

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: P481064

Luminaire Tested: **IFLD-M-SA4C-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481064
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

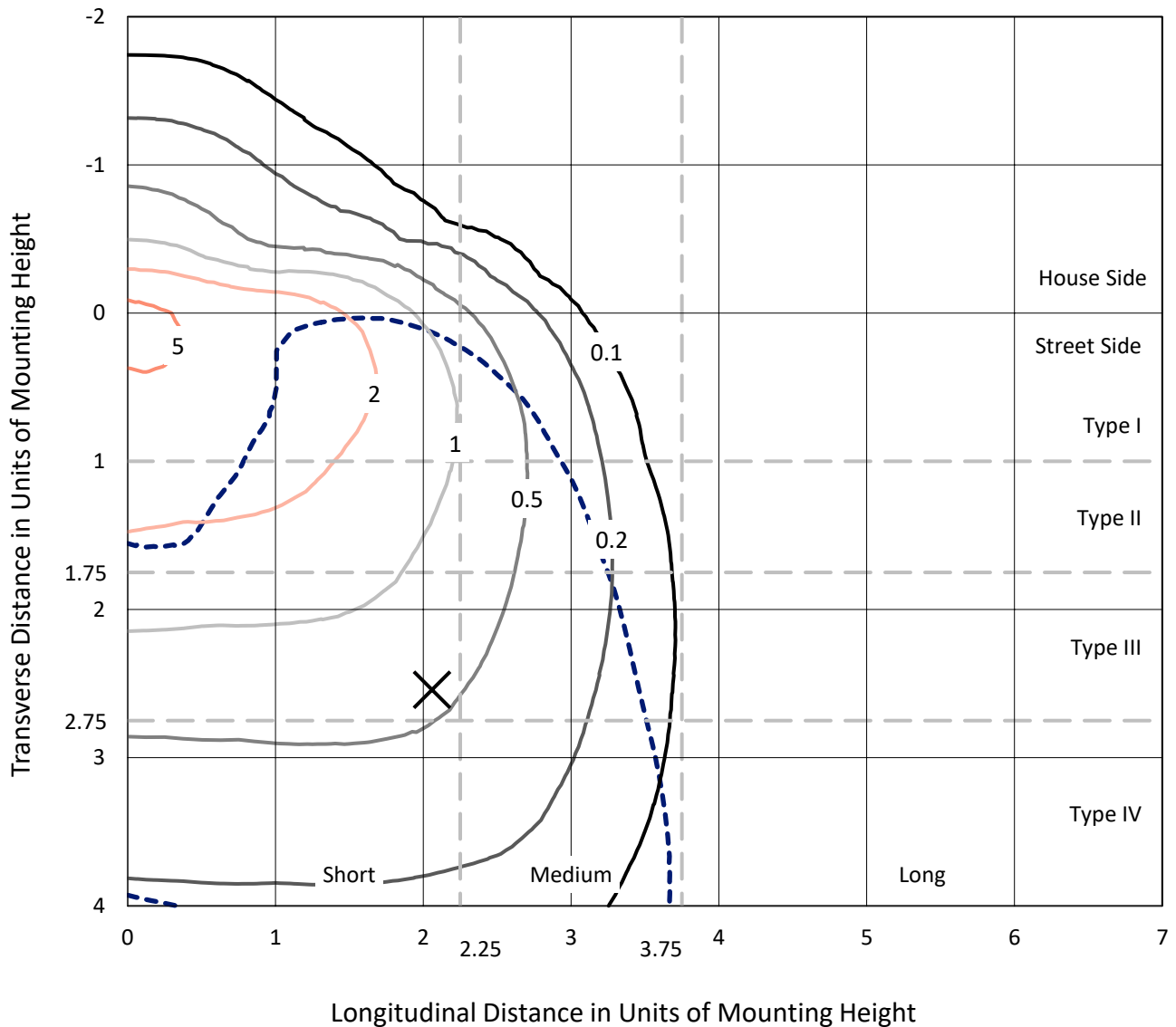
Lumens per Lamp: N/A
Luminaire Lumens: 21852.6 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

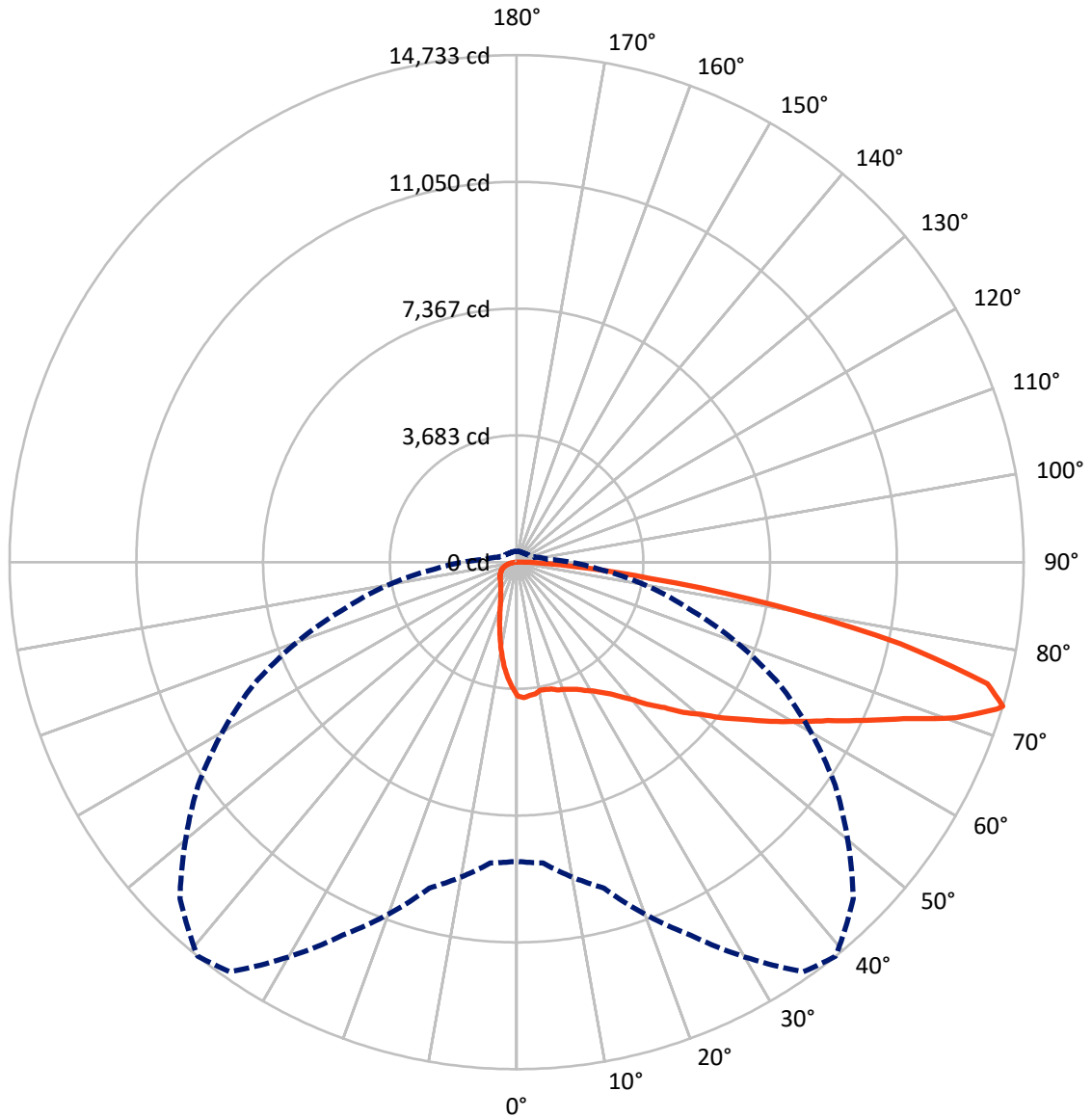
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3071.9 | 0.0 | 3071.9 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 18780.7 | 0.0 | 18780.7 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 21852.6 | 0.0 | 21852.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 337.7 | 1.5 |
| 10°-20° | 858.4 | 3.9 |
| 20°-30° | 1311.8 | 6.0 |
| 30°-40° | 1912.6 | 8.8 |
| 40°-50° | 2890.1 | 13.2 |
| 50°-60° | 4185.0 | 19.2 |
| 60°-70° | 5317.3 | 24.3 |
| 70°-80° | 4310.5 | 19.7 |
| 80°-90° | 729.3 | 3.3 |
| 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° | 21852.6 | 100.0 |
| 0°-180° | 21852.6 | 100.0 |

Coefficient of Utilization



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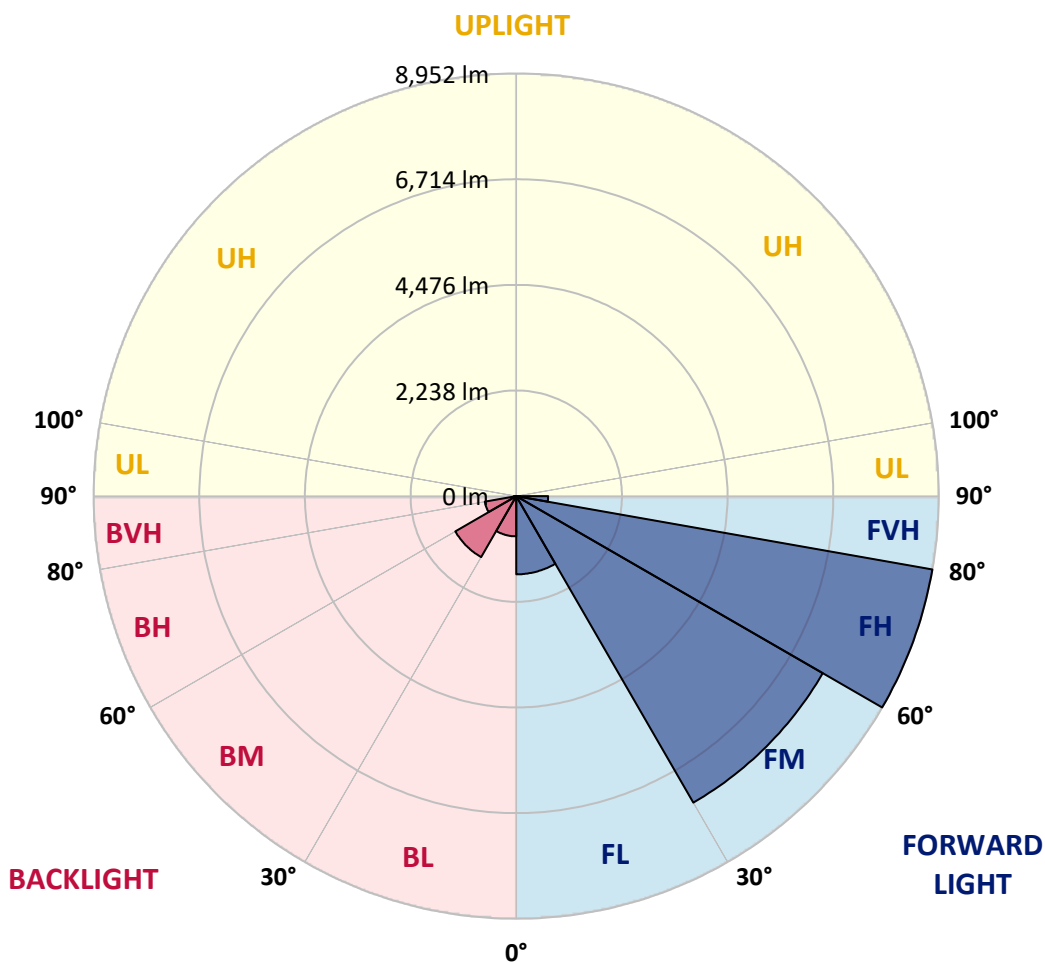
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1655.9 | 7.6 | | | |
| FM | (30°-60°) | 7496.8 | 34.3 | | | |
| FH | (60°-80°) | 8952.1 | 41.0 | | | G4/12000 |
