

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: P635525

Luminaire Tested: GWS-SA3D-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635525
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-SA3D-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14254.9 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

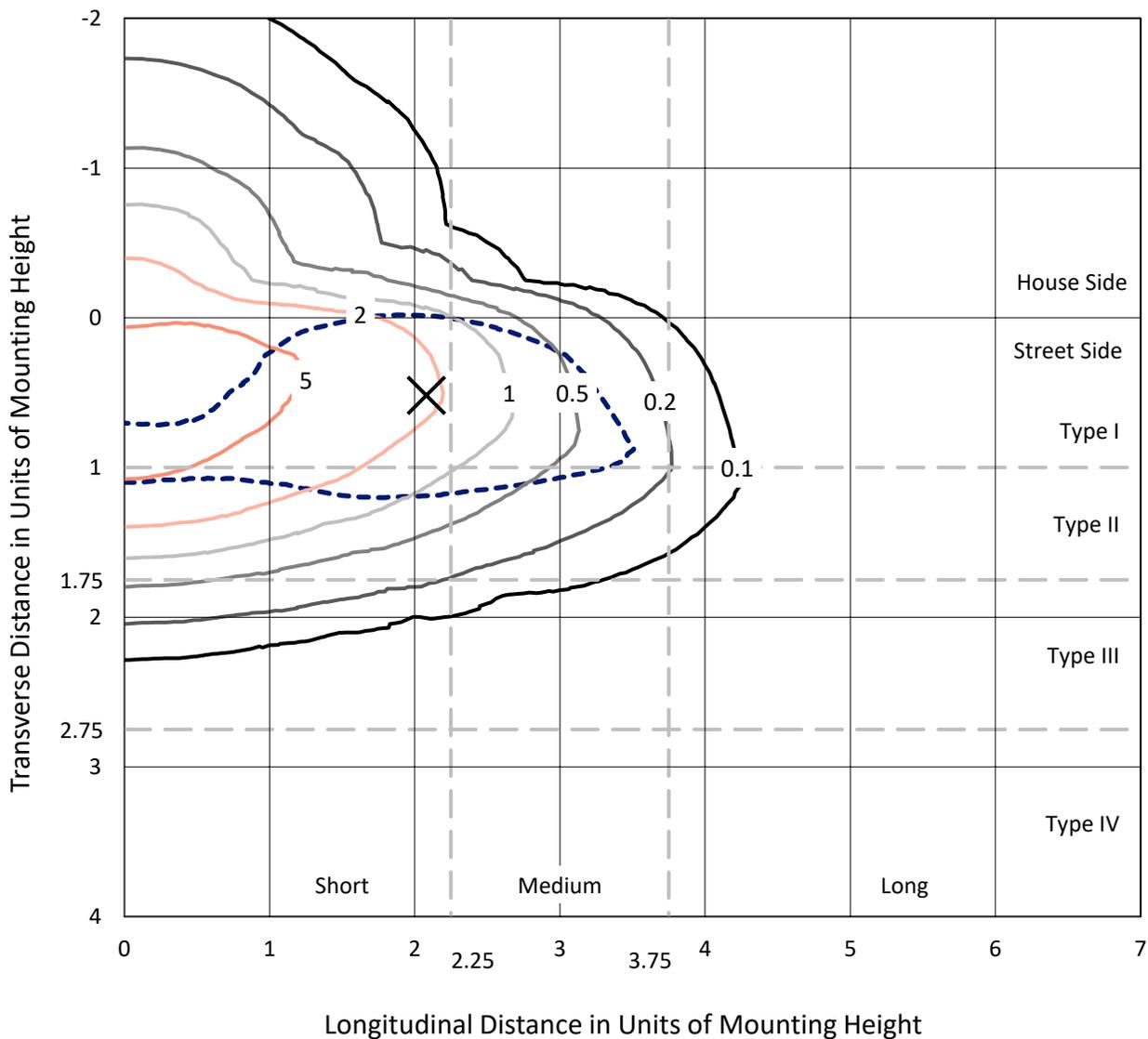
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

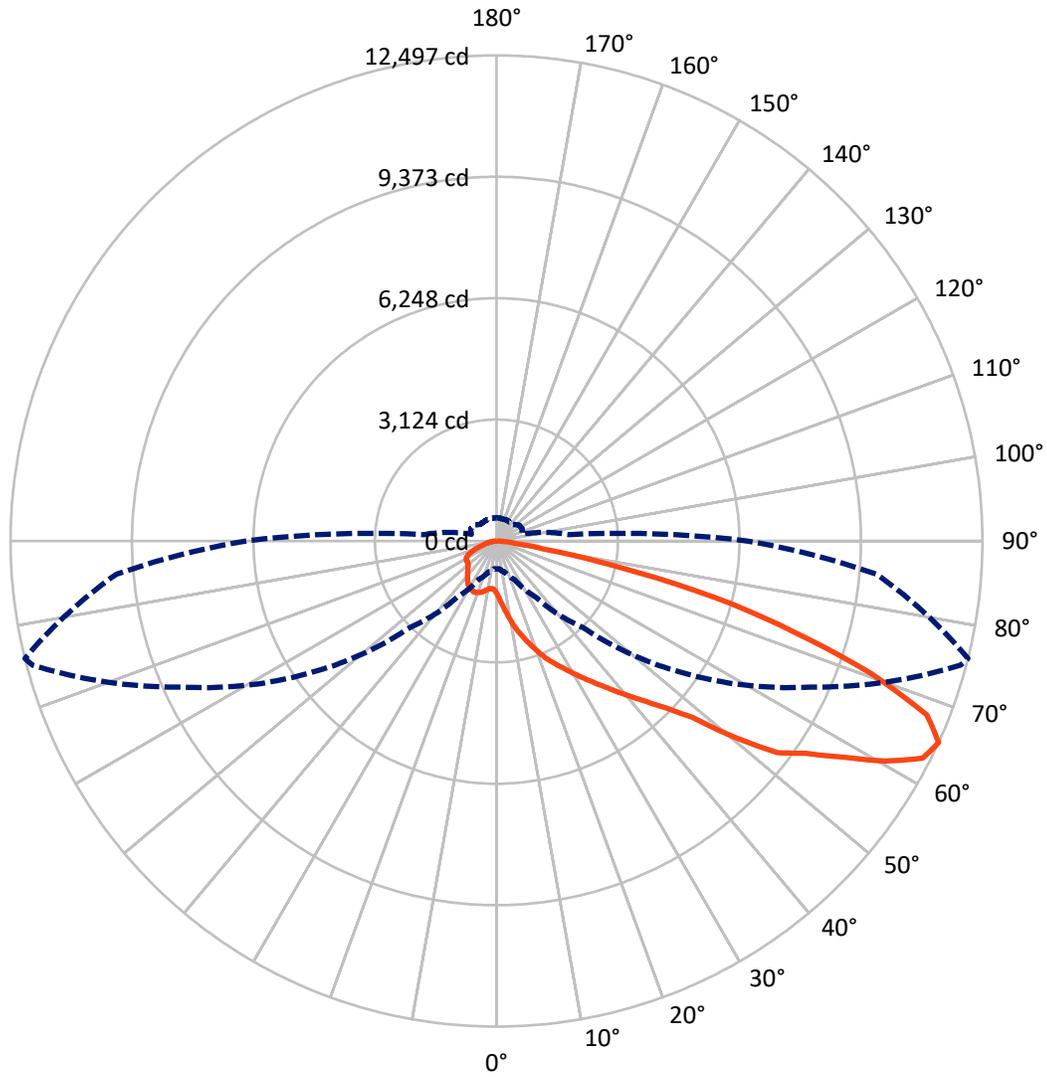
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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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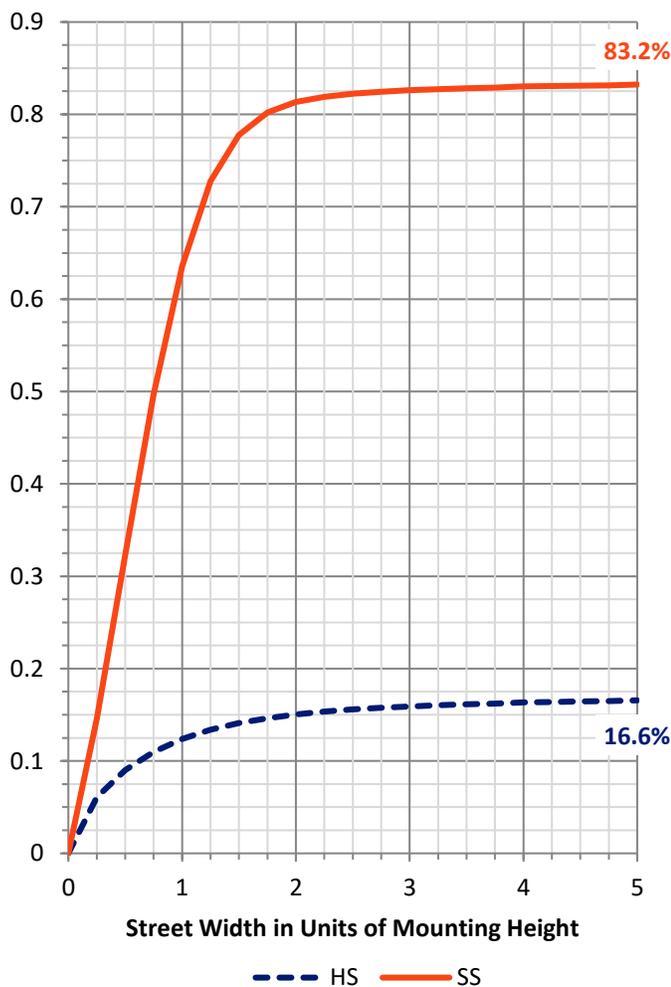
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2382.7 | 0.0 | 2382.7 |
| | % Fixture | 16.7 | 0.0 | 16.7 |
| Street Side | Lumens | 11872.2 | 0.0 | 11872.2 |
| | % Fixture | 83.3 | 0.0 | 83.3 |
| Total | Lumens | 14254.9 | 0.0 | 14254.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 160.4 | 1.1 |
| 10°-20° | 610.8 | 4.3 |
| 20°-30° | 1190.5 | 8.4 |
| 30°-40° | 1991.0 | 14.0 |
| 40°-50° | 2850.7 | 20.0 |
| 50°-60° | 3374.8 | 23.7 |
| 60°-70° | 2806.2 | 19.7 |
| 70°-80° | 1148.4 | 8.1 |
| 80°-90° | 122.3 | 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° | 14254.9 | 100.0 |
| 0°-180° | 14254.9 | 100.0 |

Coefficient of Utilization



