

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: McGRAW-EDISON

Report Number: P455504

Luminaire Tested: **GALN-SA6D-722-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-722-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33661 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

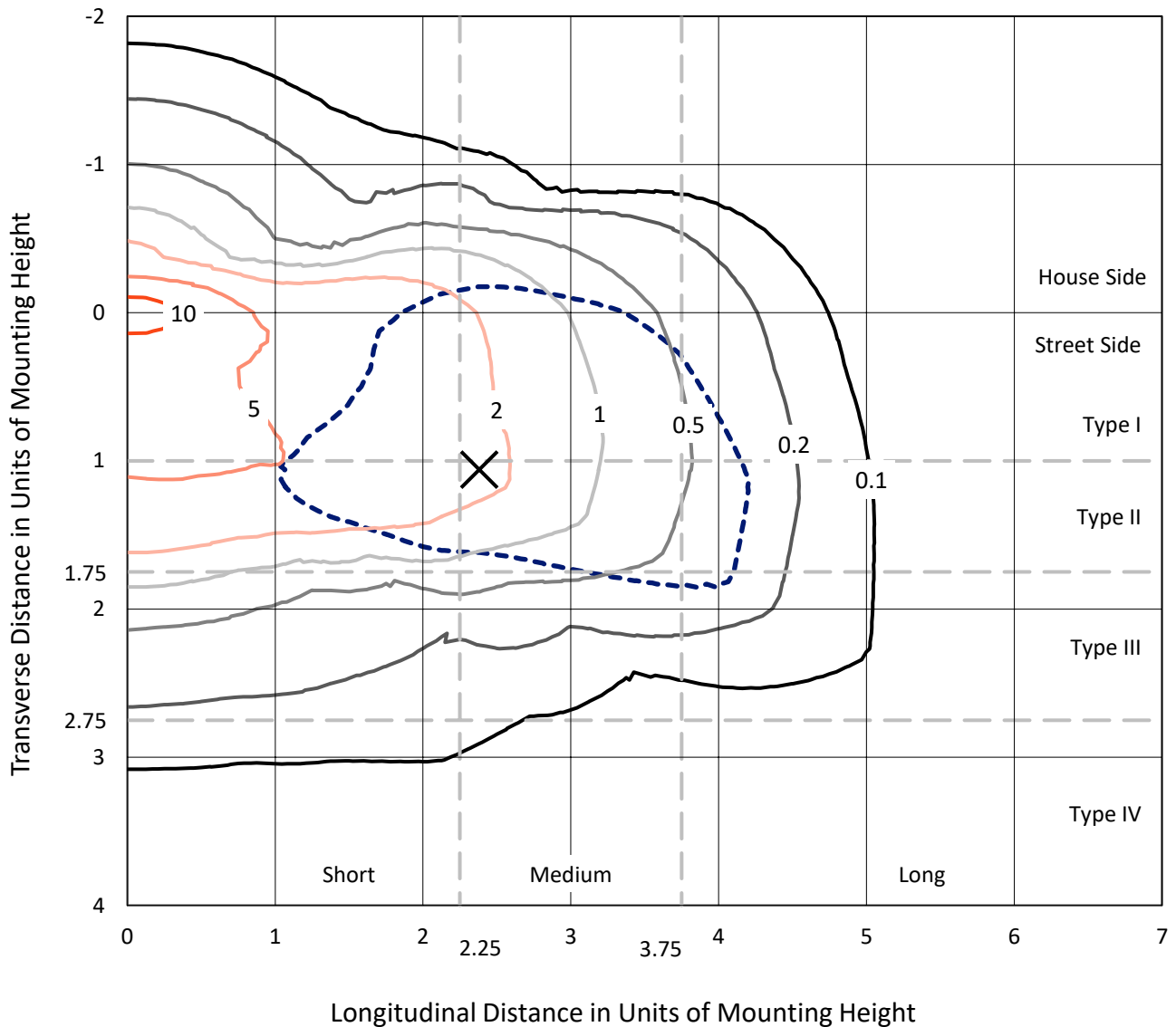
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

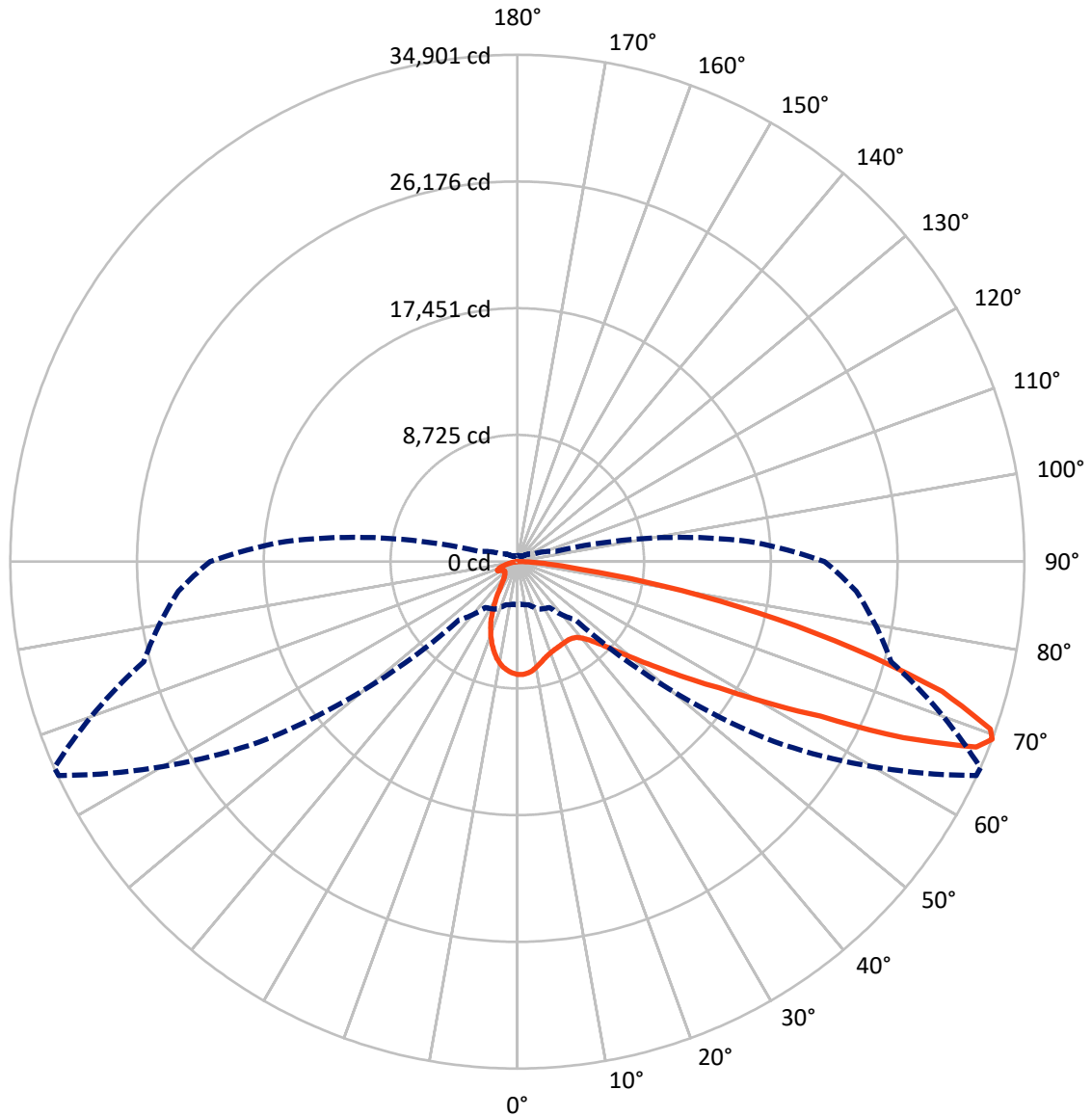
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6330.4 | 0.0 | 6330.4 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| Street Side | Lumens | 27330.6 | 0.0 | 27330.6 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| Total | Lumens | 33661.0 | 0.0 | 33661.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 675.0 | 2.0 |
| 10°-20° | 1601.1 | 4.8 |
| 20°-30° | 2179.7 | 6.5 |
| 30°-40° | 2929.0 | 8.7 |
| 40°-50° | 4373.5 | 13.0 |
| 50°-60° | 6956.8 | 20.7 |
| 60°-70° | 8556.5 | 25.4 |
| 70°-80° | 5567.2 | 16.5 |
| 80°-90° | 822.1 | 2.4 |
| 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° | 33661.0 | 100.0 |
| 0°-180° | 33661.0 | 100.0 |

Coefficient of Utilization



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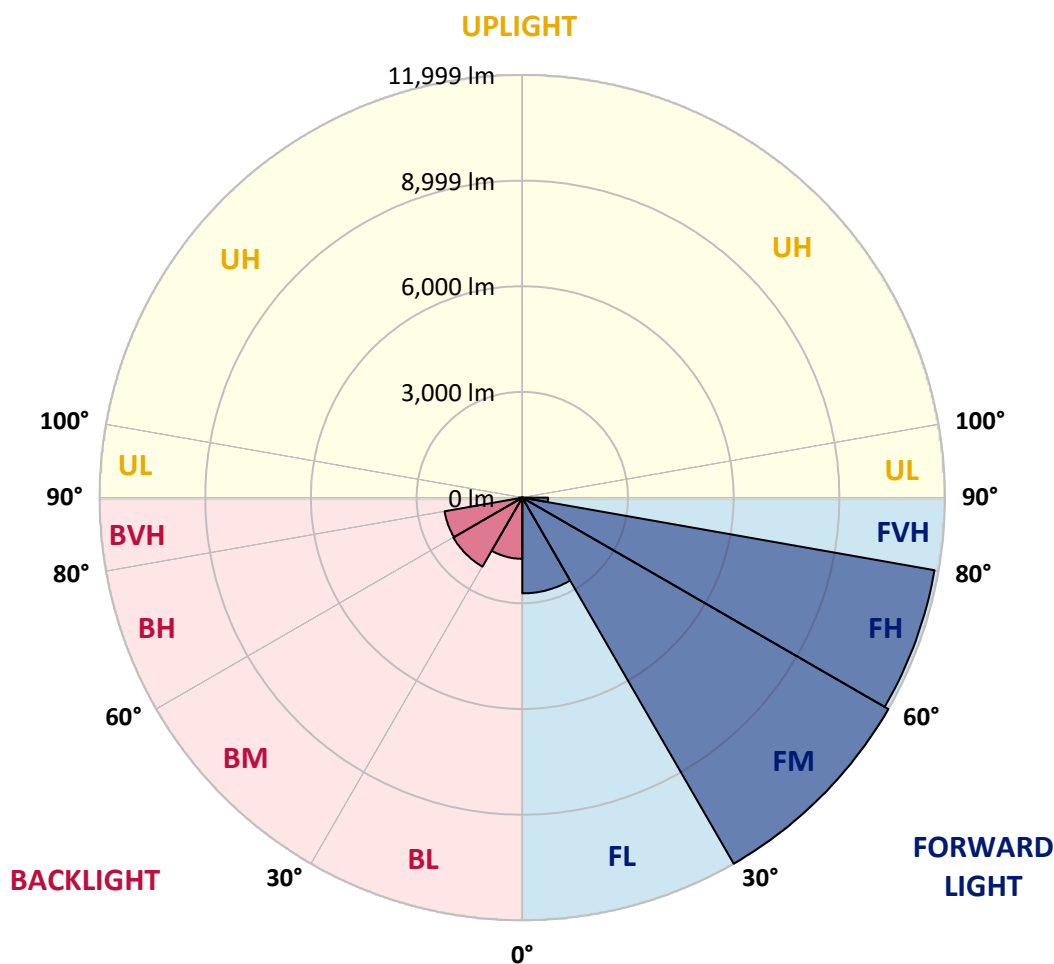
CATALOG NUMBER: GALN-SA6D-722-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2718.1 | 8.1 | | | |
| FM | (30°-60°) | 11999.1 | 35.6 | | | |
