

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: P285787

Luminaire Tested: **USSL-XL-C04-D-U-T3-BZ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C04-D-U-T3-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35645 lumens
Efficiency: N/A
Efficacy: 135.0 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

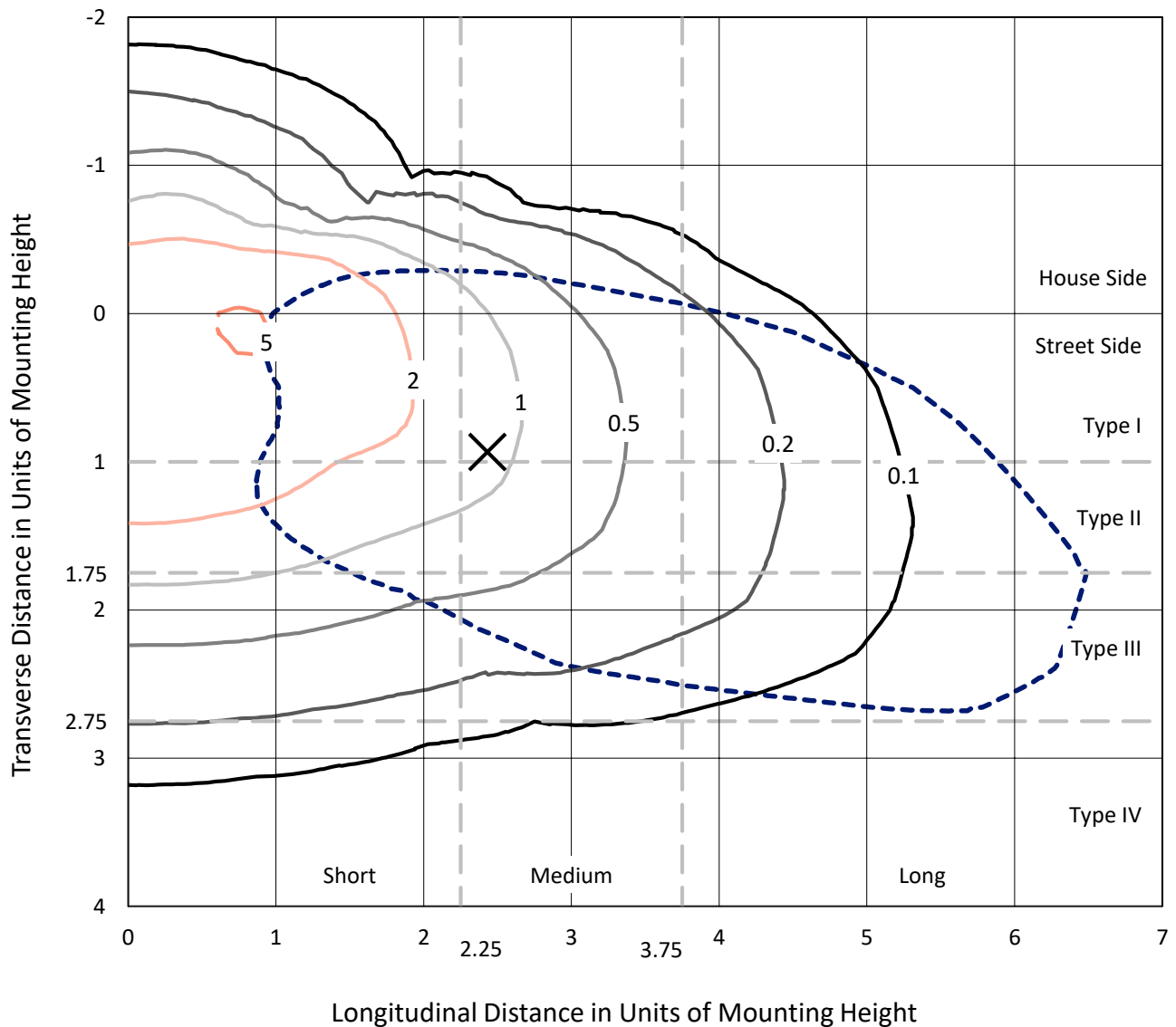
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

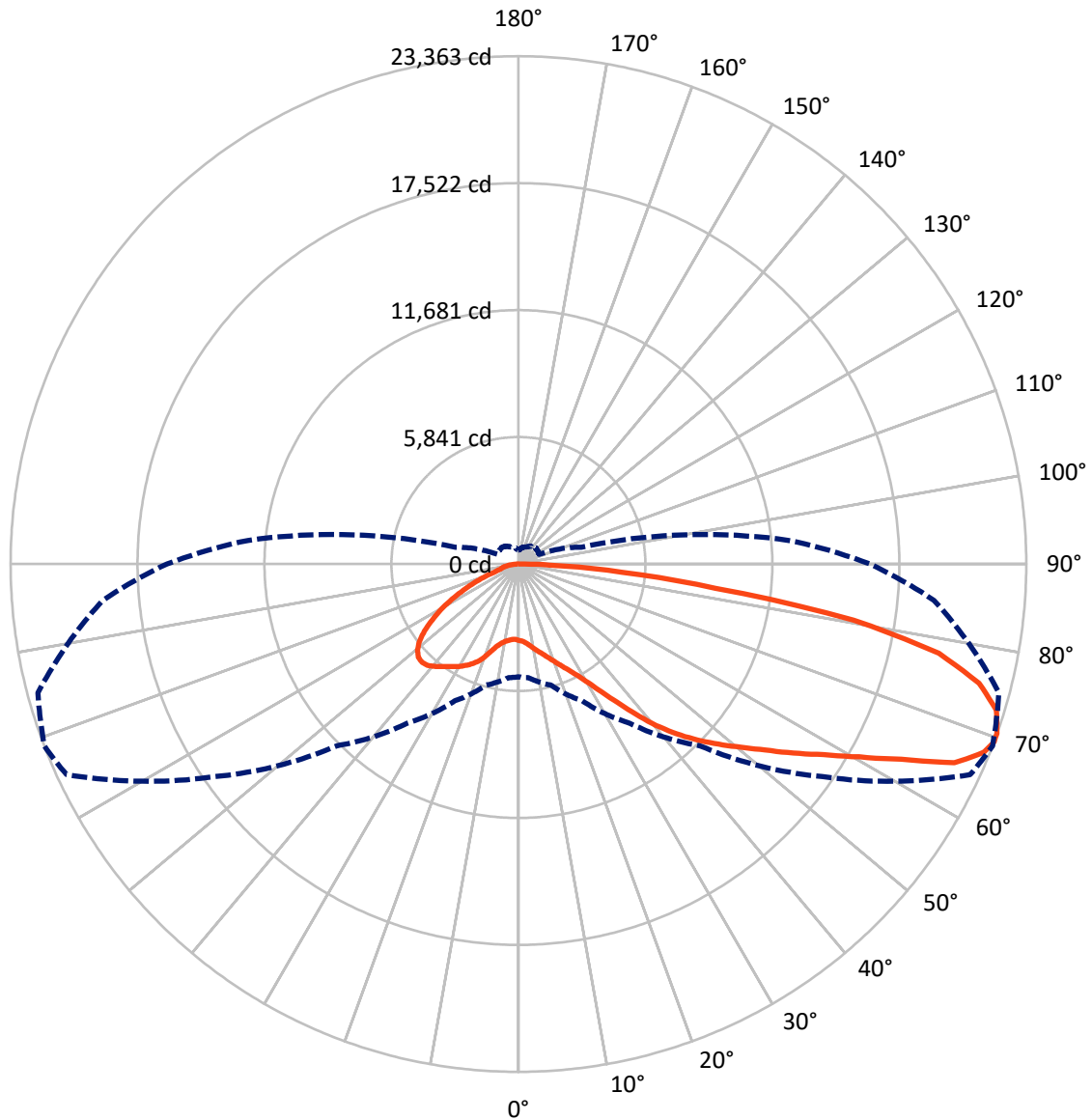
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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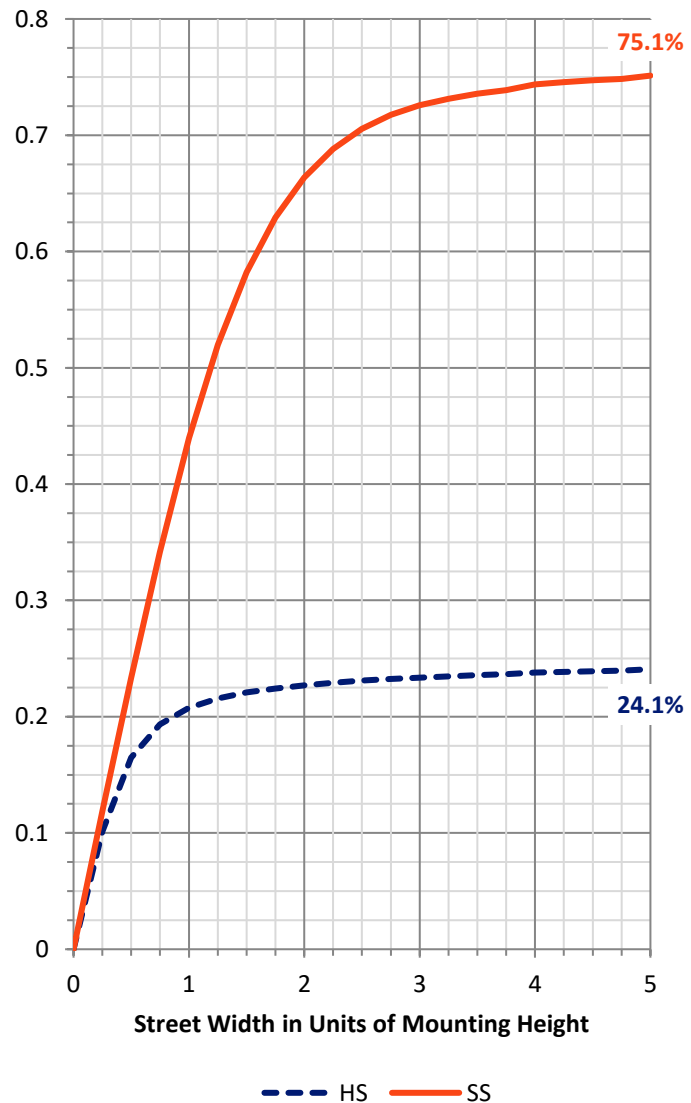
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8763.4 | 0.0 | 8763.4 |
| | % Fixture | 24.6 | 0.0 | 24.6 |
| Street Side | Lumens | 26881.6 | 0.0 | 26881.6 |
| | % Fixture | 75.4 | 0.0 | 75.4 |
| Total | Lumens | 35645.0 | 0.0 | 35645.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 346.4 | 1.0 |
| 10°-20° | 1129.0 | 3.2 |
| 20°-30° | 2114.4 | 5.9 |
| 30°-40° | 3592.7 | 10.1 |
| 40°-50° | 5513.2 | 15.5 |
| 50°-60° | 7203.2 | 20.2 |
| 60°-70° | 8202.2 | 23.0 |
| 70°-80° | 6192.5 | 17.4 |
| 80°-90° | 1351.4 | 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° | 35645.0 | 100.0 |
| 0°-180° | 35645.0 | 100.0 |

Coefficient of Utilization



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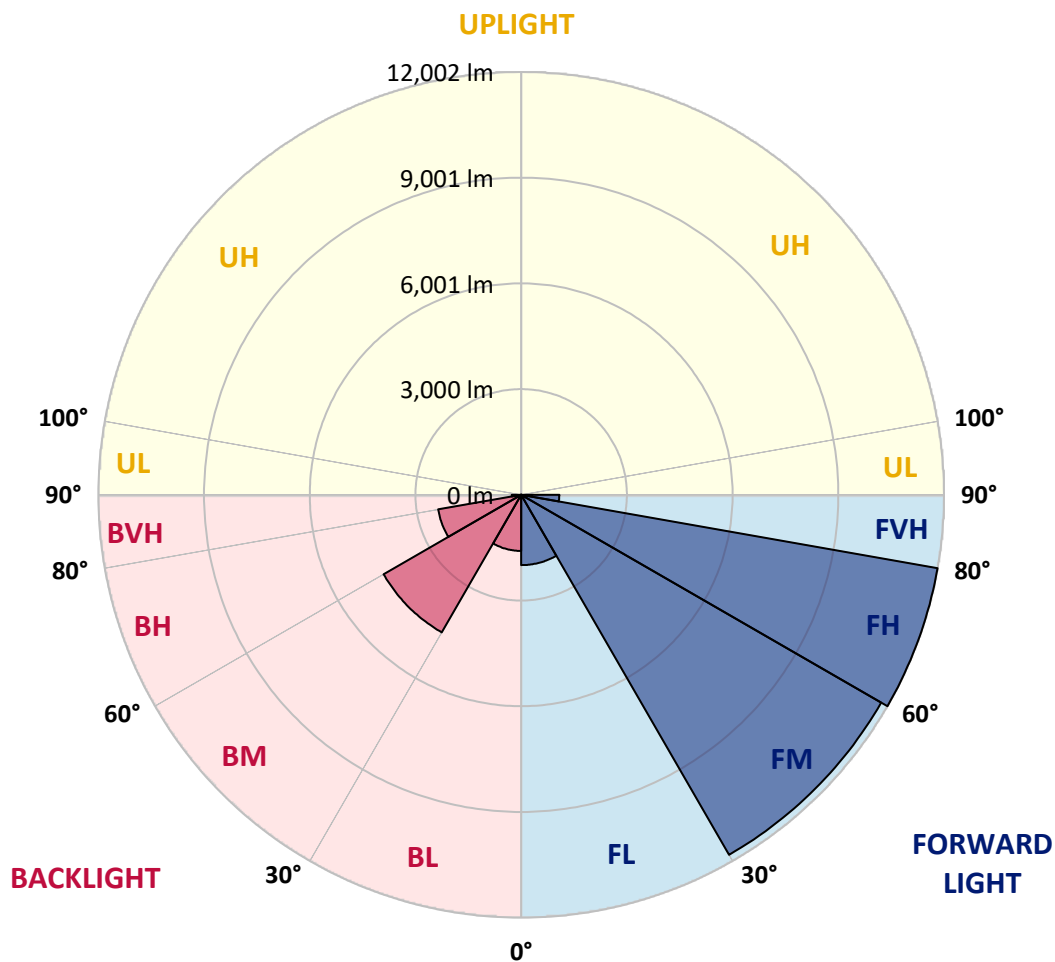
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1996.4 | 5.6 | | | |
