

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: P635522

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
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-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9371.3 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

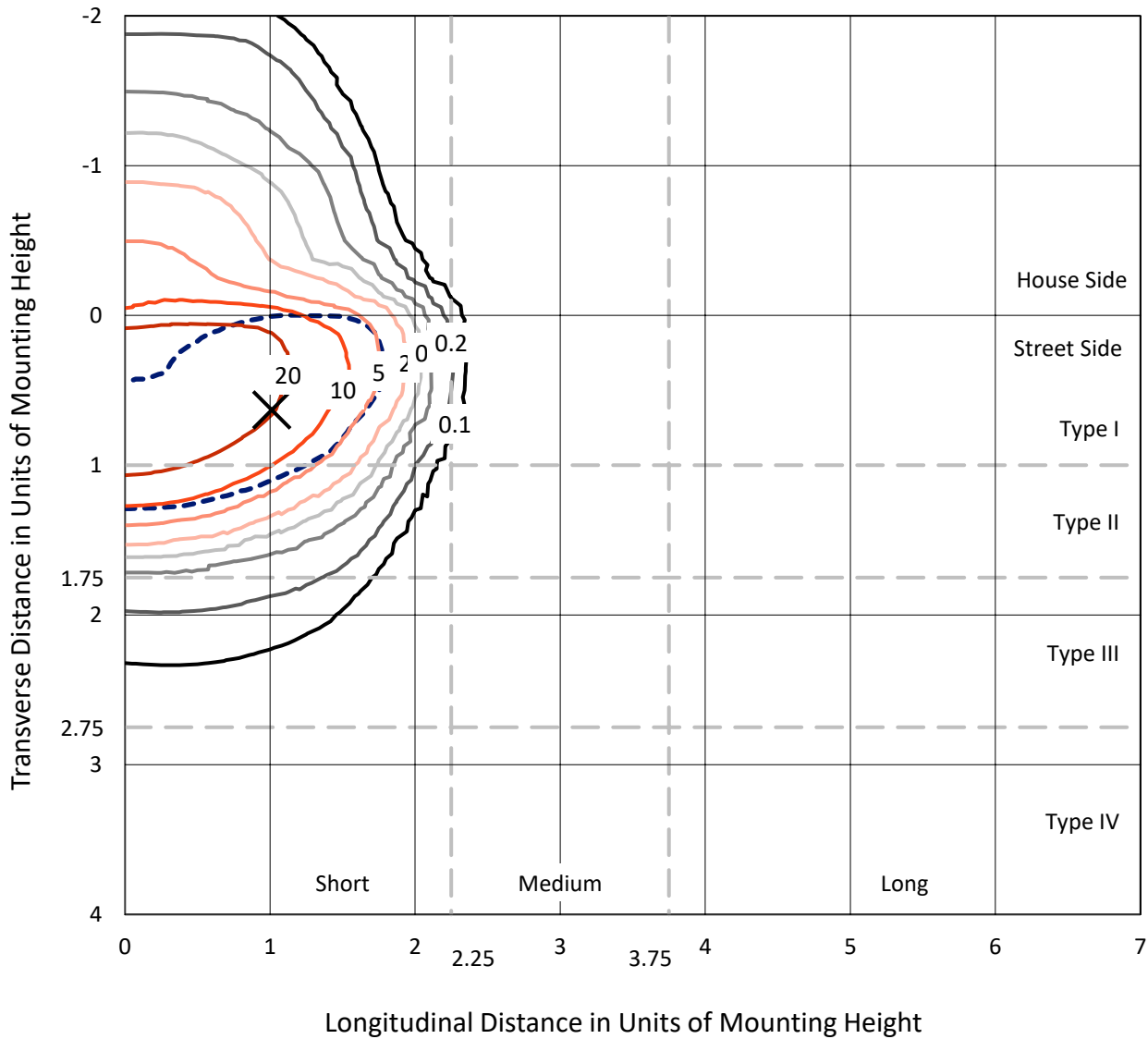
Input Watts (W): 120.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

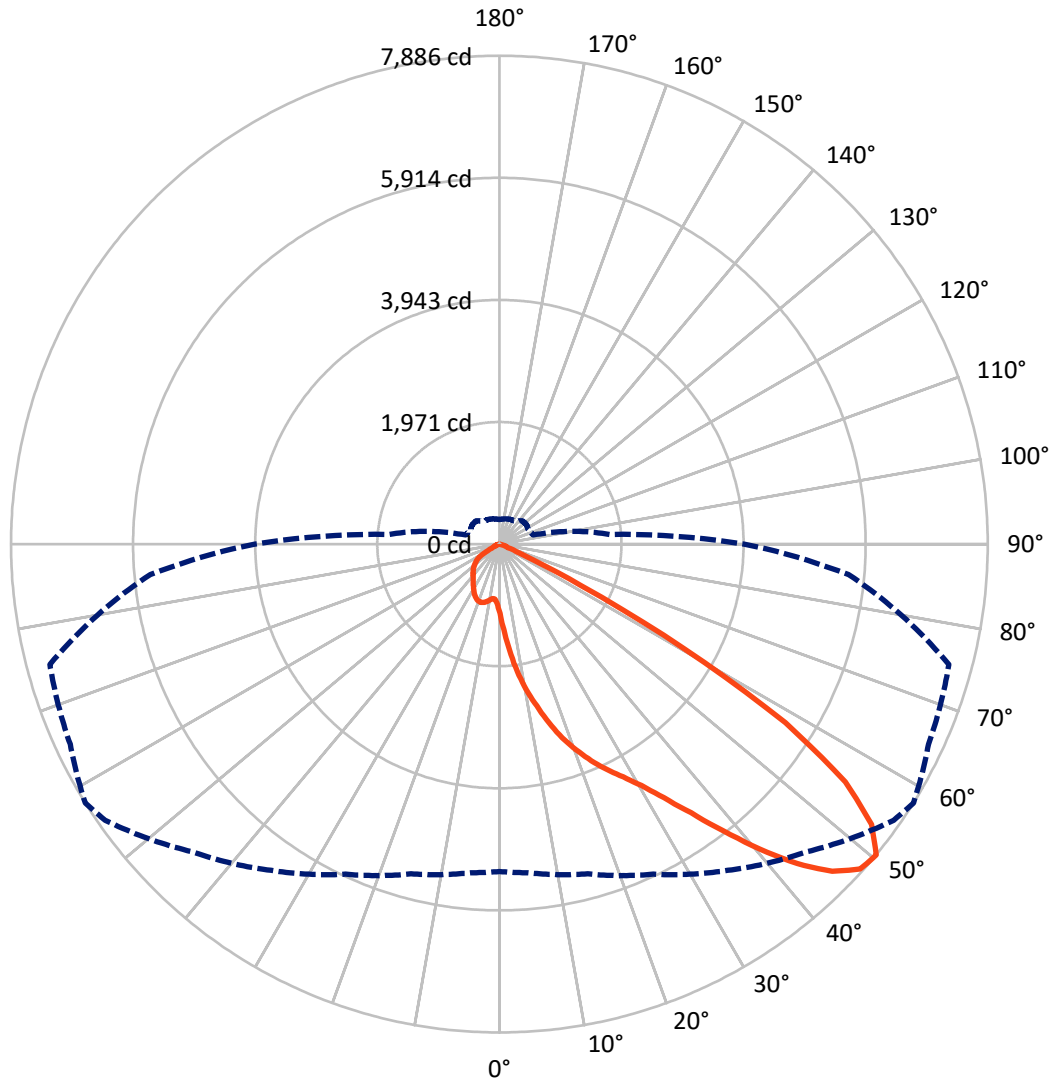
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 34.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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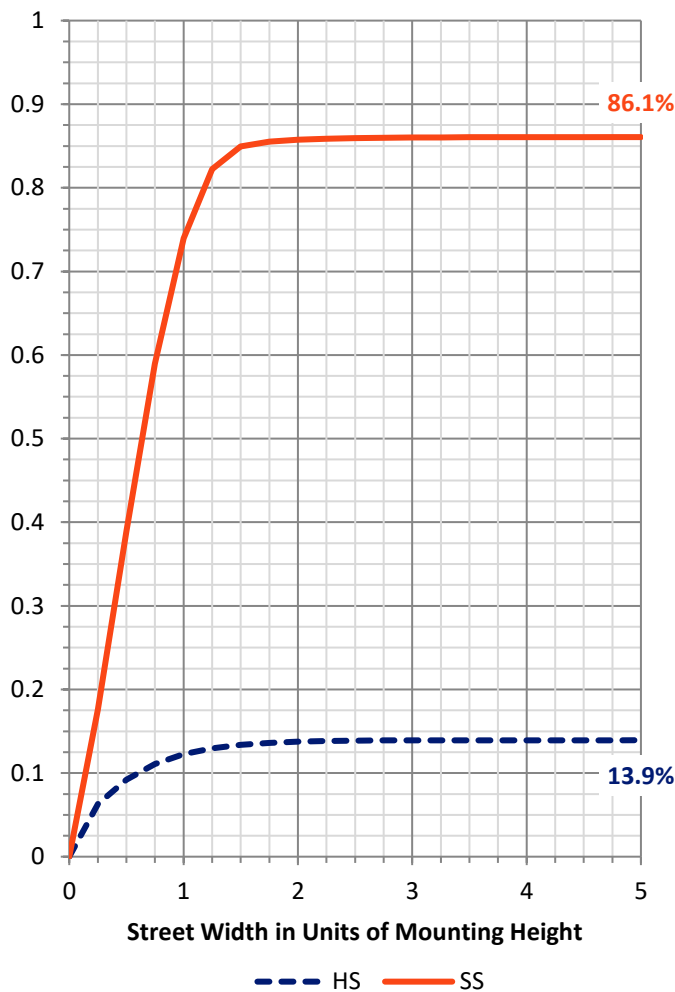
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1312.6 | 0.0 | 1312.6 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 8058.7 | 0.0 | 8058.7 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 9371.3 | 0.0 | 9371.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 138.7 | 1.5 |
| 10°-20° | 549.0 | 5.9 |
| 20°-30° | 1110.9 | 11.9 |
| 30°-40° | 1965.2 | 21.0 |
| 40°-50° | 2864.9 | 30.6 |
| 50°-60° | 2296.3 | 24.5 |
| 60°-70° | 413.7 | 4.4 |
| 70°-80° | 32.6 | 0.3 |
| 80°-90° | 0.0 | 0.0 |
| 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° | 9371.3 | 100.0 |
| 0°-180° | 9371.3 | 100.0 |

Coefficient of Utilization



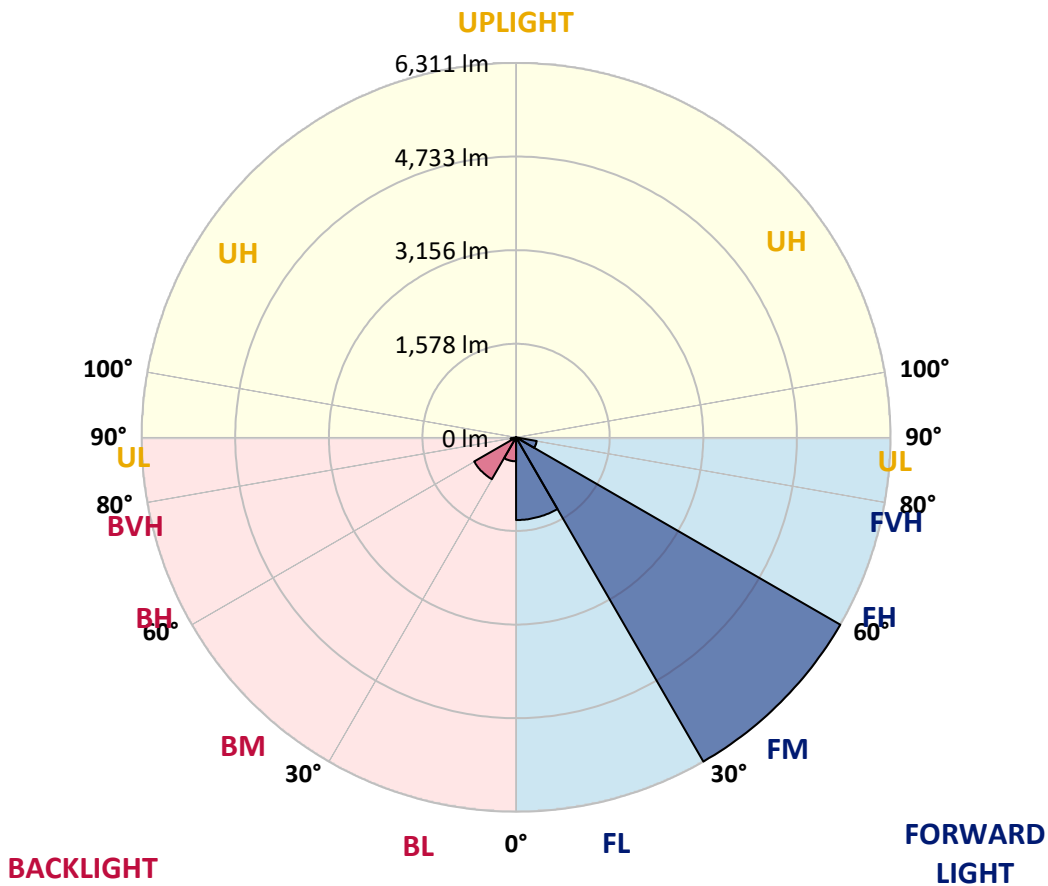