| FH | (60°-80°) | 11882.5 | 35.3 | | | G4/12000 |
| FVH | (80°-90°) | 730.9 | 2.2 | | | G4/750 |
| BL | (0°-30°) | 1737.7 | 5.2 | B3/2500 | | |
| BM | (30°-60°) | 2260.2 | 6.7 | B2/2500 | | |
| BH | (60°-80°) | 2241.2 | 6.7 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 91.2 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 |
| 2.5° | 7501.1 | 7530.9 | 7564.5 | 7601.8 | 7672.6 | 7711.7 | 7739.7 | 7771.4 | 7775.1 | 7791.9 | 7778.9 |
| 5° | 6947.5 | 6982.9 | 7033.2 | 7104.1 | 7210.3 | 7376.2 | 7547.7 | 7687.5 | 7704.3 | 7782.6 | 7804.9 |
| 7.5° | 6485.2 | 6505.7 | 6546.7 | 6660.4 | 6811.4 | 6995.9 | 7245.7 | 7529.1 | 7570.1 | 7756.5 | 7821.7 |
| 10° | 6108.6 | 6129.1 | 6177.6 | 6295.0 | 6444.2 | 6675.3 | 6949.3 | 7322.2 | 7355.7 | 7676.3 | 7825.5 |
| 12.5° | 5827.1 | 5845.8 | 5898.0 | 6013.6 | 6185.1 | 6401.3 | 6703.3 | 7098.5 | 7146.9 | 7570.1 | 7790.0 |
| 15° | 5612.8 | 5648.2 | 5691.1 | 5786.1 | 5967.0 | 6175.7 | 6468.4 | 6893.4 | 6932.6 | 7458.2 | 7765.8 |
| 17.5° | 5521.4 | 5538.2 | 5568.0 | 5655.7 | 5788.0 | 5993.1 | 6287.6 | 6733.1 | 6779.7 | 7379.9 | 7760.2 |
| 20° | 5525.2 | 5541.9 | 5547.5 | 5596.0 | 5691.1 | 5868.2 | 6159.0 | 6606.3 | 6662.3 | 7311.0 | 7769.5 |
| 22.5° | 5651.9 | 5653.8 | 5633.3 | 5616.5 | 5653.8 | 5801.1 | 6067.6 | 6511.3 | 6576.5 | 7281.1 | 7777.0 |
