

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: P285811

Luminaire Tested: **USSL-XL-C049-D-U-T3-BZ-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
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-T3-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28238 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

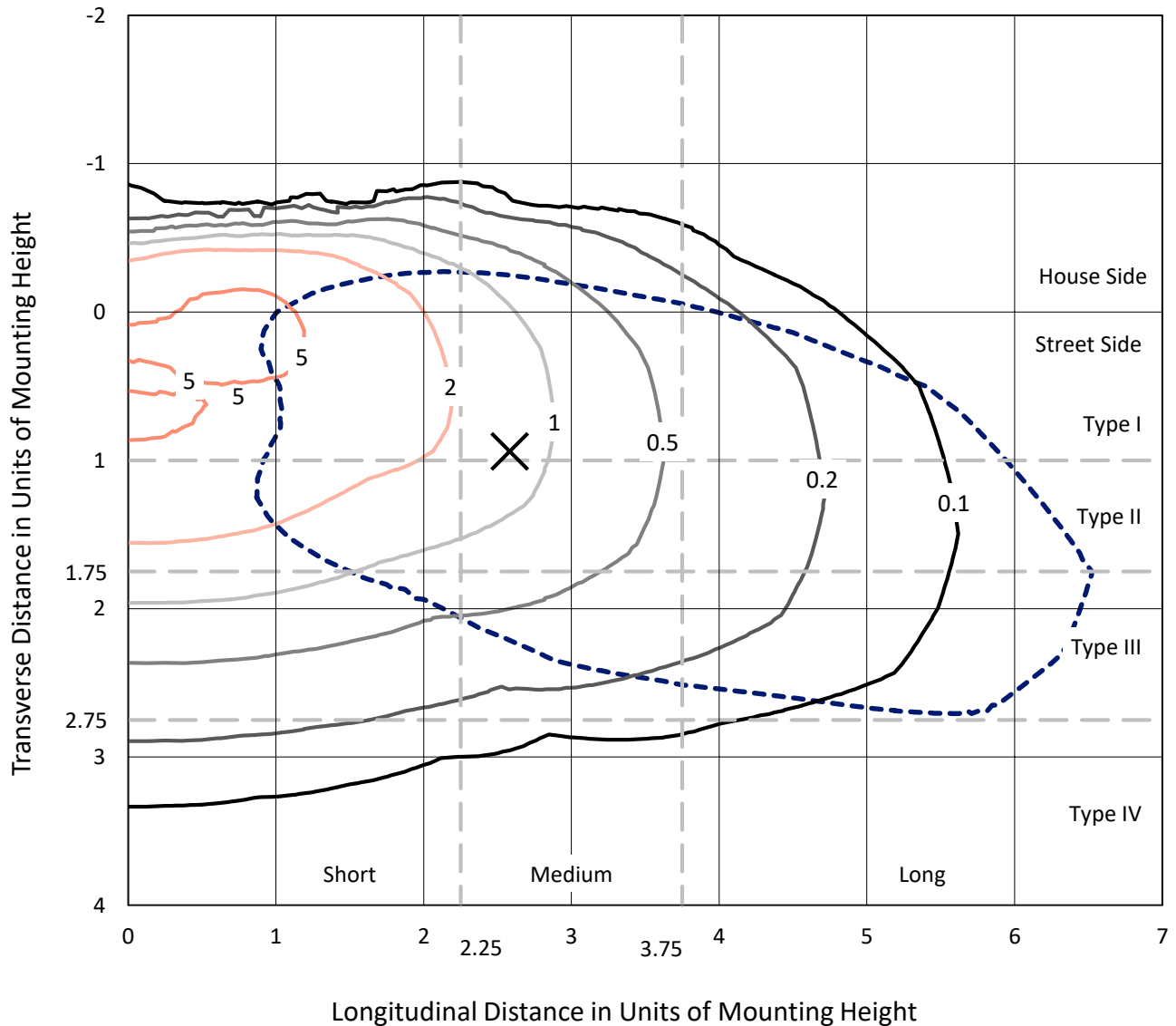
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

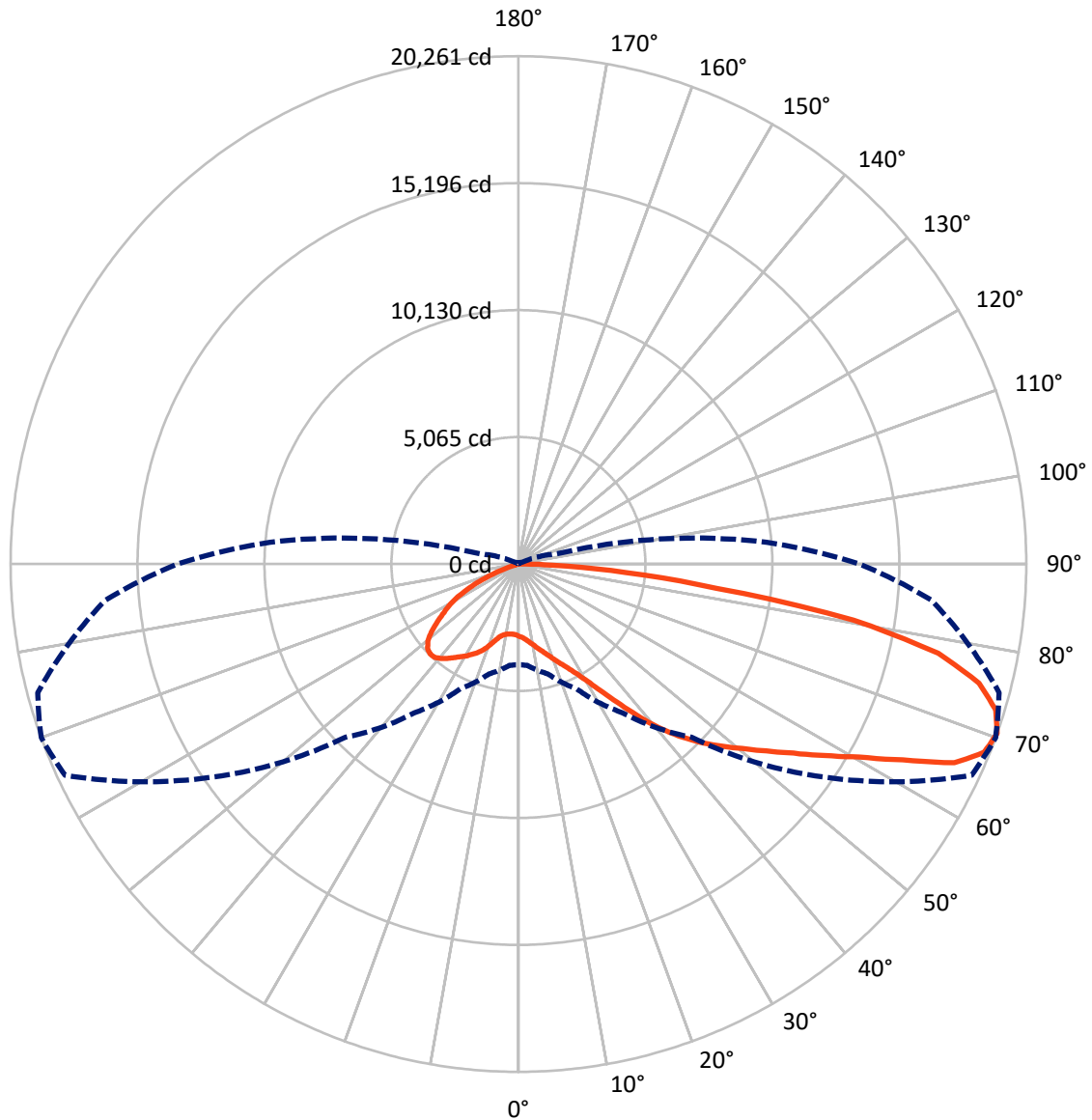
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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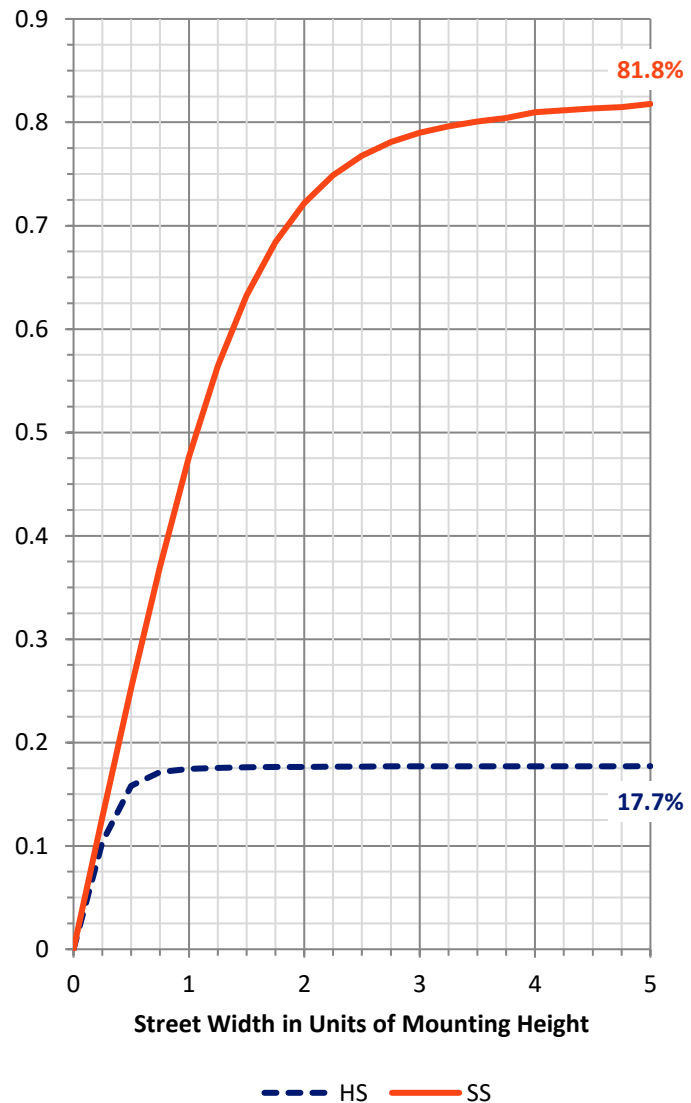
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5060.1 | 0.0 | 5060.1 |
| | % Fixture | 17.9 | 0.0 | 17.9 |
| Street Side | Lumens | 23177.9 | 0.0 | 23177.9 |
| | % Fixture | 82.1 | 0.0 | 82.1 |
| Total | Lumens | 28238.0 | 0.0 | 28238.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 279.0 | 1.0 |
| 10°-20° | 876.7 | 3.1 |
| 20°-30° | 1596.5 | 5.7 |
| 30°-40° | 2714.3 | 9.6 |
| 40°-50° | 4269.4 | 15.1 |
| 50°-60° | 5763.2 | 20.4 |
| 60°-70° | 6742.4 | 23.9 |
| 70°-80° | 5017.0 | 17.8 |
| 80°-90° | 979.4 | 3.5 |
| 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° | 28238.0 | 100.0 |
| 0°-180° | 28238.0 | 100.0 |



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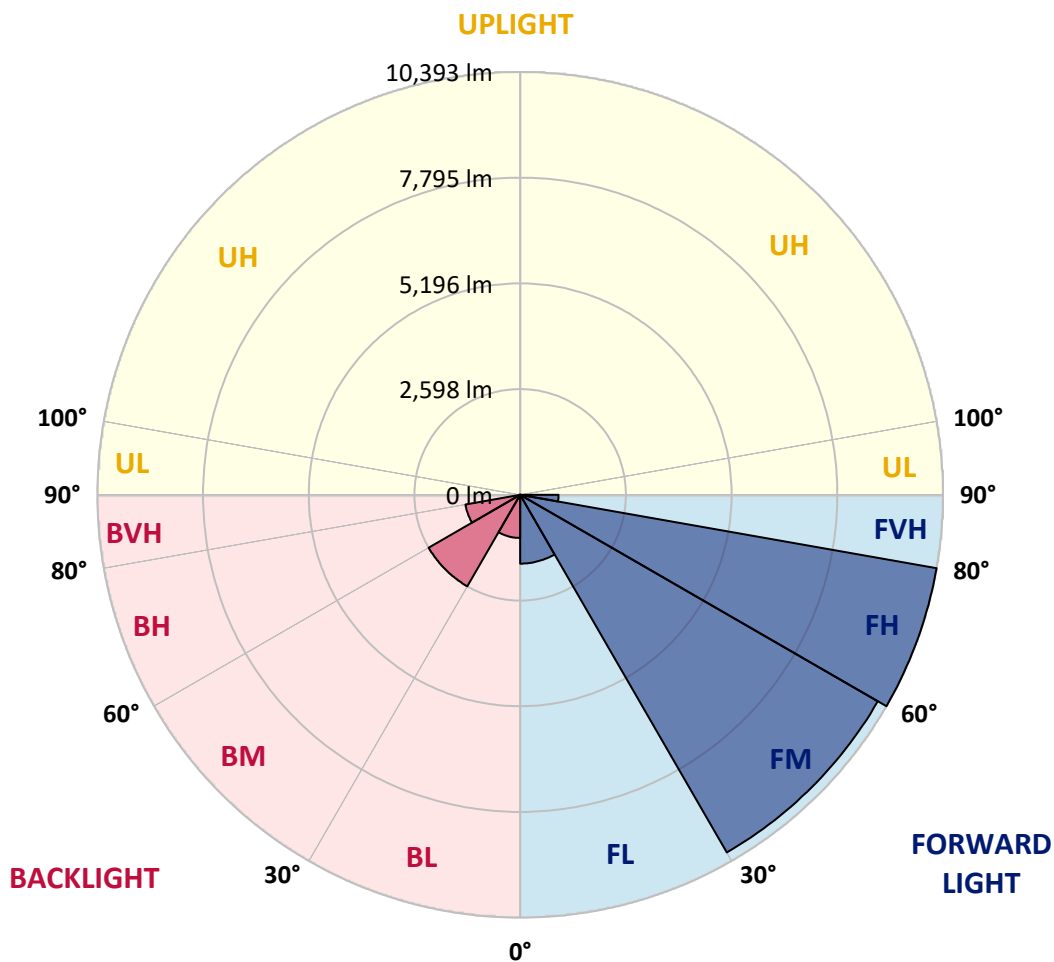
