

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: P622485

Luminaire Tested: **PRV-M-C250-D-U-T2-BZ-7030-HSS**

Issue Date: 9/29/2022

Test Information

Test Method: LM-79-08
Report Number: P622485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2204-605-2)
Test Lab: INNOVATION CENTER
Issue Date: 9/29/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-M-C250-D-U-T2-BZ-7030-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62432 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1.83' x L: 1.75' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

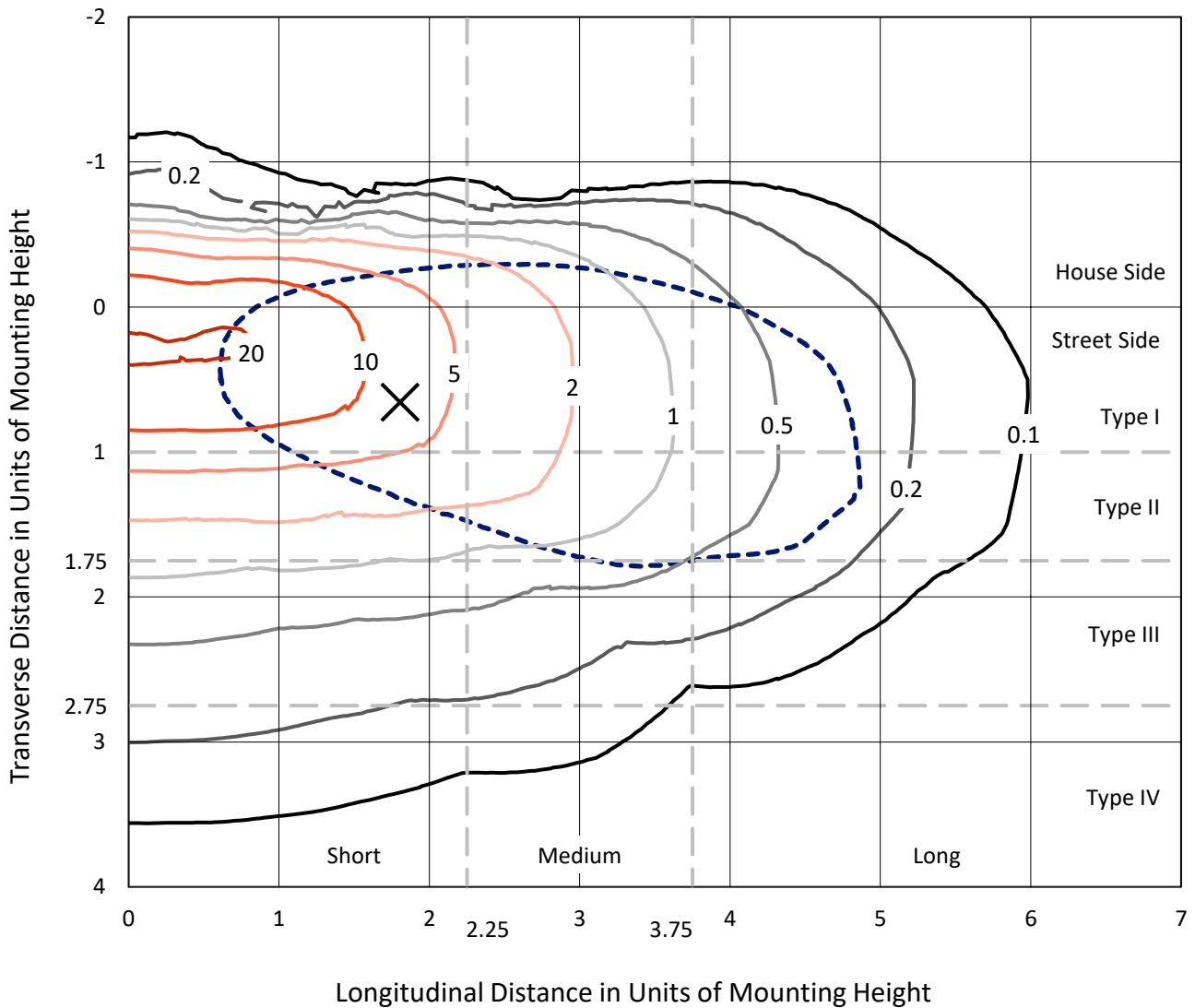
Input Watts (W): 486.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

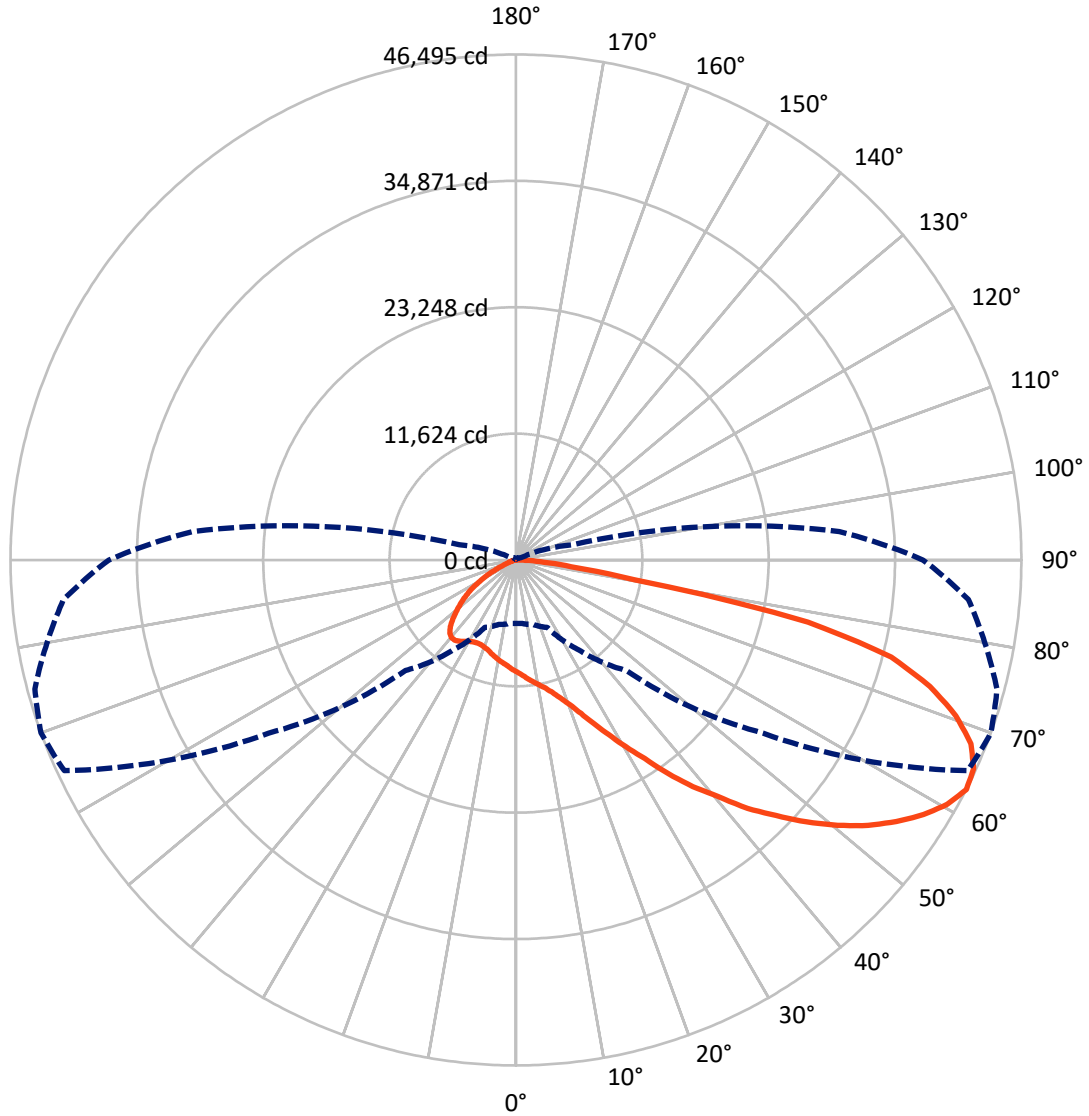
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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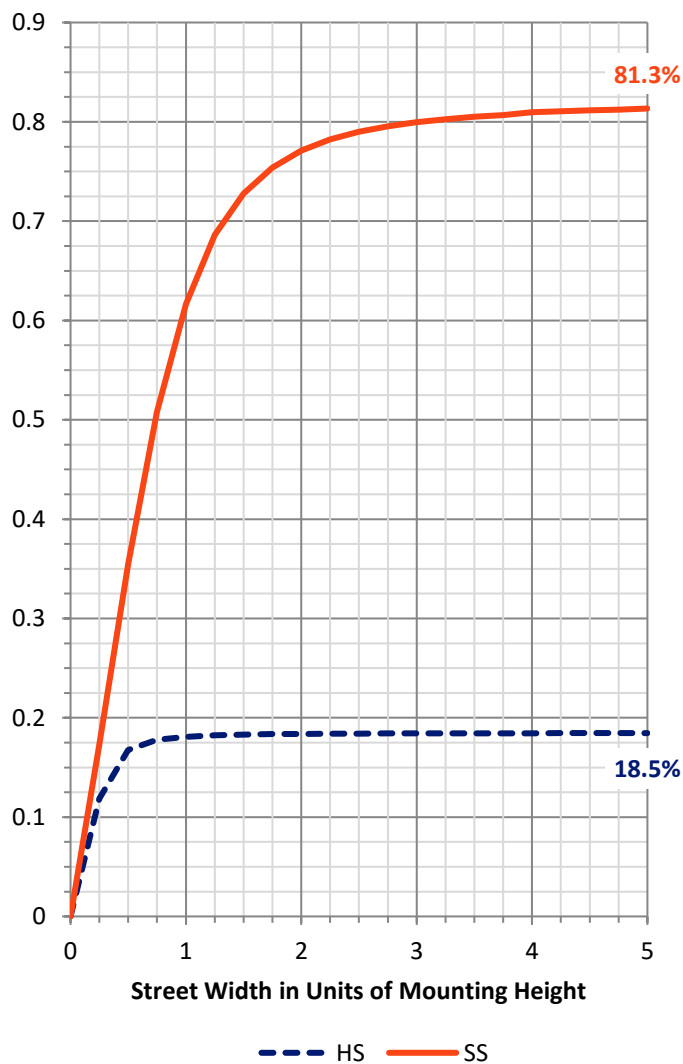
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11659.8 | 0.0 | 11659.8 |
| | % Fixture | 18.7 | 0.0 | 18.7 |
| Street Side | Lumens | 50772.2 | 0.0 | 50772.2 |
| | % Fixture | 81.3 | 0.0 | 81.3 |
| Total | Lumens | 62432.0 | 0.0 | 62432.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 988.1 | 1.6 |
| 10°-20° | 2994.9 | 4.8 |
| 20°-30° | 5177.4 | 8.3 |
| 30°-40° | 7834.3 | 12.5 |
| 40°-50° | 10668.4 | 17.1 |
| 50°-60° | 12596.6 | 20.2 |
| 60°-70° | 12738.7 | 20.4 |
| 70°-80° | 8371.2 | 13.4 |
| 80°-90° | 1062.3 | 1.7 |
