

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: LUMARK

Report Number: P285746

Luminaire Tested: **PRV-XL-C100-D-UNV-T2-BZ-7030**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-5)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C100-D-UNV-T2-BZ-7030
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE II OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30664 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

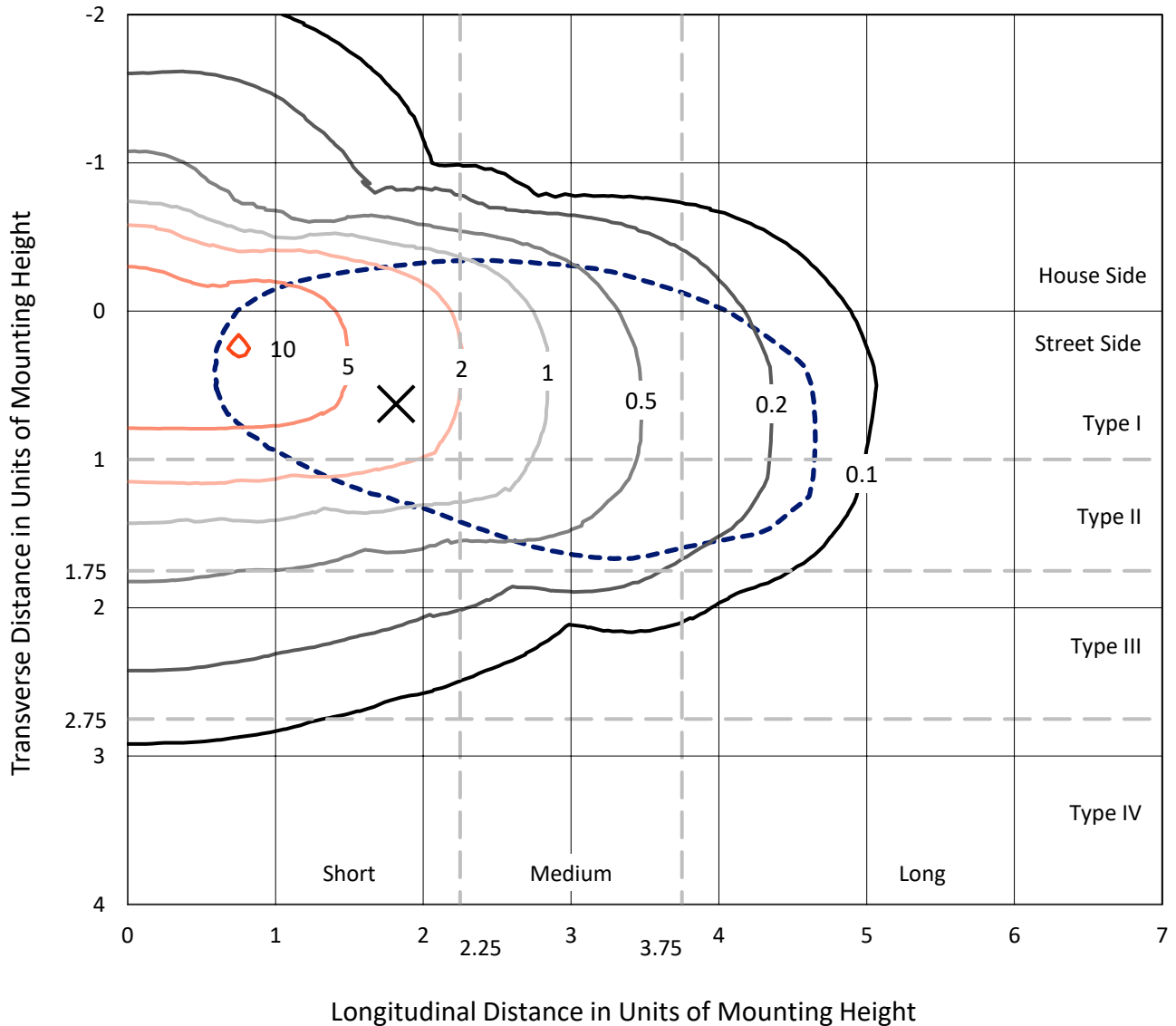
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

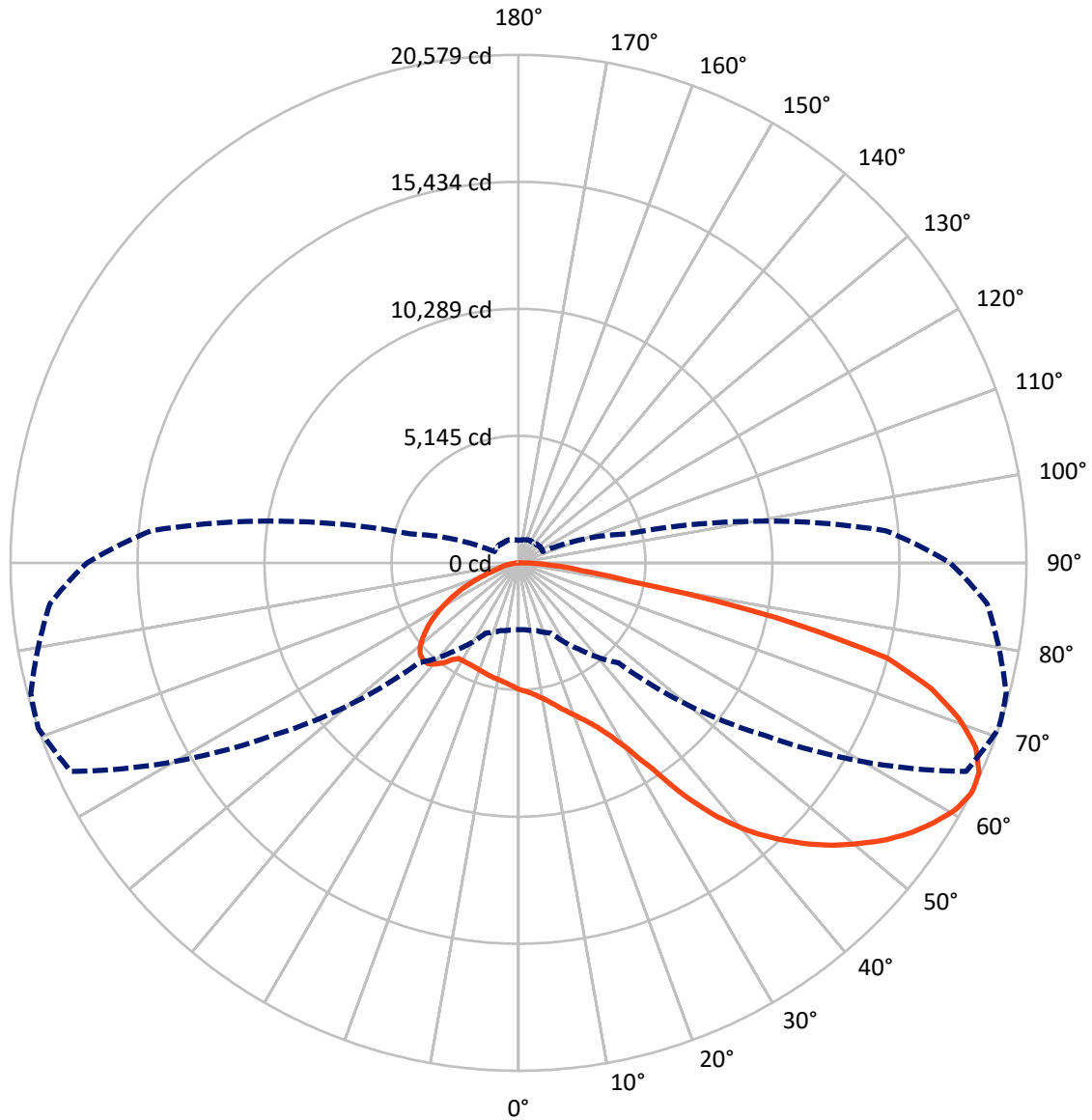
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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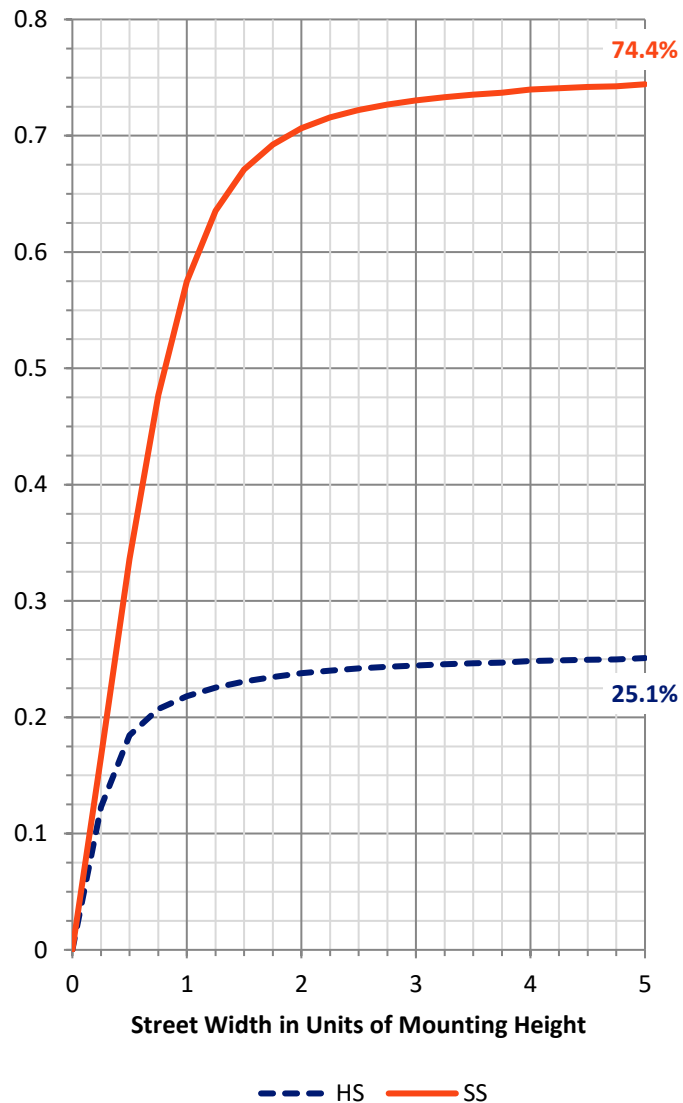
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7830.7 | 0.0 | 7830.7 |
| | % Fixture | 25.5 | 0.0 | 25.5 |
| Street Side | Lumens | 22833.3 | 0.0 | 22833.3 |
| | % Fixture | 74.5 | 0.0 | 74.5 |
| Total | Lumens | 30664.0 | 0.0 | 30664.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 495.3 | 1.6 |
| 10°-20° | 1515.9 | 4.9 |
| 20°-30° | 2569.7 | 8.4 |
| 30°-40° | 3873.1 | 12.6 |
| 40°-50° | 5320.7 | 17.4 |
| 50°-60° | 6186.0 | 20.2 |
| 60°-70° | 6103.8 | 19.9 |
| 70°-80° | 3902.9 | 12.7 |
| 80°-90° | 696.7 | 2.3 |
| 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° | 30664.0 | 100.0 |
| 0°-180° | 30664.0 | 100.0 |

Coefficient of Utilization