| 25° | 5847.7 | 5881.2 | 5851.4 | 5773.1 | 5704.1 | 5775.0 | 6032.2 | 6459.1 | 6520.6 | 7238.3 | 7767.7 |
| 27.5° | 6164.5 | 6170.1 | 6145.9 | 6039.7 | 5860.7 | 5808.5 | 6017.3 | 6419.9 | 6472.1 | 7206.6 | 7721.1 |
| 30° | 6589.6 | 6572.8 | 6550.4 | 6433.0 | 6151.5 | 5937.1 | 6049.0 | 6384.5 | 6438.6 | 7160.0 | 7665.1 |
| 32.5° | 7020.2 | 7072.4 | 7051.9 | 6913.9 | 6548.6 | 6186.9 | 6151.5 | 6380.8 | 6425.5 | 7124.6 | 7603.6 |
| 35° | 7476.9 | 7501.1 | 7598.0 | 7527.2 | 7152.5 | 6591.4 | 6343.5 | 6438.6 | 6474.0 | 7126.4 | 7560.8 |
| 37.5° | 7834.8 | 7900.0 | 8127.4 | 8189.0 | 7836.6 | 7126.4 | 6654.8 | 6602.6 | 6617.5 | 7217.8 | 7577.5 |
| 40° | 8267.2 | 8379.1 | 8671.8 | 8923.4 | 8692.3 | 7821.7 | 7184.2 | 6906.5 | 6925.1 | 7437.7 | 7687.5 |
| 42.5° | 8815.3 | 8893.6 | 9286.9 | 9628.0 | 9590.7 | 8740.7 | 7825.5 | 7404.2 | 7413.5 | 7875.8 | 7995.1 |
| 45° | 9456.5 | 9568.4 | 10010.2 | 10522.8 | 10610.4 | 9780.9 | 8751.9 | 8157.3 | 8151.7 | 8556.2 | 8569.2 |
| 47.5° | 10276.7 | 10345.7 | 10783.8 | 11343.0 | 11697.2 | 11087.6 | 9876.0 | 9238.4 | 9178.8 | 9547.9 | 9441.6 |
| 50° | 11031.7 | 11139.8 | 11471.6 | 12083.0 | 12964.8 | 12618.0 | 11354.2 | 10640.2 | 10500.4 | 10845.3 | 10666.3 |
| 52.5° | 11348.6 | 11462.3 | 11741.9 | 12500.6 | 14051.5 | 14597.7 | 13231.3 | 12312.3 | 12079.3 | 12344.0 | 12278.8 |
| 55° | 10798.7 | 10945.9 | 11206.9 | 12129.6 | 14528.7 | 16881.2 | 15762.8 | 14245.4 | 14075.8 | 13962.0 | 13980.7 |