| 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° | 62432.0 | 100.0 |
| 0°-180° | 62432.0 | 100.0 |

Coefficient of Utilization

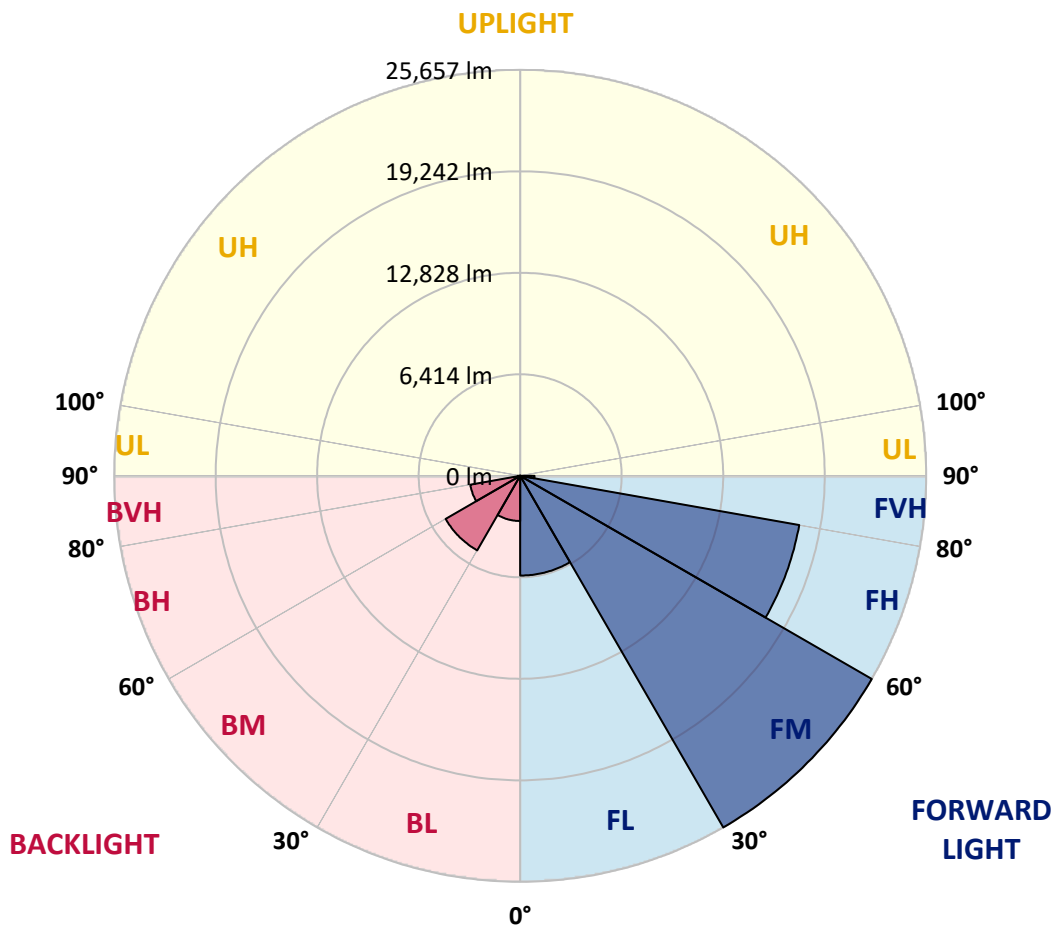


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6302.1 | 10.1 | | | |
| FM (30°-60°) | 25656.5 | 41.1 | | | |
| FH (60°-80°) | 17906.6 | 28.7 | | | G5 |
| FVH (80°-90°) | 906.9 | 1.5 | | | G5 |
| BL (0°-30°) | 2858.4 | 4.6 | B4/5000 | | |
| BM (30°-60°) | 5442.8 | 8.7 | B4/8500 | | |
| BH (60°-80°) | 3203.2 | 5.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 155.4 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 |
| 2.5° | 11045.8 | 11041.8 | 11069.8 | 11047.1 | 10959.0 | 10825.6 | 10777.5 | 10668.0 | 10583.9 | 10522.5 | 10414.4 |
| 5° | 11856.1 | 11857.4 | 11862.7 | 11763.9 | 11625.1 | 11451.6 | 11280.7 | 11081.8 | 10941.7 | 10792.2 | 10537.2 |
| 7.5° | 12575.5 | 12588.9 | 12595.6 | 12506.1 | 12315.2 | 12060.3 | 11792.0 | 11514.3 | 11302.1 | 11115.2 | 10701.4 |
| 10° | 13186.9 | 13220.3 | 13206.9 | 13149.5 | 12934.6 | 12699.7 | 12353.9 | 11949.5 | 11669.2 | 11418.2 | 10860.3 |
| 12.5° | 13807.6 | 13822.3 | 13787.6 | 13660.8 | 13513.9 | 13264.3 | 12906.6 | 12451.4 | 12100.3 | 11802.7 | 11072.5 |
| 15° | 14439.0 | 14440.3 | 14382.9 | 14253.4 | 14043.9 | 13845.0 | 13535.3 | 13048.1 | 12661.0 | 12293.9 | 11383.5 |
| 17.5° | 14950.2 | 14998.3 | 14918.2 | 14824.7 | 14671.2 | 14437.6 | 14233.4 | 13771.5 | 13368.4 | 12947.9 | 11833.4 |