| FM (30°-60°) | 11799.9 | 33.1 | | | |
| FH (60°-80°) | 12001.8 | 33.7 | | | G5 |
| FVH (80°-90°) | 1083.5 | 3.0 | | | G5 |
| BL (0°-30°) | 1593.4 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 4509.2 | 12.7 | B3/5000 | | |
| BH (60°-80°) | 2392.9 | 6.7 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 268.0 | 0.8 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 |
| 2.5° | 3650.4 | 3661.4 | 3660.0 | 3654.5 | 3651.8 | 3636.8 | 3617.7 | 3593.1 | 3552.2 | 3533.1 | 3508.5 |
| 5° | 3806.0 | 3814.2 | 3815.6 | 3806.0 | 3795.1 | 3771.9 | 3732.3 | 3694.1 | 3649.1 | 3621.8 | 3574.0 |
| 7.5° | 3938.4 | 3945.2 | 3957.5 | 3949.3 | 3943.8 | 3924.7 | 3886.5 | 3841.5 | 3782.8 | 3744.6 | 3677.7 |
| 10° | 4044.8 | 4050.3 | 4059.8 | 4073.5 | 4099.4 | 4083.0 | 4038.0 | 4006.6 | 3953.4 | 3894.7 | 3811.5 |
| 12.5° | 4121.2 | 4117.2 | 4144.4 | 4169.0 | 4222.2 | 4240.0 | 4208.6 | 4185.4 | 4133.5 | 4073.5 | 3975.2 |
| 15° | 4156.7 | 4155.4 | 4203.1 | 4264.5 | 4343.7 | 4372.3 | 4372.3 | 4346.4 | 4317.8 | 4271.4 | 4167.6 |
| 17.5° | 4233.1 | 4238.6 | 4270.0 | 4349.1 | 4433.8 | 4500.6 | 4564.8 | 4567.5 | 4545.7 | 4514.3 | 4406.5 |
| 20° | 4350.5 | 4360.1 | 4376.4 | 4439.2 | 4533.4 | 4650.7 | 4770.8 | 4814.5 | 4803.6 | 4791.3 | 4706.7 |
| 22.5° | 4497.9 | 4502.0 | 4497.9 | 4552.5 | 4678.0 | 4836.3 | 5009.6 | 5082.0 | 5088.8 | 5090.1 | 5047.8 |