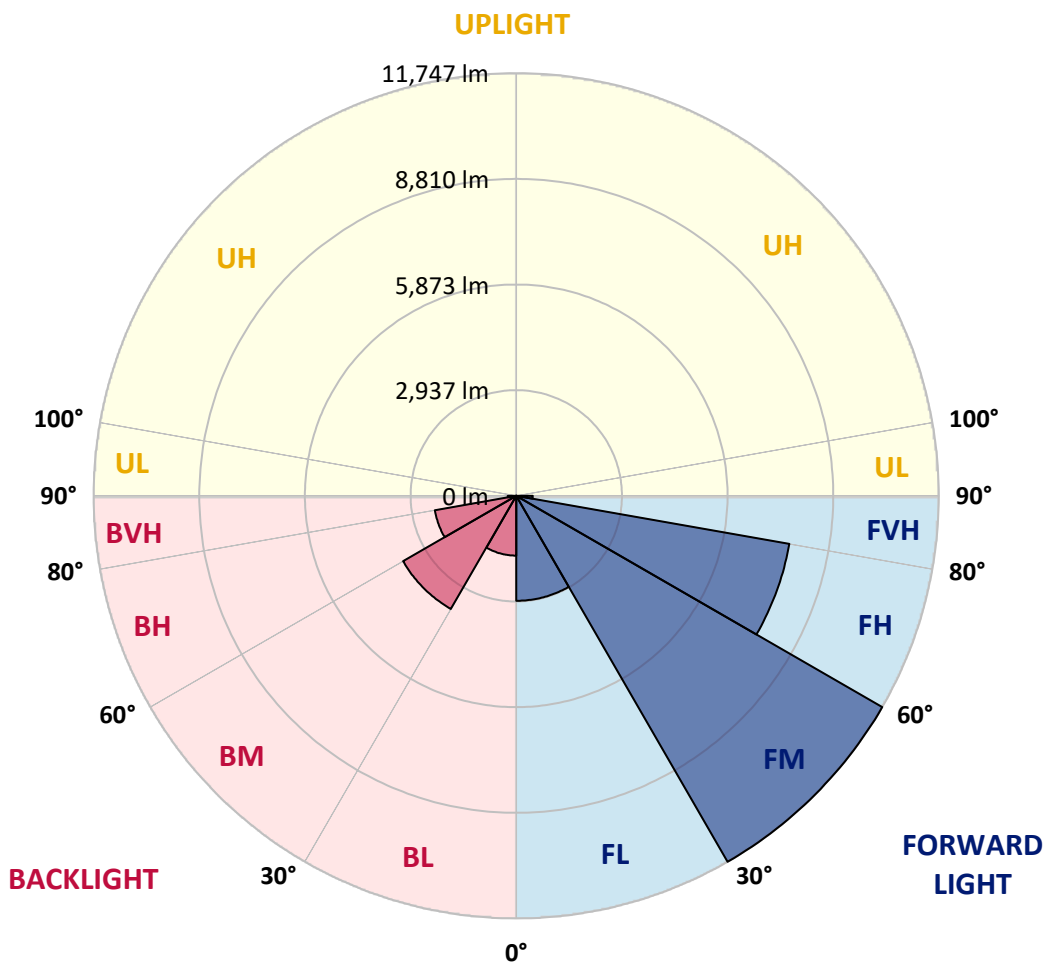


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2918.5 | 9.5 | | | |
| FM (30°-60°) | 11746.8 | 38.3 | | | |
| FH (60°-80°) | 7707.6 | 25.1 | | | G4/12000 |
| FVH (80°-90°) | 460.4 | 1.5 | | | G3/500 |
| BL (0°-30°) | 1662.4 | 5.4 | B3/2500 | | |
| BM (30°-60°) | 3633.0 | 11.8 | B3/5000 | | |
| BH (60°-80°) | 2299.1 | 7.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 236.3 | 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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 |
| 2.5° | 5480.6 | 5470.1 | 5457.3 | 5435.1 | 5409.4 | 5379.0 | 5347.5 | 5276.3 | 5202.7 | 5179.4 | 5129.2 |
| 5° | 5781.8 | 5762.0 | 5745.6 | 5724.6 | 5675.6 | 5613.7 | 5530.8 | 5414.1 | 5299.6 | 5263.4 | 5159.5 |
| 7.5° | 6048.1 | 6025.9 | 5996.7 | 5968.7 | 5914.9 | 5835.6 | 5723.5 | 5575.2 | 5437.4 | 5374.4 | 5205.1 |
| 10° | 6285.1 | 6264.1 | 6248.9 | 6217.3 | 6174.1 | 6078.4 | 5945.3 | 5759.7 | 5599.7 | 5512.1 | 5277.4 |
| 12.5° | 6547.8 | 6530.3 | 6498.7 | 6462.5 | 6405.3 | 6313.1 | 6180.0 | 5978.0 | 5807.5 | 5701.3 | 5388.4 |
| 15° | 6815.1 | 6803.5 | 6747.4 | 6726.4 | 6662.2 | 6555.9 | 6438.0 | 6230.2 | 6056.2 | 5924.3 | 5547.2 |
| 17.5° | 7052.2 | 7044.0 | 7009.0 | 6984.4 | 6931.9 | 6812.8 | 6691.4 | 6501.1 | 6323.6 | 6155.5 | 5723.5 |
| 20° | 7204.0 | 7215.6 | 7208.6 | 7204.0 | 7200.4 | 7102.4 | 6982.1 | 6786.0 | 6607.3 | 6440.4 | 5912.6 |
