

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: P191795

Luminaire Tested: **GAN-AF-07-LED-U-RW-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191795
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-07-LED-U-RW-7050-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28356 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

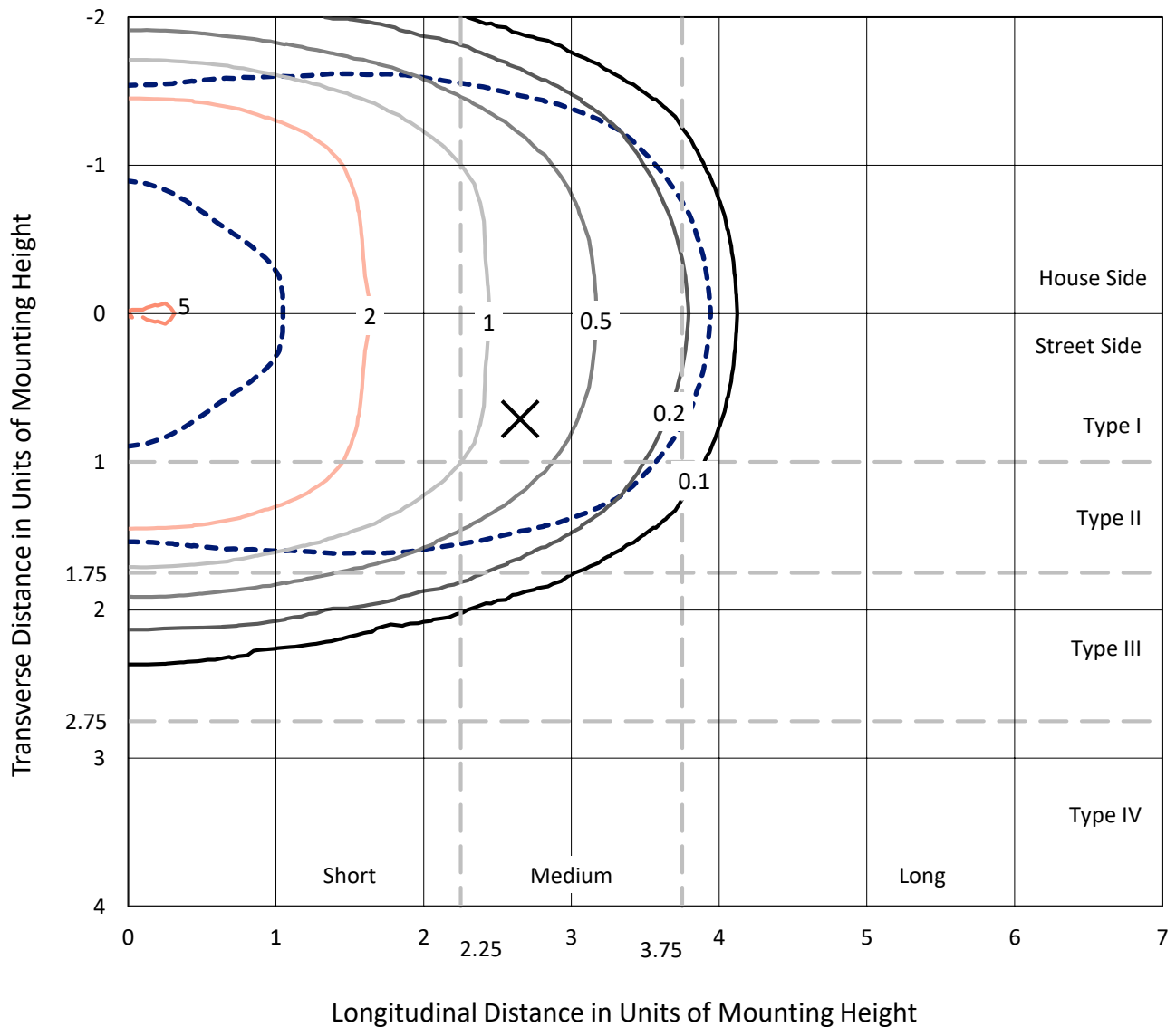
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

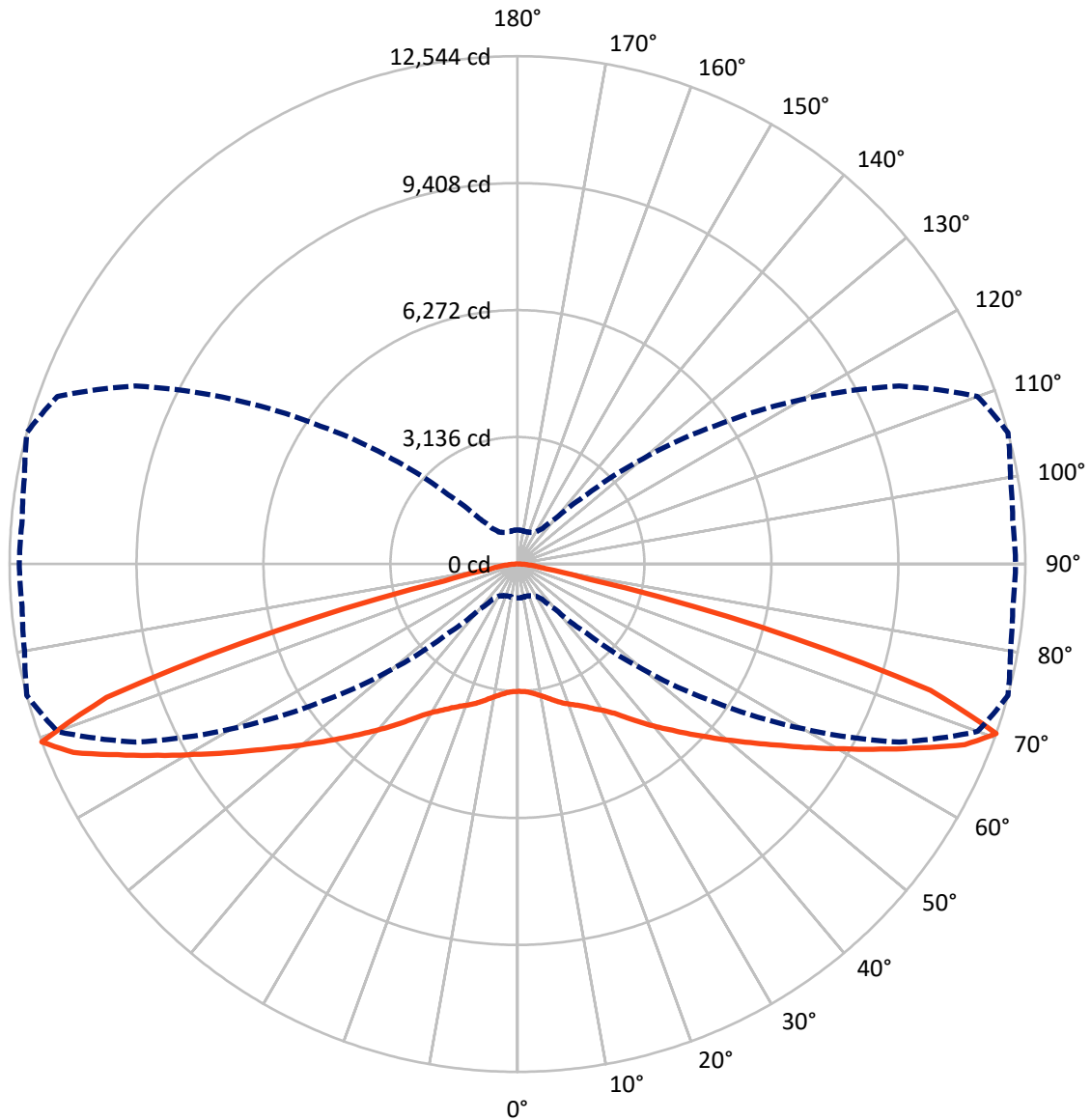
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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 | 14178.0 | 0.0 | 14178.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14178.0 | 0.0 | 14178.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28356.0 | 0.0 | 28356.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 301.7 | 1.1 |
| 10°-20° | 937.3 | 3.3 |
| 20°-30° | 1764.2 | 6.2 |
| 30°-40° | 3124.0 | 11.0 |
| 40°-50° | 5224.3 | 18.4 |
| 50°-60° | 7280.1 | 25.7 |
| 60°-70° | 6751.1 | 23.8 |
| 70°-80° | 2690.5 | 9.5 |
| 80°-90° | 282.8 | 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° | 28356.0 | 100.0 |
| 0°-180° | 28356.0 | 100.0 |

Coefficient of Utilization



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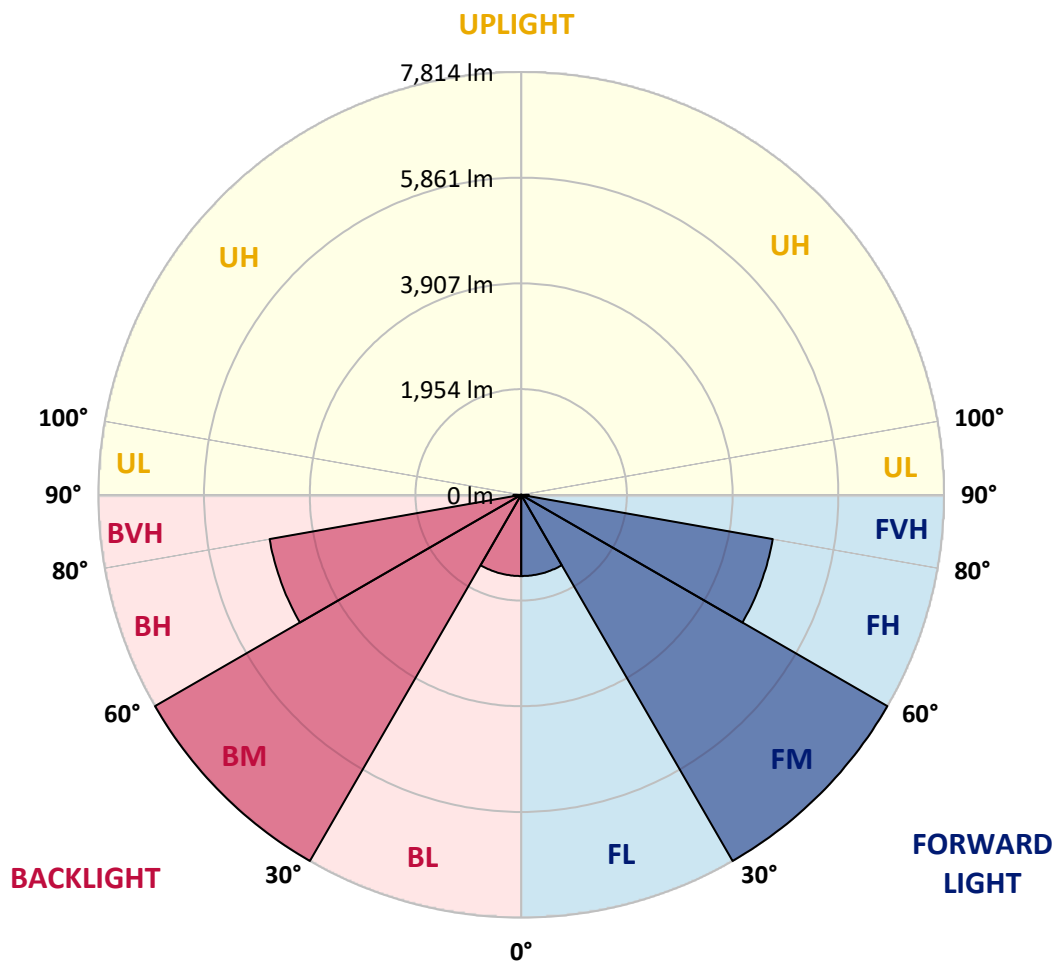
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1501.6 | 5.3 | | | |
| FM | (30°-60°) | 7814.2 | 27.6 | | | |
