

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: P285826

Luminaire Tested: **USSL-XL-C049-D-U-T4-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C049-D-U-T4-AP-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32296.2 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

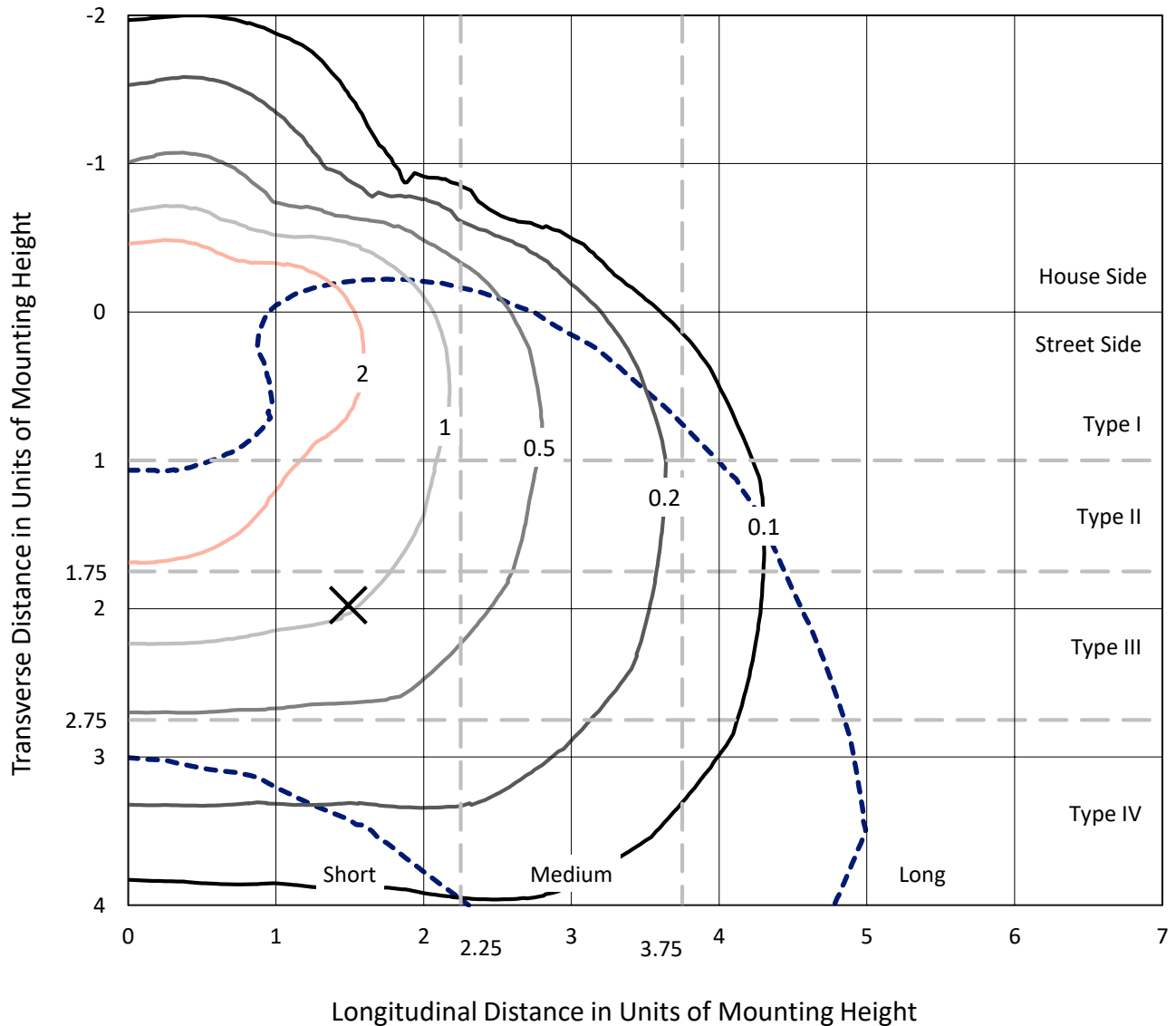
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

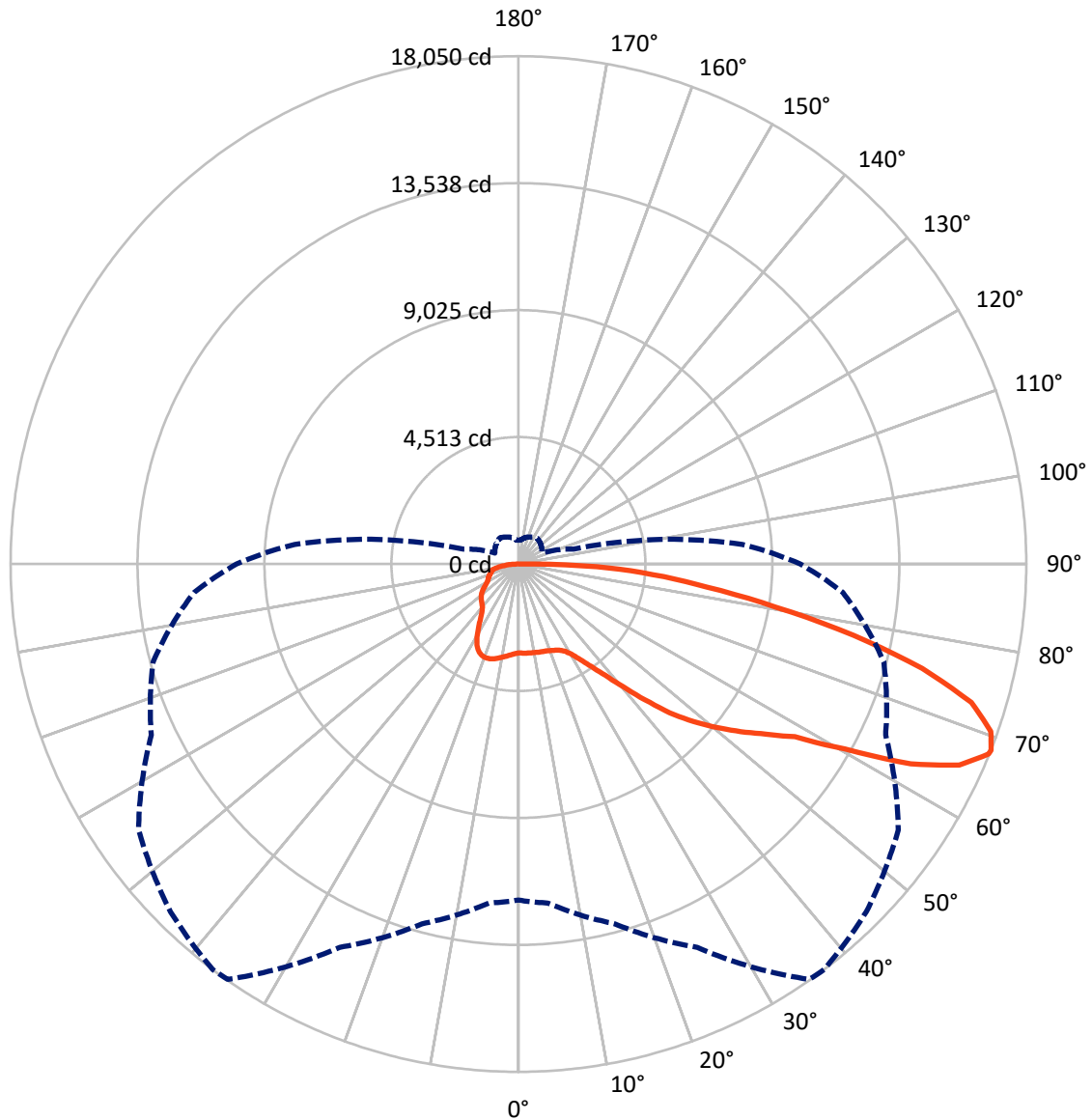


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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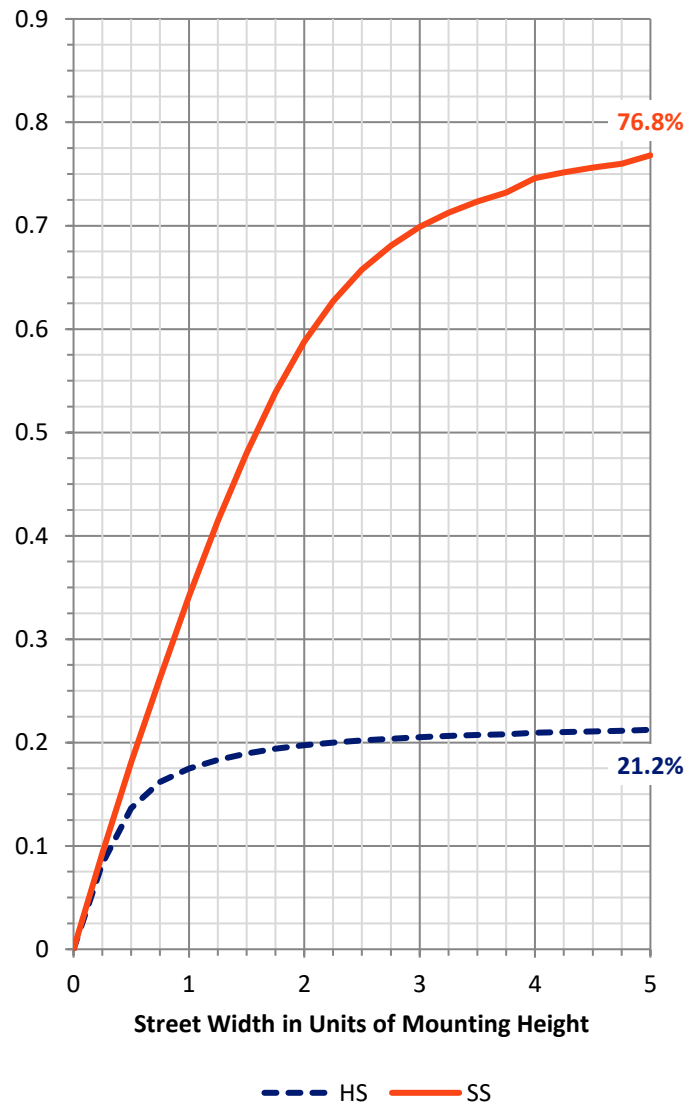
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6973.7 | 0.0 | 6973.7 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 25322.5 | 0.0 | 25322.5 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 32296.2 | 0.0 | 32296.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 306.7 | 0.9 |
| 10°-20° | 953.3 | 3.0 |
| 20°-30° | 1628.2 | 5.0 |
| 30°-40° | 2594.0 | 8.0 |
| 40°-50° | 4499.0 | 13.9 |
| 50°-60° | 6521.5 | 20.2 |
| 60°-70° | 8224.3 | 25.5 |
| 70°-80° | 6094.2 | 18.9 |
| 80°-90° | 1475.1 | 4.6 |
| 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° | 32296.2 | 100.0 |
| 0°-180° | 32296.2 | 100.0 |



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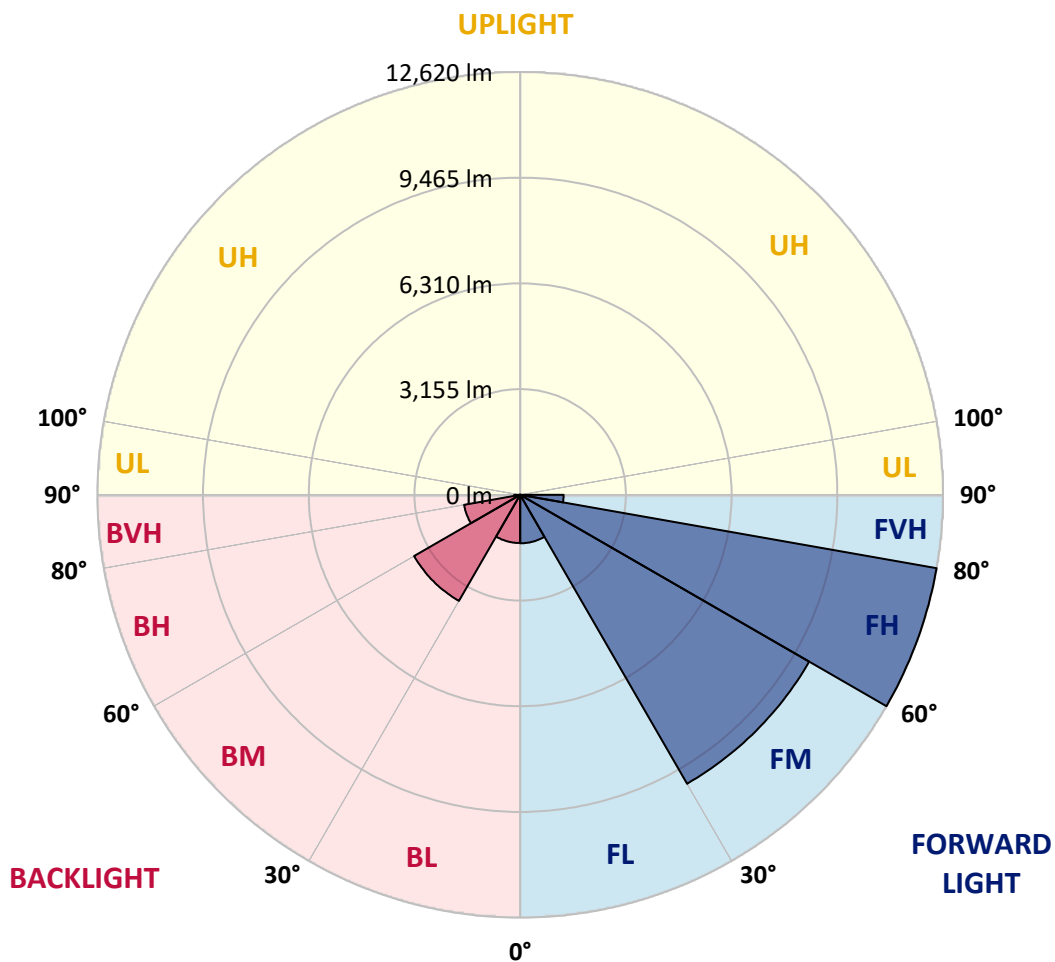
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1447.8 | 4.5 | | | |