| 22.5° | 7345.2 | 7349.9 | 7368.6 | 7411.8 | 7473.7 | 7430.5 | 7300.9 | 7119.9 | 6937.7 | 6738.1 | 6157.8 |
| 25° | 7389.6 | 7393.1 | 7465.5 | 7596.3 | 7770.2 | 7788.9 | 7682.7 | 7561.2 | 7362.7 | 7166.6 | 6494.1 |
| 27.5° | 7425.8 | 7435.1 | 7526.2 | 7755.0 | 8061.0 | 8149.7 | 8111.2 | 8071.5 | 7931.4 | 7725.9 | 6945.9 |
| 30° | 7415.3 | 7417.6 | 7568.2 | 7862.5 | 8292.1 | 8531.5 | 8589.9 | 8781.3 | 8746.3 | 8606.2 | 7702.5 |
| 32.5° | 7222.6 | 7205.1 | 7423.5 | 7864.8 | 8473.1 | 8914.5 | 9184.2 | 9729.4 | 9936.1 | 9973.4 | 9215.7 |
| 35° | 6830.3 | 6830.3 | 7157.2 | 7773.7 | 8603.9 | 9292.7 | 9861.4 | 10883.0 | 11580.0 | 11598.7 | 10654.1 |
| 37.5° | 6503.4 | 6524.4 | 6891.0 | 7603.3 | 8664.6 | 9676.9 | 10637.8 | 12293.4 | 13029.0 | 12965.9 | 11855.6 |
| 40° | 6177.7 | 6203.3 | 6579.3 | 7370.9 | 8628.4 | 10008.5 | 11390.9 | 13638.5 | 14250.3 | 14105.5 | 12879.5 |
| 42.5° | 5816.9 | 5836.7 | 6189.3 | 7040.5 | 8503.5 | 10250.2 | 12200.0 | 14786.2 | 15273.1 | 15096.8 | 13813.6 |
| 45° | 5456.1 | 5489.9 | 5807.5 | 6596.8 | 8259.4 | 10394.9 | 12893.6 | 15827.7 | 16222.3 | 16019.2 | 14663.6 |
| 47.5° | 4924.8 | 5055.6 | 5425.7 | 6159.0 | 7816.9 | 10384.4 | 13508.9 | 16762.9 | 17098.0 | 16882.0 | 15429.5 |
| 50° | 3844.8 | 3921.9 | 4738.0 | 5762.0 | 7233.1 | 10175.4 | 13994.6 | 17597.7 | 17884.9 | 17693.5 | 16203.6 |
| 52.5° | 3492.2 | 3513.2 | 3777.1 | 5275.1 | 6586.3 | 9762.1 | 14354.2 | 18369.5 | 18649.7 | 18430.2 | 16904.2 |
