

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: P285793

Luminaire Tested: **PRV-XL-C150-D-UNV-T3-BZ**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-7)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C150-D-UNV-T3-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE III OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41124 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

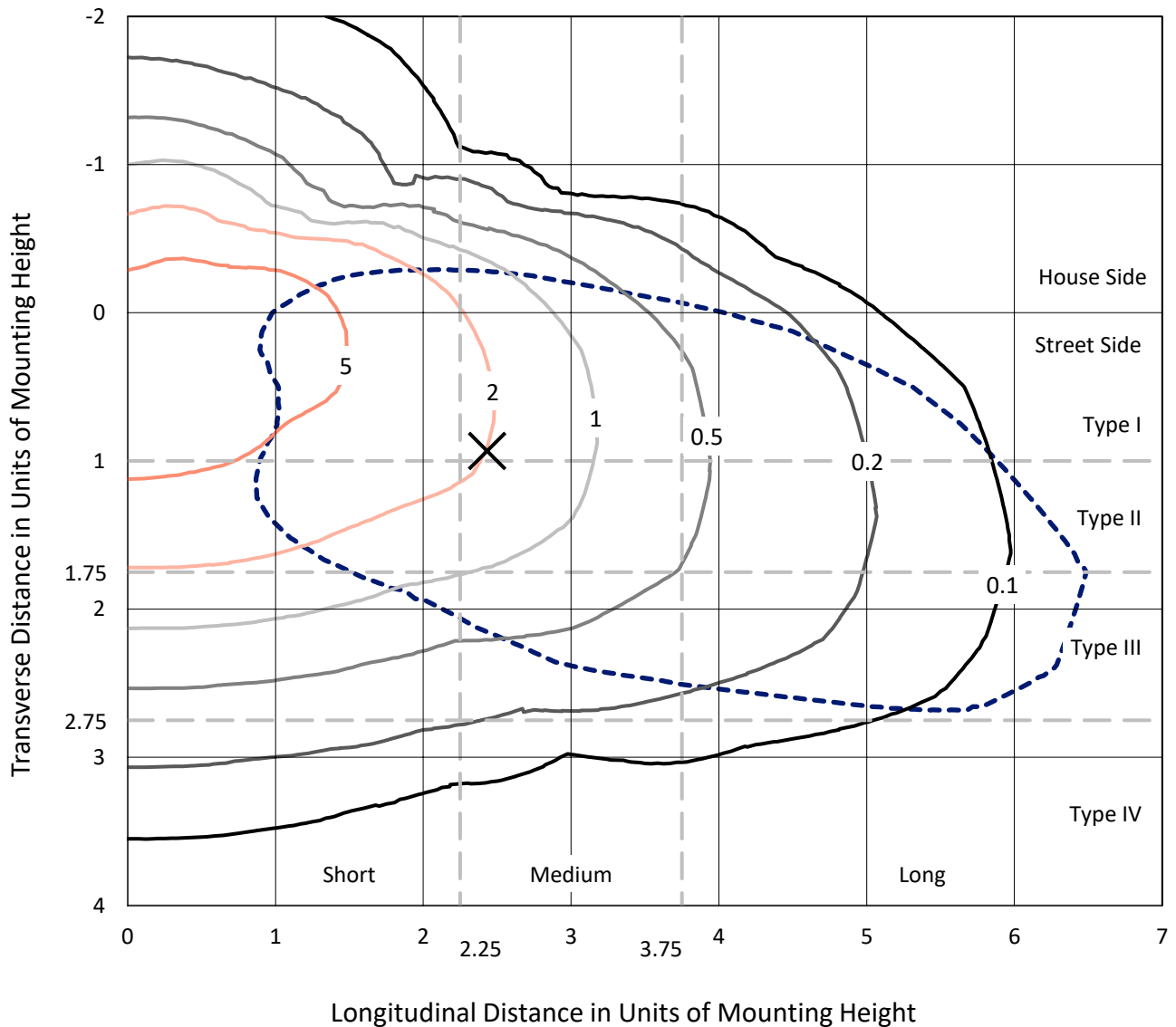
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

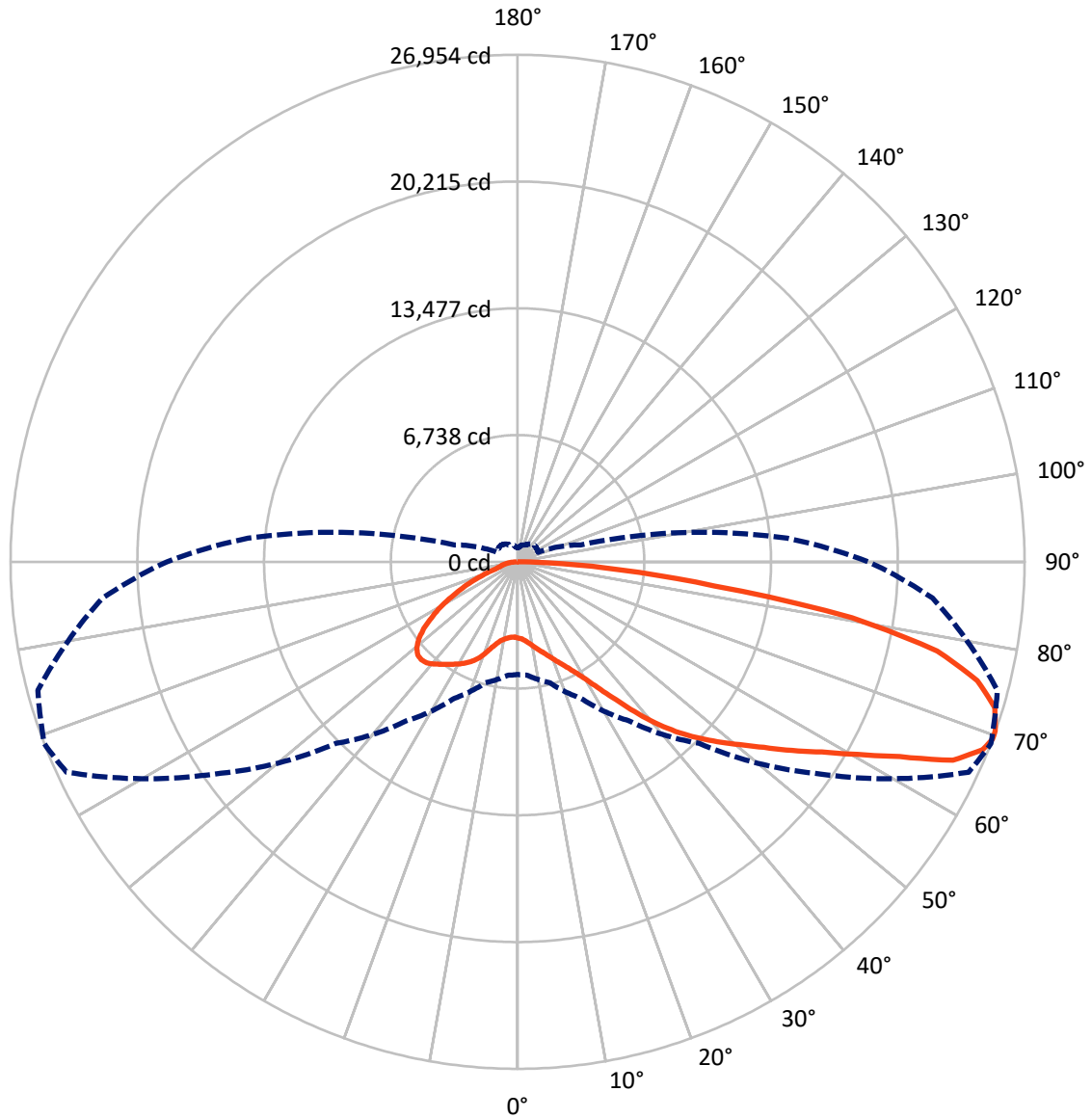
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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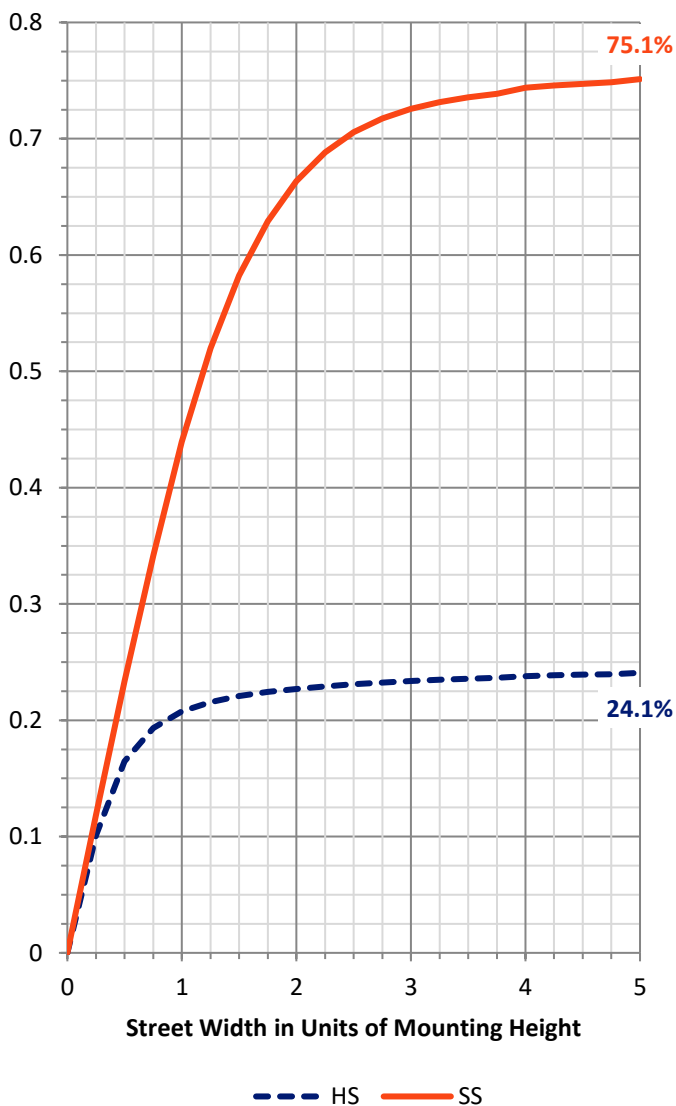
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10110.5 | 0.0 | 10110.5 |
| | % Fixture | 24.6 | 0.0 | 24.6 |
| Street Side | Lumens | 31013.5 | 0.0 | 31013.5 |
| | % Fixture | 75.4 | 0.0 | 75.4 |
| Total | Lumens | 41124.0 | 0.0 | 41124.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 399.7 | 1.0 |
| 10°-20° | 1302.5 | 3.2 |
| 20°-30° | 2439.5 | 5.9 |
| 30°-40° | 4144.9 | 10.1 |
| 40°-50° | 6360.6 | 15.5 |
| 50°-60° | 8310.4 | 20.2 |
| 60°-70° | 9462.9 | 23.0 |
| 70°-80° | 7144.3 | 17.4 |
| 80°-90° | 1559.1 | 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° | 41124.0 | 100.0 |
| 0°-180° | 41124.0 | 100.0 |

Coefficient of Utilization

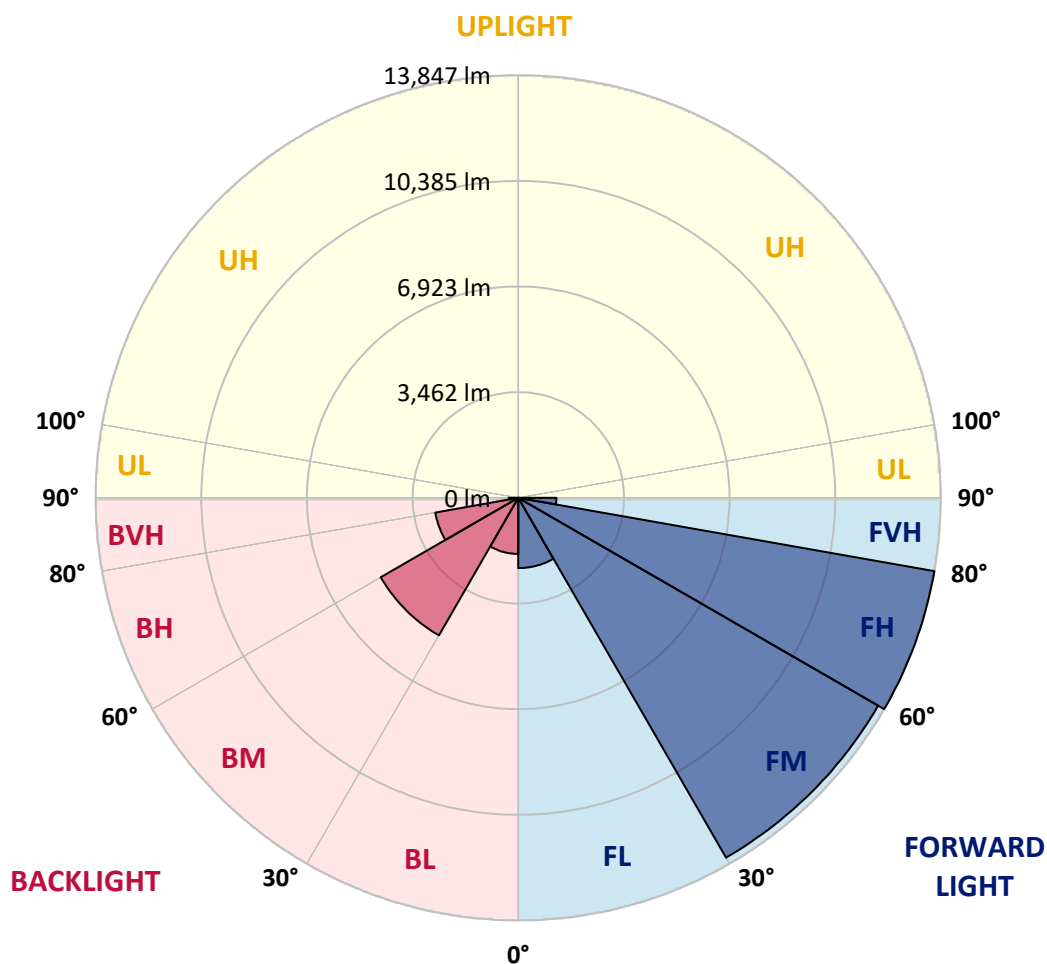


