

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: P629460

Luminaire Tested: GWS-SA1B-760-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1B-760-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3472.7 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

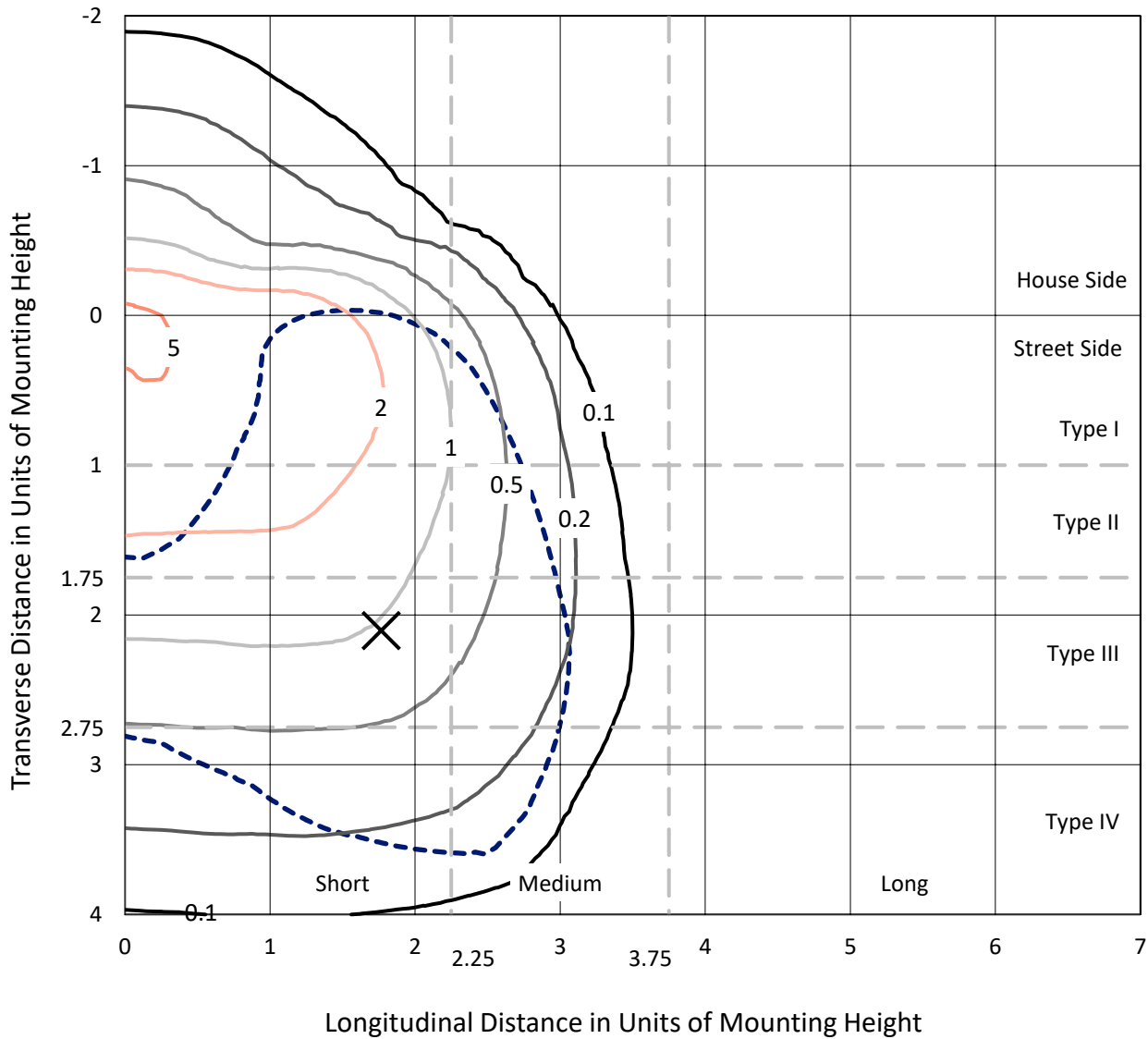
Input Watts (W): 25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

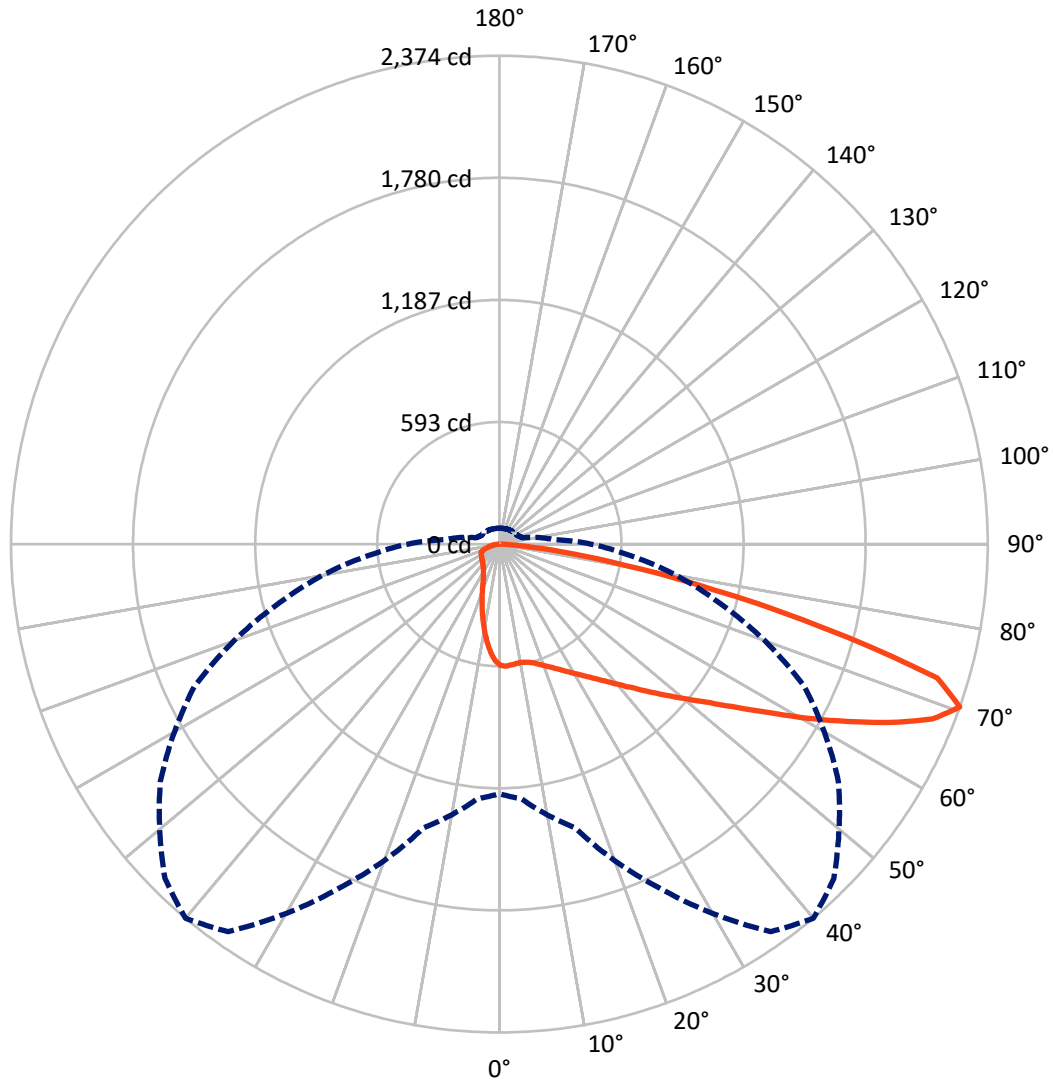
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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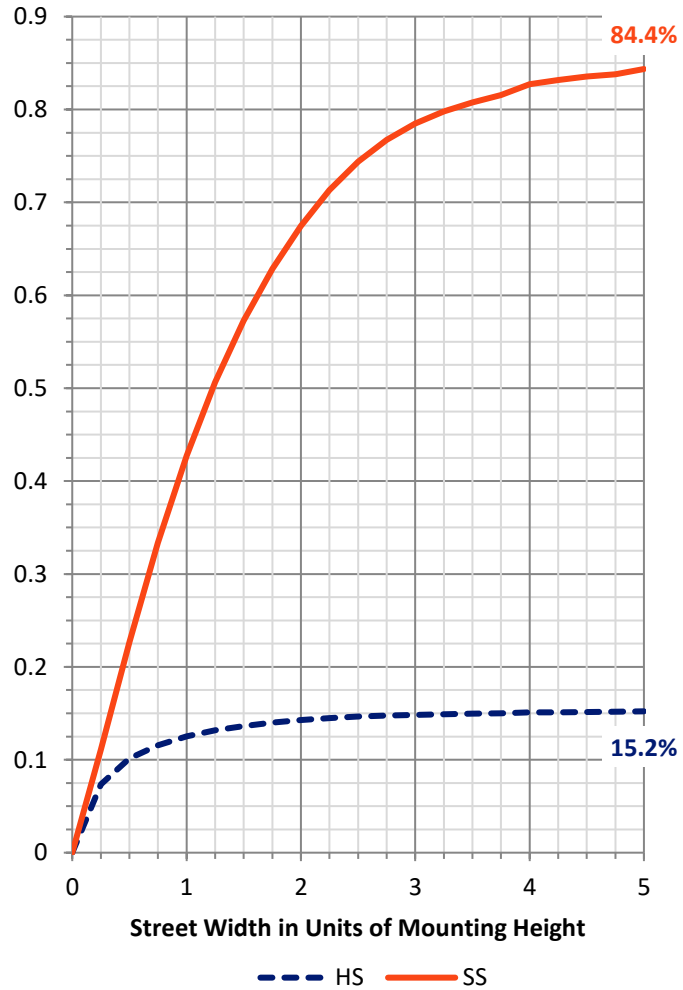
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 534.9 | 0.0 | 534.9 |
| | % Fixture | 15.4 | 0.0 | 15.4 |
| Street Side | Lumens | 2937.8 | 0.0 | 2937.8 |
| | % Fixture | 84.6 | 0.0 | 84.6 |
| Total | Lumens | 3472.7 | 0.0 | 3472.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 52.1 | 1.5 |
| 10°-20° | 135.8 | 3.9 |
| 20°-30° | 213.2 | 6.1 |
| 30°-40° | 320.6 | 9.2 |
| 40°-50° | 494.8 | 14.2 |
| 50°-60° | 734.8 | 21.2 |
| 60°-70° | 926.3 | 26.7 |
| 70°-80° | 535.6 | 15.4 |
| 80°-90° | 59.4 | 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° | 3472.7 | 100.0 |
| 0°-180° | 3472.7 | 100.0 |

Coefficient of Utilization