| 25° | 4734.0 | 4716.2 | 4671.2 | 4720.3 | 4866.3 | 5049.2 | 5260.7 | 5380.8 | 5412.2 | 5440.9 | 5541.8 |
| 27.5° | 5165.2 | 5124.3 | 5039.7 | 5023.3 | 5106.5 | 5307.1 | 5569.1 | 5769.7 | 5814.8 | 5893.9 | 6162.8 |
| 30° | 5861.2 | 5806.6 | 5727.4 | 5485.9 | 5453.1 | 5625.1 | 5958.1 | 6244.6 | 6334.7 | 6574.9 | 6884.7 |
| 32.5° | 6566.7 | 6531.2 | 6442.5 | 6210.5 | 5964.9 | 6029.0 | 6356.5 | 6804.2 | 6997.9 | 7483.7 | 7770.3 |
| 35° | 7172.6 | 7154.9 | 7104.4 | 6991.1 | 6705.9 | 6525.8 | 6811.0 | 7433.3 | 7794.9 | 8553.6 | 8811.6 |
| 37.5° | 7756.7 | 7748.5 | 7751.2 | 7597.0 | 7476.9 | 7217.6 | 7332.3 | 8167.4 | 8761.1 | 9674.0 | 9847.3 |
| 40° | 8267.1 | 8271.2 | 8313.5 | 8242.5 | 8222.0 | 8061.0 | 7946.4 | 8950.7 | 9764.1 | 10782.1 | 10823.1 |
| 42.5° | 8686.0 | 8690.1 | 8886.6 | 8780.2 | 8907.1 | 8871.6 | 8706.5 | 9682.2 | 10686.6 | 11678.7 | 11673.2 |
| 45° | 8961.7 | 8968.5 | 9162.3 | 9248.2 | 9517.1 | 9634.4 | 9511.6 | 10432.8 | 11547.7 | 12508.4 | 12400.6 |
| 47.5° | 9166.4 | 9160.9 | 9271.4 | 9618.1 | 10076.6 | 10308.6 | 10353.6 | 11285.7 | 12382.8 | 13276.7 | 13089.7 |
| 50° | 9276.9 | 9289.2 | 9500.7 | 9963.3 | 10640.2 | 10963.6 | 11210.6 | 12292.8 | 13239.8 | 14017.7 | 13754.3 |
| 52.5° | 9346.5 | 9407.9 | 9717.7 | 10267.6 | 11149.2 | 11655.5 | 11965.3 | 13409.1 | 14206.0 | 14787.4 | 14458.5 |
| 55° | 9395.6 | 9507.5 | 9813.2 | 10427.3 | 11465.8 | 12216.4 | 12673.5 | 14560.8 | 15346.9 | 15659.4 | 15230.9 |