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2303.3 | 5.6 | | | |
| FM (30°-60°) | 13613.7 | 33.1 | | | |
| FH (60°-80°) | 13846.6 | 33.7 | | | G5 |
| FVH (80°-90°) | 1250.0 | 3.0 | | | G5 |
| BL (0°-30°) | 1838.4 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 5202.3 | 12.7 | B4/8500 | | |
| BH (60°-80°) | 2760.7 | 6.7 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 309.1 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 69° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 |
| 2.5° | 4211.6 | 4224.1 | 4222.6 | 4216.3 | 4213.1 | 4195.8 | 4173.8 | 4145.4 | 4098.2 | 4076.2 | 4047.8 |
| 5° | 4391.0 | 4400.5 | 4402.1 | 4391.0 | 4378.4 | 4351.7 | 4306.0 | 4261.9 | 4210.0 | 4178.5 | 4123.4 |
| 7.5° | 4543.8 | 4551.6 | 4565.8 | 4556.3 | 4550.1 | 4528.0 | 4483.9 | 4432.0 | 4364.3 | 4320.2 | 4243.0 |
| 10° | 4666.6 | 4672.9 | 4683.9 | 4699.6 | 4729.5 | 4710.6 | 4658.7 | 4622.5 | 4561.1 | 4493.4 | 4397.3 |
| 12.5° | 4754.7 | 4750.0 | 4781.5 | 4809.8 | 4871.2 | 4891.7 | 4855.5 | 4828.7 | 4768.9 | 4699.6 | 4586.3 |
| 15° | 4795.7 | 4794.1 | 4849.2 | 4920.0 | 5011.4 | 5044.4 | 5044.4 | 5014.5 | 4981.4 | 4927.9 | 4808.3 |
| 17.5° | 4883.8 | 4890.1 | 4926.3 | 5017.7 | 5115.3 | 5192.4 | 5266.4 | 5269.6 | 5244.4 | 5208.2 | 5083.8 |
| 20° | 5019.2 | 5030.2 | 5049.1 | 5121.6 | 5230.2 | 5365.6 | 5504.1 | 5554.5 | 5541.9 | 5527.8 | 5430.1 |
| 22.5° | 5189.3 | 5194.0 | 5189.3 | 5252.2 | 5397.1 | 5579.7 | 5779.7 | 5863.1 | 5871.0 | 5872.6 | 5823.8 |