| FM | (30°-60°) | 9958.8 | 30.8 | | | |
| FH | (60°-80°) | 12619.7 | 39.1 | | | G5 |
| FVH | (80°-90°) | 1296.3 | 4.0 | | | G5 |
| BL | (0°-30°) | 1440.3 | 4.5 | B3/2500 | | |
| BM | (30°-60°) | 3655.8 | 11.3 | B3/5000 | | |
| BH | (60°-80°) | 1698.8 | 5.3 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 178.8 | 0.6 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 37° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 |
| 2.5° | 3156.8 | 3165.5 | 3167.9 | 3163.1 | 3167.9 | 3172.9 | 3161.8 | 3160.5 | 3155.6 | 3135.8 | 3138.3 |
| 5° | 3158.1 | 3169.2 | 3170.5 | 3166.8 | 3175.4 | 3180.3 | 3175.4 | 3170.5 | 3165.5 | 3137.0 | 3143.2 |
| 7.5° | 3158.1 | 3166.8 | 3169.2 | 3166.8 | 3179.1 | 3187.8 | 3187.8 | 3191.5 | 3191.5 | 3159.3 | 3164.2 |
| 10° | 3146.9 | 3154.4 | 3158.1 | 3164.2 | 3185.3 | 3197.7 | 3205.1 | 3222.4 | 3232.3 | 3210.0 | 3211.3 |
| 12.5° | 3096.2 | 3102.4 | 3114.7 | 3150.7 | 3200.2 | 3215.0 | 3236.0 | 3266.9 | 3291.7 | 3291.7 | 3294.2 |
| 15° | 3056.6 | 3062.8 | 3086.3 | 3134.5 | 3210.0 | 3229.8 | 3270.6 | 3322.7 | 3368.5 | 3393.2 | 3413.0 |
| 17.5° | 3066.5 | 3073.9 | 3108.6 | 3149.4 | 3224.9 | 3244.7 | 3302.9 | 3378.3 | 3453.8 | 3507.0 | 3546.6 |
| 20° | 3097.5 | 3102.4 | 3142.0 | 3189.0 | 3269.5 | 3283.0 | 3340.0 | 3432.8 | 3537.9 | 3625.8 | 3690.1 |
| 22.5° | 3185.3 | 3182.8 | 3215.0 | 3233.5 | 3316.4 | 3328.8 | 3394.4 | 3489.7 | 3625.8 | 3758.3 | 3852.3 |
