

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637065

Luminaire Tested: GWS-SA4C-722-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14579.9 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

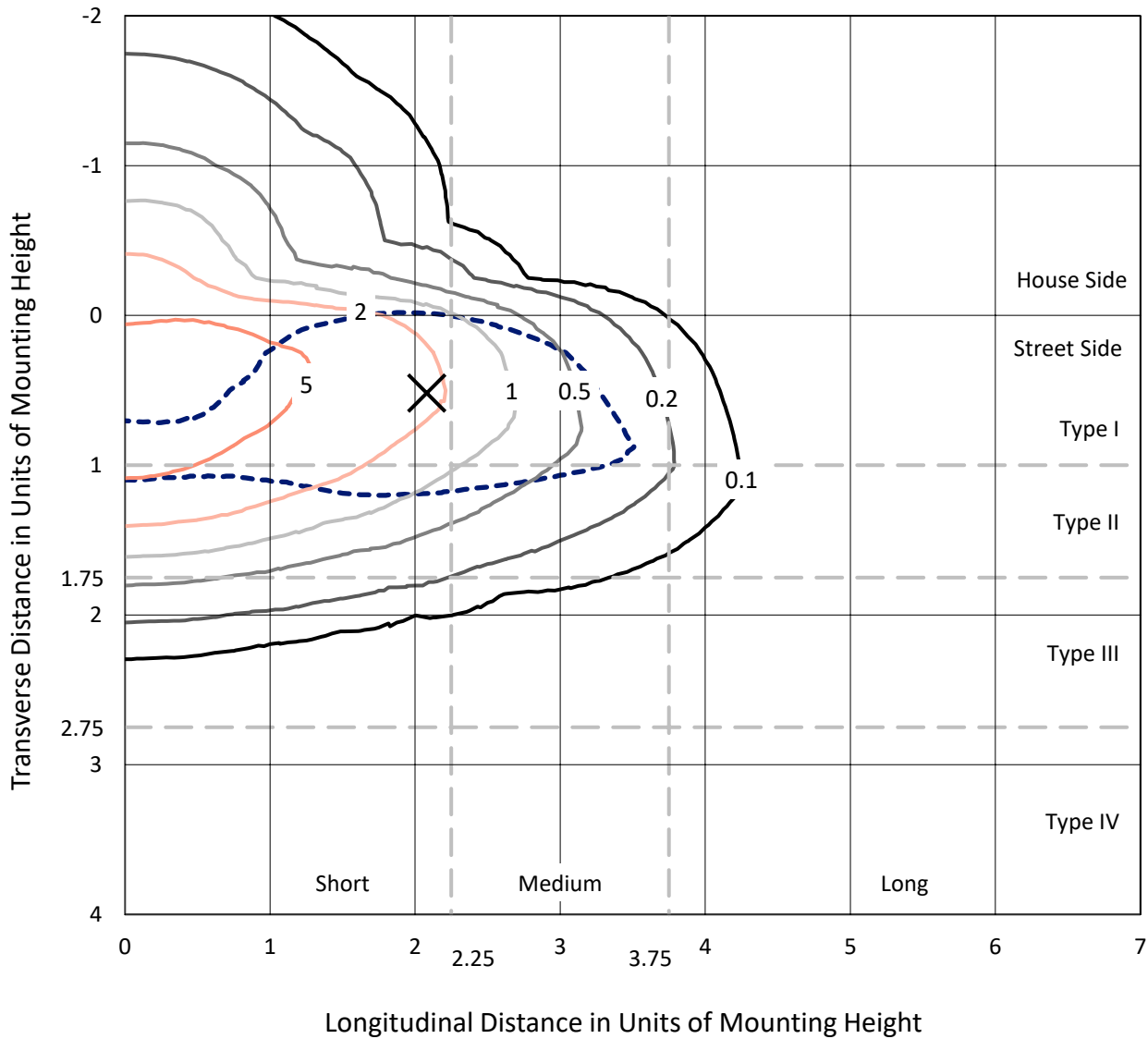


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Iso-Footcandle Lines of Horizontal Illumination

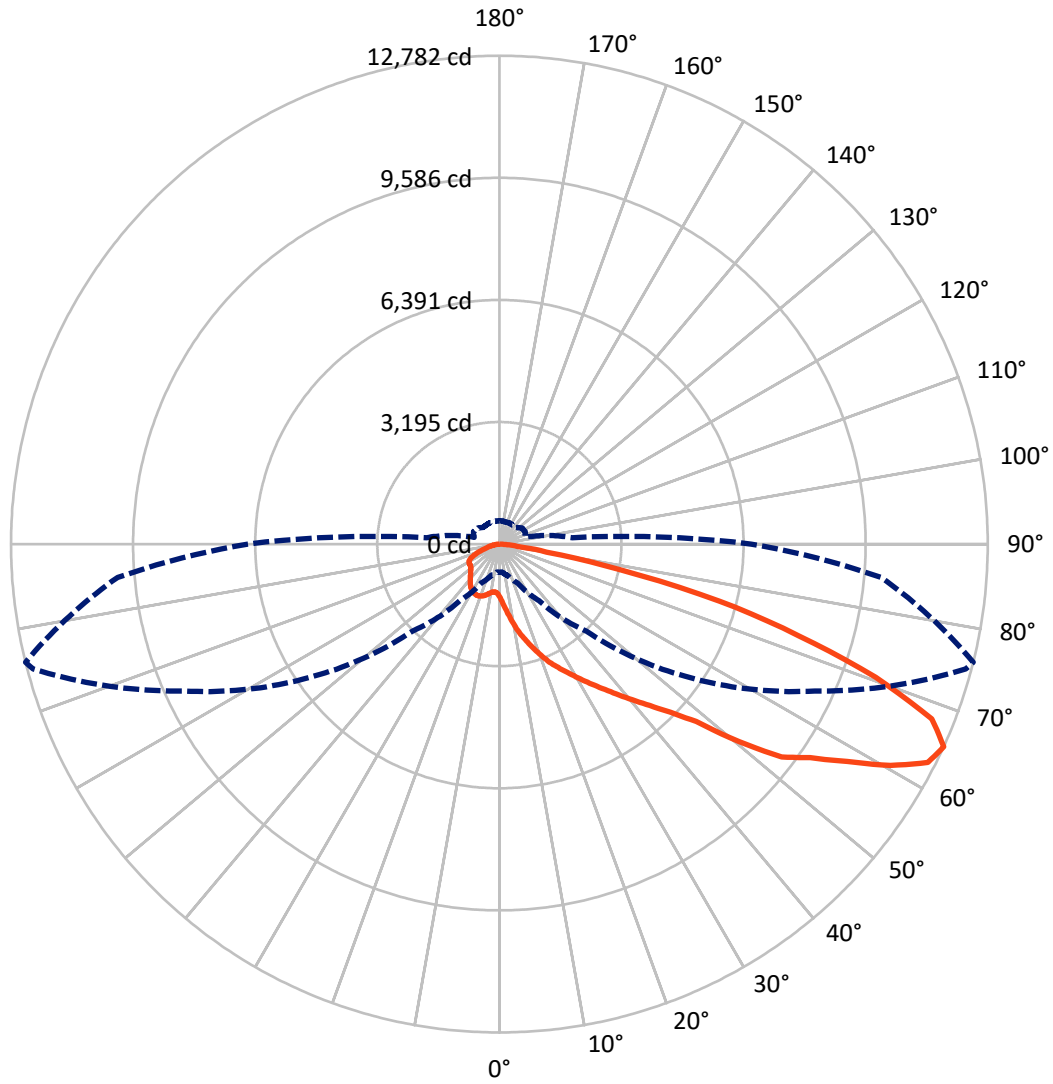
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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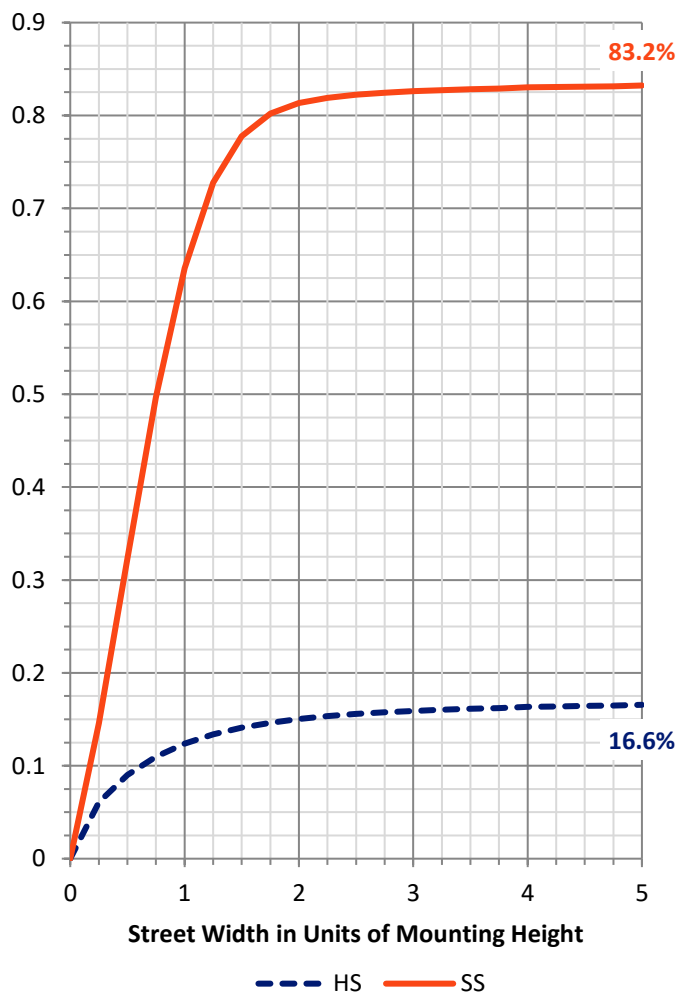
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2437.0 | 0.0 | 2437.0 |
| | % Fixture | 16.7 | 0.0 | 16.7 |
| Street Side | Lumens | 12142.9 | 0.0 | 12142.9 |
| | % Fixture | 83.3 | 0.0 | 83.3 |
| Total | Lumens | 14579.9 | 0.0 | 14579.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 164.0 | 1.1 |
| 10°-20° | 624.8 | 4.3 |
| 20°-30° | 1217.6 | 8.4 |
| 30°-40° | 2036.4 | 14.0 |
| 40°-50° | 2915.7 | 20.0 |
| 50°-60° | 3451.7 | 23.7 |
| 60°-70° | 2870.1 | 19.7 |
| 70°-80° | 1174.5 | 8.1 |
| 80°-90° | 125.0 | 0.9 |
| 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° | 14579.9 | 100.0 |
| 0°-180° | 14579.9 | 100.0 |

Coefficient of Utilization



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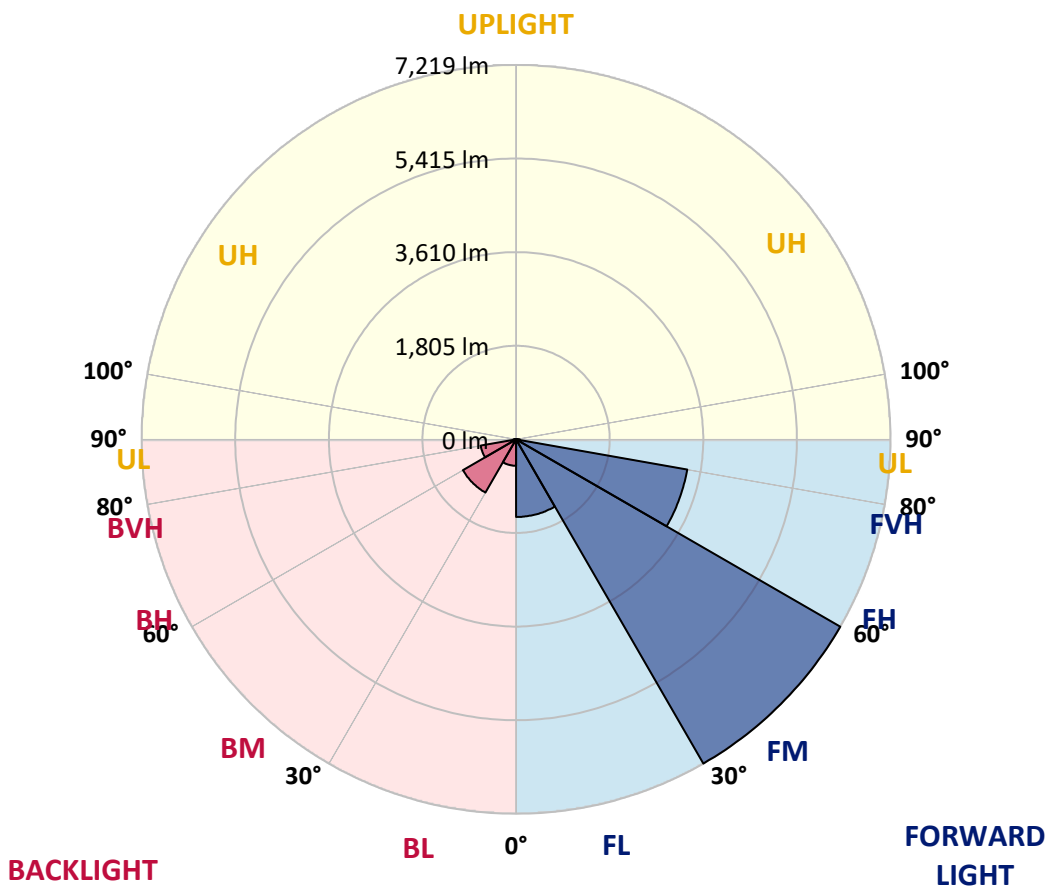