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1394.4 | 14.9 | | | |
| FM (30°-60°) | 6311.3 | 67.3 | | | |
| FH (60°-80°) | 353.0 | 3.8 | | | G0/660 |
| FVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 404.1 | 4.3 | B1/500 | | |
| BM (30°-60°) | 815.2 | 8.7 | B1/1000 | | |
| BH (60°-80°) | 93.3 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 |
| 2.5° | 1656.5 | 1630.5 | 1615.4 | 1603.4 | 1550.3 | 1466.1 | 1411.0 | 1381.9 | 1333.8 | 1252.7 | 1182.5 |
| 5° | 2161.6 | 2142.6 | 2107.5 | 2083.4 | 2015.3 | 1896.0 | 1772.8 | 1723.7 | 1614.4 | 1431.0 | 1266.7 |
| 7.5° | 2496.3 | 2482.3 | 2469.3 | 2437.2 | 2373.1 | 2264.8 | 2128.5 | 2077.4 | 1909.1 | 1648.5 | 1378.9 |
| 10° | 2753.9 | 2742.8 | 2727.8 | 2726.8 | 2676.7 | 2579.5 | 2446.2 | 2393.1 | 2210.7 | 1885.0 | 1511.2 |
| 12.5° | 2980.4 | 2971.3 | 2968.3 | 2996.4 | 2964.3 | 2892.2 | 2747.9 | 2681.7 | 2488.3 | 2126.5 | 1657.5 |
| 15° | 3135.7 | 3133.7 | 3146.7 | 3201.8 | 3219.9 | 3186.8 | 3065.5 | 2994.4 | 2771.9 | 2369.0 | 1818.9 |
| 17.5° | 3206.8 | 3212.8 | 3237.9 | 3333.1 | 3413.3 | 3441.3 | 3348.1 | 3288.0 | 3053.5 | 2614.6 | 1991.2 |
| 20° | 3328.1 | 3326.1 | 3341.1 | 3431.3 | 3529.5 | 3629.7 | 3601.7 | 3550.6 | 3338.1 | 2874.1 | 2182.7 |
| 22.5° | 3669.8 | 3640.8 | 3608.7 | 3622.7 | 3657.8 | 3775.0 | 3827.2 | 3801.1 | 3631.7 | 3140.7 | 2380.1 |
