

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: P381001

Luminaire Tested: **USSL-XL-PA3B-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-PA3B-740-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30161 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

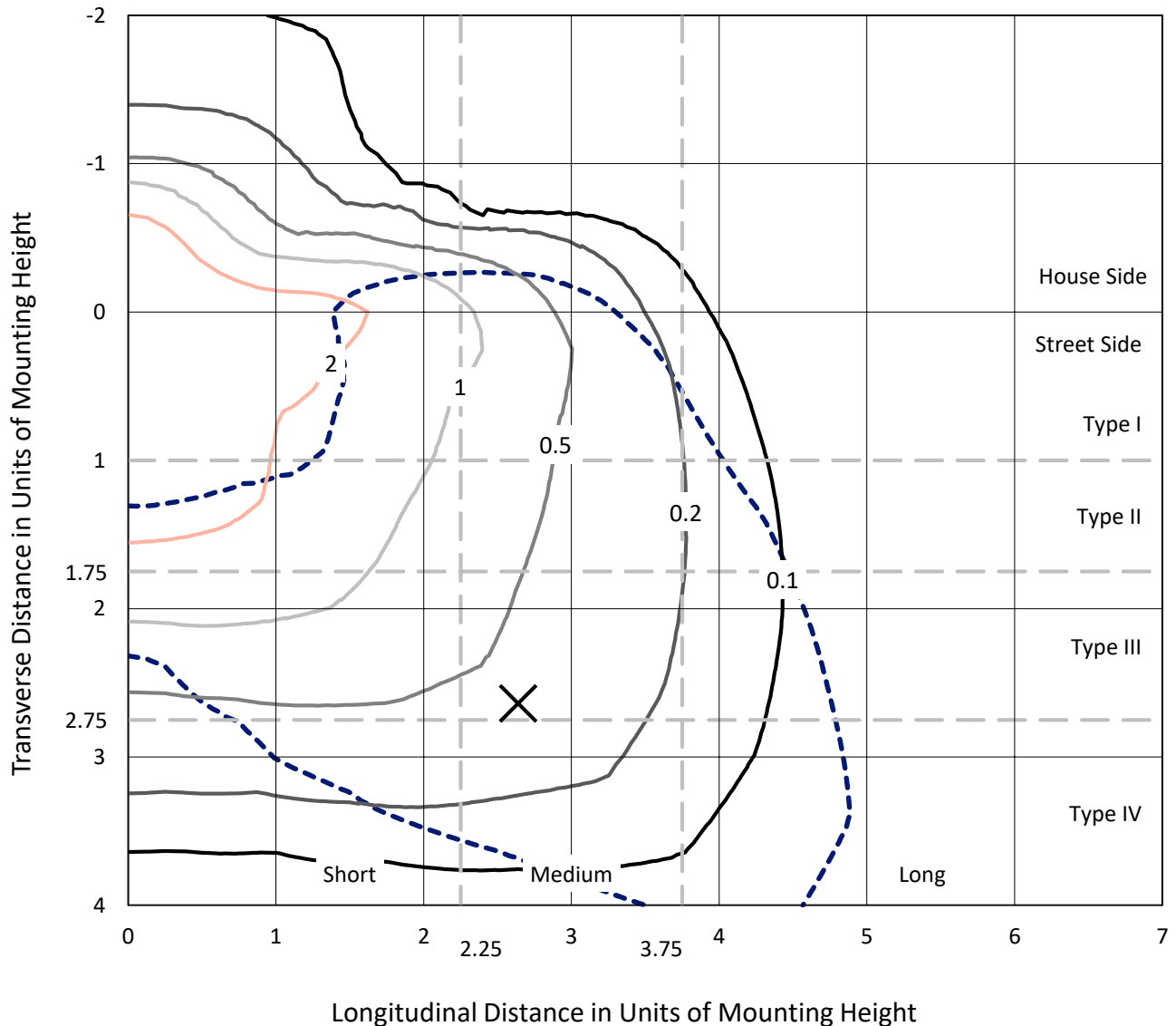
Input Watts (W): 234
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

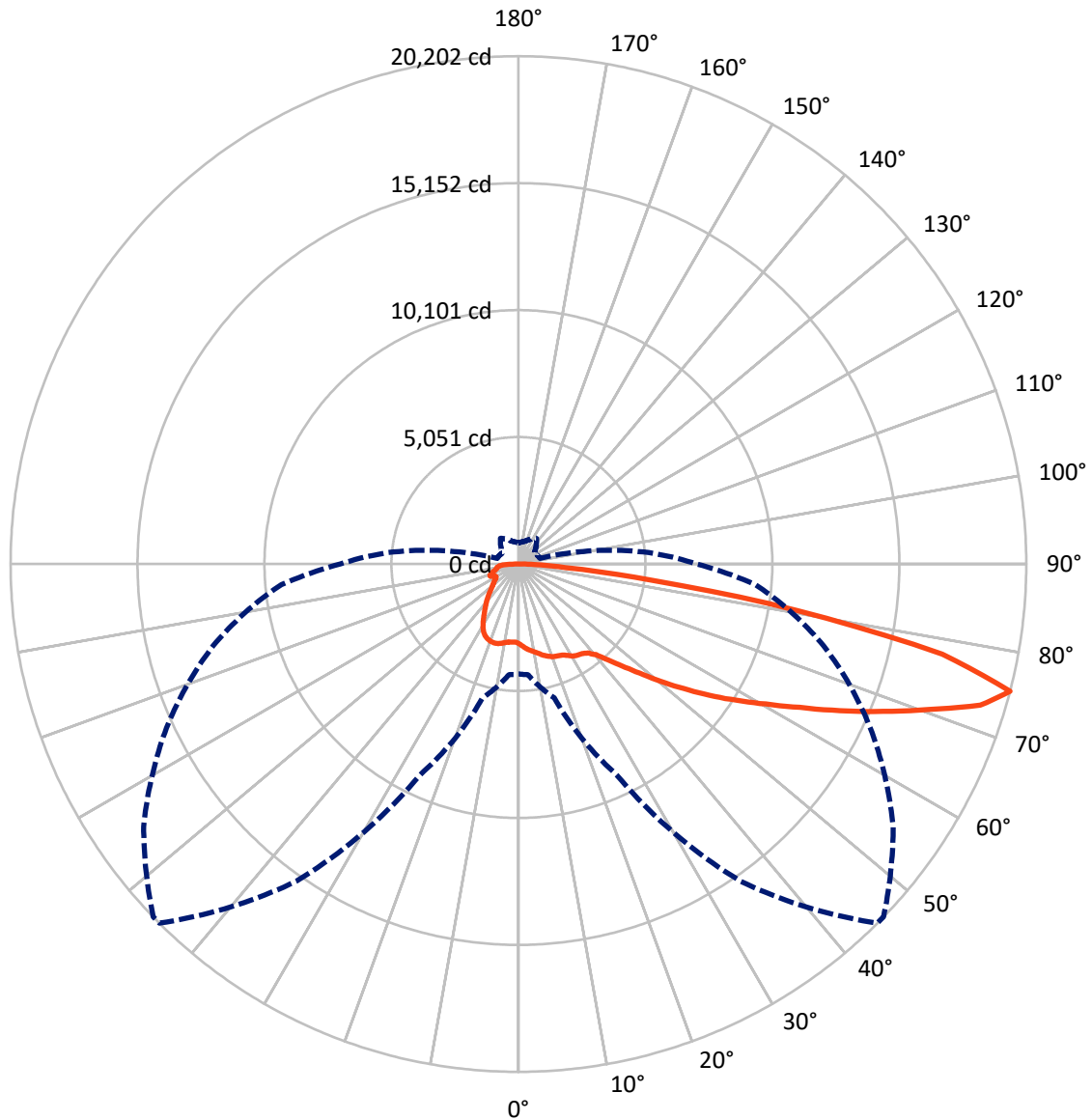
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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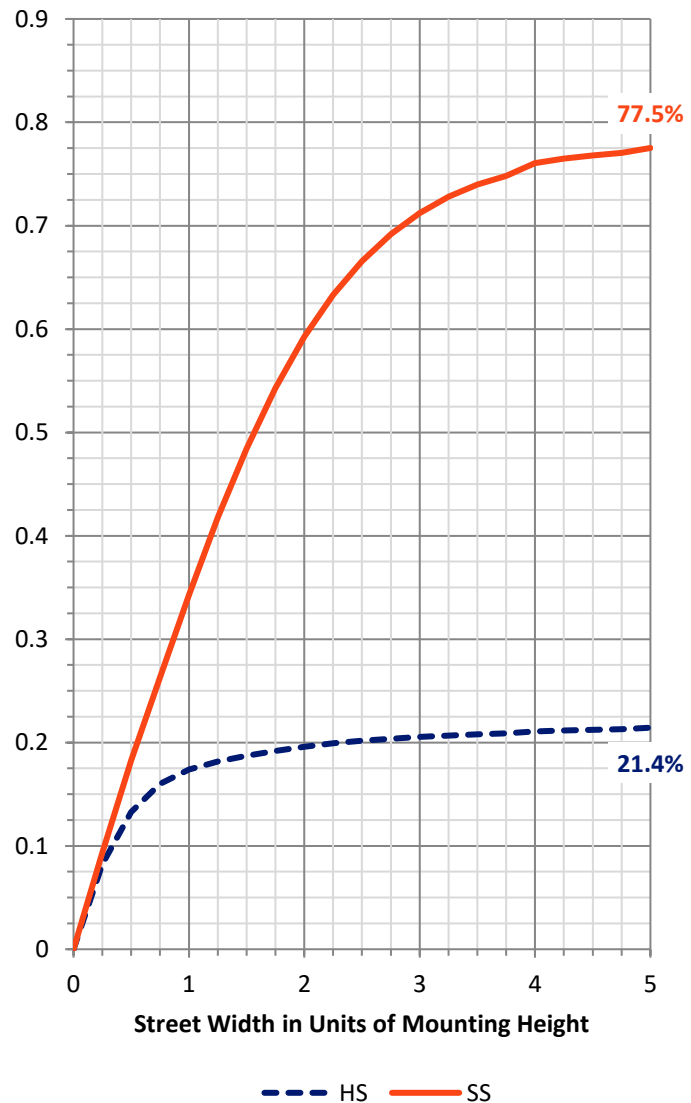
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6665.4 | 0.0 | 6665.4 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 23495.6 | 0.0 | 23495.6 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 30161.0 | 0.0 | 30161.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 313.4 | 1.0 |
| 10°-20° | 996.9 | 3.3 |
| 20°-30° | 1699.6 | 5.6 |
| 30°-40° | 2381.4 | 7.9 |
| 40°-50° | 3498.5 | 11.6 |
| 50°-60° | 5568.0 | 18.5 |
| 60°-70° | 7920.5 | 26.3 |
| 70°-80° | 6631.8 | 22.0 |
| 80°-90° | 1150.9 | 3.8 |
| 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° | 30161.0 | 100.0 |
| 0°-180° | 30161.0 | 100.0 |

Coefficient of Utilization



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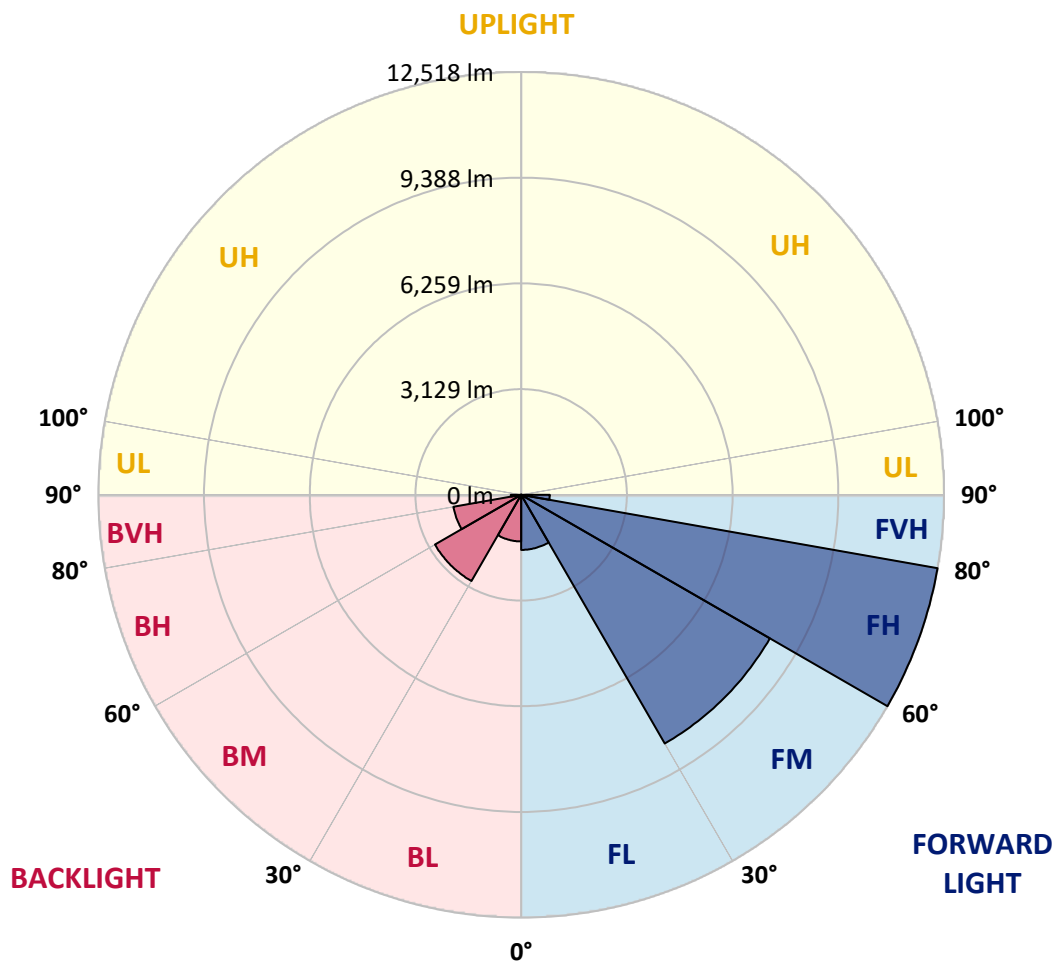