| FH | (60°-80°) | 4720.8 | 16.6 | | | G2/5000 |
| FVH | (80°-90°) | 141.4 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 1501.6 | 5.3 | B3/2500 | | |
| BM | (30°-60°) | 7814.2 | 27.6 | B4/8500 | | |
| BH | (60°-80°) | 4720.8 | 16.6 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 141.4 | 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° | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 |
| 2.5° | 3140.0 | 3137.3 | 3140.0 | 3138.6 | 3141.3 | 3141.3 | 3144.0 | 3149.4 | 3149.4 | 3153.4 | 3152.0 |
| 5° | 3109.2 | 3107.8 | 3111.8 | 3115.9 | 3119.9 | 3127.9 | 3136.0 | 3148.0 | 3157.4 | 3164.1 | 3170.8 |
| 7.5° | 3048.9 | 3048.9 | 3054.2 | 3063.6 | 3073.0 | 3090.4 | 3109.2 | 3133.3 | 3157.4 | 3177.5 | 3194.9 |
| 10° | 2999.3 | 3001.9 | 3008.6 | 3024.7 | 3040.8 | 3067.6 | 3093.1 | 3127.9 | 3161.4 | 3194.9 | 3221.7 |
| 12.5° | 2969.8 | 2973.8 | 2985.9 | 3010.0 | 3036.8 | 3073.0 | 3111.8 | 3156.1 | 3193.6 | 3233.8 | 3260.6 |
| 15° | 2979.2 | 2981.8 | 2999.3 | 3028.7 | 3063.6 | 3109.2 | 3161.4 | 3213.7 | 3257.9 | 3300.8 | 3337.0 |
| 17.5° | 3031.4 | 3035.4 | 3055.6 | 3089.1 | 3125.2 | 3178.8 | 3235.1 | 3294.1 | 3349.0 | 3397.3 | 3441.5 |
| 20° | 3125.2 | 3129.3 | 3154.7 | 3190.9 | 3233.8 | 3288.7 | 3345.0 | 3406.7 | 3468.3 | 3519.2 | 3568.8 |
| 22.5° | 3257.9 | 3264.6 | 3288.7 | 3324.9 | 3373.2 | 3432.1 | 3499.1 | 3564.8 | 3623.8 | 3670.7 | 3714.9 |
| 25° | 3432.1 | 3446.9 | 3469.7 | 3509.9 | 3560.8 | 3614.4 | 3686.8 | 3753.8 | 3810.1 | 3854.3 | 3886.4 |