| 57.5° | 9044.9 | 9152.7 | 9649.5 | 10451.9 | 11715.5 | 12677.6 | 13428.2 | 15776.7 | 16536.8 | 16734.7 | 15995.1 |
| 60° | 8445.8 | 8510.0 | 9150.0 | 10259.4 | 11660.9 | 13096.6 | 14418.9 | 17219.2 | 18014.8 | 18029.8 | 16800.2 |
| 62.5° | 7829.0 | 7854.9 | 8501.8 | 9757.3 | 11415.3 | 13234.4 | 15409.6 | 19142.0 | 19767.0 | 19575.9 | 17655.9 |
| 65° | 7010.2 | 7038.9 | 7706.2 | 8931.6 | 10821.7 | 13081.5 | 16220.2 | 21168.5 | 22043.2 | 21532.8 | 18504.7 |
| 67.5° | 5940.3 | 6003.1 | 6622.7 | 7758.0 | 9765.4 | 12490.7 | 16801.6 | 22564.5 | 23100.8 | 22661.4 | 19091.5 |
| 69° | 5191.1 | 5249.8 | 5769.7 | 6946.1 | 8942.6 | 11824.7 | 17045.9 | 22933.0 | 23362.8 | 22883.8 | 19189.7 |
| 70° | 4652.1 | 4697.1 | 5184.3 | 6338.8 | 8298.4 | 11255.6 | 17099.1 | 23032.6 | 23349.2 | 22892.0 | 19136.5 |
| 72.5° | 3316.1 | 3354.3 | 3619.1 | 4435.1 | 6289.7 | 9428.4 | 16838.4 | 22762.4 | 22994.4 | 22335.2 | 18439.2 |
| 75° | 2452.3 | 2482.3 | 2640.6 | 2929.9 | 3661.4 | 6671.8 | 15214.5 | 21639.3 | 21886.3 | 21118.0 | 16985.8 |
| 77.5° | 1779.5 | 1804.1 | 1956.9 | 2239.4 | 2576.5 | 3141.4 | 10547.4 | 19529.5 | 19772.4 | 19155.6 | 14622.2 |
| 80° | 1214.5 | 1240.5 | 1378.3 | 1617.1 | 1883.2 | 2090.6 | 5178.9 | 14293.4 | 15632.1 | 15331.9 | 10420.5 |
| 82.5° | 227.9 | 279.8 | 592.3 | 839.3 | 1059.0 | 1132.7 | 1958.3 | 7859.0 | 9132.2 | 9315.1 | 5434.0 |