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1630.4 | 5.4 | | | |
| FM | (30°-60°) | 8501.5 | 28.2 | | | |
| FH | (60°-80°) | 12517.6 | 41.5 | | | G5 |
| FVH | (80°-90°) | 846.1 | 2.8 | | | G5 |
| BL | (0°-30°) | 1379.5 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 2946.4 | 9.8 | B3/5000 | | |
| BH | (60°-80°) | 2034.7 | 6.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 304.8 | 1.0 | | | G3/500 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 |
| 2.5° | 3348.9 | 3332.8 | 3324.7 | 3324.7 | 3292.5 | 3272.3 | 3268.3 | 3240.1 | 3215.9 | 3191.7 | 3171.6 |
| 5° | 3542.4 | 3530.3 | 3506.1 | 3485.9 | 3441.6 | 3385.2 | 3377.1 | 3316.7 | 3256.2 | 3199.8 | 3151.4 |
| 7.5° | 3719.7 | 3695.5 | 3667.3 | 3627.0 | 3554.4 | 3477.9 | 3465.8 | 3381.2 | 3296.5 | 3211.9 | 3147.4 |
| 10° | 3868.8 | 3844.6 | 3804.3 | 3747.9 | 3655.2 | 3562.5 | 3550.4 | 3461.8 | 3373.1 | 3272.3 | 3179.7 |
| 12.5° | 4009.8 | 3989.7 | 3929.2 | 3852.7 | 3743.9 | 3659.2 | 3647.1 | 3570.6 | 3477.9 | 3365.0 | 3244.1 |
| 15° | 4130.7 | 4110.6 | 4046.1 | 3957.4 | 3832.5 | 3768.0 | 3751.9 | 3679.4 | 3586.7 | 3465.8 | 3340.9 |
| 17.5° | 4191.2 | 4191.2 | 4122.7 | 4026.0 | 3909.1 | 3860.7 | 3848.6 | 3760.0 | 3675.3 | 3558.5 | 3433.5 |
| 20° | 4211.3 | 4219.4 | 4171.0 | 4054.2 | 3953.4 | 3933.3 | 3921.2 | 3848.6 | 3751.9 | 3639.1 | 3522.2 |