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1691.6 | 6.0 | | | |
| FM (30°-60°) | 10149.9 | 35.9 | | | |
| FH (60°-80°) | 10392.9 | 36.8 | | | G4/12000 |
| FVH (80°-90°) | 943.5 | 3.3 | | | G5 |
| BL (0°-30°) | 1060.6 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 2597.0 | 9.2 | B3/5000 | | |
| BH (60°-80°) | 1366.5 | 4.8 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 35.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 |
| 2.5° | 3047.8 | 3045.4 | 3050.2 | 3038.3 | 3045.4 | 3022.8 | 3002.6 | 2974.1 | 2930.1 | 2914.6 | 2884.9 |
| 5° | 3196.5 | 3198.8 | 3197.6 | 3189.3 | 3178.6 | 3154.8 | 3114.4 | 3075.2 | 3022.8 | 2997.9 | 2939.6 |
| 7.5° | 3323.7 | 3324.9 | 3329.6 | 3327.3 | 3321.3 | 3290.4 | 3253.5 | 3203.6 | 3140.6 | 3108.5 | 3028.8 |
| 10° | 3424.8 | 3423.6 | 3430.7 | 3441.4 | 3465.2 | 3441.4 | 3392.7 | 3352.2 | 3284.4 | 3241.6 | 3142.9 |
| 12.5° | 3491.4 | 3483.0 | 3503.3 | 3533.0 | 3575.8 | 3579.4 | 3547.3 | 3505.6 | 3446.2 | 3396.2 | 3285.6 |
| 15° | 3522.3 | 3518.7 | 3555.6 | 3617.4 | 3679.2 | 3699.5 | 3694.7 | 3663.8 | 3619.8 | 3569.8 | 3449.7 |
| 17.5° | 3594.8 | 3593.6 | 3618.6 | 3691.1 | 3763.7 | 3814.8 | 3867.1 | 3862.4 | 3821.9 | 3786.3 | 3661.4 |
| 20° | 3712.5 | 3714.9 | 3714.9 | 3777.9 | 3857.6 | 3948.0 | 4051.5 | 4083.6 | 4051.5 | 4030.0 | 3909.9 |