| 25° | 4194.9 | 4164.9 | 4061.7 | 3961.4 | 3895.3 | 3948.4 | 4019.6 | 4032.6 | 3923.4 | 3414.3 | 2586.5 |
| 27.5° | 4752.1 | 4725.1 | 4608.8 | 4458.5 | 4269.1 | 4176.9 | 4230.0 | 4256.1 | 4210.0 | 3740.0 | 2806.0 |
| 30° | 5274.2 | 5238.2 | 5110.9 | 4924.5 | 4705.0 | 4563.7 | 4503.6 | 4521.6 | 4548.7 | 4125.8 | 3063.5 |
| 32.5° | 5727.2 | 5700.1 | 5547.8 | 5351.4 | 5140.0 | 4992.6 | 4852.3 | 4882.4 | 4948.5 | 4597.8 | 3393.2 |
| 35° | 6111.0 | 6097.0 | 5935.7 | 5740.2 | 5516.8 | 5441.6 | 5321.3 | 5327.4 | 5393.5 | 5168.0 | 3795.1 |
| 37.5° | 6444.7 | 6420.7 | 6274.4 | 6093.0 | 5915.6 | 5903.6 | 5870.5 | 5873.5 | 5907.6 | 5832.4 | 4257.1 |
| 40° | 6655.2 | 6633.1 | 6528.9 | 6416.7 | 6290.4 | 6292.4 | 6463.8 | 6476.8 | 6437.7 | 6484.8 | 4745.1 |
| 42.5° | 6734.4 | 6718.3 | 6662.2 | 6663.2 | 6650.2 | 6709.3 | 7031.0 | 7055.0 | 6914.7 | 6996.9 | 5162.0 |
| 45° | 6597.1 | 6590.0 | 6594.1 | 6738.4 | 6894.7 | 7077.1 | 7495.0 | 7537.1 | 7338.6 | 7336.6 | 5487.7 |
| 47.5° | 6154.1 | 6140.1 | 6257.3 | 6502.9 | 6864.6 | 7219.4 | 7775.6 | 7840.7 | 7635.3 | 7531.1 | 5692.1 |
| 50° | 5286.3 | 5326.4 | 5511.7 | 5880.5 | 6430.7 | 7024.0 | 7772.6 | 7885.8 | 7646.3 | 7514.0 | 5658.1 |
| 52.5° | 3829.2 | 3821.1 | 4227.0 | 4734.1 | 5403.5 | 6398.6 | 7359.7 | 7525.0 | 7378.7 | 7346.7 | 5581.9 |