| 22.5° | 4223.4 | 4239.5 | 4199.2 | 4066.3 | 3981.6 | 3969.5 | 3961.5 | 3913.1 | 3836.5 | 3727.7 | 3610.9 |
| 25° | 4263.7 | 4263.7 | 4235.5 | 4086.4 | 4017.9 | 4013.9 | 4013.9 | 3985.7 | 3933.3 | 3840.6 | 3723.7 |
| 27.5° | 4324.2 | 4320.1 | 4283.9 | 4130.7 | 4098.5 | 4110.6 | 4106.6 | 4102.5 | 4066.3 | 3973.6 | 3848.6 |
| 30° | 4424.9 | 4424.9 | 4384.6 | 4219.4 | 4199.2 | 4251.6 | 4255.7 | 4263.7 | 4207.3 | 4062.2 | 3961.5 |
| 32.5° | 4578.1 | 4561.9 | 4521.6 | 4308.0 | 4275.8 | 4324.2 | 4332.2 | 4328.2 | 4279.8 | 4142.8 | 4094.5 |
| 35° | 5049.6 | 5013.3 | 4868.2 | 4505.5 | 4344.3 | 4372.5 | 4376.6 | 4396.7 | 4404.8 | 4296.0 | 4271.8 |
| 37.5° | 5875.7 | 5827.4 | 5605.7 | 4973.0 | 4561.9 | 4493.4 | 4489.4 | 4541.8 | 4586.1 | 4489.4 | 4489.4 |
| 40° | 6774.4 | 6734.1 | 6605.1 | 5779.0 | 4964.9 | 4739.3 | 4723.1 | 4771.5 | 4827.9 | 4759.4 | 4779.6 |
| 42.5° | 7548.2 | 7580.4 | 7592.5 | 6633.3 | 5569.4 | 5198.7 | 5154.3 | 5085.8 | 5174.5 | 5114.0 | 5194.6 |
| 45° | 8128.5 | 8112.4 | 8334.0 | 7507.9 | 6351.2 | 5775.0 | 5714.5 | 5529.1 | 5642.0 | 5637.9 | 5815.3 |
| 47.5° | 8745.1 | 8716.8 | 8809.5 | 8330.0 | 7241.9 | 6480.2 | 6387.5 | 6113.5 | 6282.7 | 6399.6 | 6693.8 |
| 50° | 9329.4 | 9337.5 | 9369.7 | 8978.8 | 8209.1 | 7338.6 | 7221.7 | 6855.0 | 7096.8 | 7342.6 | 7757.7 |
| 52.5° | 10091.1 | 10034.7 | 9994.4 | 9736.4 | 9293.1 | 8233.3 | 8156.7 | 7737.6 | 8076.1 | 8366.2 | 8918.3 |