| FVH | (80°-90°) | 675.8 | 3.1 | | | G4/750 |
| BL | (0°-30°) | 851.9 | 3.9 | B2/1000 | | |
| BM | (30°-60°) | 1490.9 | 6.8 | B2/2500 | | |
| BH | (60°-80°) | 675.6 | 3.1 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 53.5 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 |
| 2.5° | 3982.8 | 3941.2 | 3948.6 | 3933.9 | 3948.6 | 3943.7 | 3936.4 | 3899.7 | 3936.4 | 3899.7 | 3889.9 |
| 5° | 3929.0 | 3929.0 | 3953.5 | 3916.8 | 3921.7 | 3897.2 | 3921.7 | 3894.8 | 3870.3 | 3809.2 | 3792.1 |
| 7.5° | 3911.9 | 3909.5 | 3911.9 | 3860.6 | 3885.0 | 3870.3 | 3845.9 | 3816.5 | 3767.7 | 3728.5 | 3672.3 |
| 10° | 3794.5 | 3819.0 | 3792.1 | 3806.8 | 3826.3 | 3782.3 | 3779.9 | 3772.5 | 3750.5 | 3699.2 | 3665.0 |
| 12.5° | 3731.0 | 3772.5 | 3787.2 | 3775.0 | 3792.1 | 3797.0 | 3782.3 | 3772.5 | 3745.6 | 3711.4 | 3613.6 |
| 15° | 3757.9 | 3709.0 | 3750.5 | 3831.2 | 3814.1 | 3826.3 | 3828.8 | 3819.0 | 3806.8 | 3743.2 | 3679.6 |
| 17.5° | 3765.2 | 3735.9 | 3823.9 | 3841.0 | 3863.0 | 3907.0 | 3877.7 | 3875.2 | 3828.8 | 3784.8 | 3691.9 |
| 20° | 3782.3 | 3770.1 | 3841.0 | 3931.5 | 3933.9 | 3941.2 | 3955.9 | 3919.2 | 3894.8 | 3819.0 | 3677.2 |
| 22.5° | 3845.9 | 3887.5 | 3953.5 | 3992.6 | 4014.6 | 4019.5 | 4019.5 | 3946.1 | 3919.2 | 3858.1 | 3745.6 |
| 25° | 4036.6 | 3992.6 | 4085.5 | 4131.9 | 4100.2 | 4092.8 | 4075.7 | 4009.7 | 3980.4 | 3926.6 | 3777.4 |