| 25° | 3258.3 | 3269.5 | 3295.4 | 3310.3 | 3378.3 | 3389.5 | 3471.2 | 3576.3 | 3733.5 | 3904.2 | 4055.3 |
| 27.5° | 3338.8 | 3348.6 | 3374.6 | 3408.0 | 3503.3 | 3509.5 | 3566.5 | 3696.4 | 3870.9 | 4080.0 | 4321.3 |
| 30° | 3520.7 | 3519.4 | 3545.4 | 3581.3 | 3710.0 | 3721.1 | 3774.3 | 3908.0 | 4070.1 | 4331.2 | 4622.0 |
| 32.5° | 3834.9 | 3832.5 | 3836.2 | 3885.7 | 4025.5 | 4051.6 | 4119.6 | 4296.5 | 4499.5 | 4752.0 | 5074.9 |
| 35° | 4479.7 | 4453.7 | 4404.2 | 4364.7 | 4443.8 | 4473.5 | 4622.0 | 4841.1 | 5203.7 | 5699.8 | 6099.6 |
| 37.5° | 5545.2 | 5504.4 | 5337.2 | 5110.8 | 5019.3 | 5015.6 | 5119.5 | 5452.3 | 6016.6 | 7011.6 | 7373.0 |
| 40° | 6566.1 | 6567.4 | 6340.9 | 6034.0 | 5748.2 | 5733.3 | 5673.9 | 6085.9 | 6896.6 | 8242.9 | 8412.4 |
| 42.5° | 7533.9 | 7527.6 | 7264.0 | 6983.2 | 6641.5 | 6597.0 | 6423.8 | 6740.6 | 7775.1 | 9256.4 | 9289.8 |
| 45° | 8406.3 | 8386.5 | 8103.0 | 7922.4 | 7629.2 | 7540.0 | 7309.8 | 7410.1 | 8598.0 | 10069.5 | 9951.8 |
| 47.5° | 9249.0 | 9229.2 | 8875.3 | 8700.8 | 8443.4 | 8369.1 | 8125.3 | 8169.9 | 9385.1 | 10746.3 | 10487.7 |
| 50° | 10119.0 | 10112.7 | 9600.5 | 9430.9 | 9157.4 | 9126.5 | 8979.3 | 9011.4 | 10206.8 | 11309.3 | 10986.4 |
| 52.5° | 11149.7 | 10990.1 | 10414.7 | 10090.5 | 9896.2 | 9894.9 | 9730.4 | 9813.3 | 11115.1 | 11811.8 | 11332.9 |
| 55° | 12256.0 | 12054.3 | 11465.4 | 10998.8 | 10664.7 | 10669.6 | 10413.4 | 10547.1 | 11913.3 | 12261.0 | 11664.5 |