| 57.5° | 9320.5 | 9460.3 | 9812.6 | 10830.4 | 13958.3 | 18538.4 | 19377.2 | 16730.2 | 16366.7 | 15842.9 | 15932.4 |
| 60° | 7094.7 | 7182.3 | 7365.0 | 8492.8 | 12267.6 | 18969.0 | 23482.0 | 19871.2 | 19640.1 | 17716.3 | 17779.7 |
| 62.5° | 5038.6 | 5137.4 | 5264.2 | 5827.1 | 8981.2 | 17755.5 | 26695.6 | 24257.4 | 23431.6 | 19656.8 | 19595.3 |
| 65° | 4091.7 | 4024.6 | 4177.4 | 4440.3 | 5269.8 | 13760.7 | 27418.9 | 30345.5 | 29208.4 | 22212.5 | 21358.8 |
| 67.5° | 3364.7 | 3293.8 | 3444.8 | 3912.7 | 4007.8 | 7987.6 | 24812.9 | 34297.4 | 34070.0 | 24991.9 | 23150.1 |
| 69° | 2978.8 | 2941.5 | 3073.9 | 3607.0 | 3847.5 | 5672.4 | 21616.0 | 34847.3 | 34901.4 | 26630.4 | 23426.0 |
| 70° | 2684.3 | 2699.2 | 2827.8 | 3452.3 | 3774.8 | 4677.0 | 18475.0 | 34088.6 | 34547.2 | 27448.7 | 23127.8 |
| 72.5° | 1975.9 | 2007.6 | 2186.6 | 2859.5 | 3705.8 | 3968.7 | 10994.4 | 29775.1 | 30586.0 | 27497.2 | 21157.4 |
| 75° | 1381.3 | 1366.4 | 1524.8 | 2153.0 | 3500.8 | 3933.2 | 6457.2 | 23027.1 | 23946.1 | 23767.2 | 17777.8 |
| 77.5° | 904.1 | 928.3 | 1055.1 | 1521.1 | 2945.3 | 3903.4 | 4209.1 | 16336.9 | 16933.4 | 15895.1 | 10515.3 |
| 80° | 637.5 | 635.7 | 706.5 | 1038.3 | 2184.7 | 3750.6 | 3446.7 | 10297.2 | 10146.2 | 6246.6 | 3118.6 |
| 82.5° | 365.4 | 391.5 | 473.5 | 730.7 | 1461.4 | 3301.3 | 3170.8 | 4924.9 | 4496.2 | 1780.2 | 1053.2 |