| 55° | 10756.0 | 10719.7 | 10695.6 | 10683.5 | 10199.9 | 9220.6 | 9140.0 | 8704.8 | 9192.4 | 9397.9 | 10212.0 |
| 57.5° | 11465.3 | 11445.1 | 11574.1 | 11779.6 | 11586.2 | 10224.1 | 10139.4 | 9720.3 | 10264.4 | 10409.4 | 11614.4 |
| 60° | 11985.2 | 11997.3 | 12351.9 | 12875.8 | 12742.8 | 11312.2 | 11211.4 | 10840.6 | 11308.1 | 11437.1 | 13016.8 |
| 62.5° | 11989.2 | 12110.1 | 12932.2 | 13871.2 | 14024.3 | 12565.5 | 12448.6 | 12045.6 | 12380.1 | 12380.1 | 14274.2 |
| 65° | 10844.7 | 10981.7 | 12827.4 | 14117.0 | 15322.0 | 14056.6 | 13943.7 | 13311.0 | 13436.0 | 13266.7 | 15455.0 |
| 67.5° | 9704.2 | 9865.4 | 11602.3 | 14137.2 | 16232.8 | 15652.4 | 15519.5 | 14576.4 | 14362.9 | 13935.7 | 16281.1 |
| 70° | 8946.6 | 9059.4 | 10510.2 | 13875.2 | 16780.8 | 17320.9 | 17220.1 | 15777.4 | 15092.3 | 14495.8 | 16107.8 |
| 72.5° | 7532.0 | 7491.7 | 8878.0 | 12630.0 | 17087.1 | 19214.9 | 19130.3 | 17083.1 | 15725.0 | 14229.9 | 13738.2 |
| 75° | 4372.5 | 4420.9 | 5509.0 | 9252.8 | 15402.6 | 20202.3 | 20194.2 | 18199.4 | 15446.9 | 12569.5 | 9466.4 |
| 77.5° | 1261.4 | 1297.7 | 1809.5 | 4066.3 | 9740.5 | 17232.2 | 17784.3 | 16643.8 | 13057.1 | 8958.6 | 4908.5 |
| 80° | 552.1 | 580.3 | 785.8 | 1354.1 | 4195.2 | 11255.7 | 11739.3 | 11255.7 | 7874.6 | 4110.6 | 1926.3 |
| 82.5° | 326.4 | 346.6 | 511.8 | 838.2 | 2011.0 | 5355.8 | 6008.7 | 5247.0 | 3397.3 | 1745.0 | 797.9 |