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1496.6 | 10.3 | | | |
| FM (30°-60°) | 7219.4 | 49.5 | | | |
| FH (60°-80°) | 3352.3 | 23.0 | | | G2/5000 |
| FVH (80°-90°) | 74.6 | 0.5 | | | G1/100 |
| BL (0°-30°) | 509.8 | 3.5 | B2/1000 | | |
| BM (30°-60°) | 1184.4 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 692.4 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 50.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 |
| 2.5° | 1935.2 | 1942.4 | 1918.8 | 1910.6 | 1855.2 | 1780.4 | 1717.9 | 1623.6 | 1536.5 | 1523.1 | 1445.2 |
| 5° | 2457.9 | 2427.2 | 2400.5 | 2383.1 | 2306.2 | 2221.2 | 2088.9 | 1911.6 | 1726.1 | 1703.5 | 1535.4 |
| 7.5° | 2768.5 | 2763.4 | 2730.6 | 2720.3 | 2660.9 | 2575.8 | 2439.5 | 2219.1 | 1949.5 | 1912.6 | 1657.4 |
| 10° | 3017.6 | 3014.5 | 2998.1 | 3007.3 | 2953.0 | 2870.0 | 2737.8 | 2510.2 | 2194.5 | 2157.6 | 1793.7 |
| 12.5° | 3234.9 | 3240.0 | 3236.9 | 3270.7 | 3243.1 | 3178.5 | 3041.1 | 2791.1 | 2439.5 | 2399.5 | 1959.8 |
| 15° | 3393.7 | 3397.8 | 3413.2 | 3487.0 | 3502.4 | 3489.1 | 3349.7 | 3066.8 | 2681.4 | 2624.0 | 2131.0 |
| 17.5° | 3438.8 | 3447.0 | 3483.9 | 3602.8 | 3685.9 | 3741.2 | 3637.7 | 3347.6 | 2919.2 | 2856.6 | 2305.2 |
| 20° | 3499.3 | 3508.5 | 3545.4 | 3669.5 | 3791.4 | 3917.5 | 3899.1 | 3632.6 | 3159.0 | 3107.8 | 2481.5 |