| 85° | 203.2 | 212.5 | 281.5 | 441.8 | 853.8 | 2486.7 | 2768.2 | 2240.6 | 2113.9 | 743.8 | 453.0 |
| 87.5° | 65.2 | 70.8 | 117.4 | 223.7 | 387.7 | 1174.4 | 1567.7 | 1034.6 | 954.4 | 268.4 | 182.7 |
| 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° | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 | 7773.3 |
| 2.5° | 7784.4 | 7806.8 | 7747.2 | 7689.4 | 7637.2 | 7564.5 | 7499.2 | 7445.2 | 7407.9 | 7402.3 | 7383.7 |
| 5° | 7810.5 | 7812.4 | 7698.7 | 7545.8 | 7396.7 | 7232.7 | 7063.0 | 6941.9 | 6828.2 | 6764.8 | 6733.1 |
| 7.5° | 7829.2 | 7812.4 | 7607.4 | 7359.4 | 7072.4 | 6774.1 | 6475.9 | 6237.2 | 6052.7 | 5980.0 | 6008.0 |
| 10° | 7821.7 | 7769.5 | 7469.4 | 7072.4 | 6654.8 | 6209.3 | 5780.5 | 5445.0 | 5137.4 | 4979.0 | 4982.7 |
| 12.5° | 7780.7 | 7695.0 | 7264.4 | 6749.9 | 6136.6 | 5540.1 | 4883.9 | 4430.9 | 4074.9 | 3864.3 | 3799.0 |
| 15° | 7745.3 | 7596.2 | 7023.9 | 6311.8 | 5549.4 | 4697.5 | 3897.8 | 3338.6 | 3040.3 | 2874.4 | 2872.6 |
| 17.5° | 7708.0 | 7501.1 | 6761.1 | 5847.7 | 4874.6 | 3778.5 | 2939.7 | 2512.8 | 2373.0 | 2389.8 | 2361.8 |
| 20° | 7668.9 | 7389.3 | 6487.0 | 5331.3 | 4052.5 | 2818.5 | 2201.5 | 2028.1 | 2067.3 | 2143.7 | 2154.9 |
| 22.5° | 7624.1 | 7270.0 | 6192.5 | 4762.8 | 3187.6 | 2121.3 | 1785.8 | 1759.7 | 1860.4 | 1979.7 | 1996.4 |
| 25° | 7555.2 | 7120.8 | 5821.6 | 4168.1 | 2458.7 | 1709.4 | 1564.0 | 1582.6 | 1681.4 | 1782.1 | 1793.3 |