| 27.5° | 3678.7 | 3698.8 | 3716.2 | 3755.1 | 3804.7 | 3855.6 | 3928.0 | 3987.0 | 4040.6 | 4083.4 | 4107.6 |
| 30° | 4005.7 | 4025.8 | 4043.2 | 4080.8 | 4126.3 | 4174.6 | 4242.9 | 4295.2 | 4328.7 | 4362.2 | 4360.9 |
| 32.5° | 4402.4 | 4423.8 | 4430.5 | 4470.8 | 4517.7 | 4569.9 | 4631.6 | 4661.1 | 4687.9 | 4691.9 | 4667.8 |
| 35° | 4846.0 | 4856.7 | 4883.5 | 4937.1 | 4990.7 | 5033.6 | 5092.6 | 5107.3 | 5107.3 | 5087.2 | 5033.6 |
| 37.5° | 5332.5 | 5339.2 | 5376.7 | 5437.0 | 5492.0 | 5536.2 | 5576.4 | 5605.9 | 5591.1 | 5548.2 | 5458.4 |
| 40° | 5865.9 | 5877.9 | 5931.5 | 5985.1 | 6046.8 | 6088.3 | 6131.2 | 6136.6 | 6121.8 | 6058.8 | 5936.9 |
| 42.5° | 6375.1 | 6385.8 | 6439.4 | 6523.9 | 6604.3 | 6661.9 | 6702.1 | 6710.2 | 6663.2 | 6605.6 | 6454.2 |
| 45° | 6813.3 | 6841.5 | 6911.2 | 7010.3 | 7126.9 | 7208.7 | 7263.6 | 7286.4 | 7244.9 | 7169.8 | 6994.3 |
| 47.5° | 7160.4 | 7188.6 | 7287.8 | 7405.7 | 7550.4 | 7683.1 | 7774.2 | 7822.5 | 7811.8 | 7755.5 | 7563.8 |
| 50° | 7415.1 | 7441.9 | 7549.1 | 7693.8 | 7862.7 | 8027.5 | 8183.0 | 8298.2 | 8338.4 | 8313.0 | 8137.4 |
| 52.5° | 7444.6 | 7488.8 | 7614.8 | 7809.1 | 8028.9 | 8254.0 | 8475.1 | 8670.8 | 8803.5 | 8823.6 | 8693.6 |
| 55° | 7033.1 | 7077.4 | 7251.6 | 7539.7 | 7866.7 | 8233.9 | 8587.7 | 8917.4 | 9178.7 | 9312.7 | 9244.4 |
| 57.5° | 6062.9 | 6141.9 | 6325.5 | 6663.2 | 7144.4 | 7693.8 | 8258.0 | 8843.7 | 9375.7 | 9730.9 | 9799.2 |