| 22.5° | 3779.1 | 3772.0 | 3755.6 | 3815.0 | 3902.1 | 4059.0 | 4105.1 | 3906.2 | 3407.1 | 3357.9 | 2676.3 |
| 25° | 4318.3 | 4305.0 | 4200.4 | 4146.1 | 4117.4 | 4212.7 | 4294.7 | 4155.3 | 3649.0 | 3575.2 | 2857.7 |
| 27.5° | 4912.8 | 4905.6 | 4772.4 | 4643.2 | 4466.9 | 4425.9 | 4474.1 | 4372.6 | 3883.7 | 3808.9 | 3015.5 |
| 30° | 5475.5 | 5454.0 | 5314.6 | 5152.6 | 4916.9 | 4740.6 | 4669.9 | 4585.8 | 4141.0 | 4063.1 | 3200.0 |
| 32.5° | 5978.8 | 5951.1 | 5787.1 | 5607.7 | 5360.7 | 5152.6 | 4941.5 | 4812.3 | 4432.1 | 4341.9 | 3388.6 |
| 35° | 6391.8 | 6364.2 | 6196.1 | 6005.4 | 5733.8 | 5580.1 | 5291.0 | 5058.3 | 4728.3 | 4637.1 | 3611.0 |
| 37.5° | 6711.6 | 6686.0 | 6510.7 | 6323.2 | 6086.4 | 5964.4 | 5713.3 | 5335.1 | 5069.6 | 4974.3 | 3846.8 |
| 40° | 6891.0 | 6872.6 | 6732.1 | 6583.5 | 6384.7 | 6279.1 | 6166.3 | 5684.6 | 5451.9 | 5356.6 | 4124.6 |
| 42.5° | 6945.3 | 6933.0 | 6834.6 | 6757.8 | 6623.5 | 6543.5 | 6608.1 | 6095.6 | 5859.9 | 5776.8 | 4437.2 |
| 45° | 6809.0 | 6809.0 | 6780.3 | 6819.3 | 6825.4 | 6824.4 | 7050.9 | 6559.9 | 6361.1 | 6269.9 | 4877.9 |
| 47.5° | 6460.5 | 6483.1 | 6525.1 | 6716.8 | 6918.7 | 7087.8 | 7568.5 | 7179.0 | 7005.8 | 6931.0 | 5502.2 |
| 50° | 5823.0 | 5884.5 | 6028.0 | 6402.1 | 6831.6 | 7262.1 | 8058.5 | 8094.4 | 8259.4 | 8127.2 | 6420.5 |