| 27.5° | 7458.2 | 6936.3 | 5446.9 | 3426.2 | 1847.3 | 1467.0 | 1429.8 | 1454.0 | 1502.5 | 1564.0 | 1578.9 |
| 30° | 7327.7 | 6727.5 | 5016.3 | 2785.0 | 1480.1 | 1345.9 | 1331.0 | 1344.0 | 1372.0 | 1398.1 | 1405.5 |
| 32.5° | 7197.3 | 6526.2 | 4581.9 | 2132.5 | 1319.8 | 1265.7 | 1250.8 | 1250.8 | 1250.8 | 1254.5 | 1256.4 |
| 35° | 7076.1 | 6336.0 | 4115.9 | 1660.9 | 1235.9 | 1202.3 | 1181.8 | 1159.5 | 1155.7 | 1142.7 | 1142.7 |
| 37.5° | 7009.0 | 6162.7 | 3620.1 | 1390.6 | 1174.4 | 1150.1 | 1122.2 | 1084.9 | 1064.4 | 1066.3 | 1062.5 |
| 40° | 7022.0 | 6049.0 | 3169.0 | 1237.8 | 1124.0 | 1097.9 | 1055.1 | 1012.2 | 999.2 | 999.2 | 995.4 |
| 42.5° | 7169.3 | 6011.7 | 2736.5 | 1157.6 | 1075.6 | 1045.8 | 991.7 | 952.6 | 945.1 | 943.2 | 947.0 |
| 45° | 7508.6 | 6103.0 | 2348.8 | 1105.4 | 1034.6 | 989.8 | 935.8 | 900.4 | 892.9 | 892.9 | 891.0 |
| 47.5° | 8170.3 | 6399.4 | 2071.0 | 1071.9 | 1004.7 | 947.0 | 891.0 | 855.6 | 842.6 | 838.8 | 838.8 |
| 50° | 9199.3 | 7042.5 | 1864.1 | 1042.0 | 967.5 | 907.8 | 850.0 | 809.0 | 788.5 | 786.6 | 784.8 |
| 52.5° | 10629.0 | 8045.4 | 1783.9 | 1019.7 | 926.5 | 866.8 | 803.4 | 764.3 | 738.2 | 732.6 | 728.9 |
| 55° | 12301.1 | 9445.3 | 1893.9 | 1002.9 | 883.6 | 820.2 | 755.0 | 713.9 | 689.7 | 678.5 | 676.7 |
| 57.5° | 14237.9 | 11126.8 | 2311.5 | 980.5 | 844.4 | 769.9 | 706.5 | 665.5 | 639.4 | 626.3 | 622.6 |