| 20° | 15416.1 | 15456.1 | 15461.5 | 15372.0 | 15314.6 | 15138.4 | 14978.2 | 14624.5 | 14204.0 | 13740.8 | 12434.0 |
| 22.5° | 15793.8 | 15841.9 | 15902.0 | 15976.7 | 16066.1 | 15971.4 | 15942.0 | 15685.7 | 15324.0 | 14811.4 | 13281.7 |
| 25° | 16058.1 | 16103.5 | 16341.1 | 16600.1 | 16793.6 | 16928.4 | 17072.6 | 17007.2 | 16686.8 | 16112.9 | 14392.2 |
| 27.5° | 16172.9 | 16238.3 | 16577.4 | 17072.6 | 17581.2 | 17912.2 | 18340.7 | 18488.9 | 18195.2 | 17746.7 | 15736.4 |
| 30° | 16210.3 | 16287.7 | 16696.2 | 17356.9 | 18263.3 | 18978.8 | 19594.1 | 20074.7 | 19934.5 | 19471.3 | 17356.9 |
| 32.5° | 16064.8 | 16118.2 | 16578.7 | 17505.1 | 18785.2 | 20052.0 | 20866.2 | 21784.6 | 21769.9 | 21549.7 | 19216.4 |
| 35° | 15574.9 | 15663.0 | 16249.0 | 17483.7 | 19229.7 | 21019.7 | 22129.0 | 23652.0 | 24141.9 | 23917.7 | 21489.6 |
| 37.5° | 14938.2 | 15023.6 | 15733.8 | 17223.4 | 19495.3 | 21846.0 | 23533.2 | 25803.8 | 26443.2 | 26121.5 | 23494.5 |
| 40° | 14188.0 | 14298.8 | 15087.7 | 16750.9 | 19567.4 | 22501.4 | 24790.7 | 27890.2 | 28566.9 | 28386.7 | 25514.1 |
| 42.5° | 13288.3 | 13419.1 | 14313.5 | 16175.6 | 19425.9 | 23010.0 | 26088.1 | 30389.0 | 31229.9 | 30993.7 | 27505.7 |
| 45° | 12412.7 | 12455.4 | 13287.0 | 15214.5 | 19052.2 | 23411.8 | 27206.7 | 32404.6 | 33535.2 | 33273.6 | 29608.1 |