| 25° | 5461.6 | 5441.2 | 5389.2 | 5445.9 | 5614.4 | 5825.3 | 6069.4 | 6207.9 | 6244.1 | 6277.2 | 6393.7 |
| 27.5° | 5959.2 | 5911.9 | 5814.3 | 5795.4 | 5891.5 | 6122.9 | 6425.2 | 6656.6 | 6708.6 | 6799.9 | 7110.0 |
| 30° | 6762.1 | 6699.1 | 6607.8 | 6329.1 | 6291.4 | 6489.7 | 6873.9 | 7204.5 | 7308.4 | 7585.5 | 7942.9 |
| 32.5° | 7576.1 | 7535.1 | 7432.8 | 7165.2 | 6881.8 | 6955.8 | 7333.6 | 7850.0 | 8073.6 | 8634.1 | 8964.7 |
| 35° | 8275.1 | 8254.6 | 8196.4 | 8065.7 | 7736.7 | 7528.8 | 7857.9 | 8575.8 | 8993.0 | 9868.4 | 10166.0 |
| 37.5° | 8949.0 | 8939.5 | 8942.7 | 8764.8 | 8626.2 | 8327.1 | 8459.3 | 9422.9 | 10107.7 | 11161.0 | 11361.0 |
| 40° | 9537.8 | 9542.5 | 9591.3 | 9509.5 | 9485.8 | 9300.1 | 9167.8 | 10326.6 | 11264.9 | 12439.4 | 12486.7 |
| 42.5° | 10021.1 | 10025.9 | 10252.6 | 10129.8 | 10276.2 | 10235.3 | 10044.8 | 11170.5 | 12329.2 | 13473.8 | 13467.5 |
| 45° | 10339.2 | 10347.0 | 10570.6 | 10669.8 | 10980.0 | 11115.4 | 10973.7 | 12036.4 | 13322.7 | 14431.1 | 14306.7 |
| 47.5° | 10575.3 | 10569.0 | 10696.6 | 11096.5 | 11625.5 | 11893.1 | 11945.1 | 13020.4 | 14286.2 | 15317.5 | 15101.8 |
| 50° | 10702.9 | 10717.0 | 10961.1 | 11494.8 | 12275.7 | 12648.8 | 12933.8 | 14182.3 | 15274.9 | 16172.4 | 15868.5 |
| 52.5° | 10783.1 | 10854.0 | 11211.4 | 11845.9 | 12862.9 | 13447.1 | 13804.4 | 15470.2 | 16389.6 | 17060.3 | 16680.9 |
