4 | 4950.3 | 5710.4 | 6507.3 | 7503.6 | 8659.7 | 9647.8 | 10047.1 | 9428.2 |
| 80° | 1196.0 | 1209.3 | 1292.4 | 1560.3 | 2004.4 | 2579.9 | 3358.4 | 4441.3 | 5249.7 | 5662.3 | 5316.2 |
| 82.5° | 469.0 | 505.7 | 537.2 | 587.2 | 645.4 | 730.3 | 974.8 | 1450.5 | 1946.2 | 2325.5 | 1904.6 |
| 85° | 168.0 | 179.6 | 254.5 | 301.1 | 306.0 | 322.8 | 367.6 | 429.2 | 517.4 | 617.1 | 507.3 |
| 87.5° | 63.3 | 69.8 | 81.5 | 134.7 | 133.1 | 121.4 | 148.0 | 154.7 | 116.5 | 106.4 | 131.4 |
| 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° | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 | 2568.3 |
| 2.5° | 2561.7 | 2563.3 | 2563.3 | 2565.0 | 2566.6 | 2566.6 | 2570.0 | 2570.0 |
| 5° | 2563.3 | 2563.3 | 2560.0 | 2561.7 | 2560.0 | 2560.0 | 2561.7 | 2561.7 |
| 7.5° | 2560.0 | 2558.3 | 2555.0 | 2553.3 | 2550.0 | 2550.0 | 2550.0 | 2550.0 |
| 10° | 2555.0 | 2553.3 | 2550.0 | 2548.4 | 2546.8 | 2546.8 | 2546.8 | 2546.8 |
| 12.5° | 2568.3 | 2563.3 | 2560.0 | 2558.3 | 2558.3 | 2558.3 | 2558.3 | 2558.3 |
| 15° | 2603.2 | 2591.6 | 2583.3 | 2583.3 | 2585.0 | 2588.3 | 2588.3 | 2591.6 |
| 17.5° | 2646.5 | 2633.1 | 2624.9 | 2618.2 | 2621.5 | 2626.5 | 2629.9 | 2633.1 |
| 20° | 2698.0 | 2691.4 | 2679.8 | 2673.1 | 2673.1 | 2679.8 | 2683.1 | 2684.7 |
| 22.5° | 2769.6 | 2764.6 | 2759.6 | 2751.2 | 2751.2 | 2754.7 | 2761.3 | 2761.3 |
| 25° | 2876.0 | 2872.8 | 2869.3 | 2862.7 | 2861.1 | 2861.1 | 2864.3 | 2867.7 |
| 27.5° | 3009.1 | 3010.7 | 3007.5 | 3005.8 | 3000.8 | 2999.1 | 3004.1 | 3002.5 |
| 30° | 3187.1 | 3195.4 | 3203.7 | 3197.0 | 3188.7 | 3183.9 | 3178.8 | 3172.2 |
| 32.5° | 3428.3 | 3418.2 | 3411.6 | 3400.0 | 3385.1 | 3371.7 | 3361.8 | 3350.1 |
| 35° | 3656.2 | 3639.5 | 3632.9 | 3642.8 | 3641.2 | 3632.9 | 3621.3 | 3611.2 |
| 37.5° | 3935.6 | 3932.3 | 3935.6 | 3953.9 | 3950.6 | 3958.9 | 3935.6 | 3934.0 |
| 40° | 4288.3 | 4291.6 | 4314.8 | 4336.5 | 4348.2 | 4359.8 | 4346.5 | 4333.2 |
| 42.5° | 4697.5 | 4695.9 | 4704.1 | 4734.1 | 4754.0 | 4767.3 | 4739.0 | 4735.8 |
| 45° | 5129.9 | 5118.4 | 5125.0 | 5149.9 | 5169.9 | 5184.9 | 5153.2 | 5153.2 |
| 47.5° | 5605.6 | 5585.8 | 5564.1 | 5592.4 | 5604.0 | 5614.0 | 5589.0 | 5580.8 |
| 50° | 6136.3 | 6094.7 | 6048.1 | 6059.8 | 6059.8 | 6056.5 | 6024.9 | 6023.3 |
| 52.5° | 6745.1 | 6668.6 | 6583.8 | 6552.2 | 6533.9 | 6513.9 | 6459.0 | 6432.4 |
| 55° | 7445.5 | 7330.6 | 7197.6 | 7116.0 | 7072.8 | 7017.9 | 6926.4 | 6901.5 |
| 57.5° | 8263.9 | 8084.2 | 7854.6 | 7754.7 | 7658.3 | 7568.5 | 7467.0 | 7438.8 |
| 60° | 9233.6 | 8969.1 | 8664.7 | 8480.0 | 8375.3 | 8288.7 | 8183.9 | 8178.9 |
| 62.5° | 10314.8 | 9897.2 | 9553.0 | 9386.6 | 9310.1 | 9233.6 | 9133.7 | 9147.0 |
| 65° | 11414.4 | 10978.5 | 10655.8 | 10521.0 | 10449.5 | 10386.3 | 10286.5 | 10301.5 |
| 67.5° | 12498.8 | 12097.9 | 11743.6 | 11605.6 | 11525.8 | 11445.9 | 11356.1 | 11371.0 |
| 70° | 13277.3 | 12779.9 | 12380.7 | 12074.7 | 11883.4 | 11667.1 | 11527.4 | 11492.6 |
| 72.5° | 13054.4 | 12287.7 | 11653.8 | 11046.6 | 10690.7 | 10401.3 | 10205.1 | 10120.1 |
| 75° | 11297.9 | 10249.9 | 9434.9 | 8689.6 | 8270.5 | 7929.5 | 7681.6 | 7527.0 |
| 77.5° | 8390.2 | 7212.5 | 6249.4 | 5391.1 | 4712.5 | 4256.6 | 3935.6 | 3727.7 |
| 80° | 4592.7 | 3493.1 | 2553.3 | 1794.8 | 1319.1 | 1096.2 | 968.1 | 906.6 |
| 82.5° | 1430.5 | 923.2 | 680.3 | 587.2 | 545.6 | 522.3 | 484.0 | 422.5 |
| 85° | 455.7 | 399.3 | 370.9 | 354.3 | 337.7 | 294.5 | 202.9 | 184.6 |
| 87.5° | 176.4 | 181.3 | 179.6 | 169.7 | 172.9 | 124.8 | 99.8 | 88.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)