| 22.5° | 3856.4 | 3845.7 | 3838.6 | 3890.9 | 3988.4 | 4114.5 | 4260.7 | 4320.2 | 4315.4 | 4294.0 | 4221.5 |
| 25° | 4058.6 | 4034.8 | 3983.7 | 4049.1 | 4169.2 | 4316.6 | 4487.9 | 4587.8 | 4596.1 | 4602.0 | 4654.4 |
| 27.5° | 4379.7 | 4378.5 | 4291.7 | 4296.4 | 4378.5 | 4549.7 | 4759.0 | 4931.4 | 4955.2 | 5021.8 | 5201.4 |
| 30° | 5026.6 | 4961.2 | 4861.3 | 4701.9 | 4674.6 | 4836.3 | 5086.0 | 5350.0 | 5417.8 | 5621.1 | 5838.8 |
| 32.5° | 5631.8 | 5583.1 | 5512.9 | 5328.6 | 5103.9 | 5163.3 | 5447.5 | 5838.8 | 6017.1 | 6422.6 | 6621.2 |
| 35° | 6151.5 | 6126.5 | 6074.2 | 5964.8 | 5761.5 | 5608.1 | 5841.1 | 6382.2 | 6758.0 | 7352.6 | 7526.2 |
| 37.5° | 6659.3 | 6640.2 | 6605.8 | 6509.4 | 6382.2 | 6152.7 | 6299.0 | 7023.2 | 7634.4 | 8331.2 | 8420.4 |
| 40° | 7105.2 | 7099.3 | 7129.0 | 7069.5 | 7013.6 | 6870.9 | 6828.1 | 7699.8 | 8550.0 | 9284.9 | 9263.5 |
| 42.5° | 7495.3 | 7485.7 | 7630.8 | 7552.3 | 7618.9 | 7564.2 | 7475.0 | 8332.4 | 9380.1 | 10067.4 | 9994.9 |
| 45° | 7755.7 | 7750.9 | 7904.3 | 7982.8 | 8170.7 | 8211.1 | 8157.6 | 8988.8 | 10136.4 | 10784.5 | 10625.1 |
| 47.5° | 7954.3 | 7941.2 | 8025.6 | 8327.7 | 8674.9 | 8756.9 | 8860.4 | 9721.4 | 10847.5 | 11418.3 | 11225.6 |
| 50° | 8062.5 | 8067.2 | 8240.9 | 8648.7 | 9162.4 | 9351.5 | 9569.1 | 10591.8 | 11570.5 | 12097.3 | 11778.6 |