| 85° | 151.5 | 163.8 | 361.6 | 352.1 | 345.3 | 506.3 | 766.9 | 3767.8 | 4766.7 | 4938.7 | 2345.8 |
| 87.5° | 75.1 | 79.1 | 107.8 | 148.7 | 189.7 | 227.9 | 252.5 | 993.5 | 1435.6 | 1539.3 | 438.1 |
| 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° | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 | 3516.7 |
| 2.5° | 3499.0 | 3492.1 | 3471.7 | 3463.5 | 3458.0 | 3455.3 | 3422.5 | 3417.1 | 3400.7 | 3389.8 | 3380.2 |
| 5° | 3550.8 | 3539.9 | 3492.1 | 3474.4 | 3447.1 | 3423.9 | 3369.3 | 3346.1 | 3329.7 | 3307.9 | 3298.4 |
| 7.5° | 3642.3 | 3623.1 | 3550.8 | 3518.1 | 3470.3 | 3430.7 | 3355.7 | 3320.2 | 3288.8 | 3258.8 | 3253.3 |
| 10° | 3766.4 | 3731.0 | 3631.3 | 3580.8 | 3511.2 | 3464.8 | 3377.5 | 3309.3 | 3262.9 | 3228.8 | 3227.4 |
| 12.5° | 3928.8 | 3875.6 | 3755.5 | 3688.7 | 3602.7 | 3531.7 | 3432.1 | 3329.7 | 3253.3 | 3198.7 | 3196.0 |
| 15° | 4122.6 | 4066.7 | 3945.2 | 3859.2 | 3758.3 | 3662.7 | 3503.1 | 3351.6 | 3224.7 | 3137.3 | 3126.4 |
| 17.5° | 4360.1 | 4306.8 | 4196.3 | 4126.7 | 3984.8 | 3796.5 | 3569.9 | 3343.4 | 3161.9 | 3041.8 | 3024.1 |
| 20° | 4660.3 | 4675.3 | 4571.6 | 4420.1 | 4184.0 | 3907.0 | 3602.7 | 3301.1 | 3037.7 | 2869.9 | 2845.3 |
| 22.5° | 5079.2 | 5129.7 | 4956.4 | 4678.0 | 4335.5 | 3965.7 | 3589.0 | 3189.2 | 2867.1 | 2663.8 | 2643.3 |
| 25° | 5592.3 | 5577.3 | 5264.8 | 4867.7 | 4413.3 | 3964.3 | 3512.6 | 3029.5 | 2650.2 | 2420.9 | 2405.9 |