| 85° | 185.4 | 193.4 | 294.2 | 532.0 | 1265.4 | 1873.9 | 2103.7 | 1970.7 | 1656.3 | 991.4 | 419.1 |
| 87.5° | 84.6 | 88.7 | 145.1 | 249.9 | 709.3 | 632.7 | 656.9 | 870.5 | 959.1 | 604.5 | 209.6 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 | 3167.6 |
| 2.5° | 3163.5 | 3151.4 | 3127.3 | 3119.2 | 3107.1 | 3111.1 | 3115.2 | 3115.2 | 3119.2 | 3107.1 | 3107.1 |
| 5° | 3131.3 | 3111.1 | 3087.0 | 3087.0 | 3087.0 | 3119.2 | 3147.4 | 3163.5 | 3171.6 | 3171.6 | 3163.5 |
| 7.5° | 3119.2 | 3095.0 | 3066.8 | 3074.9 | 3082.9 | 3123.2 | 3175.6 | 3228.0 | 3244.1 | 3244.1 | 3236.1 |
| 10° | 3143.4 | 3119.2 | 3099.1 | 3111.1 | 3131.3 | 3163.5 | 3203.8 | 3252.2 | 3292.5 | 3296.5 | 3292.5 |
| 12.5° | 3199.8 | 3171.6 | 3151.4 | 3175.6 | 3199.8 | 3220.0 | 3240.1 | 3260.3 | 3312.6 | 3320.7 | 3320.7 |
| 15° | 3292.5 | 3264.3 | 3240.1 | 3260.3 | 3268.3 | 3268.3 | 3268.3 | 3268.3 | 3320.7 | 3328.8 | 3328.8 |
| 17.5° | 3385.2 | 3361.0 | 3336.8 | 3340.9 | 3316.7 | 3284.4 | 3272.3 | 3268.3 | 3296.5 | 3320.7 | 3324.7 |
| 20° | 3473.8 | 3453.7 | 3429.5 | 3389.2 | 3328.8 | 3268.3 | 3248.2 | 3248.2 | 3264.3 | 3300.6 | 3300.6 |
| 22.5° | 3570.6 | 3546.4 | 3506.1 | 3413.4 | 3312.6 | 3228.0 | 3207.9 | 3220.0 | 3240.1 | 3288.5 | 3284.4 |
| 25° | 3679.4 | 3647.1 | 3578.6 | 3405.3 | 3260.3 | 3159.5 | 3163.5 | 3199.8 | 3236.1 | 3288.5 | 3288.5 |