| 55° | 3311.2 | 3322.9 | 3452.5 | 4313.0 | 6037.5 | 9000.9 | 14517.7 | 19082.9 | 19294.2 | 19046.7 | 17497.3 |
| 57.5° | 3064.9 | 3101.1 | 3282.1 | 3676.7 | 5475.9 | 7924.3 | 14306.3 | 19643.3 | 19854.7 | 19586.1 | 18064.8 |
| 60° | 2882.7 | 2904.9 | 3060.2 | 3366.1 | 4825.6 | 6665.7 | 13575.4 | 20048.5 | 20333.4 | 20085.8 | 18591.3 |
| 62.5° | 2702.9 | 2715.8 | 2846.6 | 3140.8 | 4266.3 | 5729.3 | 12210.5 | 20001.8 | 20578.5 | 20454.8 | 19058.4 |
| 63° | 2665.6 | 2677.3 | 2808.0 | 3099.9 | 4183.4 | 5537.8 | 11923.3 | 19943.4 | 20578.5 | 20492.1 | 19116.7 |
| 65° | 2499.8 | 2513.8 | 2643.4 | 2909.6 | 3836.7 | 5056.8 | 10641.3 | 19580.3 | 20505.0 | 20545.9 | 19199.6 |
| 67.5° | 2253.4 | 2276.8 | 2384.2 | 2616.5 | 3315.9 | 4470.7 | 8739.3 | 19200.8 | 19977.2 | 20064.8 | 18740.8 |
| 70° | 1962.7 | 1967.4 | 2097.0 | 2292.0 | 2795.2 | 3802.8 | 6736.9 | 18049.6 | 18946.3 | 18984.8 | 17667.8 |
| 72.5° | 1653.3 | 1666.1 | 1782.9 | 1947.5 | 2318.8 | 3149.0 | 4816.3 | 15914.1 | 17505.5 | 17722.7 | 15870.9 |
| 75° | 1443.1 | 1453.6 | 1551.7 | 1667.3 | 1925.3 | 2482.3 | 3221.3 | 11604.6 | 15433.0 | 15674.7 | 13728.4 |
| 77.5° | 1208.4 | 1215.4 | 1318.2 | 1397.6 | 1564.6 | 1872.8 | 2224.2 | 6122.8 | 10629.6 | 11916.3 | 10725.4 |
| 80° | 860.5 | 861.7 | 964.4 | 1026.3 | 1133.7 | 1151.2 | 1413.9 | 3258.7 | 4677.3 | 6044.5 | 7088.4 |