| 52.5° | 8132.6 | 8183.8 | 8439.4 | 8930.6 | 9632.2 | 9963.9 | 10213.7 | 11532.4 | 12389.8 | 12738.2 | 12398.1 |
| 55° | 8182.6 | 8273.0 | 8528.6 | 9082.8 | 9925.9 | 10475.3 | 10840.3 | 12524.2 | 13322.1 | 13542.1 | 13054.6 |
| 57.5° | 7860.3 | 7956.6 | 8387.1 | 9110.1 | 10168.5 | 10906.9 | 11558.6 | 13586.1 | 14412.6 | 14432.8 | 13664.6 |
| 60° | 7333.5 | 7393.0 | 7943.6 | 8942.5 | 10134.0 | 11304.1 | 12439.8 | 14844.2 | 15627.9 | 15617.2 | 14418.5 |
| 62.5° | 6788.9 | 6819.8 | 7378.7 | 8500.1 | 9939.0 | 11450.4 | 13279.3 | 16535.2 | 17208.3 | 16890.8 | 15186.7 |
| 65° | 6069.5 | 6103.9 | 6680.7 | 7769.9 | 9396.7 | 11351.7 | 13997.6 | 18308.2 | 19115.7 | 18609.1 | 15929.9 |
| 67.5° | 5132.4 | 5197.8 | 5730.5 | 6742.5 | 8514.4 | 10830.8 | 14544.6 | 19523.6 | 20043.2 | 19599.7 | 16450.8 |
| 70° | 4002.7 | 4061.0 | 4536.6 | 5490.3 | 7242.0 | 9768.9 | 14799.0 | 19951.7 | 20260.8 | 19854.1 | 16538.8 |
| 72.5° | 2850.4 | 2893.2 | 3103.7 | 3901.6 | 5492.7 | 8163.6 | 14557.6 | 19745.9 | 19906.5 | 19398.7 | 15941.8 |
| 75° | 2170.2 | 2135.7 | 2260.6 | 2562.6 | 3213.1 | 5736.5 | 13089.0 | 18816.0 | 18980.1 | 18420.0 | 14777.6 |
| 77.5° | 1570.9 | 1543.5 | 1693.4 | 1927.6 | 2241.6 | 2697.0 | 9200.5 | 16906.2 | 17117.9 | 16660.1 | 12801.3 |
| 80° | 924.0 | 963.2 | 1161.8 | 1384.2 | 1633.9 | 1796.8 | 4338.0 | 12630.0 | 13562.3 | 13375.6 | 9332.5 |
