

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: P192743

Luminaire Tested: **GAN-AF-05-LED-U-RW-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-RW-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23762.8 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 210
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

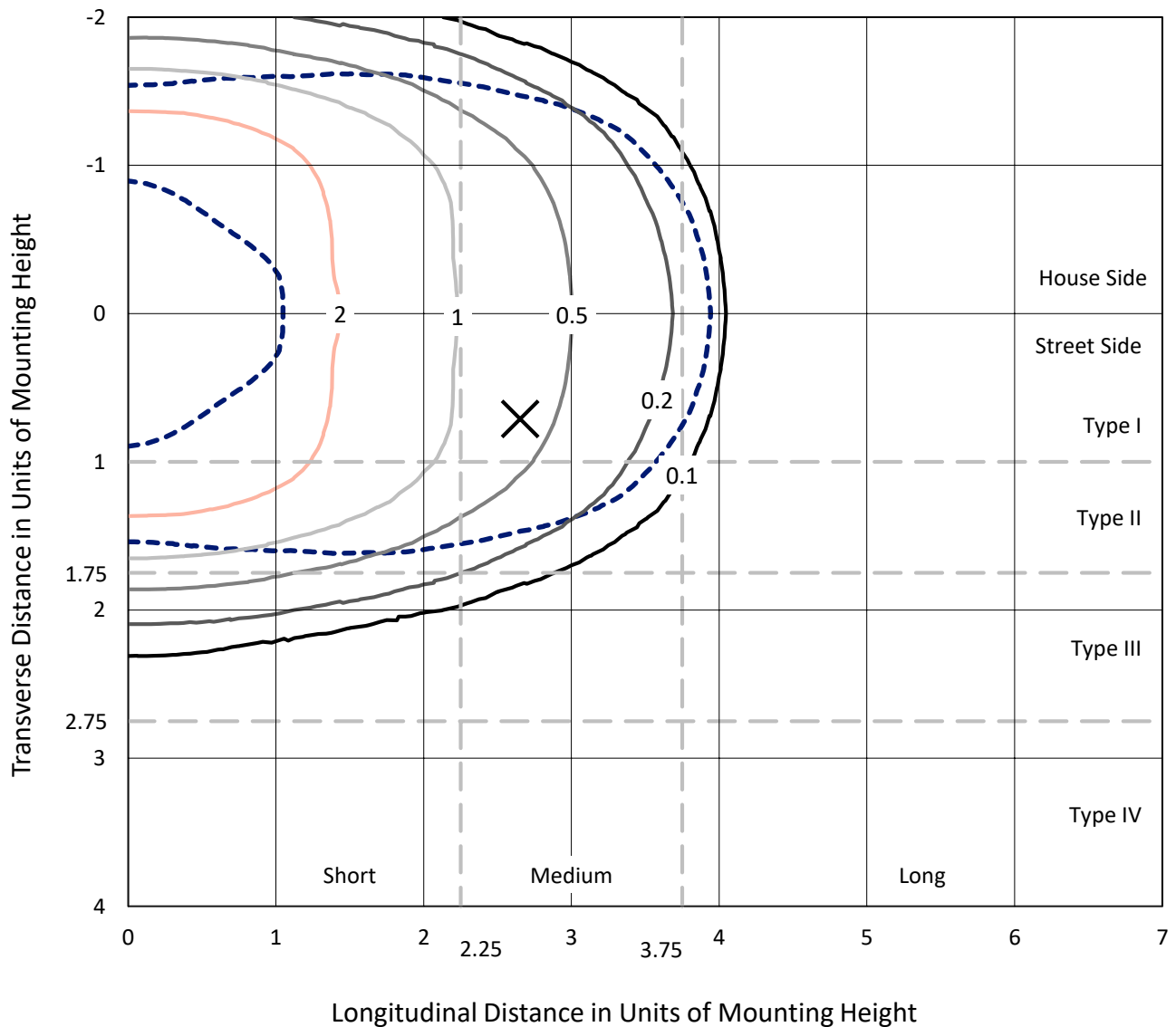


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

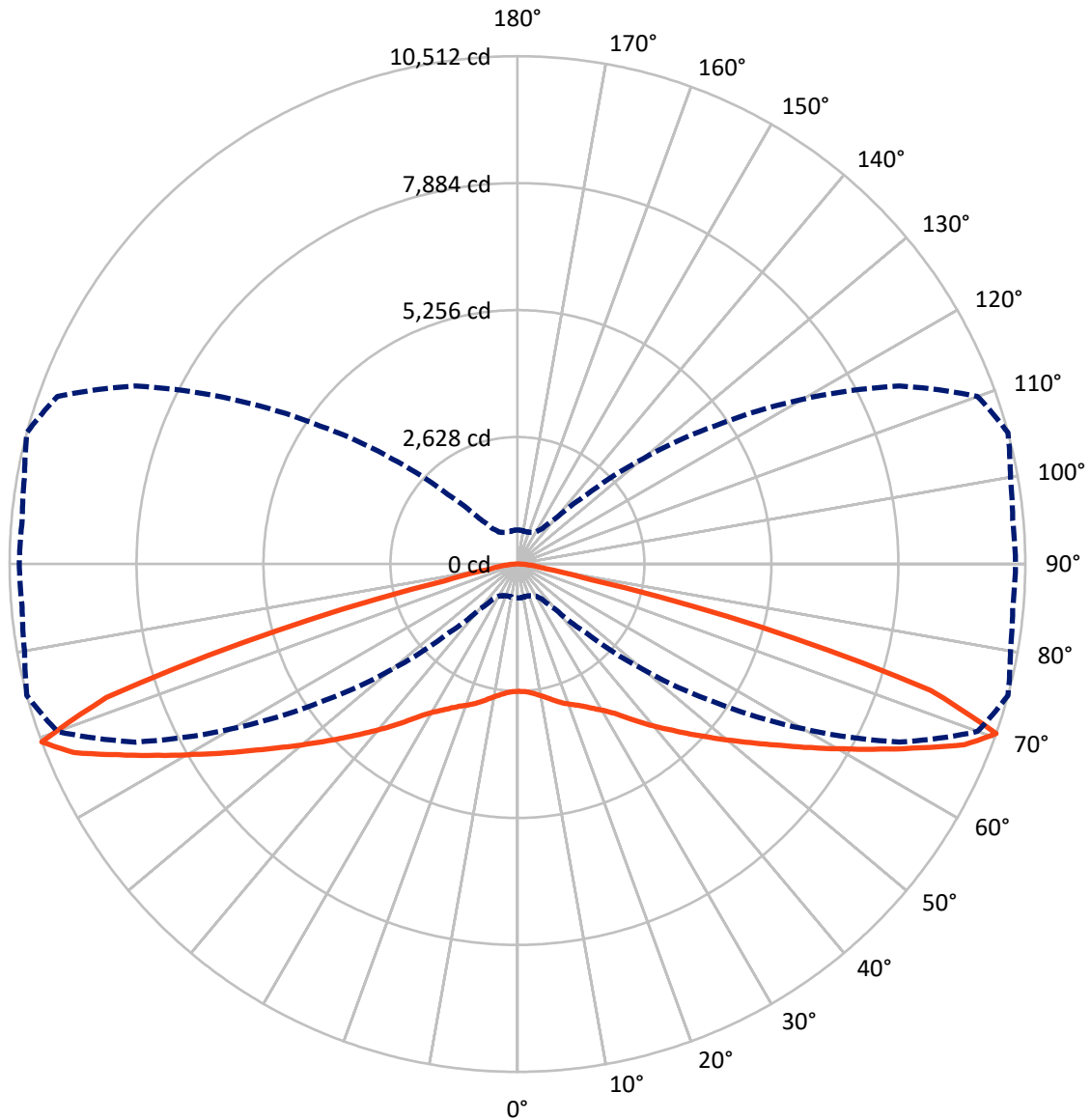


Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11881.4 | 0.0 | 11881.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11881.4 | 0.0 | 11881.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23762.8 | 0.0 | 23762.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 252.8 | 1.1 |
| 10°-20° | 785.5 | 3.3 |
| 20°-30° | 1478.4 | 6.2 |
| 30°-40° | 2618.0 | 11.0 |
| 40°-50° | 4378.1 | 18.4 |
| 50°-60° | 6100.8 | 25.7 |
| 60°-70° | 5657.6 | 23.8 |
| 70°-80° | 2254.7 | 9.5 |
| 80°-90° | 237.0 | 1.0 |
| 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° | 23762.8 | 100.0 |
| 0°-180° | 23762.8 | 100.0 |



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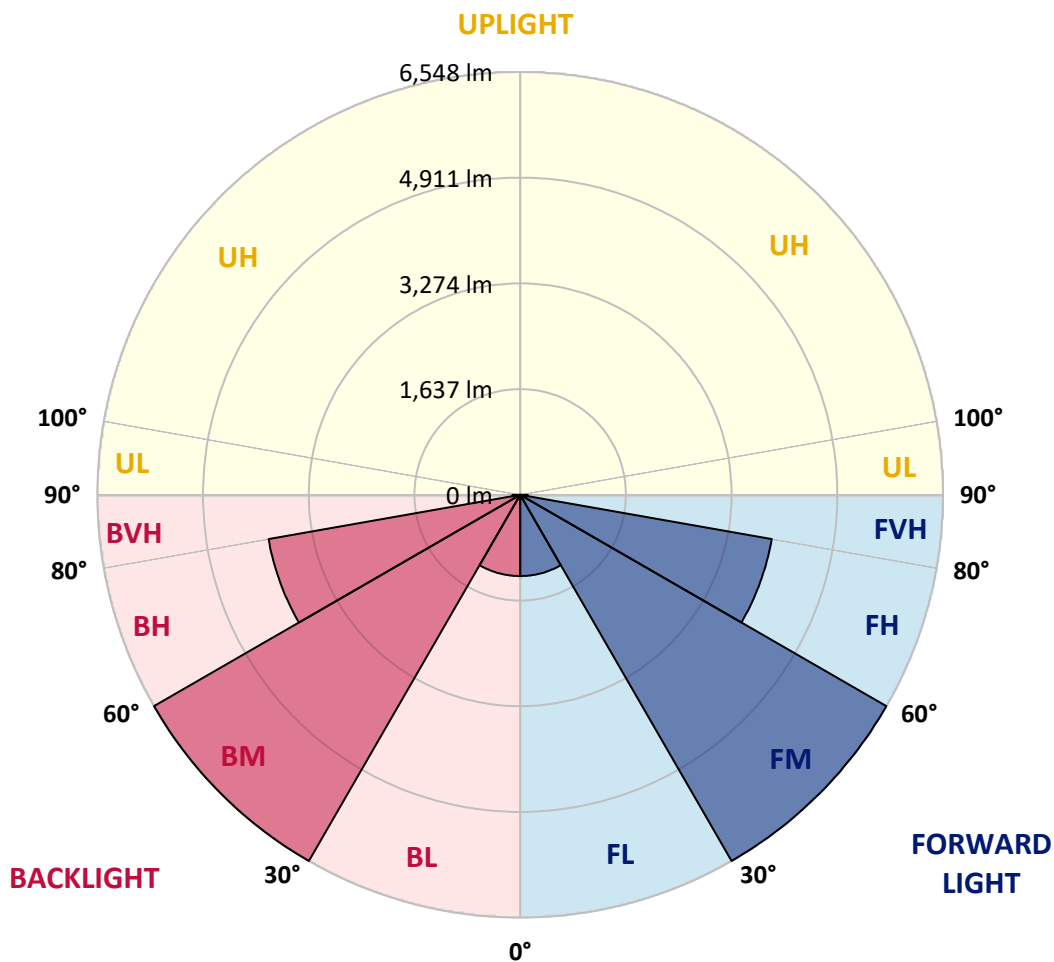
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1258.3 | 5.3 | | | |
| FM | (30°-60°) | 6548.4 | 27.6 | | | |
| FH | (60°-80°) | 3956.1 | 16.6 | | | G2/5000 |