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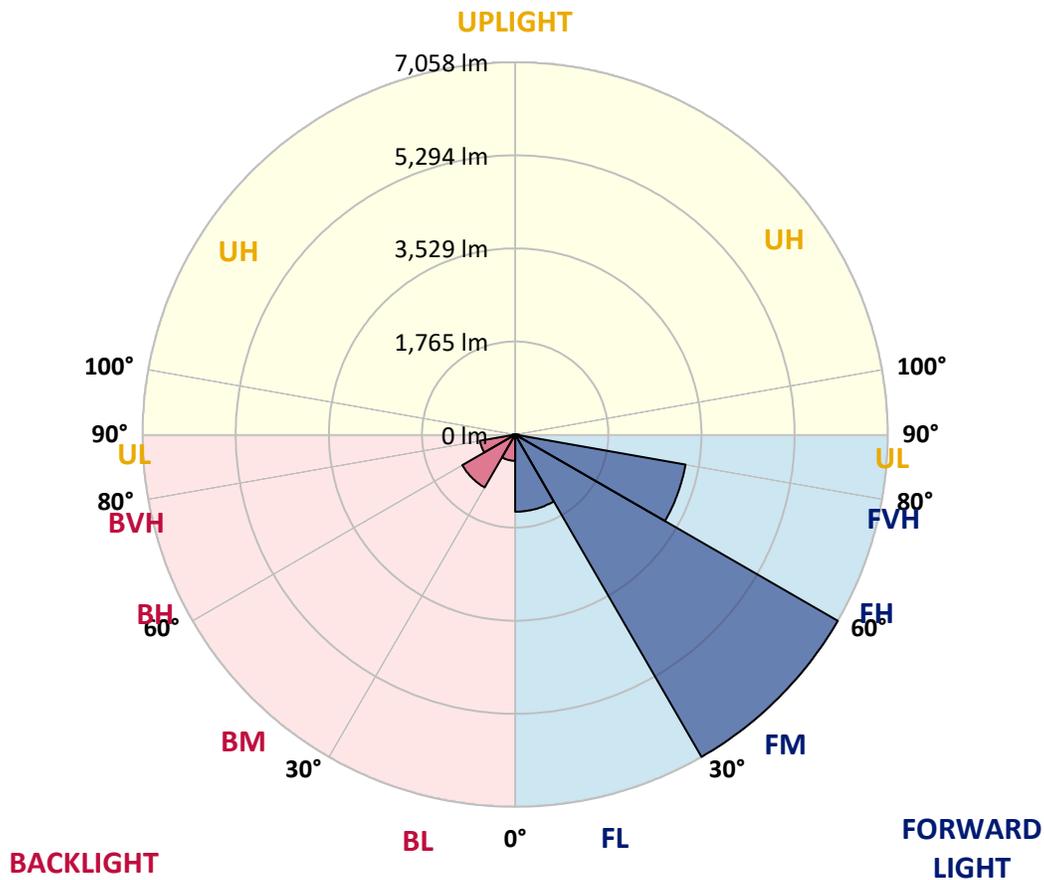
CATALOG NUMBER: GWS-SA3D-830-U-T2R-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1463.2 | 10.3 | | | |
| FM (30°-60°) | 7058.5 | 49.5 | | | |
| FH (60°-80°) | 3277.6 | 23.0 | | | G2/5000 |
| FVH (80°-90°) | 72.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 498.5 | 3.5 | B1/500 | | |
| BM (30°-60°) | 1157.9 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 677.0 | 4.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 49.3 | 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° | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 |
| 2.5° | 1892.0 | 1899.1 | 1876.0 | 1868.0 | 1813.9 | 1740.7 | 1679.6 | 1587.4 | 1502.2 | 1489.2 | 1413.0 |
| 5° | 2403.1 | 2373.1 | 2347.0 | 2330.0 | 2254.8 | 2171.6 | 2042.4 | 1869.0 | 1687.6 | 1665.6 | 1501.2 |
| 7.5° | 2706.8 | 2701.8 | 2669.7 | 2659.7 | 2601.6 | 2518.4 | 2385.1 | 2169.6 | 1906.1 | 1870.0 | 1620.5 |
| 10° | 2950.3 | 2947.3 | 2931.3 | 2940.3 | 2887.2 | 2806.0 | 2676.7 | 2454.2 | 2145.6 | 2109.5 | 1753.7 |
| 12.5° | 3162.8 | 3167.8 | 3164.8 | 3197.8 | 3170.8 | 3107.6 | 2973.4 | 2728.8 | 2385.1 | 2346.0 | 1916.1 |
| 15° | 3318.1 | 3322.1 | 3337.1 | 3409.3 | 3424.3 | 3411.3 | 3275.0 | 2998.4 | 2621.6 | 2565.5 | 2083.5 |