| 82.5° | 176.0 | 190.3 | 482.8 | 733.7 | 900.2 | 952.5 | 1642.2 | 6947.0 | 7962.6 | 8165.9 | 4930.2 |
| 85° | 115.3 | 124.9 | 289.0 | 294.9 | 287.8 | 368.6 | 663.5 | 3347.5 | 4298.8 | 4347.6 | 2165.5 |
| 87.5° | 53.5 | 59.5 | 88.0 | 127.2 | 161.7 | 193.8 | 218.8 | 899.0 | 1328.3 | 1359.2 | 428.1 |
| 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° | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 | 2886.1 |
| 2.5° | 2869.4 | 2857.5 | 2832.6 | 2811.2 | 2796.9 | 2788.6 | 2741.0 | 2732.7 | 2714.8 | 2701.8 | 2695.8 |
| 5° | 2912.2 | 2889.6 | 2829.0 | 2787.4 | 2733.9 | 2689.9 | 2610.2 | 2569.8 | 2546.0 | 2521.0 | 2515.1 |
| 7.5° | 2984.8 | 2947.9 | 2852.8 | 2777.9 | 2686.3 | 2606.6 | 2494.8 | 2430.6 | 2385.4 | 2349.8 | 2346.2 |
| 10° | 3087.0 | 3028.8 | 2892.0 | 2782.6 | 2650.6 | 2541.2 | 2402.1 | 2298.6 | 2235.6 | 2189.2 | 2186.9 |
| 12.5° | 3214.3 | 3134.6 | 2965.8 | 2820.7 | 2650.6 | 2499.6 | 2334.3 | 2196.4 | 2103.6 | 2040.6 | 2033.5 |
| 15° | 3373.6 | 3278.5 | 3088.2 | 2909.9 | 2708.9 | 2516.3 | 2287.9 | 2102.4 | 1966.9 | 1865.8 | 1861.0 |
| 17.5° | 3572.2 | 3473.5 | 3288.0 | 3087.0 | 2819.5 | 2542.4 | 2253.5 | 1991.8 | 1795.6 | 1675.5 | 1662.4 |
| 20° | 3823.1 | 3776.8 | 3586.5 | 3292.8 | 2933.6 | 2555.5 | 2176.2 | 1838.4 | 1572.1 | 1417.5 | 1397.3 |