| 60° | 4646.3 | 4740.1 | 4925.1 | 5284.2 | 5820.3 | 6475.6 | 7228.8 | 8094.5 | 9034.0 | 9832.7 | 10309.8 |
| 62.5° | 2980.5 | 3069.0 | 3263.3 | 3575.5 | 4012.4 | 4722.7 | 5530.8 | 6558.7 | 7821.1 | 9082.2 | 10218.7 |
| 65° | 1531.8 | 1580.0 | 1681.9 | 1870.9 | 2211.3 | 2742.0 | 3467.0 | 4492.2 | 5935.5 | 7491.5 | 9134.5 |
| 67.5° | 970.3 | 979.7 | 1002.4 | 1029.2 | 1116.3 | 1299.9 | 1637.7 | 2276.9 | 3464.3 | 5087.2 | 7010.3 |
| 70° | 838.9 | 838.9 | 828.2 | 824.2 | 834.9 | 860.4 | 912.6 | 1061.4 | 1462.1 | 2415.0 | 4043.2 |
| 72.5° | 767.9 | 759.9 | 741.1 | 726.4 | 723.7 | 723.7 | 734.4 | 757.2 | 821.5 | 983.7 | 1582.7 |
| 75° | 707.6 | 684.8 | 659.4 | 641.9 | 635.2 | 628.5 | 627.2 | 631.2 | 644.6 | 670.1 | 755.8 |
| 77.5° | 633.9 | 604.4 | 574.9 | 557.5 | 549.5 | 540.1 | 532.0 | 522.7 | 516.0 | 524.0 | 561.5 |
| 80° | 545.4 | 511.9 | 489.2 | 478.4 | 470.4 | 457.0 | 439.6 | 423.5 | 408.7 | 406.1 | 428.8 |
| 82.5° | 439.6 | 400.7 | 402.0 | 406.1 | 391.3 | 372.6 | 353.8 | 336.4 | 310.9 | 297.5 | 310.9 |
| 85° | 355.1 | 335.0 | 325.7 | 351.1 | 329.7 | 301.5 | 272.1 | 241.2 | 201.0 | 168.9 | 183.6 |
| 87.5° | 138.0 | 138.0 | 206.4 | 317.6 | 285.5 | 233.2 | 199.7 | 170.2 | 105.9 | 81.7 | 83.1 |
| 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° | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 | 3145.3 |
| 2.5° | 3150.7 | 3153.4 | 3152.0 | 3150.7 | 3150.7 | 3149.4 | 3150.7 | 3150.7 |