| FVH | (80°-90°) | 118.5 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1258.3 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 6548.4 | 27.6 | B4/8500 | | |
| BH | (60°-80°) | 3956.1 | 16.6 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 118.5 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 |
| 2.5° | 2631.4 | 2629.1 | 2631.4 | 2630.2 | 2632.5 | 2632.5 | 2634.7 | 2639.2 | 2639.2 | 2642.6 | 2641.5 |
| 5° | 2605.5 | 2604.4 | 2607.8 | 2611.2 | 2614.5 | 2621.2 | 2628.0 | 2638.1 | 2645.9 | 2651.6 | 2657.1 |
| 7.5° | 2555.0 | 2555.0 | 2559.5 | 2567.4 | 2575.2 | 2589.8 | 2605.5 | 2625.7 | 2645.9 | 2662.7 | 2677.4 |
| 10° | 2513.4 | 2515.7 | 2521.2 | 2534.9 | 2548.3 | 2570.8 | 2592.0 | 2621.2 | 2649.3 | 2677.4 | 2699.9 |
| 12.5° | 2488.7 | 2492.1 | 2502.2 | 2522.5 | 2544.8 | 2575.2 | 2607.8 | 2644.8 | 2676.3 | 2709.9 | 2732.5 |
| 15° | 2496.6 | 2498.9 | 2513.4 | 2538.1 | 2567.4 | 2605.5 | 2649.3 | 2693.1 | 2730.2 | 2766.1 | 2796.5 |
| 17.5° | 2540.4 | 2543.8 | 2560.6 | 2588.7 | 2619.1 | 2664.0 | 2711.0 | 2760.6 | 2806.6 | 2847.0 | 2884.0 |
| 20° | 2619.1 | 2622.3 | 2643.7 | 2674.0 | 2709.9 | 2756.1 | 2803.1 | 2854.8 | 2906.6 | 2949.2 | 2990.8 |
| 22.5° | 2730.2 | 2735.9 | 2756.1 | 2786.3 | 2826.7 | 2876.1 | 2932.3 | 2987.3 | 3036.8 | 3076.0 | 3113.2 |
| 25° | 2876.1 | 2888.5 | 2907.6 | 2941.4 | 2984.0 | 3028.8 | 3089.6 | 3145.7 | 3192.9 | 3229.9 | 3256.9 |