| 57.5° | 13045.6 | 13003.5 | 12827.8 | 12361.3 | 11670.8 | 11589.1 | 11195.5 | 11300.8 | 12613.7 | 12726.3 | 11903.4 |
| 60° | 13781.9 | 13961.3 | 14078.9 | 13930.4 | 13582.6 | 13346.3 | 12254.9 | 12097.7 | 13231.3 | 13136.0 | 12028.4 |
| 62.5° | 14245.9 | 14338.8 | 14886.9 | 15091.2 | 15636.9 | 15655.5 | 14349.9 | 13062.9 | 13757.2 | 13393.3 | 12084.0 |
| 65° | 13734.8 | 13872.2 | 14780.5 | 15578.7 | 17135.5 | 17224.5 | 16673.9 | 14672.9 | 14176.7 | 13482.5 | 11978.9 |
| 67.5° | 12309.3 | 12452.9 | 13544.3 | 15181.5 | 17964.6 | 18025.2 | 17453.5 | 16343.4 | 14385.8 | 13463.9 | 11670.8 |
| 68° | 11944.2 | 12097.7 | 13236.1 | 15031.7 | 18021.5 | 18050.0 | 17484.4 | 16482.1 | 14399.4 | 13442.8 | 11570.5 |
| 70° | 10433.2 | 10584.3 | 11737.5 | 14095.0 | 17796.4 | 17814.9 | 17289.0 | 16628.1 | 14328.9 | 13262.1 | 10910.9 |
| 72.5° | 8195.9 | 8348.1 | 9257.6 | 11956.6 | 16665.2 | 16827.4 | 16558.8 | 16212.3 | 14030.6 | 12558.0 | 9355.4 |
| 75° | 5807.5 | 5963.4 | 6910.1 | 9357.9 | 14367.3 | 14817.7 | 15353.5 | 15415.4 | 12914.5 | 10784.7 | 6969.5 |
| 77.5° | 4094.8 | 4222.3 | 5041.5 | 6995.6 | 11595.3 | 12178.1 | 13294.3 | 13385.9 | 10815.6 | 8229.3 | 3676.6 |
| 80° | 2658.1 | 2767.0 | 3500.8 | 5126.9 | 8765.2 | 9268.8 | 10495.1 | 10116.4 | 7686.1 | 4474.8 | 639.8 |
| 82.5° | 1605.0 | 1686.7 | 2229.9 | 3546.6 | 6413.9 | 6749.2 | 7249.2 | 6073.5 | 3566.5 | 632.3 | 224.0 |