| 5° | 3174.8 | 3181.5 | 3181.5 | 3184.2 | 3184.2 | 3185.5 | 3186.9 | 3185.5 |
| 7.5° | 3211.0 | 3223.1 | 3231.1 | 3240.5 | 3241.8 | 3243.2 | 3245.9 | 3243.2 |
| 10° | 3247.2 | 3271.3 | 3288.7 | 3306.2 | 3314.2 | 3316.9 | 3319.6 | 3319.6 |
| 12.5° | 3292.8 | 3326.3 | 3357.1 | 3387.9 | 3402.7 | 3410.7 | 3410.7 | 3416.1 |
| 15° | 3367.8 | 3401.3 | 3437.5 | 3479.0 | 3504.5 | 3517.9 | 3521.9 | 3521.9 |
| 17.5° | 3473.7 | 3503.2 | 3534.0 | 3574.2 | 3606.4 | 3623.8 | 3627.8 | 3626.5 |
| 20° | 3597.0 | 3625.1 | 3642.5 | 3668.0 | 3696.1 | 3716.2 | 3721.6 | 3721.6 |
| 22.5° | 3737.7 | 3753.8 | 3756.5 | 3764.5 | 3787.3 | 3814.1 | 3826.1 | 3828.8 |
| 25° | 3893.1 | 3897.2 | 3886.4 | 3886.4 | 3901.2 | 3926.7 | 3938.7 | 3940.1 |
| 27.5° | 4094.2 | 4074.1 | 4047.3 | 4037.9 | 4047.3 | 4076.7 | 4091.5 | 4096.9 |
| 30° | 4344.8 | 4296.5 | 4234.9 | 4201.4 | 4196.0 | 4234.9 | 4261.7 | 4265.7 |
| 32.5° | 4631.6 | 4561.9 | 4480.1 | 4411.8 | 4394.4 | 4418.5 | 4450.7 | 4449.3 |
| 35° | 4972.0 | 4888.9 | 4789.7 | 4702.6 | 4662.4 | 4686.5 | 4732.1 | 4737.4 |
| 37.5° | 5364.6 | 5256.1 | 5142.2 | 5032.3 | 4969.3 | 4976.0 | 5024.2 | 5040.3 |
| 40° | 5802.9 | 5662.2 | 5518.8 | 5371.3 | 5281.5 | 5264.1 | 5323.1 | 5332.5 |
| 42.5° | 6271.9 | 6091.0 | 5910.1 | 5727.8 | 5612.6 | 5585.8 | 5654.1 | 5650.1 |
| 45° | 6771.8 | 6541.3 | 6329.5 | 6128.5 | 5991.8 | 5951.6 | 6007.9 | 6007.9 |