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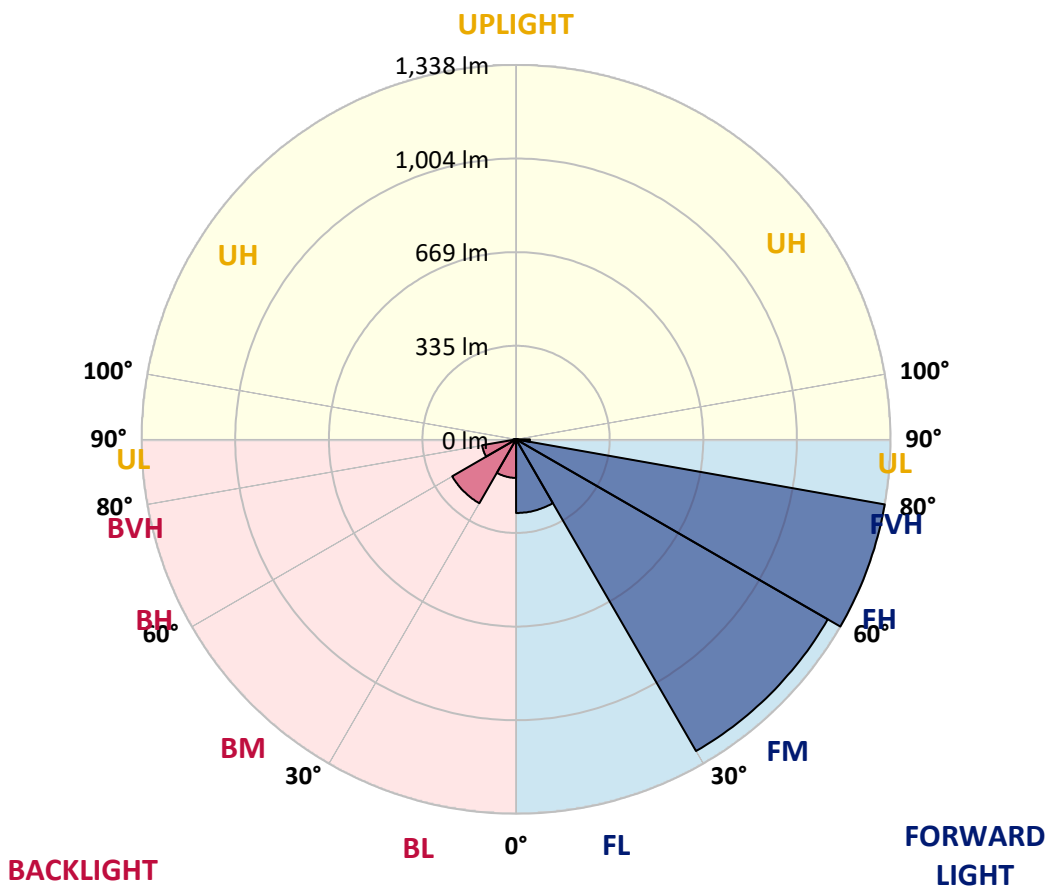
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 263.3 | 7.6 | | | |
| FM (30°-60°) | 1286.6 | 37.0 | | | |
| FH (60°-80°) | 1338.5 | 38.5 | | | G1/1800 |
| FVH (80°-90°) | 49.5 | 1.4 | | | G1/100 |
| BL (0°-30°) | 137.8 | 4.0 | B1/500 | | |
| BM (30°-60°) | 263.6 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 123.4 | 3.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.9 | 0.3 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 40° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 |
| 2.5° | 593.3 | 594.4 | 595.1 | 596.2 | 595.7 | 594.1 | 595.4 | 595.4 | 592.6 | 589.4 | 586.6 |
| 5° | 594.1 | 595.4 | 595.1 | 594.9 | 592.8 | 590.2 | 590.2 | 588.7 | 583.7 | 578.8 | 574.2 |
| 7.5° | 592.6 | 592.3 | 592.0 | 591.3 | 588.9 | 586.1 | 585.6 | 582.4 | 576.0 | 569.2 | 562.5 |
| 10° | 585.6 | 585.3 | 586.1 | 587.9 | 587.4 | 584.8 | 584.8 | 581.9 | 574.4 | 566.1 | 557.3 |
| 12.5° | 579.9 | 579.9 | 583.0 | 587.9 | 589.7 | 588.7 | 588.9 | 586.9 | 578.3 | 568.4 | 558.1 |
| 15° | 580.6 | 580.9 | 587.6 | 595.7 | 599.0 | 598.3 | 598.5 | 596.2 | 586.6 | 576.7 | 562.7 |
| 17.5° | 585.8 | 587.1 | 598.8 | 609.9 | 614.3 | 613.3 | 611.5 | 607.6 | 596.7 | 585.6 | 568.4 |