| 85° | 920.7 | 976.4 | 1377.3 | 2278.3 | 4519.3 | 4805.2 | 4874.5 | 3049.1 | 670.7 | 174.5 | 126.2 |
| 87.5° | 471.4 | 500.0 | 738.8 | 1399.6 | 2670.5 | 2793.0 | 2445.3 | 1091.5 | 133.7 | 78.0 | 63.1 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 | 3155.6 |
| 2.5° | 3125.9 | 3134.5 | 3140.7 | 3161.8 | 3184.0 | 3195.2 | 3184.0 | 3201.4 | 3207.6 | 3202.6 | 3195.2 |
| 5° | 3133.3 | 3146.9 | 3156.8 | 3198.9 | 3223.7 | 3242.2 | 3229.8 | 3254.6 | 3263.2 | 3253.4 | 3253.4 |
| 7.5° | 3154.4 | 3172.9 | 3189.0 | 3244.7 | 3273.2 | 3297.9 | 3290.5 | 3307.8 | 3315.3 | 3302.9 | 3310.3 |
| 10° | 3210.0 | 3228.6 | 3249.7 | 3319.0 | 3337.5 | 3361.0 | 3347.4 | 3361.0 | 3363.5 | 3354.8 | 3361.0 |
| 12.5° | 3306.6 | 3319.0 | 3359.8 | 3430.4 | 3432.8 | 3439.0 | 3410.5 | 3384.6 | 3373.3 | 3357.3 | 3368.5 |
| 15° | 3430.4 | 3452.6 | 3508.3 | 3567.6 | 3551.6 | 3537.9 | 3467.5 | 3383.3 | 3330.1 | 3290.5 | 3288.0 |
| 17.5° | 3567.6 | 3607.3 | 3676.6 | 3714.9 | 3677.9 | 3616.0 | 3497.1 | 3354.8 | 3226.1 | 3155.6 | 3133.3 |
| 20° | 3708.8 | 3770.6 | 3847.3 | 3854.8 | 3791.7 | 3672.9 | 3492.2 | 3281.8 | 3068.9 | 2937.8 | 2905.6 |
| 22.5° | 3880.7 | 3961.2 | 4030.5 | 3993.4 | 3867.2 | 3692.7 | 3446.4 | 3153.1 | 2861.1 | 2661.8 | 2632.2 |
| 25° | 4108.5 | 4187.7 | 4200.1 | 4091.1 | 3895.7 | 3655.5 | 3341.2 | 2961.3 | 2591.3 | 2343.8 | 2320.3 |