| 17.5° | 3362.2 | 3370.2 | 3406.3 | 3522.5 | 3603.7 | 3657.8 | 3556.6 | 3273.0 | 2854.1 | 2793.0 | 2253.8 |
| 20° | 3421.3 | 3430.3 | 3466.4 | 3587.7 | 3706.9 | 3830.2 | 3812.2 | 3551.6 | 3088.6 | 3038.5 | 2426.2 |
| 22.5° | 3694.9 | 3687.9 | 3671.9 | 3730.0 | 3815.2 | 3968.5 | 4013.6 | 3819.2 | 3331.1 | 3283.0 | 2616.6 |
| 25° | 4222.0 | 4209.0 | 4106.8 | 4053.7 | 4025.6 | 4118.8 | 4199.0 | 4062.7 | 3567.6 | 3495.5 | 2794.0 |
| 27.5° | 4803.3 | 4796.3 | 4666.0 | 4539.7 | 4367.3 | 4327.3 | 4374.4 | 4275.1 | 3797.1 | 3724.0 | 2948.3 |
| 30° | 5353.4 | 5332.4 | 5196.1 | 5037.8 | 4807.3 | 4634.9 | 4565.8 | 4483.6 | 4048.7 | 3972.5 | 3128.7 |
| 32.5° | 5845.5 | 5818.4 | 5658.1 | 5482.7 | 5241.2 | 5037.8 | 4831.3 | 4705.1 | 4333.3 | 4245.1 | 3313.1 |
| 35° | 6249.4 | 6222.3 | 6058.0 | 5871.6 | 5606.0 | 5455.7 | 5173.1 | 4945.6 | 4622.9 | 4533.7 | 3530.5 |
| 37.5° | 6562.0 | 6537.0 | 6365.6 | 6182.2 | 5950.7 | 5831.5 | 5585.9 | 5216.2 | 4956.6 | 4863.4 | 3761.0 |
| 40° | 6737.4 | 6719.4 | 6582.1 | 6436.8 | 6242.3 | 6139.1 | 6028.9 | 5557.9 | 5330.4 | 5237.2 | 4032.6 |
| 42.5° | 6790.5 | 6778.5 | 6682.3 | 6607.1 | 6475.8 | 6397.7 | 6460.8 | 5959.7 | 5729.3 | 5648.1 | 4338.3 |
| 45° | 6657.2 | 6657.2 | 6629.2 | 6667.3 | 6673.3 | 6672.3 | 6893.7 | 6413.7 | 6219.3 | 6130.1 | 4769.2 |
| 47.5° | 6316.5 | 6338.6 | 6379.6 | 6567.0 | 6764.5 | 6929.8 | 7399.8 | 7019.0 | 6849.6 | 6776.5 | 5379.5 |