| 55° | 10839.8 | 10968.9 | 11321.6 | 12030.1 | 13228.2 | 14094.1 | 14621.6 | 16799.0 | 17705.8 | 18066.4 | 17572.0 |
| 57.5° | 10435.2 | 10559.6 | 11132.7 | 12058.4 | 13516.3 | 14626.3 | 15492.2 | 18201.8 | 19078.7 | 19307.0 | 18453.7 |
| 60° | 9744.0 | 9818.0 | 10556.4 | 11836.4 | 13453.4 | 15109.6 | 16635.2 | 19865.9 | 20783.8 | 20801.1 | 19382.6 |
| 62.5° | 9032.4 | 9062.3 | 9808.6 | 11257.0 | 13170.0 | 15268.7 | 17778.3 | 22084.3 | 22805.4 | 22584.9 | 20369.7 |
| 65° | 8087.8 | 8120.8 | 8890.7 | 10304.5 | 12485.1 | 15092.3 | 18713.5 | 24422.3 | 25431.5 | 24842.7 | 21349.0 |
| 67.5° | 6853.4 | 6925.8 | 7640.6 | 8950.5 | 11266.5 | 14410.6 | 19384.2 | 26032.9 | 26651.7 | 26144.7 | 22026.0 |
| 69° | 5989.1 | 6056.8 | 6656.6 | 8013.8 | 10317.1 | 13642.3 | 19666.0 | 26458.0 | 26953.9 | 26401.3 | 22139.4 |
| 70° | 5367.2 | 5419.1 | 5981.2 | 7313.1 | 9574.0 | 12985.8 | 19727.4 | 26572.9 | 26938.2 | 26410.8 | 22078.0 |
| 72.5° | 3825.8 | 3869.9 | 4175.3 | 5116.8 | 7256.5 | 10877.6 | 19426.7 | 26261.2 | 26528.8 | 25768.4 | 21273.5 |
| 75° | 2829.2 | 2863.9 | 3046.5 | 3380.3 | 4224.1 | 7697.3 | 17553.1 | 24965.5 | 25250.4 | 24364.0 | 19596.7 |
| 77.5° | 2053.0 | 2081.4 | 2257.7 | 2583.6 | 2972.5 | 3624.3 | 12168.6 | 22531.4 | 22811.7 | 22100.0 | 16869.8 |
| 80° | 1401.2 | 1431.1 | 1590.2 | 1865.7 | 2172.7 | 2412.0 | 5974.9 | 16490.4 | 18034.9 | 17688.5 | 12022.2 |
| 82.5° | 262.9 | 322.8 | 683.3 | 968.3 | 1221.7 | 1306.8 | 2259.3 | 9067.0 | 10536.0 | 10746.9 | 6269.3 |