| 20° | 596.7 | 598.8 | 613.8 | 627.8 | 633.0 | 630.7 | 627.5 | 619.8 | 607.8 | 595.7 | 574.7 |
| 22.5° | 618.2 | 619.5 | 636.1 | 649.8 | 654.0 | 651.1 | 644.9 | 633.8 | 620.0 | 607.3 | 582.2 |
| 25° | 648.5 | 650.1 | 665.9 | 678.6 | 677.6 | 674.2 | 665.7 | 651.9 | 635.6 | 622.1 | 593.1 |
| 27.5° | 684.6 | 687.2 | 702.7 | 712.8 | 706.1 | 701.2 | 691.6 | 675.0 | 656.6 | 644.4 | 609.7 |
| 30° | 724.0 | 725.0 | 738.2 | 748.3 | 738.0 | 731.2 | 719.6 | 701.7 | 685.1 | 676.0 | 634.5 |
| 32.5° | 762.1 | 763.1 | 774.5 | 780.2 | 769.3 | 764.4 | 754.3 | 735.4 | 723.7 | 718.8 | 671.6 |
| 35° | 802.3 | 802.0 | 811.3 | 816.3 | 805.1 | 803.0 | 792.7 | 778.2 | 776.1 | 782.6 | 725.8 |
| 37.5° | 842.4 | 840.1 | 845.0 | 851.5 | 845.3 | 847.4 | 840.6 | 835.7 | 843.7 | 860.6 | 797.9 |
| 40° | 874.6 | 874.6 | 879.8 | 887.8 | 889.9 | 898.9 | 895.1 | 901.5 | 927.5 | 967.6 | 887.0 |
| 42.5° | 903.1 | 903.3 | 914.2 | 926.7 | 941.7 | 955.7 | 958.8 | 975.7 | 1029.3 | 1092.3 | 999.0 |
| 45° | 932.9 | 933.2 | 947.9 | 966.1 | 998.0 | 1024.7 | 1030.9 | 1068.7 | 1145.5 | 1222.2 | 1120.6 |
| 47.5° | 967.4 | 964.5 | 985.0 | 1015.3 | 1060.7 | 1099.1 | 1115.1 | 1168.8 | 1265.7 | 1360.1 | 1235.1 |
| 50° | 1006.3 | 1000.3 | 1023.1 | 1075.5 | 1131.5 | 1184.1 | 1211.0 | 1272.5 | 1394.8 | 1487.4 | 1343.0 |