| 50° | 5693.2 | 5753.3 | 5893.6 | 6259.4 | 6679.3 | 7100.2 | 7878.8 | 7913.9 | 8075.3 | 7946.0 | 6277.4 |
| 52.5° | 4780.2 | 4771.2 | 5129.0 | 5650.1 | 6290.5 | 7107.2 | 8142.4 | 8703.6 | 9137.5 | 9048.3 | 6944.8 |
| 55° | 3799.1 | 3784.1 | 4117.8 | 4836.3 | 5694.2 | 6838.6 | 8300.7 | 9065.4 | 9726.8 | 9646.6 | 7545.1 |
| 57.5° | 2909.2 | 2890.2 | 3186.8 | 3835.2 | 4852.4 | 6268.4 | 8270.7 | 9496.3 | 10537.5 | 10496.4 | 8360.9 |
| 60° | 2002.3 | 1979.2 | 2256.8 | 2824.0 | 3856.2 | 5396.5 | 7938.0 | 9717.8 | 11486.6 | 11500.6 | 9233.7 |
| 62.5° | 1202.6 | 1189.5 | 1391.0 | 1830.9 | 2773.9 | 4316.2 | 7159.3 | 9583.5 | 12242.2 | 12305.3 | 9794.9 |
| 65° | 725.6 | 716.5 | 834.8 | 1092.3 | 1759.8 | 3149.7 | 5958.7 | 8897.0 | 12351.4 | 12496.7 | 9808.0 |
| 67.5° | 528.1 | 529.1 | 563.2 | 665.4 | 1026.2 | 2034.3 | 4471.6 | 7666.4 | 11782.2 | 11932.5 | 9189.6 |
| 70° | 459.0 | 461.0 | 479.0 | 502.1 | 620.3 | 1164.5 | 2907.2 | 6051.9 | 10099.6 | 10215.8 | 7707.5 |
| 72.5° | 407.9 | 407.9 | 419.9 | 431.9 | 485.0 | 709.5 | 1557.3 | 4230.0 | 7971.0 | 8002.1 | 5882.6 |
| 75° | 358.8 | 355.8 | 361.8 | 367.8 | 420.9 | 496.1 | 757.6 | 2947.3 | 5887.6 | 5815.4 | 3802.1 |
| 77.5° | 285.6 | 282.6 | 283.6 | 289.6 | 337.7 | 354.8 | 383.8 | 1840.9 | 3318.1 | 3131.7 | 1679.6 |