| 82.5° | 186.8 | 268.5 | 404.0 | 507.9 | 568.6 | 478.7 | 695.9 | 1785.2 | 2583.8 | 3084.7 | 3842.5 |
| 85° | 80.6 | 110.9 | 213.7 | 234.7 | 156.5 | 172.8 | 282.6 | 951.6 | 1477.0 | 1758.4 | 1977.9 |
| 87.5° | 15.2 | 19.8 | 54.9 | 73.6 | 45.5 | 47.9 | 57.2 | 304.7 | 517.2 | 607.1 | 677.2 |
| 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° | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 | 5140.8 |
| 2.5° | 5098.8 | 5084.8 | 5038.1 | 5006.6 | 4986.7 | 4961.0 | 4928.3 | 4885.1 | 4872.3 | 4841.9 | 4866.5 |
| 5° | 5102.3 | 5065.0 | 4966.9 | 4895.7 | 4831.4 | 4775.4 | 4710.0 | 4648.1 | 4624.8 | 4583.9 | 4600.3 |
| 7.5° | 5118.7 | 5055.6 | 4903.8 | 4795.2 | 4699.5 | 4623.6 | 4532.5 | 4456.6 | 4429.8 | 4383.1 | 4391.3 |
| 10° | 5161.9 | 5063.8 | 4854.8 | 4722.9 | 4590.9 | 4480.0 | 4373.7 | 4269.8 | 4223.1 | 4182.3 | 4202.1 |
| 12.5° | 5237.8 | 5094.1 | 4832.6 | 4663.3 | 4488.2 | 4352.7 | 4197.4 | 4064.3 | 3999.0 | 3946.4 | 3963.9 |
| 15° | 5352.2 | 5152.5 | 4806.9 | 4578.1 | 4366.7 | 4190.4 | 4000.1 | 3832.0 | 3758.4 | 3717.6 | 3737.4 |
| 17.5° | 5468.9 | 5237.8 | 4791.7 | 4474.2 | 4220.8 | 3991.9 | 3808.6 | 3649.8 | 3515.6 | 3485.2 | 3496.9 |
| 20° | 5606.7 | 5325.3 | 4803.4 | 4364.4 | 4049.2 | 3778.3 | 3561.1 | 3454.9 | 3280.9 | 3220.2 | 3223.7 |
| 22.5° | 5788.8 | 5461.9 | 4813.9 | 4257.0 | 3844.8 | 3542.4 | 3289.1 | 3184.0 | 3017.0 | 2909.6 | 2914.3 |
| 25° | 6050.4 | 5631.2 | 4838.4 | 4157.7 | 3644.0 | 3283.2 | 2990.2 | 2815.0 | 2711.1 | 2574.5 | 2575.7 |