| 52.5° | 1050.1 | 1046.7 | 1070.5 | 1134.3 | 1219.8 | 1280.5 | 1317.0 | 1397.7 | 1520.3 | 1614.1 | 1428.5 |
| 55° | 1104.5 | 1096.5 | 1130.9 | 1212.1 | 1323.5 | 1400.8 | 1444.1 | 1521.6 | 1657.4 | 1729.2 | 1493.8 |
| 57.5° | 1164.1 | 1155.3 | 1201.4 | 1309.3 | 1458.3 | 1543.1 | 1597.3 | 1661.0 | 1786.5 | 1817.3 | 1532.2 |
| 60° | 1228.4 | 1225.5 | 1280.2 | 1423.3 | 1619.0 | 1717.5 | 1756.7 | 1814.5 | 1898.7 | 1868.4 | 1522.6 |
| 62.5° | 1287.2 | 1286.2 | 1365.8 | 1547.0 | 1789.3 | 1897.7 | 1928.8 | 1944.1 | 1979.6 | 1865.0 | 1446.4 |
| 65° | 1349.2 | 1358.0 | 1465.6 | 1690.3 | 1984.5 | 2090.8 | 2103.8 | 2064.9 | 2006.8 | 1776.6 | 1290.4 |
| 67.5° | 1357.0 | 1374.1 | 1528.3 | 1824.6 | 2169.6 | 2269.9 | 2259.5 | 2110.8 | 1926.5 | 1530.6 | 1011.4 |
| 70° | 1213.6 | 1243.4 | 1428.3 | 1845.1 | 2300.0 | 2373.9 | 2298.9 | 2012.0 | 1634.8 | 1108.9 | 636.1 |
| 72.5° | 1014.0 | 1039.7 | 1203.0 | 1573.4 | 2131.7 | 2225.8 | 2124.5 | 1703.0 | 1155.3 | 636.1 | 324.0 |
| 75° | 789.3 | 819.1 | 969.7 | 1250.7 | 1596.0 | 1633.5 | 1582.7 | 1187.7 | 635.1 | 262.3 | 147.2 |
| 77.5° | 481.6 | 503.1 | 620.3 | 847.4 | 1116.7 | 1060.4 | 898.7 | 665.9 | 278.7 | 125.7 | 91.0 |
| 80° | 213.1 | 226.3 | 305.6 | 455.2 | 645.2 | 609.9 | 480.8 | 284.4 | 152.4 | 79.8 | 63.5 |