| 85° | 174.8 | 188.9 | 417.2 | 406.2 | 398.3 | 584.1 | 884.8 | 4347.0 | 5499.4 | 5697.8 | 2706.4 |
| 87.5° | 86.6 | 91.3 | 124.4 | 171.6 | 218.8 | 262.9 | 291.3 | 1146.2 | 1656.3 | 1775.9 | 505.4 |
| 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° | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 | 4057.3 |
| 2.5° | 4036.8 | 4028.9 | 4005.3 | 3995.9 | 3989.6 | 3986.4 | 3948.6 | 3942.3 | 3923.4 | 3910.8 | 3899.8 |
| 5° | 4096.6 | 4084.0 | 4028.9 | 4008.5 | 3977.0 | 3950.2 | 3887.2 | 3860.5 | 3841.6 | 3816.4 | 3805.4 |
| 7.5° | 4202.1 | 4180.1 | 4096.6 | 4058.8 | 4003.7 | 3958.1 | 3871.5 | 3830.5 | 3794.3 | 3759.7 | 3753.4 |
| 10° | 4345.4 | 4304.4 | 4189.5 | 4131.3 | 4051.0 | 3997.4 | 3896.7 | 3817.9 | 3764.4 | 3725.1 | 3723.5 |
| 12.5° | 4532.7 | 4471.3 | 4332.8 | 4255.6 | 4156.4 | 4074.6 | 3959.6 | 3841.6 | 3753.4 | 3690.4 | 3687.3 |
| 15° | 4756.3 | 4691.7 | 4551.6 | 4452.4 | 4335.9 | 4225.7 | 4041.5 | 3866.8 | 3720.3 | 3619.6 | 3607.0 |
| 17.5° | 5030.2 | 4968.8 | 4841.3 | 4761.0 | 4597.3 | 4380.0 | 4118.7 | 3857.3 | 3647.9 | 3509.4 | 3488.9 |
| 20° | 5376.6 | 5393.9 | 5274.3 | 5099.5 | 4827.1 | 4507.5 | 4156.4 | 3808.5 | 3504.6 | 3311.0 | 3282.6 |
| 22.5° | 5860.0 | 5918.2 | 5718.3 | 5397.1 | 5001.9 | 4575.2 | 4140.7 | 3679.4 | 3307.8 | 3073.3 | 3049.6 |
| 25° | 6451.9 | 6434.6 | 6074.1 | 5615.9 | 5091.6 | 4573.7 | 4052.5 | 3495.2 | 3057.5 | 2793.0 | 2775.7 |