| 47.5° | 7309.2 | 7025.1 | 6773.1 | 6545.3 | 6396.6 | 6338.9 | 6392.5 | 6396.6 |
| 50° | 7878.8 | 7577.2 | 7281.1 | 7027.8 | 6849.5 | 6775.8 | 6845.5 | 6856.2 |
| 52.5° | 8445.6 | 8152.2 | 7853.3 | 7563.8 | 7348.1 | 7258.3 | 7338.7 | 7373.5 |
| 55° | 9020.6 | 8732.4 | 8447.0 | 8164.2 | 7908.2 | 7802.4 | 7888.1 | 7932.4 |
| 57.5° | 9627.7 | 9361.0 | 9088.9 | 8803.5 | 8556.9 | 8392.0 | 8483.2 | 8542.1 |
| 60° | 10339.3 | 10111.5 | 9828.7 | 9513.8 | 9264.5 | 9097.0 | 9149.2 | 9201.5 |
| 62.5° | 10902.2 | 10990.6 | 10750.7 | 10386.2 | 10065.9 | 9851.5 | 9902.4 | 9957.3 |
| 65° | 10630.1 | 11537.4 | 11750.5 | 11381.9 | 10938.3 | 10604.6 | 10583.2 | 10611.3 |
| 67.5° | 8885.2 | 10647.5 | 11932.7 | 12283.9 | 11912.6 | 11448.9 | 11363.2 | 11404.7 |
| 70° | 5943.6 | 8138.8 | 10406.3 | 12094.9 | 12543.8 | 12364.3 | 12279.8 | 12305.3 |
| 72.5° | 2854.5 | 4740.1 | 7059.9 | 9304.7 | 10671.6 | 11298.8 | 11499.9 | 11597.7 |
| 75° | 1044.0 | 1881.6 | 3402.7 | 5127.4 | 6190.2 | 7165.8 | 7802.4 | 8062.4 |
| 77.5° | 629.9 | 759.9 | 1086.9 | 1636.3 | 1853.4 | 2074.6 | 1988.8 | 2031.7 |
| 80° | 466.4 | 526.7 | 596.4 | 670.1 | 694.2 | 694.2 | 667.4 | 646.0 |
| 82.5° | 327.0 | 365.9 | 399.4 | 439.6 | 450.3 | 430.2 | 353.8 | 281.4 |
| 85° | 210.4 | 227.8 | 242.6 | 268.0 | 261.3 | 249.3 | 167.5 | 148.8 |
| 87.5° | 96.5 | 109.9 | 115.3 | 127.3 | 122.0 | 116.6 | 83.1 | 69.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)