| 55° | 2083.4 | 2156.6 | 2430.2 | 3101.6 | 3937.4 | 5215.1 | 6416.7 | 6777.4 | 6946.8 | 7285.5 | 5719.2 |
| 57.5° | 765.6 | 797.7 | 969.1 | 1444.1 | 2084.4 | 3242.9 | 4901.4 | 5445.6 | 5968.7 | 7115.2 | 5696.1 |
| 60° | 308.7 | 314.7 | 382.8 | 531.1 | 875.9 | 1650.5 | 2940.3 | 3423.3 | 3916.3 | 5446.6 | 4371.3 |
| 62.5° | 224.5 | 232.5 | 259.6 | 310.7 | 442.9 | 721.5 | 1267.7 | 1474.1 | 1611.4 | 2697.7 | 2153.6 |
| 65° | 181.4 | 187.4 | 209.4 | 232.5 | 292.6 | 387.8 | 408.9 | 393.8 | 391.8 | 697.5 | 494.1 |
| 67.5° | 150.3 | 156.3 | 172.4 | 188.4 | 210.4 | 193.4 | 140.3 | 147.3 | 120.3 | 119.3 | 97.2 |
| 70° | 110.2 | 117.2 | 133.3 | 150.3 | 126.3 | 52.1 | 81.2 | 120.3 | 91.2 | 76.2 | 74.2 |
| 72.5° | 83.2 | 88.2 | 103.2 | 98.2 | 37.1 | 20.0 | 54.1 | 87.2 | 70.1 | 56.1 | 55.1 |
| 75° | 62.1 | 65.1 | 52.1 | 16.0 | 4.0 | 5.0 | 20.0 | 36.1 | 39.1 | 32.1 | 32.1 |
| 77.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 | 1119.4 |
| 2.5° | 1142.4 | 1100.3 | 1040.2 | 990.1 | 952.0 | 914.9 | 886.9 | 858.8 | 857.8 | 843.8 | 840.8 |
| 5° | 1190.5 | 1114.4 | 1004.1 | 925.0 | 876.9 | 847.8 | 827.8 | 817.7 | 812.7 | 807.7 | 805.7 |
| 7.5° | 1259.7 | 1150.5 | 998.1 | 913.9 | 873.9 | 854.8 | 840.8 | 834.8 | 831.8 | 827.8 | 826.8 |
| 10° | 1344.9 | 1202.6 | 1020.2 | 935.0 | 899.9 | 881.9 | 866.8 | 857.8 | 852.8 | 845.8 | 843.8 |