| 82.5° | 114.3 | 122.9 | 150.6 | 180.2 | 283.3 | 296.3 | 240.3 | 163.8 | 81.9 | 45.6 | 36.3 |
| 85° | 50.3 | 55.2 | 68.4 | 65.3 | 93.1 | 91.5 | 92.3 | 112.5 | 39.1 | 21.0 | 23.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 2.9 | 15.0 | 3.9 | 6.2 | 5.4 |
| 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° | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 | 589.7 |
| 2.5° | 583.5 | 578.8 | 577.5 | 576.0 | 573.1 | 568.2 | 564.6 | 560.4 | 558.6 | 556.5 | 556.8 |
| 5° | 569.0 | 563.3 | 557.8 | 550.8 | 542.0 | 532.2 | 525.4 | 517.6 | 513.5 | 509.6 | 510.6 |
| 7.5° | 556.5 | 547.7 | 536.6 | 521.8 | 506.0 | 488.4 | 474.1 | 463.0 | 455.4 | 450.2 | 452.8 |
| 10° | 548.7 | 538.4 | 518.9 | 494.8 | 468.1 | 441.2 | 420.7 | 401.5 | 389.6 | 380.3 | 379.7 |
| 12.5° | 547.2 | 533.7 | 505.5 | 470.5 | 431.8 | 395.8 | 365.7 | 339.8 | 324.0 | 312.3 | 316.8 |
| 15° | 548.7 | 531.6 | 493.8 | 447.9 | 399.2 | 350.5 | 313.1 | 283.3 | 264.4 | 253.8 | 253.0 |
| 17.5° | 550.6 | 529.6 | 480.6 | 423.6 | 365.0 | 309.2 | 266.0 | 234.3 | 214.9 | 204.3 | 204.5 |
| 20° | 552.1 | 526.5 | 465.0 | 396.9 | 330.2 | 270.9 | 226.0 | 196.0 | 178.6 | 170.8 | 172.1 |
| 22.5° | 554.7 | 523.3 | 448.4 | 368.3 | 294.7 | 233.8 | 194.4 | 170.0 | 159.7 | 154.5 | 154.7 |