| 60° | 15977.1 | 12854.8 | 3040.3 | 967.5 | 810.9 | 715.8 | 650.6 | 613.3 | 589.1 | 576.0 | 574.1 |
| 62.5° | 17887.8 | 14502.6 | 3910.9 | 1002.9 | 796.0 | 663.6 | 598.4 | 564.8 | 544.3 | 531.3 | 531.3 |
| 65° | 19929.0 | 16152.3 | 4486.9 | 1122.2 | 818.3 | 622.6 | 542.5 | 514.5 | 495.8 | 486.5 | 484.7 |
| 67.5° | 21304.7 | 16722.8 | 3696.5 | 1245.2 | 874.3 | 577.9 | 488.4 | 466.0 | 454.8 | 445.5 | 445.5 |
| 69° | 21155.6 | 16001.4 | 2727.2 | 1276.9 | 891.0 | 555.5 | 458.6 | 441.8 | 426.9 | 423.1 | 419.4 |
| 70° | 20684.0 | 15179.3 | 2285.4 | 1256.4 | 878.0 | 535.0 | 439.9 | 419.4 | 406.4 | 402.6 | 400.8 |
| 72.5° | 18422.8 | 13164.2 | 1701.9 | 1092.4 | 747.5 | 464.2 | 389.6 | 371.0 | 359.8 | 354.2 | 354.2 |
| 75° | 15306.1 | 10759.5 | 1329.1 | 868.7 | 585.3 | 391.5 | 333.7 | 318.8 | 309.4 | 305.7 | 303.8 |
| 77.5° | 8578.5 | 6008.0 | 954.4 | 680.4 | 443.7 | 316.9 | 279.6 | 266.6 | 257.2 | 253.5 | 253.5 |
| 80° | 2389.8 | 1716.8 | 561.1 | 449.2 | 302.0 | 240.5 | 221.8 | 212.5 | 199.5 | 190.1 | 195.7 |
| 82.5° | 900.4 | 743.8 | 320.6 | 270.3 | 192.0 | 160.3 | 154.7 | 147.3 | 141.7 | 128.6 | 128.6 |
| 85° | 438.1 | 361.6 | 205.1 | 143.5 | 106.3 | 83.9 | 80.2 | 76.4 | 72.7 | 63.4 | 65.2 |
| 87.5° | 151.0 | 160.3 | 89.5 | 52.2 | 31.7 | 20.5 | 16.8 | 9.3 | 9.3 | 9.3 | 9.3 |
| 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)