| 27.5° | 4176.0 | 4173.5 | 4227.3 | 4290.9 | 4205.3 | 4222.4 | 4161.3 | 4141.7 | 4075.7 | 4046.4 | 3833.7 |
| 30° | 4366.7 | 4420.4 | 4418.0 | 4437.6 | 4325.1 | 4344.7 | 4266.4 | 4229.7 | 4193.1 | 4210.2 | 3999.9 |
| 32.5° | 4611.2 | 4591.6 | 4623.4 | 4608.7 | 4496.2 | 4513.4 | 4420.4 | 4364.2 | 4376.4 | 4427.8 | 4227.3 |
| 35° | 4767.6 | 4748.1 | 4760.3 | 4760.3 | 4726.1 | 4706.5 | 4667.4 | 4594.0 | 4652.7 | 4748.1 | 4481.6 |
| 37.5° | 4936.3 | 4960.8 | 5031.7 | 5017.0 | 4973.0 | 4973.0 | 4968.1 | 4916.8 | 4992.6 | 5227.3 | 4887.4 |
| 40° | 5085.5 | 5151.5 | 5195.5 | 5224.8 | 5276.2 | 5276.2 | 5317.7 | 5288.4 | 5425.3 | 5801.8 | 5383.8 |
| 42.5° | 5241.9 | 5244.4 | 5484.0 | 5506.0 | 5620.9 | 5669.8 | 5701.6 | 5726.0 | 5982.8 | 6403.3 | 5914.3 |
| 45° | 5442.4 | 5454.7 | 5664.9 | 5833.6 | 6012.1 | 6029.2 | 6149.0 | 6229.7 | 6545.1 | 7061.0 | 6491.3 |
| 47.5° | 5706.5 | 5691.8 | 5916.8 | 6185.7 | 6408.2 | 6525.5 | 6669.8 | 6757.8 | 7146.6 | 7774.9 | 7122.1 |
| 50° | 6053.7 | 6009.7 | 6139.2 | 6562.2 | 6823.8 | 6953.4 | 7210.1 | 7356.8 | 7811.6 | 8457.0 | 7554.9 |
| 52.5° | 6476.6 | 6403.3 | 6506.0 | 6968.1 | 7261.5 | 7523.1 | 7767.6 | 7931.4 | 8405.7 | 8985.1 | 7875.1 |
| 55° | 6924.1 | 6772.5 | 6801.8 | 7398.4 | 7821.4 | 8068.3 | 8403.3 | 8574.4 | 9058.5 | 9459.5 | 8195.4 |