| 27.5° | 3800.3 | 3755.9 | 3618.9 | 3340.9 | 3143.4 | 3046.7 | 3082.9 | 3167.6 | 3220.0 | 3276.4 | 3284.4 |
| 30° | 3933.3 | 3893.0 | 3651.2 | 3228.0 | 2954.0 | 2865.3 | 2954.0 | 3091.0 | 3171.6 | 3224.0 | 3236.1 |
| 32.5° | 4094.5 | 4062.2 | 3679.4 | 3082.9 | 2708.1 | 2631.6 | 2760.5 | 2929.8 | 3058.8 | 3119.2 | 3131.3 |
| 35° | 4296.0 | 4263.7 | 3715.6 | 2917.7 | 2478.4 | 2397.8 | 2514.7 | 2688.0 | 2857.3 | 2933.8 | 2958.0 |
| 37.5° | 4557.9 | 4509.5 | 3747.9 | 2740.4 | 2285.0 | 2192.3 | 2248.7 | 2405.9 | 2559.0 | 2663.8 | 2692.0 |
| 40° | 4892.4 | 4815.8 | 3776.1 | 2538.9 | 2115.7 | 2011.0 | 2031.1 | 2107.7 | 2196.3 | 2289.0 | 2325.3 |
| 42.5° | 5363.9 | 5210.8 | 3780.1 | 2325.3 | 1942.5 | 1845.7 | 1837.7 | 1861.9 | 1861.9 | 1861.9 | 1873.9 |
| 45° | 6020.8 | 5730.6 | 3788.2 | 2123.8 | 1765.1 | 1664.4 | 1640.2 | 1632.1 | 1571.7 | 1454.8 | 1446.8 |
| 47.5° | 6851.0 | 6411.7 | 3824.5 | 1954.5 | 1579.8 | 1491.1 | 1458.9 | 1426.6 | 1313.8 | 1192.9 | 1168.7 |
| 50° | 7914.9 | 7201.6 | 3897.0 | 1793.3 | 1422.6 | 1362.1 | 1321.8 | 1245.3 | 1120.3 | 1027.6 | 1003.5 |
| 52.5° | 9140.0 | 8140.6 | 3965.5 | 1624.1 | 1305.7 | 1265.4 | 1217.1 | 1124.4 | 991.4 | 935.0 | 926.9 |
| 55° | 10546.5 | 9188.4 | 4102.5 | 1475.0 | 1205.0 | 1176.8 | 1132.4 | 1043.8 | 943.0 | 902.7 | 898.7 |