| 27.5° | 6128.6 | 6038.6 | 5555.5 | 5000.1 | 4426.9 | 3889.3 | 3362.5 | 2789.3 | 2400.4 | 2209.4 | 2164.3 |
| 30° | 6812.3 | 6561.2 | 5853.0 | 5112.0 | 4381.9 | 3746.0 | 3090.9 | 2558.7 | 2257.1 | 2049.7 | 2019.7 |
| 32.5° | 7602.5 | 7184.9 | 6187.3 | 5146.1 | 4282.3 | 3526.3 | 2796.2 | 2452.3 | 2163.0 | 1926.9 | 1892.8 |
| 35° | 8520.9 | 7983.2 | 6574.9 | 5158.4 | 4092.6 | 3200.1 | 2636.5 | 2390.9 | 2100.2 | 1832.7 | 1787.7 |
| 37.5° | 9481.6 | 8829.3 | 7052.5 | 5144.7 | 3871.5 | 2842.6 | 2524.6 | 2302.2 | 2029.2 | 1810.9 | 1785.0 |
| 40° | 10349.5 | 9644.0 | 7591.6 | 5106.5 | 3568.6 | 2610.6 | 2403.2 | 2179.3 | 1967.8 | 1802.7 | 1782.2 |
| 42.5° | 11145.1 | 10353.6 | 8107.4 | 5042.4 | 3190.6 | 2445.5 | 2269.4 | 2087.9 | 1890.0 | 1688.1 | 1647.1 |
| 45° | 11834.3 | 11008.6 | 8489.5 | 4889.5 | 2767.5 | 2276.2 | 2108.4 | 1961.0 | 1774.0 | 1573.4 | 1532.5 |
| 47.5° | 12425.2 | 11549.0 | 8789.7 | 4627.5 | 2426.4 | 2117.9 | 1925.5 | 1809.5 | 1645.8 | 1454.7 | 1413.8 |
| 50° | 13028.3 | 11988.5 | 8965.8 | 4194.9 | 2141.1 | 1936.4 | 1744.0 | 1633.5 | 1492.9 | 1353.7 | 1329.2 |
| 52.5° | 13675.2 | 12702.2 | 9222.3 | 3482.6 | 1877.8 | 1745.4 | 1551.6 | 1431.5 | 1327.8 | 1269.1 | 1245.9 |
| 55° | 14328.8 | 13335.4 | 9316.5 | 2633.8 | 1647.1 | 1595.3 | 1370.1 | 1214.5 | 1140.8 | 1104.0 | 1098.5 |
| 57.5° | 14978.4 | 13875.8 | 8994.4 | 1875.0 | 1494.3 | 1422.0 | 1176.3 | 1028.9 | 941.6 | 967.5 | 1007.1 |