| 57.5° | 7366.6 | 7271.2 | 7212.6 | 7811.6 | 8488.8 | 8726.0 | 9034.0 | 9256.5 | 9667.3 | 9880.0 | 8466.8 |
| 60° | 7738.2 | 7713.8 | 7618.4 | 8452.2 | 9195.4 | 9398.3 | 9721.1 | 9858.0 | 10168.5 | 10268.7 | 8471.7 |
| 62.5° | 8043.8 | 7960.7 | 8112.3 | 8968.0 | 9914.2 | 10144.1 | 10498.6 | 10510.8 | 10730.8 | 10510.8 | 8222.3 |
| 65° | 8283.5 | 8288.3 | 8530.4 | 9591.5 | 10745.5 | 11085.4 | 11371.4 | 11339.6 | 11197.8 | 10366.5 | 7633.1 |
| 67.5° | 8501.1 | 8594.0 | 8948.5 | 10276.1 | 11813.9 | 12134.2 | 12452.1 | 12031.5 | 11325.0 | 9691.7 | 6481.5 |
| 70° | 8672.2 | 8765.1 | 9513.3 | 11109.8 | 13073.1 | 13542.5 | 13613.4 | 12305.4 | 10740.6 | 8210.1 | 4889.9 |
| 72.5° | 8652.6 | 8821.3 | 9833.5 | 11774.8 | 14190.4 | 14596.3 | 14024.2 | 11535.2 | 8948.5 | 5723.6 | 2853.2 |
| 73° | 8694.2 | 8777.3 | 9806.6 | 11960.6 | 14530.3 | 14733.2 | 13833.5 | 11293.2 | 8439.9 | 5134.4 | 2413.2 |
| 75° | 7892.3 | 8173.4 | 9320.1 | 11657.5 | 14166.0 | 14129.3 | 12738.1 | 9410.6 | 5999.9 | 2696.8 | 1168.7 |
| 77.5° | 5838.5 | 6017.0 | 7344.6 | 9586.6 | 11628.1 | 11393.4 | 9608.6 | 6014.5 | 2848.4 | 1000.0 | 630.8 |
| 80° | 2853.2 | 2992.6 | 3892.3 | 5535.3 | 7603.8 | 7623.3 | 5963.2 | 3129.5 | 1220.0 | 564.8 | 430.3 |
| 82.5° | 1425.4 | 1508.5 | 1870.4 | 2432.7 | 3740.8 | 3919.2 | 3024.4 | 1779.9 | 755.5 | 320.3 | 244.5 |