| 25° | 559.6 | 521.5 | 431.3 | 337.2 | 259.7 | 204.3 | 172.6 | 156.3 | 149.8 | 146.7 | 146.5 |
| 27.5° | 569.7 | 523.1 | 413.4 | 307.2 | 228.1 | 181.7 | 158.6 | 148.0 | 143.6 | 141.5 | 141.3 |
| 30° | 586.6 | 529.3 | 397.9 | 276.6 | 200.9 | 164.1 | 149.0 | 142.6 | 140.0 | 138.2 | 137.9 |
| 32.5° | 612.3 | 541.0 | 381.0 | 248.1 | 178.9 | 151.1 | 141.5 | 138.2 | 136.3 | 135.3 | 135.3 |
| 35° | 651.1 | 562.2 | 364.5 | 223.2 | 161.7 | 141.0 | 135.6 | 134.3 | 132.7 | 132.2 | 132.7 |
| 37.5° | 707.1 | 596.2 | 349.4 | 201.4 | 149.6 | 133.2 | 129.1 | 129.6 | 128.3 | 129.1 | 129.9 |
| 40° | 778.2 | 641.5 | 336.7 | 183.5 | 140.5 | 127.5 | 123.4 | 125.2 | 124.4 | 125.2 | 126.5 |
| 42.5° | 868.1 | 697.8 | 327.1 | 169.5 | 134.0 | 122.9 | 119.0 | 120.8 | 120.3 | 121.3 | 122.6 |
| 45° | 968.4 | 771.9 | 322.7 | 159.7 | 129.3 | 119.5 | 115.3 | 116.6 | 116.1 | 116.9 | 118.2 |
| 47.5° | 1064.6 | 839.3 | 326.6 | 154.0 | 125.5 | 116.6 | 112.2 | 112.8 | 112.5 | 112.2 | 113.0 |
| 50° | 1147.5 | 893.0 | 337.8 | 152.2 | 122.9 | 113.8 | 109.6 | 109.9 | 109.1 | 107.6 | 108.1 |
| 52.5° | 1215.2 | 936.0 | 344.5 | 152.2 | 121.6 | 110.7 | 106.8 | 107.1 | 105.5 | 103.4 | 103.7 |
| 55° | 1259.8 | 953.4 | 339.0 | 151.9 | 121.1 | 108.1 | 103.9 | 104.2 | 102.6 | 100.1 | 100.3 |