| 47.5° | 11511.7 | 11617.1 | 12408.7 | 14158.6 | 18191.2 | 23545.2 | 28262.6 | 34752.6 | 35998.0 | 35682.9 | 31881.3 |
| 50° | 9533.4 | 9657.6 | 11336.8 | 13150.8 | 17040.6 | 23272.9 | 29359.8 | 37093.9 | 38362.0 | 37780.0 | 33862.2 |
| 52.5° | 7742.1 | 7822.2 | 8975.5 | 12172.4 | 15643.0 | 22564.1 | 30334.2 | 39435.2 | 40568.5 | 39934.4 | 35707.0 |
| 55° | 7113.4 | 7181.4 | 7671.3 | 10565.3 | 14358.9 | 21232.0 | 30868.2 | 41821.9 | 42463.9 | 41716.4 | 37487.7 |
| 57.5° | 6715.6 | 6782.3 | 7068.0 | 8555.0 | 13016.0 | 19101.6 | 30992.3 | 43574.5 | 44200.6 | 43300.9 | 39008.0 |
| 60° | 6187.0 | 6260.4 | 6684.9 | 7497.8 | 11569.1 | 16552.0 | 30203.4 | 45175.0 | 45600.8 | 44711.8 | 40499.1 |
| 62.5° | 5822.6 | 5853.3 | 6144.3 | 6850.4 | 10096.7 | 14370.9 | 27778.0 | 45849.1 | 46495.2 | 45811.7 | 41779.2 |
| 65° | 5386.1 | 5463.5 | 5707.8 | 6349.8 | 8970.1 | 12961.3 | 25203.1 | 45092.2 | 46268.2 | 46085.4 | 42480.0 |
| 67.5° | 4909.5 | 4957.6 | 5204.5 | 5729.1 | 7799.5 | 11854.7 | 22585.5 | 43635.9 | 45126.9 | 45289.8 | 42032.8 |
| 70° | 4389.0 | 4389.0 | 4607.9 | 5047.0 | 6435.3 | 10451.8 | 18586.3 | 41441.4 | 42945.8 | 43090.0 | 39774.2 |
| 72.5° | 3714.9 | 3726.9 | 3975.2 | 4356.9 | 5339.4 | 8830.0 | 14460.3 | 37772.0 | 39838.3 | 40345.5 | 36075.4 |
| 75° | 2927.3 | 2978.0 | 3259.7 | 3697.5 | 4355.6 | 7086.7 | 10457.1 | 30115.3 | 35646.9 | 36674.7 | 31408.8 |
| 77.5° | 634.0 | 835.6 | 1972.9 | 2560.2 | 3373.1 | 5532.9 | 6443.3 | 17713.3 | 27461.7 | 29737.6 | 24772.0 |