| 85° | 931.5 | 990.2 | 1151.6 | 1190.7 | 1586.8 | 1674.8 | 1408.3 | 1388.7 | 491.4 | 173.6 | 198.0 |
| 87.5° | 618.6 | 628.3 | 706.6 | 601.5 | 635.7 | 611.2 | 679.7 | 875.3 | 144.3 | 73.3 | 53.8 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 | 3889.9 |
| 2.5° | 3877.7 | 3843.4 | 3806.8 | 3755.4 | 3718.8 | 3662.5 | 3611.2 | 3589.2 | 3584.3 | 3586.7 | 3562.3 |
| 5° | 3777.4 | 3728.5 | 3655.2 | 3550.1 | 3488.9 | 3396.0 | 3317.8 | 3276.2 | 3232.2 | 3239.5 | 3220.0 |
| 7.5° | 3638.1 | 3584.3 | 3471.8 | 3349.6 | 3198.0 | 3066.0 | 2992.6 | 2889.9 | 2831.2 | 2787.2 | 2811.7 |
| 10° | 3594.1 | 3501.2 | 3332.5 | 3163.8 | 2929.0 | 2755.4 | 2586.7 | 2469.4 | 2388.7 | 2310.5 | 2344.7 |
| 12.5° | 3572.1 | 3479.1 | 3244.4 | 2995.0 | 2691.9 | 2427.8 | 2190.7 | 2046.4 | 1931.5 | 1863.0 | 1889.9 |
| 15° | 3552.5 | 3437.6 | 3161.3 | 2809.2 | 2469.4 | 2122.2 | 1855.7 | 1665.0 | 1555.0 | 1489.0 | 1496.3 |
| 17.5° | 3579.4 | 3415.6 | 3039.1 | 2628.3 | 2224.9 | 1853.3 | 1557.4 | 1359.4 | 1246.9 | 1205.4 | 1195.6 |
| 20° | 3552.5 | 3391.1 | 2919.3 | 2447.4 | 1980.4 | 1596.5 | 1312.9 | 1149.1 | 1070.9 | 1036.7 | 1029.3 |
| 22.5° | 3562.3 | 3332.5 | 2794.6 | 2246.9 | 1753.0 | 1381.4 | 1149.1 | 1024.4 | 963.3 | 946.2 | 951.1 |
| 25° | 3608.7 | 3298.2 | 2669.9 | 2026.9 | 1528.1 | 1222.5 | 1044.0 | 948.6 | 904.6 | 887.5 | 892.4 |