| 52.5° | 4889.2 | 4880.0 | 5245.9 | 5778.9 | 6433.9 | 7269.2 | 8328.1 | 8902.0 | 9345.9 | 9254.6 | 7103.2 |
| 55° | 3885.7 | 3870.4 | 4211.7 | 4946.6 | 5824.0 | 6994.5 | 8490.0 | 9272.1 | 9948.6 | 9866.6 | 7717.2 |
| 57.5° | 2975.5 | 2956.1 | 3259.5 | 3922.6 | 4963.0 | 6411.3 | 8459.2 | 9712.8 | 10777.8 | 10735.8 | 8551.5 |
| 60° | 2047.9 | 2024.4 | 2308.3 | 2888.4 | 3944.2 | 5519.6 | 8119.0 | 9939.3 | 11748.4 | 11762.8 | 9444.3 |
| 62.5° | 1230.0 | 1216.7 | 1422.7 | 1872.7 | 2837.2 | 4414.6 | 7322.5 | 9802.0 | 12521.3 | 12585.9 | 10018.3 |
| 65° | 742.1 | 732.9 | 853.8 | 1117.2 | 1799.9 | 3221.5 | 6094.6 | 9099.9 | 12633.0 | 12781.6 | 10031.6 |
| 67.5° | 540.2 | 541.2 | 576.0 | 680.6 | 1049.6 | 2080.7 | 4573.5 | 7841.2 | 12050.8 | 12204.6 | 9399.2 |
| 70° | 469.4 | 471.5 | 489.9 | 513.5 | 634.5 | 1191.0 | 2973.5 | 6189.9 | 10329.9 | 10448.8 | 7883.2 |
| 72.5° | 417.2 | 417.2 | 429.5 | 441.8 | 496.1 | 725.7 | 1592.8 | 4326.5 | 8152.8 | 8184.6 | 6016.7 |
| 75° | 366.9 | 363.9 | 370.0 | 376.2 | 430.5 | 507.4 | 774.9 | 3014.5 | 6021.8 | 5948.0 | 3888.8 |
| 77.5° | 292.1 | 289.0 | 290.1 | 296.2 | 345.4 | 362.8 | 392.6 | 1882.9 | 3393.7 | 3203.1 | 1717.9 |
| 80° | 208.1 | 206.0 | 217.3 | 232.7 | 255.2 | 222.4 | 246.0 | 911.2 | 1345.8 | 1252.5 | 666.2 |