| 12.5° | 1447.1 | 1266.7 | 1055.2 | 970.1 | 933.0 | 908.9 | 888.9 | 875.9 | 868.9 | 859.8 | 857.8 |
| 15° | 1557.3 | 1335.8 | 1094.3 | 1002.1 | 958.0 | 927.0 | 901.9 | 881.9 | 868.9 | 857.8 | 854.8 |
| 17.5° | 1671.6 | 1406.0 | 1129.4 | 1024.2 | 970.1 | 933.0 | 896.9 | 869.9 | 853.8 | 839.8 | 835.8 |
| 20° | 1799.8 | 1478.2 | 1152.5 | 1028.2 | 966.1 | 917.0 | 874.9 | 840.8 | 824.8 | 805.7 | 801.7 |
| 22.5° | 1934.1 | 1545.3 | 1162.5 | 1019.2 | 944.0 | 886.9 | 841.8 | 806.7 | 783.7 | 763.6 | 757.6 |
| 25° | 2064.4 | 1605.4 | 1157.5 | 994.1 | 910.9 | 844.8 | 798.7 | 762.6 | 737.6 | 717.5 | 712.5 |
| 27.5° | 2202.7 | 1655.5 | 1139.4 | 957.0 | 865.8 | 798.7 | 754.6 | 723.5 | 700.5 | 678.4 | 673.4 |
| 30° | 2358.0 | 1701.6 | 1110.4 | 911.9 | 812.7 | 751.6 | 717.5 | 696.5 | 671.4 | 648.4 | 641.4 |
| 32.5° | 2545.4 | 1742.7 | 1068.3 | 857.8 | 765.6 | 710.5 | 691.5 | 675.4 | 646.4 | 622.3 | 617.3 |
| 35° | 2759.9 | 1776.8 | 1015.2 | 801.7 | 719.5 | 684.5 | 680.5 | 659.4 | 621.3 | 593.3 | 587.3 |
| 37.5° | 3008.4 | 1809.9 | 952.0 | 746.6 | 685.5 | 672.4 | 673.4 | 637.4 | 591.3 | 557.2 | 553.2 |
| 40° | 3276.0 | 1842.9 | 881.9 | 698.5 | 654.4 | 665.4 | 656.4 | 605.3 | 530.1 | 497.1 | 493.1 |
| 42.5° | 3554.6 | 1879.0 | 810.7 | 653.4 | 628.3 | 638.4 | 625.3 | 541.2 | 487.0 | 470.0 | 468.0 |