| 27.5° | 3082.9 | 3099.6 | 3114.3 | 3146.8 | 3188.4 | 3231.2 | 3291.8 | 3341.1 | 3386.1 | 3422.0 | 3442.2 |
| 30° | 3356.9 | 3373.7 | 3388.3 | 3419.7 | 3457.9 | 3498.4 | 3555.7 | 3599.4 | 3627.5 | 3655.6 | 3654.5 |
| 32.5° | 3689.2 | 3707.2 | 3712.8 | 3746.6 | 3785.9 | 3829.6 | 3881.3 | 3906.0 | 3928.5 | 3931.9 | 3911.7 |
| 35° | 4061.0 | 4070.0 | 4092.6 | 4137.4 | 4182.3 | 4218.3 | 4267.6 | 4280.0 | 4280.0 | 4263.2 | 4218.3 |
| 37.5° | 4468.7 | 4474.2 | 4505.8 | 4556.3 | 4602.3 | 4639.3 | 4673.1 | 4697.8 | 4685.5 | 4649.5 | 4574.2 |
| 40° | 4915.7 | 4925.9 | 4970.8 | 5015.6 | 5067.3 | 5102.1 | 5138.0 | 5142.5 | 5130.2 | 5077.4 | 4975.2 |
| 42.5° | 5342.4 | 5351.4 | 5396.4 | 5467.2 | 5534.5 | 5582.8 | 5616.5 | 5623.2 | 5583.9 | 5535.6 | 5408.7 |
| 45° | 5709.7 | 5733.3 | 5791.8 | 5874.8 | 5972.4 | 6041.1 | 6087.1 | 6106.2 | 6071.3 | 6008.3 | 5861.3 |
| 47.5° | 6000.5 | 6024.1 | 6107.3 | 6206.2 | 6327.4 | 6438.5 | 6514.9 | 6555.3 | 6546.4 | 6499.2 | 6338.5 |
| 50° | 6213.9 | 6236.4 | 6326.2 | 6447.5 | 6589.1 | 6727.2 | 6857.4 | 6954.1 | 6987.7 | 6966.4 | 6819.3 |
| 52.5° | 6238.7 | 6275.8 | 6381.3 | 6544.1 | 6728.3 | 6916.9 | 7102.3 | 7266.3 | 7377.4 | 7394.3 | 7285.4 |
| 55° | 5893.9 | 5930.9 | 6076.9 | 6318.4 | 6592.3 | 6900.2 | 7196.7 | 7472.9 | 7692.0 | 7804.2 | 7746.9 |
| 57.5° | 5080.8 | 5146.9 | 5300.9 | 5583.9 | 5987.1 | 6447.5 | 6920.4 | 7411.2 | 7857.1 | 8154.6 | 8211.9 |