| 82.5° | 124.0 | 128.1 | 145.5 | 157.8 | 176.3 | 139.4 | 158.9 | 304.4 | 476.6 | 464.3 | 270.6 |
| 85° | 17.4 | 18.4 | 52.3 | 60.5 | 75.8 | 54.3 | 84.0 | 137.3 | 190.6 | 204.0 | 95.3 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.2 | 24.6 | 54.3 | 55.3 | 23.6 |
| 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° | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 | 1380.7 |
| 2.5° | 1405.3 | 1357.1 | 1288.4 | 1231.0 | 1182.8 | 1143.9 | 1111.1 | 1086.5 | 1079.3 | 1069.1 | 1069.1 |
| 5° | 1456.5 | 1369.4 | 1246.4 | 1159.3 | 1109.0 | 1079.3 | 1058.8 | 1048.6 | 1043.4 | 1037.3 | 1034.2 |
| 7.5° | 1527.2 | 1405.3 | 1239.2 | 1151.1 | 1112.1 | 1093.7 | 1080.3 | 1074.2 | 1070.1 | 1063.9 | 1063.9 |
| 10° | 1624.6 | 1458.6 | 1261.8 | 1179.8 | 1149.0 | 1130.6 | 1115.2 | 1104.9 | 1095.7 | 1086.5 | 1084.4 |
| 12.5° | 1730.2 | 1528.3 | 1302.8 | 1218.7 | 1185.9 | 1163.4 | 1141.8 | 1126.5 | 1115.2 | 1103.9 | 1100.8 |
| 15° | 1847.0 | 1600.0 | 1346.8 | 1256.6 | 1215.6 | 1184.9 | 1159.3 | 1135.7 | 1120.3 | 1103.9 | 1101.9 |
| 17.5° | 1961.8 | 1672.8 | 1383.7 | 1282.3 | 1230.0 | 1192.1 | 1155.2 | 1124.4 | 1104.9 | 1086.5 | 1081.4 |
| 20° | 2099.2 | 1745.6 | 1409.4 | 1289.4 | 1226.9 | 1176.7 | 1132.6 | 1093.7 | 1072.1 | 1050.6 | 1047.5 |
| 22.5° | 2225.3 | 1813.2 | 1421.7 | 1279.2 | 1203.3 | 1143.9 | 1092.6 | 1050.6 | 1027.0 | 1005.5 | 1001.4 |