| 27.5° | 3643.0 | 3327.6 | 2557.4 | 1819.0 | 1337.4 | 1080.7 | 956.0 | 892.4 | 863.1 | 850.8 | 848.4 |
| 30° | 3728.5 | 3344.7 | 2447.4 | 1633.2 | 1180.9 | 987.8 | 894.8 | 843.5 | 823.9 | 816.6 | 814.2 |
| 32.5° | 3855.7 | 3376.5 | 2320.2 | 1462.1 | 1066.0 | 899.7 | 845.9 | 801.9 | 797.0 | 789.7 | 792.2 |
| 35° | 4063.5 | 3486.5 | 2178.4 | 1315.4 | 956.0 | 841.1 | 794.6 | 765.3 | 765.3 | 765.3 | 772.6 |
| 37.5° | 4361.8 | 3640.5 | 2051.3 | 1176.0 | 885.1 | 789.7 | 750.6 | 740.8 | 735.9 | 743.3 | 748.2 |
| 40° | 4745.6 | 3826.3 | 1948.6 | 1066.0 | 823.9 | 755.5 | 721.3 | 716.4 | 713.9 | 711.5 | 716.4 |
| 42.5° | 5166.2 | 4063.5 | 1860.6 | 980.4 | 779.9 | 718.8 | 694.4 | 689.5 | 679.7 | 684.6 | 691.9 |
| 45° | 5584.2 | 4356.9 | 1782.4 | 912.0 | 750.6 | 699.3 | 665.0 | 662.6 | 657.7 | 655.2 | 667.5 |
| 47.5° | 6048.8 | 4645.4 | 1757.9 | 870.4 | 728.6 | 669.9 | 645.5 | 643.0 | 628.3 | 625.9 | 635.7 |
| 50° | 6410.6 | 4858.1 | 1784.8 | 850.8 | 696.8 | 647.9 | 630.8 | 618.6 | 606.3 | 594.1 | 594.1 |
| 52.5° | 6660.0 | 5004.8 | 1804.4 | 836.2 | 679.7 | 618.6 | 596.6 | 591.7 | 579.5 | 567.2 | 562.3 |
| 55° | 6884.9 | 5092.8 | 1809.3 | 838.6 | 662.6 | 584.3 | 569.7 | 567.2 | 559.9 | 540.3 | 535.4 |
| 57.5° | 6960.7 | 5056.1 | 1711.5 | 816.6 | 652.8 | 562.3 | 542.8 | 547.7 | 537.9 | 520.8 | 518.3 |