| 45° | 3806.1 | 1922.1 | 733.6 | 608.3 | 602.3 | 599.3 | 577.2 | 490.0 | 467.0 | 455.0 | 454.0 |
| 47.5° | 3987.5 | 1915.1 | 651.4 | 565.2 | 574.2 | 564.2 | 497.1 | 466.0 | 447.0 | 430.9 | 426.9 |
| 50° | 3954.4 | 1792.8 | 566.2 | 517.1 | 538.1 | 529.1 | 447.0 | 437.9 | 420.9 | 403.9 | 397.8 |
| 52.5° | 3870.2 | 1626.5 | 492.0 | 466.0 | 499.1 | 478.0 | 412.9 | 403.9 | 388.8 | 366.8 | 359.8 |
| 55° | 3915.3 | 1470.1 | 433.9 | 424.9 | 459.0 | 395.8 | 374.8 | 360.8 | 344.7 | 320.7 | 317.7 |
| 57.5° | 3770.0 | 1199.6 | 348.7 | 354.8 | 405.9 | 337.7 | 328.7 | 306.7 | 279.6 | 263.6 | 261.6 |
| 60° | 2609.6 | 644.4 | 218.5 | 225.5 | 293.6 | 283.6 | 294.6 | 274.6 | 241.5 | 226.5 | 223.5 |
| 62.5° | 1198.6 | 258.6 | 119.3 | 114.2 | 154.3 | 192.4 | 252.5 | 250.5 | 209.4 | 185.4 | 183.4 |
| 65° | 290.6 | 118.3 | 85.2 | 80.2 | 87.2 | 115.2 | 164.4 | 197.4 | 169.4 | 141.3 | 138.3 |
| 67.5° | 94.2 | 96.2 | 78.2 | 73.2 | 77.2 | 86.2 | 98.2 | 109.2 | 108.2 | 99.2 | 97.2 |
| 70° | 75.2 | 87.2 | 72.2 | 66.1 | 66.1 | 69.1 | 66.1 | 53.1 | 46.1 | 50.1 | 52.1 |
| 72.5° | 56.1 | 66.1 | 57.1 | 51.1 | 49.1 | 48.1 | 41.1 | 30.1 | 21.0 | 19.0 | 18.0 |
| 75° | 33.1 | 37.1 | 35.1 | 30.1 | 28.1 | 25.1 | 20.0 | 13.0 | 7.0 | 5.0 | 3.0 |
| 77.5° | 6.0 | 7.0 | 8.0 | 6.0 | 5.0 | 4.0 | 3.0 | 1.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)