| 60° | 3893.7 | 3972.3 | 4127.3 | 4428.3 | 4877.6 | 5426.7 | 6057.9 | 6783.4 | 7570.6 | 8240.0 | 8639.7 |
| 62.5° | 2497.6 | 2571.9 | 2734.6 | 2996.3 | 3362.5 | 3957.7 | 4634.9 | 5496.3 | 6554.3 | 7611.0 | 8563.4 |
| 65° | 1283.7 | 1324.1 | 1409.5 | 1567.8 | 1853.0 | 2297.8 | 2905.4 | 3764.5 | 4974.0 | 6277.9 | 7654.8 |
| 67.5° | 813.1 | 821.0 | 840.1 | 862.5 | 935.5 | 1089.5 | 1372.4 | 1908.1 | 2903.1 | 4263.2 | 5874.8 |
| 70° | 703.1 | 703.1 | 694.1 | 690.7 | 699.7 | 721.0 | 764.9 | 889.5 | 1225.3 | 2023.8 | 3388.3 |
| 72.5° | 643.5 | 636.8 | 621.0 | 608.7 | 606.5 | 606.5 | 615.4 | 634.6 | 688.5 | 824.4 | 1326.3 |
| 75° | 592.9 | 573.9 | 552.6 | 538.0 | 532.3 | 526.7 | 525.6 | 529.0 | 540.2 | 561.5 | 633.3 |
| 77.5° | 531.2 | 506.5 | 481.9 | 467.2 | 460.4 | 452.6 | 445.9 | 438.0 | 432.3 | 439.1 | 470.6 |
| 80° | 457.1 | 429.1 | 409.9 | 401.0 | 394.2 | 383.0 | 368.3 | 354.9 | 342.5 | 340.4 | 359.4 |
| 82.5° | 368.3 | 335.8 | 336.9 | 340.4 | 327.9 | 312.3 | 296.5 | 281.9 | 260.6 | 249.3 | 260.6 |
| 85° | 297.6 | 280.8 | 272.9 | 294.2 | 276.3 | 252.7 | 228.1 | 202.1 | 168.5 | 141.5 | 153.8 |
| 87.5° | 115.7 | 115.7 | 172.9 | 266.1 | 239.2 | 195.5 | 167.3 | 142.6 | 88.7 | 68.5 | 69.6 |
| 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° | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 | 2635.9 |
| 2.5° | 2640.4 | 2642.6 | 2641.5 | 2640.4 | 2640.4 | 2639.2 | 2640.4 | 2640.4 |