| 80° | 203.4 | 201.4 | 212.5 | 227.5 | 249.5 | 217.5 | 240.5 | 890.9 | 1315.8 | 1224.6 | 651.4 |
| 82.5° | 121.3 | 125.3 | 142.3 | 154.3 | 172.4 | 136.3 | 155.3 | 297.6 | 466.0 | 454.0 | 264.6 |
| 85° | 17.0 | 18.0 | 51.1 | 59.1 | 74.2 | 53.1 | 82.2 | 134.3 | 186.4 | 199.4 | 93.2 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 24.1 | 53.1 | 54.1 | 23.0 |
| 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° | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 | 1349.9 |
| 2.5° | 1373.9 | 1326.8 | 1259.7 | 1203.6 | 1156.5 | 1118.4 | 1086.3 | 1062.3 | 1055.3 | 1045.2 | 1045.2 |
| 5° | 1424.0 | 1338.9 | 1218.6 | 1133.4 | 1084.3 | 1055.3 | 1035.2 | 1025.2 | 1020.2 | 1014.2 | 1011.2 |
| 7.5° | 1493.2 | 1373.9 | 1211.6 | 1125.4 | 1087.3 | 1069.3 | 1056.3 | 1050.2 | 1046.2 | 1040.2 | 1040.2 |
| 10° | 1588.4 | 1426.0 | 1233.6 | 1153.5 | 1123.4 | 1105.4 | 1090.3 | 1080.3 | 1071.3 | 1062.3 | 1060.3 |
| 12.5° | 1691.6 | 1494.2 | 1273.7 | 1191.5 | 1159.5 | 1137.4 | 1116.4 | 1101.4 | 1090.3 | 1079.3 | 1076.3 |
| 15° | 1805.9 | 1564.3 | 1316.8 | 1228.6 | 1188.5 | 1158.5 | 1133.4 | 1110.4 | 1095.3 | 1079.3 | 1077.3 |
| 17.5° | 1918.1 | 1635.5 | 1352.9 | 1253.7 | 1202.6 | 1165.5 | 1129.4 | 1099.4 | 1080.3 | 1062.3 | 1057.3 |
| 20° | 2052.4 | 1706.6 | 1377.9 | 1260.7 | 1199.6 | 1150.5 | 1107.4 | 1069.3 | 1048.2 | 1027.2 | 1024.2 |