| 27.5° | 4383.2 | 4425.3 | 4344.8 | 4141.9 | 3861.0 | 3544.2 | 3161.8 | 2695.2 | 2290.5 | 2075.3 | 2039.4 |
| 30° | 4687.6 | 4672.8 | 4451.3 | 4143.1 | 3759.5 | 3354.8 | 2889.5 | 2393.3 | 2053.0 | 1867.3 | 1832.7 |
| 32.5° | 5073.7 | 4975.9 | 4558.9 | 4087.4 | 3592.4 | 3099.9 | 2569.0 | 2152.0 | 1889.7 | 1700.3 | 1666.9 |
| 35° | 5840.9 | 5543.9 | 4704.9 | 3999.5 | 3370.9 | 2794.2 | 2288.1 | 1977.5 | 1749.8 | 1532.0 | 1501.0 |
| 37.5° | 7007.8 | 6392.9 | 4968.5 | 3903.1 | 3124.7 | 2481.1 | 2072.7 | 1841.4 | 1639.7 | 1407.0 | 1358.8 |
| 40° | 8031.3 | 7330.9 | 5389.3 | 3812.7 | 2873.5 | 2243.6 | 1949.1 | 1775.8 | 1579.0 | 1344.0 | 1294.5 |
| 42.5° | 8817.1 | 8082.1 | 5870.7 | 3705.0 | 2611.1 | 2067.9 | 1897.1 | 1767.2 | 1571.6 | 1344.0 | 1298.2 |
| 45° | 9452.0 | 8702.0 | 6298.8 | 3587.4 | 2357.4 | 1929.2 | 1850.1 | 1751.1 | 1556.8 | 1336.5 | 1293.2 |
| 47.5° | 9953.1 | 9164.8 | 6636.7 | 3452.6 | 2093.8 | 1835.2 | 1801.8 | 1695.3 | 1518.4 | 1314.2 | 1270.9 |
| 50° | 10387.4 | 9496.5 | 6826.0 | 3294.2 | 1859.9 | 1760.9 | 1733.7 | 1606.3 | 1441.7 | 1248.7 | 1220.2 |
| 52.5° | 10690.7 | 9766.2 | 6897.7 | 3228.6 | 1692.9 | 1676.8 | 1640.9 | 1516.0 | 1358.8 | 1170.7 | 1138.4 |
| 55° | 10918.3 | 9904.9 | 6838.4 | 3078.9 | 1525.8 | 1546.8 | 1530.8 | 1446.7 | 1300.6 | 1122.4 | 1090.2 |
| 57.5° | 11034.7 | 9950.7 | 6668.8 | 2514.6 | 1367.4 | 1392.2 | 1403.3 | 1408.3 | 1291.9 | 1136.0 | 1106.3 |