| 25° | 2347.2 | 1872.7 | 1416.5 | 1254.6 | 1167.5 | 1098.8 | 1045.5 | 1003.5 | 980.9 | 958.4 | 952.2 |
| 27.5° | 2465.1 | 1912.6 | 1396.0 | 1216.7 | 1122.4 | 1048.6 | 997.3 | 959.4 | 939.9 | 920.4 | 912.2 |
| 30° | 2580.9 | 1949.5 | 1364.3 | 1167.5 | 1065.0 | 996.3 | 954.3 | 927.6 | 908.1 | 887.6 | 881.5 |
| 32.5° | 2697.8 | 1976.2 | 1316.1 | 1110.1 | 1006.5 | 950.2 | 924.5 | 905.1 | 884.6 | 864.1 | 857.9 |
| 35° | 2815.6 | 1987.5 | 1257.7 | 1044.5 | 957.3 | 920.4 | 911.2 | 888.7 | 861.0 | 836.4 | 828.2 |
| 37.5° | 2956.1 | 1997.7 | 1184.9 | 979.9 | 914.3 | 906.1 | 904.0 | 870.2 | 837.4 | 803.6 | 794.4 |
| 40° | 3125.2 | 2011.0 | 1110.1 | 921.5 | 879.4 | 901.0 | 892.8 | 846.6 | 781.0 | 748.2 | 738.0 |
| 42.5° | 3332.2 | 2035.6 | 1032.2 | 868.2 | 853.8 | 881.5 | 872.3 | 789.2 | 745.2 | 726.7 | 721.6 |
| 45° | 3636.7 | 2125.8 | 954.3 | 826.1 | 834.3 | 853.8 | 839.5 | 755.4 | 738.0 | 725.7 | 719.5 |
| 47.5° | 4178.9 | 2264.2 | 886.6 | 794.4 | 819.0 | 829.2 | 773.9 | 746.2 | 732.9 | 716.5 | 709.3 |
| 50° | 4742.6 | 2324.7 | 832.3 | 774.9 | 801.5 | 806.7 | 738.0 | 733.9 | 724.7 | 707.2 | 700.1 |
| 52.5° | 5123.9 | 2316.5 | 799.5 | 767.7 | 787.2 | 767.7 | 721.6 | 720.6 | 714.4 | 693.9 | 685.7 |
| 55° | 5554.4 | 2330.8 | 785.1 | 769.8 | 781.0 | 702.1 | 701.1 | 704.2 | 701.1 | 678.5 | 674.4 |