| 22.5° | 4182.3 | 4156.1 | 3883.8 | 3468.8 | 2999.1 | 2515.1 | 2048.9 | 1593.5 | 1270.0 | 1103.5 | 1088.1 |
| 25° | 4631.8 | 4541.4 | 4150.2 | 3599.6 | 3010.9 | 2425.9 | 1833.7 | 1280.7 | 919.2 | 753.9 | 748.0 |
| 27.5° | 5100.3 | 4936.2 | 4380.9 | 3691.1 | 2976.5 | 2246.3 | 1531.6 | 910.9 | 573.2 | 467.3 | 468.5 |
| 30° | 5691.3 | 5379.7 | 4642.5 | 3777.9 | 2896.8 | 2002.5 | 1135.6 | 567.2 | 360.3 | 296.1 | 287.8 |
| 32.5° | 6372.7 | 5941.0 | 4904.1 | 3812.4 | 2748.1 | 1657.7 | 720.6 | 348.4 | 225.9 | 192.6 | 189.1 |
| 35° | 7168.2 | 6635.5 | 5240.6 | 3816.0 | 2503.2 | 1232.0 | 431.7 | 204.5 | 153.4 | 154.6 | 157.0 |
| 37.5° | 7998.3 | 7371.6 | 5650.9 | 3773.2 | 2197.6 | 770.6 | 243.8 | 132.0 | 132.0 | 157.0 | 165.3 |
| 40° | 8749.8 | 8075.6 | 6086.1 | 3676.9 | 1767.1 | 448.3 | 137.9 | 114.2 | 121.3 | 147.5 | 154.6 |
| 42.5° | 9439.5 | 8684.4 | 6484.5 | 3527.0 | 1261.7 | 242.6 | 118.9 | 103.5 | 109.4 | 121.3 | 124.9 |
| 45° | 10036.5 | 9213.6 | 6771.1 | 3285.6 | 765.8 | 149.8 | 109.4 | 93.9 | 92.8 | 101.1 | 103.5 |
| 47.5° | 10551.4 | 9686.9 | 6964.9 | 2940.8 | 400.7 | 142.7 | 105.8 | 85.6 | 79.7 | 83.2 | 84.4 |
| 50° | 11079.4 | 10037.7 | 7037.4 | 2456.8 | 205.7 | 134.4 | 98.7 | 79.7 | 73.7 | 84.4 | 85.6 |
| 52.5° | 11613.3 | 10564.5 | 7046.9 | 1780.2 | 162.9 | 121.3 | 90.4 | 73.7 | 71.3 | 93.9 | 97.5 |