| 80° | 281.7 | 320.4 | 979.8 | 1643.2 | 1959.5 | 3564.0 | 3463.9 | 7973.0 | 10972.4 | 16740.2 | 16191.6 |
| 82.5° | 138.8 | 189.5 | 416.5 | 1031.8 | 1173.3 | 1254.7 | 1329.5 | 3788.3 | 5125.8 | 6193.7 | 6926.5 |
| 85° | 38.7 | 64.1 | 214.9 | 412.5 | 491.2 | 304.3 | 493.9 | 1780.7 | 2604.3 | 2984.7 | 2876.6 |
| 87.5° | 0.0 | 0.0 | 61.4 | 128.1 | 113.5 | 42.7 | 132.1 | 567.3 | 853.0 | 1015.8 | 877.0 |
| 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° | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 | 10293.0 |
| 2.5° | 10354.4 | 10256.9 | 10136.8 | 9959.2 | 9823.1 | 9708.3 | 9637.5 | 9506.7 | 9473.4 | 9465.4 | 9429.3 |
| 5° | 10395.7 | 10215.5 | 9921.9 | 9612.2 | 9361.2 | 9119.6 | 8963.5 | 8835.3 | 8729.9 | 8752.5 | 8659.1 |
| 7.5° | 10487.8 | 10231.5 | 9777.7 | 9330.5 | 8918.1 | 8605.7 | 8357.4 | 8125.2 | 8022.4 | 8022.4 | 7958.3 |
| 10° | 10566.6 | 10234.2 | 9650.9 | 9063.6 | 8523.0 | 8079.8 | 7760.8 | 7545.9 | 7379.0 | 7326.9 | 7305.6 |
| 12.5° | 10677.4 | 10247.6 | 9493.4 | 8781.9 | 8159.9 | 7560.5 | 7188.1 | 6923.8 | 6789.0 | 6739.6 | 6618.1 |
| 15° | 10876.3 | 10338.3 | 9350.6 | 8466.9 | 7726.1 | 7074.7 | 6606.1 | 6345.8 | 6191.0 | 6136.3 | 6113.6 |
| 17.5° | 11200.6 | 10519.9 | 9251.8 | 8121.2 | 7298.9 | 6595.4 | 6089.5 | 5777.2 | 5617.0 | 5488.9 | 5474.2 |