| 22.5° | 2175.7 | 1772.8 | 1390.0 | 1250.7 | 1176.5 | 1118.4 | 1068.3 | 1027.2 | 1004.1 | 983.1 | 979.1 |
| 25° | 2294.9 | 1830.9 | 1385.0 | 1226.6 | 1141.4 | 1074.3 | 1022.2 | 981.1 | 959.1 | 937.0 | 931.0 |
| 27.5° | 2410.2 | 1870.0 | 1364.9 | 1189.5 | 1097.3 | 1025.2 | 975.1 | 938.0 | 919.0 | 899.9 | 891.9 |
| 30° | 2523.4 | 1906.1 | 1333.9 | 1141.4 | 1041.2 | 974.1 | 933.0 | 906.9 | 887.9 | 867.9 | 861.8 |
| 32.5° | 2637.6 | 1932.1 | 1286.8 | 1085.3 | 984.1 | 929.0 | 903.9 | 884.9 | 864.8 | 844.8 | 838.8 |
| 35° | 2752.9 | 1943.2 | 1229.6 | 1021.2 | 936.0 | 899.9 | 890.9 | 868.9 | 841.8 | 817.7 | 809.7 |
| 37.5° | 2890.2 | 1953.2 | 1158.5 | 958.0 | 893.9 | 885.9 | 883.9 | 850.8 | 818.8 | 785.7 | 776.7 |
| 40° | 3055.5 | 1966.2 | 1085.3 | 900.9 | 859.8 | 880.9 | 872.9 | 827.8 | 763.6 | 731.6 | 721.5 |
| 42.5° | 3258.0 | 1990.3 | 1009.2 | 848.8 | 834.8 | 861.8 | 852.8 | 771.6 | 728.6 | 710.5 | 705.5 |
| 45° | 3555.6 | 2078.4 | 933.0 | 807.7 | 815.7 | 834.8 | 820.8 | 738.6 | 721.5 | 709.5 | 703.5 |
| 47.5° | 4085.7 | 2213.7 | 866.9 | 776.7 | 800.7 | 810.7 | 756.6 | 729.6 | 716.5 | 700.5 | 693.5 |
| 50° | 4636.9 | 2272.9 | 813.7 | 757.6 | 783.7 | 788.7 | 721.5 | 717.5 | 708.5 | 691.5 | 684.5 |
| 52.5° | 5009.7 | 2264.8 | 781.7 | 750.6 | 769.6 | 750.6 | 705.5 | 704.5 | 698.5 | 678.5 | 670.4 |