| 27.5° | 6408.8 | 5863.6 | 4887.5 | 4064.3 | 3430.3 | 2985.5 | 2627.0 | 2430.9 | 2339.8 | 2249.9 | 2238.2 |
| 30° | 7020.6 | 6247.7 | 4959.9 | 3961.6 | 3177.0 | 2625.9 | 2244.1 | 2072.4 | 1995.4 | 1921.8 | 1913.7 |
| 32.5° | 8312.0 | 7180.6 | 5060.3 | 3832.0 | 2903.8 | 2217.2 | 1905.5 | 1770.0 | 1661.5 | 1589.1 | 1599.6 |
| 35° | 9637.2 | 8349.3 | 5485.3 | 3677.9 | 2595.5 | 1860.0 | 1651.0 | 1482.8 | 1343.9 | 1287.8 | 1291.3 |
| 37.5° | 10772.1 | 9408.3 | 6123.9 | 3510.9 | 2254.6 | 1629.9 | 1395.3 | 1233.0 | 1122.0 | 1094.0 | 1129.0 |
| 40° | 11716.6 | 10278.2 | 6636.5 | 3334.6 | 1896.1 | 1436.1 | 1137.2 | 1048.5 | 977.3 | 969.1 | 1000.6 |
| 42.5° | 12609.8 | 11064.0 | 7067.3 | 3131.4 | 1562.2 | 1186.3 | 944.6 | 965.6 | 955.1 | 953.9 | 958.6 |
| 45° | 13421.3 | 11792.5 | 7307.9 | 2829.0 | 1326.4 | 971.4 | 892.0 | 971.4 | 988.9 | 986.6 | 973.8 |
| 47.5° | 14160.4 | 12458.0 | 7471.3 | 2391.2 | 1123.2 | 910.7 | 921.2 | 974.9 | 1007.6 | 1013.5 | 999.4 |
| 50° | 14927.5 | 13108.4 | 7497.0 | 1861.1 | 1042.6 | 958.6 | 946.9 | 939.9 | 999.4 | 998.3 | 999.4 |
| 52.5° | 15612.8 | 13666.5 | 7216.8 | 1446.6 | 1084.7 | 1008.8 | 967.9 | 927.1 | 960.9 | 962.1 | 938.7 |
| 55° | 16128.9 | 14124.2 | 6736.9 | 1268.0 | 1119.7 | 1050.8 | 1028.6 | 946.9 | 925.9 | 911.9 | 920.1 |
| 57.5° | 16661.3 | 14532.8 | 6085.4 | 1187.4 | 1130.2 | 1060.2 | 1082.3 | 951.6 | 920.1 | 855.8 | 851.2 |