| 57.5° | 1272.5 | 936.5 | 316.2 | 149.0 | 120.5 | 106.0 | 101.1 | 101.6 | 100.6 | 97.7 | 97.7 |
| 60° | 1237.0 | 874.8 | 274.5 | 142.6 | 119.2 | 104.7 | 99.0 | 99.8 | 99.3 | 96.4 | 96.4 |
| 62.5° | 1143.9 | 765.2 | 224.7 | 132.7 | 115.6 | 103.2 | 97.2 | 98.8 | 100.1 | 98.5 | 98.2 |
| 65° | 969.7 | 613.0 | 182.7 | 121.8 | 110.9 | 100.6 | 94.6 | 98.5 | 101.4 | 103.4 | 103.4 |
| 67.5° | 727.6 | 438.8 | 149.0 | 110.4 | 103.9 | 95.4 | 91.2 | 94.9 | 96.9 | 98.2 | 99.0 |
| 70° | 443.5 | 258.2 | 117.4 | 97.2 | 93.8 | 87.6 | 84.5 | 80.9 | 78.0 | 77.5 | 77.8 |
| 72.5° | 217.0 | 147.8 | 95.4 | 82.7 | 80.1 | 74.4 | 67.4 | 65.8 | 64.5 | 63.8 | 63.5 |
| 75° | 119.5 | 102.9 | 78.8 | 68.7 | 64.0 | 57.0 | 55.5 | 52.9 | 52.4 | 51.3 | 51.6 |
| 77.5° | 84.5 | 81.1 | 65.1 | 55.7 | 48.7 | 45.1 | 45.9 | 44.1 | 44.1 | 43.3 | 43.0 |
| 80° | 63.5 | 63.8 | 50.0 | 40.7 | 36.0 | 34.7 | 35.5 | 35.5 | 35.0 | 34.7 | 34.5 |
| 82.5° | 40.2 | 45.4 | 33.7 | 26.2 | 25.7 | 25.9 | 25.7 | 25.4 | 25.9 | 25.1 | 24.9 |
| 85° | 27.7 | 32.7 | 20.5 | 15.6 | 15.6 | 15.3 | 15.8 | 15.6 | 16.1 | 15.3 | 15.3 |
| 87.5° | 6.2 | 14.5 | 7.5 | 4.7 | 4.9 | 4.7 | 4.9 | 5.2 | 5.7 | 6.0 | 6.0 |
| 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)