| 27.5° | 7070.7 | 6966.8 | 6409.4 | 5768.6 | 5107.4 | 4487.1 | 3879.4 | 3218.1 | 2769.4 | 2549.0 | 2497.0 |
| 30° | 7859.5 | 7569.8 | 6752.7 | 5897.7 | 5055.4 | 4321.8 | 3566.0 | 2952.0 | 2604.1 | 2364.8 | 2330.1 |
| 32.5° | 8771.1 | 8289.3 | 7138.4 | 5937.1 | 4940.5 | 4068.3 | 3226.0 | 2829.2 | 2495.4 | 2223.1 | 2183.7 |
| 35° | 9830.6 | 9210.3 | 7585.5 | 5951.3 | 4721.7 | 3692.0 | 3041.8 | 2758.4 | 2423.0 | 2114.4 | 2062.5 |
| 37.5° | 10939.0 | 10186.4 | 8136.6 | 5935.5 | 4466.6 | 3279.5 | 2912.7 | 2656.0 | 2341.2 | 2089.2 | 2059.3 |
| 40° | 11940.3 | 11126.4 | 8758.5 | 5891.5 | 4117.1 | 3011.9 | 2772.5 | 2514.3 | 2270.3 | 2079.8 | 2056.2 |
| 42.5° | 12858.2 | 11945.1 | 9353.6 | 5817.5 | 3681.0 | 2821.3 | 2618.2 | 2408.9 | 2180.6 | 1947.5 | 1900.3 |
| 45° | 13653.3 | 12700.8 | 9794.4 | 5641.1 | 3192.9 | 2626.1 | 2432.5 | 2262.4 | 2046.7 | 1815.3 | 1768.1 |
| 47.5° | 14335.0 | 13324.3 | 10140.8 | 5338.8 | 2799.3 | 2443.5 | 2221.5 | 2087.7 | 1898.7 | 1678.3 | 1631.1 |
| 50° | 15030.9 | 13831.2 | 10343.9 | 4839.7 | 2470.3 | 2234.1 | 2012.1 | 1884.6 | 1722.4 | 1561.8 | 1533.5 |
| 52.5° | 15777.2 | 14654.6 | 10639.9 | 4017.9 | 2166.4 | 2013.7 | 1790.1 | 1651.6 | 1531.9 | 1464.2 | 1437.4 |
| 55° | 16531.3 | 15385.2 | 10748.5 | 3038.6 | 1900.3 | 1840.5 | 1580.7 | 1401.2 | 1316.2 | 1273.7 | 1267.4 |
| 57.5° | 17280.7 | 16008.6 | 10377.0 | 2163.2 | 1724.0 | 1640.5 | 1357.1 | 1187.1 | 1086.3 | 1116.3 | 1161.9 |