| 60° | 6953.4 | 4801.9 | 1489.0 | 787.3 | 630.8 | 537.9 | 513.4 | 528.1 | 528.1 | 508.5 | 506.1 |
| 62.5° | 6530.4 | 4215.1 | 1217.6 | 731.0 | 606.3 | 513.4 | 486.5 | 508.5 | 515.9 | 503.7 | 501.2 |
| 65° | 5652.7 | 3432.7 | 1017.1 | 674.8 | 569.7 | 486.5 | 459.6 | 484.1 | 496.3 | 491.4 | 489.0 |
| 67.5° | 4677.2 | 2625.9 | 845.9 | 601.5 | 523.2 | 449.9 | 427.9 | 445.0 | 452.3 | 454.8 | 457.2 |
| 70° | 3305.6 | 1748.1 | 706.6 | 520.8 | 459.6 | 410.7 | 386.3 | 388.7 | 386.3 | 393.6 | 393.6 |
| 72.5° | 1797.0 | 1007.3 | 574.6 | 442.5 | 396.1 | 357.0 | 339.8 | 327.6 | 327.6 | 325.2 | 325.2 |
| 73° | 1537.9 | 904.6 | 547.7 | 430.3 | 379.0 | 347.2 | 327.6 | 317.8 | 317.8 | 315.4 | 313.0 |
| 75° | 863.1 | 662.6 | 469.4 | 369.2 | 327.6 | 303.2 | 288.5 | 273.8 | 271.4 | 271.4 | 271.4 |
| 77.5° | 567.2 | 515.9 | 374.1 | 295.8 | 264.1 | 242.0 | 237.2 | 222.5 | 222.5 | 222.5 | 220.0 |
| 80° | 425.4 | 405.9 | 288.5 | 224.9 | 202.9 | 185.8 | 180.9 | 171.1 | 168.7 | 158.9 | 161.4 |
| 82.5° | 283.6 | 320.3 | 210.3 | 158.9 | 136.9 | 127.1 | 127.1 | 124.7 | 117.4 | 105.1 | 105.1 |
| 85° | 224.9 | 261.6 | 151.6 | 97.8 | 80.7 | 68.5 | 70.9 | 68.5 | 66.0 | 53.8 | 51.3 |
| 87.5° | 41.6 | 105.1 | 44.0 | 26.9 | 19.6 | 12.2 | 12.2 | 7.3 | 4.9 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)