| 55° | 5430.6 | 2278.9 | 767.6 | 752.6 | 763.6 | 686.5 | 685.5 | 688.5 | 685.5 | 663.4 | 659.4 |
| 57.5° | 5998.8 | 2322.0 | 760.6 | 759.6 | 759.6 | 655.4 | 666.4 | 670.4 | 664.4 | 654.4 | 651.4 |
| 60° | 6545.0 | 2325.0 | 747.6 | 767.6 | 756.6 | 636.4 | 644.4 | 648.4 | 641.4 | 639.4 | 638.4 |
| 62.5° | 6750.4 | 2180.7 | 718.5 | 761.6 | 744.6 | 615.3 | 621.3 | 623.3 | 616.3 | 621.3 | 620.3 |
| 65° | 6444.8 | 1874.0 | 670.4 | 732.6 | 707.5 | 596.3 | 592.3 | 597.3 | 585.3 | 598.3 | 599.3 |
| 67.5° | 5722.2 | 1489.2 | 597.3 | 677.4 | 655.4 | 575.2 | 567.2 | 567.2 | 547.2 | 567.2 | 566.2 |
| 70° | 4613.9 | 1052.2 | 490.0 | 589.3 | 598.3 | 550.2 | 546.2 | 523.1 | 491.0 | 521.1 | 518.1 |
| 72.5° | 3497.5 | 755.6 | 385.8 | 466.0 | 515.1 | 515.1 | 516.1 | 477.0 | 439.9 | 454.0 | 441.9 |
| 75° | 2215.7 | 532.1 | 308.7 | 356.8 | 403.9 | 452.0 | 475.0 | 402.9 | 369.8 | 363.8 | 357.8 |
| 77.5° | 998.1 | 349.7 | 240.5 | 273.6 | 286.6 | 356.8 | 433.9 | 346.7 | 301.6 | 288.6 | 284.6 |
| 80° | 417.9 | 217.5 | 171.4 | 193.4 | 176.4 | 299.6 | 382.8 | 269.6 | 221.5 | 203.4 | 190.4 |
| 82.5° | 183.4 | 129.3 | 109.2 | 104.2 | 110.2 | 222.5 | 285.6 | 179.4 | 138.3 | 187.4 | 189.4 |
| 85° | 77.2 | 68.1 | 56.1 | 51.1 | 45.1 | 85.2 | 134.3 | 70.1 | 86.2 | 49.1 | 40.1 |
| 87.5° | 18.0 | 20.0 | 15.0 | 10.0 | 6.0 | 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)