| 60° | 18047.5 | 16463.6 | 9427.6 | 1692.5 | 1585.4 | 1401.2 | 1168.2 | 1042.3 | 998.2 | 965.1 | 966.7 |
| 62.5° | 18756.0 | 16676.2 | 7812.2 | 1437.4 | 1451.6 | 1253.2 | 1102.1 | 979.3 | 935.2 | 878.5 | 861.2 |
| 65° | 19226.7 | 16301.5 | 6097.7 | 1330.4 | 1330.4 | 1215.4 | 1098.9 | 980.9 | 921.0 | 821.8 | 804.5 |
| 67.5° | 19091.3 | 15325.3 | 4512.3 | 1234.3 | 1253.2 | 1231.2 | 1125.7 | 977.7 | 903.7 | 809.2 | 803.0 |
| 69° | 18655.2 | 14390.1 | 3465.3 | 1206.0 | 1240.6 | 1245.4 | 1157.2 | 993.5 | 922.6 | 779.3 | 744.7 |
| 70° | 18217.5 | 13669.0 | 2868.6 | 1182.4 | 1237.5 | 1254.8 | 1182.4 | 1012.3 | 908.4 | 732.1 | 710.1 |
| 72.5° | 16729.7 | 11553.0 | 1445.3 | 1091.1 | 1232.8 | 1265.8 | 1237.5 | 1083.2 | 900.6 | 705.3 | 686.4 |
| 75° | 14708.2 | 8886.0 | 927.3 | 1013.9 | 1193.4 | 1278.4 | 1281.6 | 1149.3 | 903.7 | 689.6 | 666.0 |
| 77.5° | 11784.5 | 5151.5 | 769.9 | 927.3 | 1119.4 | 1253.2 | 1295.7 | 1199.7 | 941.5 | 716.4 | 689.6 |
| 80° | 6266.2 | 2037.3 | 618.7 | 791.9 | 1024.9 | 1177.7 | 1256.4 | 1182.4 | 932.1 | 598.3 | 581.0 |
| 82.5° | 2774.1 | 632.9 | 453.4 | 621.9 | 806.1 | 1029.7 | 1067.5 | 1040.7 | 815.5 | 362.1 | 414.1 |
| 85° | 779.3 | 261.4 | 302.3 | 447.1 | 557.3 | 729.0 | 836.0 | 839.2 | 632.9 | 157.4 | 36.2 |
| 87.5° | 80.3 | 59.8 | 88.2 | 171.6 | 321.2 | 505.4 | 610.9 | 585.7 | 423.5 | 133.8 | 3.1 |
| 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)