| 5° | 2660.6 | 2666.2 | 2666.2 | 2668.4 | 2668.4 | 2669.5 | 2670.7 | 2669.5 |
| 7.5° | 2690.8 | 2701.0 | 2707.8 | 2715.6 | 2716.7 | 2717.9 | 2720.1 | 2717.9 |
| 10° | 2721.2 | 2741.5 | 2756.1 | 2770.6 | 2777.4 | 2779.5 | 2781.8 | 2781.8 |
| 12.5° | 2759.4 | 2787.4 | 2813.3 | 2839.1 | 2851.4 | 2858.2 | 2858.2 | 2862.7 |
| 15° | 2822.2 | 2850.3 | 2880.7 | 2915.5 | 2936.8 | 2948.1 | 2951.4 | 2951.4 |
| 17.5° | 2911.0 | 2935.7 | 2961.6 | 2995.3 | 3022.2 | 3036.8 | 3040.1 | 3039.0 |
| 20° | 3014.4 | 3038.0 | 3052.4 | 3073.9 | 3097.4 | 3114.3 | 3118.8 | 3118.8 |
| 22.5° | 3132.3 | 3145.7 | 3148.0 | 3154.8 | 3173.8 | 3196.3 | 3206.3 | 3208.6 |
| 25° | 3262.5 | 3265.9 | 3256.9 | 3256.9 | 3269.2 | 3290.6 | 3300.7 | 3301.9 |
| 27.5° | 3431.0 | 3414.2 | 3391.6 | 3383.8 | 3391.6 | 3416.4 | 3428.8 | 3433.3 |
| 30° | 3640.9 | 3600.5 | 3549.0 | 3520.9 | 3516.3 | 3549.0 | 3571.3 | 3574.8 |
| 32.5° | 3881.3 | 3823.0 | 3754.4 | 3697.2 | 3682.6 | 3702.8 | 3729.7 | 3728.6 |
| 35° | 4166.6 | 4097.0 | 4013.8 | 3940.9 | 3907.1 | 3927.5 | 3965.6 | 3970.1 |
| 37.5° | 4495.7 | 4404.7 | 4309.1 | 4217.1 | 4164.3 | 4170.0 | 4210.5 | 4223.9 |
| 40° | 4862.9 | 4745.0 | 4624.8 | 4501.3 | 4426.0 | 4411.5 | 4460.8 | 4468.7 |
| 42.5° | 5256.0 | 5104.4 | 4952.7 | 4800.0 | 4703.4 | 4681.0 | 4738.2 | 4734.9 |
| 45° | 5674.9 | 5481.7 | 5304.3 | 5135.8 | 5021.2 | 4987.5 | 5034.7 | 5034.7 |