| 60° | 11075.5 | 9878.9 | 6298.8 | 1795.6 | 1197.9 | 1247.4 | 1309.3 | 1327.8 | 1253.5 | 1084.1 | 1059.3 |
| 62.5° | 11013.6 | 9692.0 | 5573.7 | 1241.2 | 1069.2 | 1157.1 | 1238.7 | 1233.7 | 1154.5 | 1007.3 | 973.9 |
| 65° | 10772.3 | 9234.2 | 4238.4 | 1001.1 | 1025.9 | 1116.2 | 1206.6 | 1146.0 | 1069.2 | 933.0 | 915.8 |
| 67.5° | 10188.2 | 8270.1 | 2377.2 | 924.4 | 1012.3 | 1092.7 | 1150.8 | 1077.8 | 992.5 | 863.8 | 856.3 |
| 68° | 10015.0 | 7986.8 | 2029.5 | 919.5 | 1009.8 | 1085.2 | 1136.0 | 1060.5 | 977.7 | 852.6 | 847.7 |
| 70° | 9005.2 | 6526.5 | 915.8 | 903.4 | 994.9 | 1058.1 | 1095.2 | 1012.3 | 923.2 | 814.2 | 806.8 |
| 72.5° | 6958.3 | 4041.6 | 615.1 | 858.8 | 957.8 | 1017.2 | 1040.7 | 962.8 | 888.5 | 767.3 | 757.3 |
| 75° | 4124.5 | 1111.3 | 582.8 | 782.1 | 894.7 | 977.7 | 1002.3 | 924.4 | 836.6 | 696.7 | 680.7 |
| 77.5° | 1014.7 | 401.0 | 564.3 | 695.5 | 829.2 | 912.0 | 951.6 | 898.4 | 792.0 | 627.4 | 611.4 |
| 80° | 308.1 | 319.2 | 537.1 | 601.4 | 746.2 | 814.2 | 837.7 | 837.7 | 732.6 | 441.8 | 465.3 |
| 82.5° | 203.0 | 256.2 | 457.9 | 451.7 | 592.8 | 674.4 | 629.9 | 632.3 | 575.4 | 196.7 | 230.2 |
| 85° | 127.5 | 209.1 | 309.4 | 295.7 | 377.4 | 413.4 | 448.0 | 460.3 | 404.7 | 56.9 | 3.7 |
| 87.5° | 65.6 | 89.1 | 108.9 | 116.3 | 149.8 | 214.1 | 287.1 | 282.1 | 207.8 | 50.8 | 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)