| 57.5° | 6135.6 | 2374.9 | 778.0 | 776.9 | 776.9 | 670.3 | 681.6 | 685.7 | 679.6 | 669.3 | 666.2 |
| 60° | 6694.2 | 2378.0 | 764.6 | 785.1 | 773.9 | 650.9 | 659.1 | 663.2 | 656.0 | 653.9 | 652.9 |
| 62.5° | 6904.3 | 2230.4 | 734.9 | 779.0 | 761.6 | 629.3 | 635.5 | 637.5 | 630.4 | 635.5 | 634.5 |
| 65° | 6591.7 | 1916.7 | 685.7 | 749.3 | 723.6 | 609.9 | 605.8 | 610.9 | 598.6 | 611.9 | 612.9 |
| 67.5° | 5852.7 | 1523.1 | 610.9 | 692.9 | 670.3 | 588.3 | 580.1 | 580.1 | 559.6 | 580.1 | 579.1 |
| 70° | 4719.1 | 1076.2 | 501.2 | 602.7 | 611.9 | 562.7 | 558.6 | 535.0 | 502.2 | 533.0 | 529.9 |
| 72.5° | 3577.2 | 772.8 | 394.6 | 476.6 | 526.8 | 526.8 | 527.9 | 487.9 | 450.0 | 464.3 | 452.0 |
| 75° | 2266.3 | 544.3 | 315.7 | 364.9 | 413.1 | 462.3 | 485.8 | 412.0 | 378.2 | 372.1 | 365.9 |
| 77.5° | 1020.9 | 357.7 | 246.0 | 279.8 | 293.1 | 364.9 | 443.8 | 354.6 | 308.5 | 295.2 | 291.1 |
| 80° | 427.4 | 222.4 | 175.3 | 197.8 | 180.4 | 306.5 | 391.5 | 275.7 | 226.5 | 208.1 | 194.7 |
| 82.5° | 187.6 | 132.2 | 111.7 | 106.6 | 112.7 | 227.5 | 292.1 | 183.5 | 141.4 | 191.7 | 193.7 |
| 85° | 78.9 | 69.7 | 57.4 | 52.3 | 46.1 | 87.1 | 137.3 | 71.7 | 88.1 | 50.2 | 41.0 |
| 87.5° | 18.4 | 20.5 | 15.4 | 10.2 | 6.1 | 1.0 | 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)