| 55° | 12133.0 | 10948.6 | 6910.2 | 1031.0 | 158.2 | 113.0 | 82.1 | 66.6 | 69.0 | 71.3 | 71.3 |
| 57.5° | 12681.2 | 11408.8 | 6622.4 | 450.7 | 153.4 | 103.5 | 76.1 | 60.6 | 51.1 | 57.1 | 59.5 |
| 60° | 13268.6 | 11805.9 | 6043.3 | 260.4 | 146.3 | 92.8 | 65.4 | 49.9 | 42.8 | 42.8 | 46.4 |
| 62.5° | 13862.0 | 12097.3 | 5095.5 | 190.3 | 139.1 | 86.8 | 57.1 | 44.0 | 35.7 | 35.7 | 38.1 |
| 65° | 14247.3 | 11903.5 | 3930.2 | 168.9 | 134.4 | 78.5 | 49.9 | 38.1 | 28.5 | 27.4 | 29.7 |
| 67.5° | 14177.1 | 11161.4 | 2768.4 | 151.0 | 122.5 | 71.3 | 44.0 | 33.3 | 25.0 | 20.2 | 21.4 |
| 70° | 13595.6 | 9948.5 | 1535.2 | 141.5 | 109.4 | 65.4 | 39.2 | 29.7 | 20.2 | 13.1 | 13.1 |
| 72.5° | 12524.2 | 8359.8 | 589.8 | 127.2 | 97.5 | 57.1 | 35.7 | 28.5 | 17.8 | 7.1 | 5.9 |
| 75° | 10924.8 | 6362.0 | 212.9 | 107.0 | 80.9 | 52.3 | 34.5 | 29.7 | 16.6 | 2.4 | 0.0 |
| 77.5° | 8565.5 | 3560.3 | 126.1 | 79.7 | 60.6 | 45.2 | 36.9 | 29.7 | 9.5 | 0.0 | 0.0 |
| 80° | 4600.8 | 1285.5 | 89.2 | 51.1 | 40.4 | 33.3 | 33.3 | 23.8 | 4.8 | 0.0 | 0.0 |
| 82.5° | 1909.8 | 289.0 | 57.1 | 28.5 | 27.4 | 21.4 | 21.4 | 10.7 | 1.2 | 0.0 | 0.0 |
| 85° | 541.1 | 84.4 | 26.2 | 15.5 | 15.5 | 11.9 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 46.4 | 17.8 | 7.1 | 8.3 | 5.9 | 2.4 | 0.0 | 0.0 | 0.0 | 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)