| 20° | 11635.8 | 10810.9 | 9221.1 | 7847.5 | 6843.7 | 6120.2 | 5516.9 | 5140.5 | 4838.8 | 4654.6 | 4657.3 |
| 22.5° | 12287.2 | 11236.7 | 9277.1 | 7600.6 | 6451.3 | 5638.4 | 4938.9 | 4367.6 | 3861.7 | 3640.1 | 3590.7 |
| 25° | 13202.9 | 11880.1 | 9425.3 | 7399.0 | 6057.5 | 5141.8 | 4150.0 | 3307.7 | 2820.5 | 2594.9 | 2545.5 |
| 27.5° | 14376.2 | 12786.4 | 9700.3 | 7228.2 | 5685.1 | 4446.4 | 3191.6 | 2373.3 | 1931.5 | 1731.3 | 1648.5 |
| 30° | 15644.3 | 13919.7 | 10136.8 | 7088.0 | 5212.6 | 3485.3 | 2271.9 | 1632.5 | 1224.0 | 1094.6 | 1094.6 |
| 32.5° | 17469.1 | 15286.6 | 10694.7 | 6927.8 | 4593.2 | 2504.2 | 1513.7 | 1054.5 | 775.5 | 690.1 | 690.1 |
| 35° | 19417.9 | 16887.1 | 11398.2 | 6743.6 | 3713.5 | 1712.6 | 942.4 | 622.0 | 512.6 | 513.9 | 512.6 |
| 37.5° | 21106.5 | 18299.3 | 12076.3 | 6463.3 | 2708.4 | 1095.9 | 558.0 | 451.2 | 436.5 | 424.5 | 436.5 |
| 40° | 22965.9 | 19778.3 | 12568.9 | 6005.4 | 1778.0 | 634.0 | 397.8 | 405.8 | 389.8 | 361.7 | 352.4 |
| 42.5° | 24621.1 | 21115.8 | 12902.6 | 5276.6 | 1119.9 | 395.1 | 348.4 | 364.4 | 361.7 | 323.0 | 299.0 |
| 45° | 26379.1 | 22550.8 | 13053.4 | 4176.7 | 615.4 | 357.7 | 307.0 | 340.4 | 339.0 | 295.0 | 271.0 |
| 47.5° | 28107.7 | 23877.6 | 12989.3 | 2843.2 | 415.1 | 327.0 | 283.0 | 303.0 | 312.4 | 269.6 | 244.3 |
| 50° | 30347.6 | 25077.6 | 12630.3 | 1635.2 | 379.1 | 305.7 | 263.0 | 256.3 | 276.3 | 232.3 | 217.6 |
| 52.5° | 32094.9 | 26288.3 | 11901.4 | 877.0 | 359.1 | 291.0 | 242.9 | 214.9 | 232.3 | 190.9 | 201.6 |