| 47.5° | 6125.2 | 5887.1 | 5676.0 | 5485.1 | 5360.4 | 5312.0 | 5357.1 | 5360.4 |
| 50° | 6602.5 | 6349.8 | 6101.7 | 5889.4 | 5740.1 | 5678.2 | 5736.6 | 5745.6 |
| 52.5° | 7077.6 | 6831.7 | 6581.2 | 6338.5 | 6157.9 | 6082.6 | 6149.9 | 6179.1 |
| 55° | 7559.4 | 7317.9 | 7078.7 | 6841.7 | 6627.2 | 6538.5 | 6610.4 | 6647.5 |
| 57.5° | 8068.1 | 7844.7 | 7616.7 | 7377.4 | 7170.8 | 7032.7 | 7109.1 | 7158.4 |
| 60° | 8664.5 | 8473.6 | 8236.6 | 7972.6 | 7763.8 | 7623.4 | 7667.2 | 7711.0 |
| 62.5° | 9136.1 | 9210.3 | 9009.3 | 8703.8 | 8435.4 | 8255.7 | 8298.3 | 8344.4 |
| 65° | 8908.2 | 9668.6 | 9847.1 | 9538.3 | 9166.6 | 8886.8 | 8868.9 | 8892.5 |
| 67.5° | 7445.9 | 8922.7 | 9999.9 | 10294.1 | 9983.0 | 9594.4 | 9522.5 | 9557.4 |
| 70° | 4980.8 | 6820.4 | 8720.6 | 10135.8 | 10512.0 | 10361.5 | 10290.7 | 10312.0 |
| 72.5° | 2392.1 | 3972.3 | 5916.4 | 7797.5 | 8943.0 | 9468.6 | 9637.1 | 9719.0 |
| 75° | 874.8 | 1576.8 | 2851.4 | 4296.8 | 5187.4 | 6005.1 | 6538.5 | 6756.4 |
| 77.5° | 527.8 | 636.8 | 910.7 | 1371.3 | 1553.2 | 1738.6 | 1666.6 | 1702.6 |
| 80° | 390.8 | 441.4 | 499.8 | 561.5 | 581.7 | 581.7 | 559.3 | 541.3 |
| 82.5° | 274.0 | 306.6 | 334.7 | 368.3 | 377.4 | 360.5 | 296.5 | 235.9 |
| 85° | 176.4 | 190.8 | 203.2 | 224.6 | 218.9 | 208.9 | 140.4 | 124.7 |
| 87.5° | 80.9 | 92.1 | 96.5 | 106.7 | 102.1 | 97.7 | 69.6 | 58.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)