| 60° | 15643.0 | 14270.2 | 8171.5 | 1467.0 | 1374.2 | 1214.5 | 1012.6 | 903.4 | 865.2 | 836.5 | 837.9 |
| 62.5° | 16257.1 | 14454.4 | 6771.4 | 1245.9 | 1258.2 | 1086.3 | 955.3 | 848.8 | 810.6 | 761.5 | 746.5 |
| 65° | 16665.1 | 14129.6 | 5285.3 | 1153.1 | 1153.1 | 1053.5 | 952.5 | 850.2 | 798.3 | 712.3 | 697.3 |
| 67.5° | 16547.8 | 13283.5 | 3911.1 | 1069.9 | 1086.3 | 1067.2 | 975.7 | 847.4 | 783.3 | 701.4 | 696.0 |
| 69° | 16169.8 | 12472.9 | 3003.6 | 1045.3 | 1075.3 | 1079.4 | 1003.0 | 861.1 | 799.7 | 675.5 | 645.5 |
| 70° | 15790.4 | 11847.9 | 2486.4 | 1024.9 | 1072.6 | 1087.6 | 1024.9 | 877.5 | 787.4 | 634.6 | 615.5 |
| 72.5° | 14500.8 | 10013.8 | 1252.8 | 945.7 | 1068.5 | 1097.2 | 1072.6 | 938.9 | 780.6 | 611.4 | 595.0 |
| 75° | 12748.6 | 7702.1 | 803.8 | 878.8 | 1034.4 | 1108.1 | 1110.8 | 996.2 | 783.3 | 597.7 | 577.2 |
| 77.5° | 10214.4 | 4465.1 | 667.3 | 803.8 | 970.3 | 1086.3 | 1123.1 | 1039.9 | 816.1 | 620.9 | 597.7 |
| 80° | 5431.3 | 1765.9 | 536.3 | 686.4 | 888.4 | 1020.8 | 1089.0 | 1024.9 | 807.9 | 518.6 | 503.6 |
| 82.5° | 2404.5 | 548.6 | 393.0 | 539.0 | 698.7 | 892.5 | 925.2 | 902.0 | 706.9 | 313.9 | 358.9 |
| 85° | 675.5 | 226.5 | 262.0 | 387.6 | 483.1 | 631.8 | 724.6 | 727.4 | 548.6 | 136.5 | 31.4 |
| 87.5° | 69.6 | 51.9 | 76.4 | 148.7 | 278.4 | 438.1 | 529.5 | 507.7 | 367.1 | 116.0 | 2.7 |
| 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)