| 57.5° | 11985.2 | 10361.1 | 4296.0 | 1342.0 | 1108.2 | 1092.1 | 1092.1 | 1015.6 | 951.1 | 935.0 | 935.0 |
| 60° | 13371.5 | 11368.6 | 4146.9 | 1217.1 | 1019.6 | 1027.6 | 1104.2 | 1084.1 | 1035.7 | 1055.9 | 1067.9 |
| 62.5° | 14447.5 | 11961.0 | 3365.0 | 1116.3 | 955.1 | 1027.6 | 1225.1 | 1225.1 | 1168.7 | 1160.6 | 1160.6 |
| 65° | 14906.9 | 11952.9 | 2365.6 | 1039.7 | 930.9 | 1128.4 | 1366.2 | 1301.7 | 1152.6 | 1096.2 | 1084.1 |
| 67.5° | 14790.0 | 11429.0 | 1632.1 | 987.3 | 922.9 | 1233.2 | 1430.6 | 1249.3 | 1080.0 | 1031.7 | 995.4 |
| 70° | 13762.4 | 10320.8 | 1257.4 | 939.0 | 910.8 | 1188.8 | 1410.5 | 1188.8 | 1023.6 | 979.3 | 947.0 |
| 72.5° | 11102.6 | 8277.6 | 1043.8 | 890.6 | 862.4 | 1100.2 | 1342.0 | 1132.4 | 979.3 | 930.9 | 898.7 |
| 75° | 7080.7 | 5206.7 | 882.6 | 826.1 | 769.7 | 987.3 | 1249.3 | 1076.0 | 930.9 | 866.4 | 842.3 |
| 77.5° | 3405.3 | 2244.7 | 769.7 | 749.6 | 693.2 | 914.8 | 1156.6 | 1003.5 | 866.4 | 814.1 | 797.9 |
| 80° | 1378.3 | 1027.6 | 669.0 | 673.0 | 636.7 | 870.5 | 1092.1 | 935.0 | 802.0 | 745.5 | 717.3 |
| 82.5° | 717.3 | 596.4 | 564.2 | 580.3 | 580.3 | 830.2 | 1043.8 | 878.5 | 745.5 | 721.4 | 628.7 |
| 85° | 386.9 | 370.8 | 435.2 | 467.5 | 503.7 | 749.6 | 971.2 | 818.1 | 681.1 | 584.3 | 564.2 |
| 87.5° | 189.4 | 241.8 | 245.8 | 282.1 | 350.6 | 600.5 | 818.1 | 685.1 | 568.2 | 471.5 | 463.4 |
| 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)