| 60° | 17173.9 | 14863.3 | 5313.6 | 1133.7 | 1117.4 | 1055.5 | 1048.5 | 987.8 | 927.1 | 831.3 | 798.6 |
| 62.5° | 17485.6 | 14935.6 | 4524.4 | 1081.2 | 1092.9 | 1048.5 | 1011.1 | 1014.6 | 972.6 | 920.1 | 913.0 |
| 63° | 17521.8 | 14911.1 | 4373.7 | 1068.3 | 1087.0 | 1047.3 | 1011.1 | 1017.0 | 972.6 | 941.1 | 942.2 |
| 65° | 17476.3 | 14626.2 | 3783.0 | 1013.5 | 1066.0 | 1028.6 | 995.9 | 966.8 | 894.4 | 914.2 | 937.6 |
| 67.5° | 16964.9 | 13694.5 | 2908.4 | 924.7 | 1019.3 | 998.3 | 950.4 | 878.0 | 812.6 | 799.8 | 813.8 |
| 70° | 15583.7 | 12168.5 | 2060.8 | 788.1 | 935.2 | 959.7 | 938.7 | 830.1 | 764.8 | 753.1 | 781.1 |
| 72.5° | 13666.5 | 10565.4 | 1415.1 | 630.5 | 783.4 | 893.2 | 887.4 | 799.8 | 741.4 | 707.6 | 721.6 |
| 75° | 11504.1 | 8522.1 | 988.9 | 531.2 | 603.6 | 804.5 | 841.8 | 774.1 | 729.7 | 698.2 | 693.5 |
| 77.5° | 8857.2 | 6436.9 | 777.6 | 454.2 | 498.6 | 651.5 | 774.1 | 768.3 | 823.1 | 971.4 | 938.7 |
| 80° | 6034.0 | 4280.3 | 560.4 | 340.9 | 397.0 | 456.5 | 666.7 | 792.8 | 1041.5 | 611.8 | 600.1 |
| 82.5° | 3507.4 | 2515.0 | 350.3 | 226.5 | 237.0 | 310.6 | 418.0 | 837.2 | 697.0 | 275.5 | 347.9 |
| 85° | 1694.2 | 1095.2 | 175.1 | 156.5 | 108.6 | 116.8 | 193.8 | 779.9 | 493.9 | 122.6 | 24.5 |
| 87.5° | 540.6 | 266.2 | 18.7 | 14.0 | 16.3 | 23.4 | 92.2 | 476.4 | 290.7 | 105.1 | 15.2 |
| 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)