| 55° | 33667.3 | 27320.2 | 10626.7 | 604.7 | 355.1 | 276.3 | 233.6 | 189.5 | 193.6 | 165.5 | 162.9 |
| 57.5° | 35231.8 | 28299.9 | 9010.2 | 532.6 | 360.4 | 277.6 | 212.2 | 165.5 | 150.8 | 134.8 | 112.1 |
| 60° | 36487.9 | 29309.1 | 7204.1 | 488.6 | 363.1 | 275.0 | 185.5 | 144.2 | 109.5 | 92.1 | 88.1 |
| 62.5° | 37451.6 | 29859.0 | 5406.1 | 455.2 | 353.7 | 252.3 | 168.2 | 120.1 | 88.1 | 66.7 | 64.1 |
| 65° | 37908.1 | 29796.3 | 3642.8 | 420.5 | 349.7 | 241.6 | 154.8 | 101.4 | 69.4 | 52.1 | 49.4 |
| 67.5° | 37171.3 | 28318.6 | 2313.3 | 385.8 | 343.1 | 230.9 | 145.5 | 88.1 | 60.1 | 42.7 | 40.0 |
| 70° | 34699.2 | 25845.2 | 1374.9 | 345.7 | 325.7 | 212.2 | 140.2 | 78.8 | 52.1 | 33.4 | 28.0 |
| 72.5° | 30734.7 | 22355.9 | 867.6 | 289.7 | 295.0 | 178.9 | 104.1 | 66.7 | 44.0 | 20.0 | 17.4 |
| 75° | 25803.8 | 17956.3 | 627.4 | 214.9 | 240.3 | 141.5 | 82.8 | 57.4 | 36.0 | 12.0 | 10.7 |
| 77.5° | 20038.6 | 12091.0 | 480.5 | 141.5 | 160.2 | 100.1 | 58.7 | 44.0 | 26.7 | 6.7 | 5.3 |
| 80° | 12220.5 | 6974.5 | 377.8 | 80.1 | 98.8 | 58.7 | 26.7 | 28.0 | 12.0 | 1.3 | 0.0 |
| 82.5° | 5896.0 | 3191.6 | 218.9 | 42.7 | 33.4 | 30.7 | 6.7 | 0.0 | 1.3 | 0.0 | 0.0 |
| 85° | 2062.3 | 961.1 | 41.4 | 25.4 | 10.7 | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 552.6 | 170.9 | 12.0 | 10.7 | 1.3 | 0.0 | 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)