

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: P652164

Luminaire Tested: **GALN-SA1B-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2826.6 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

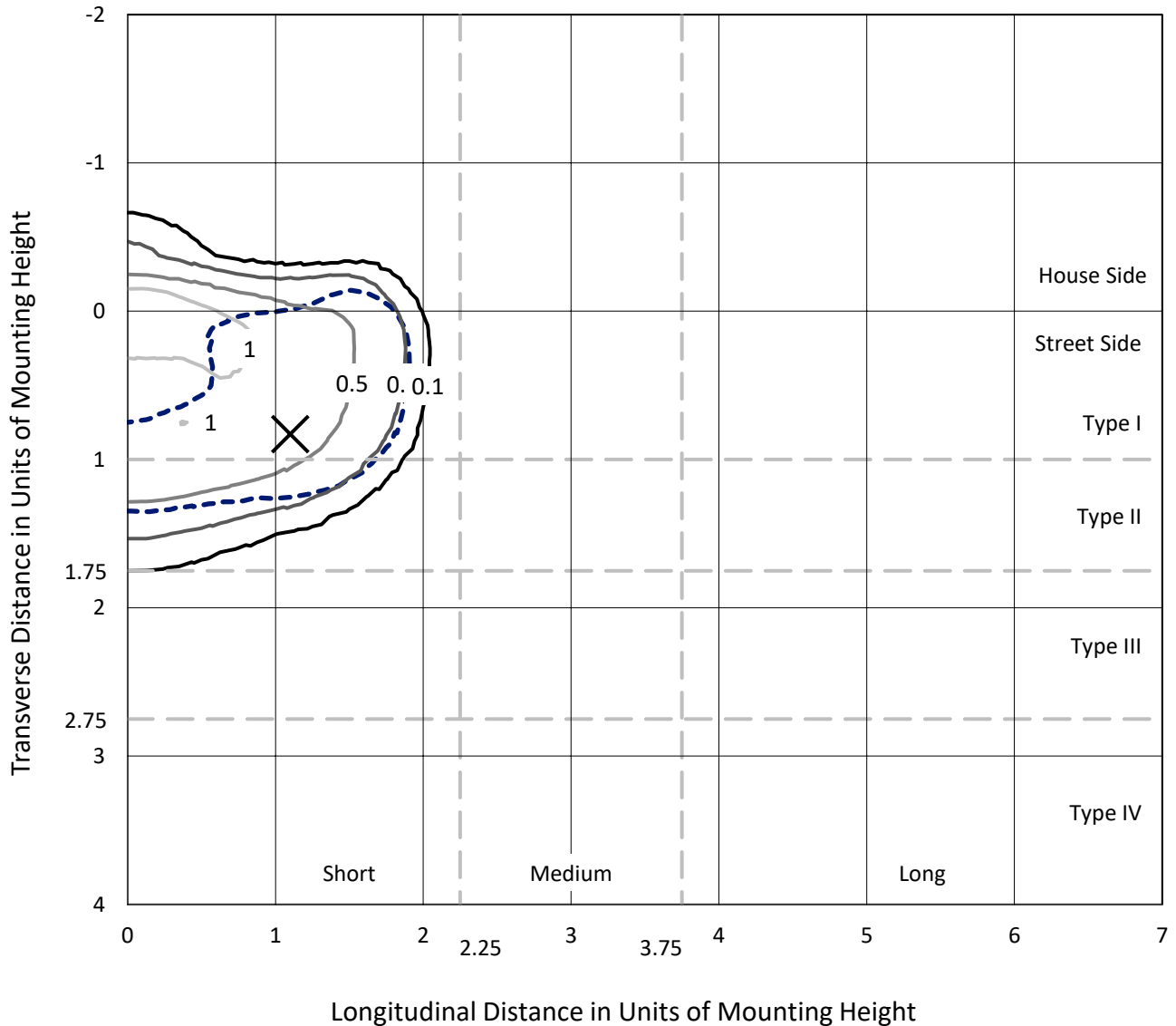
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

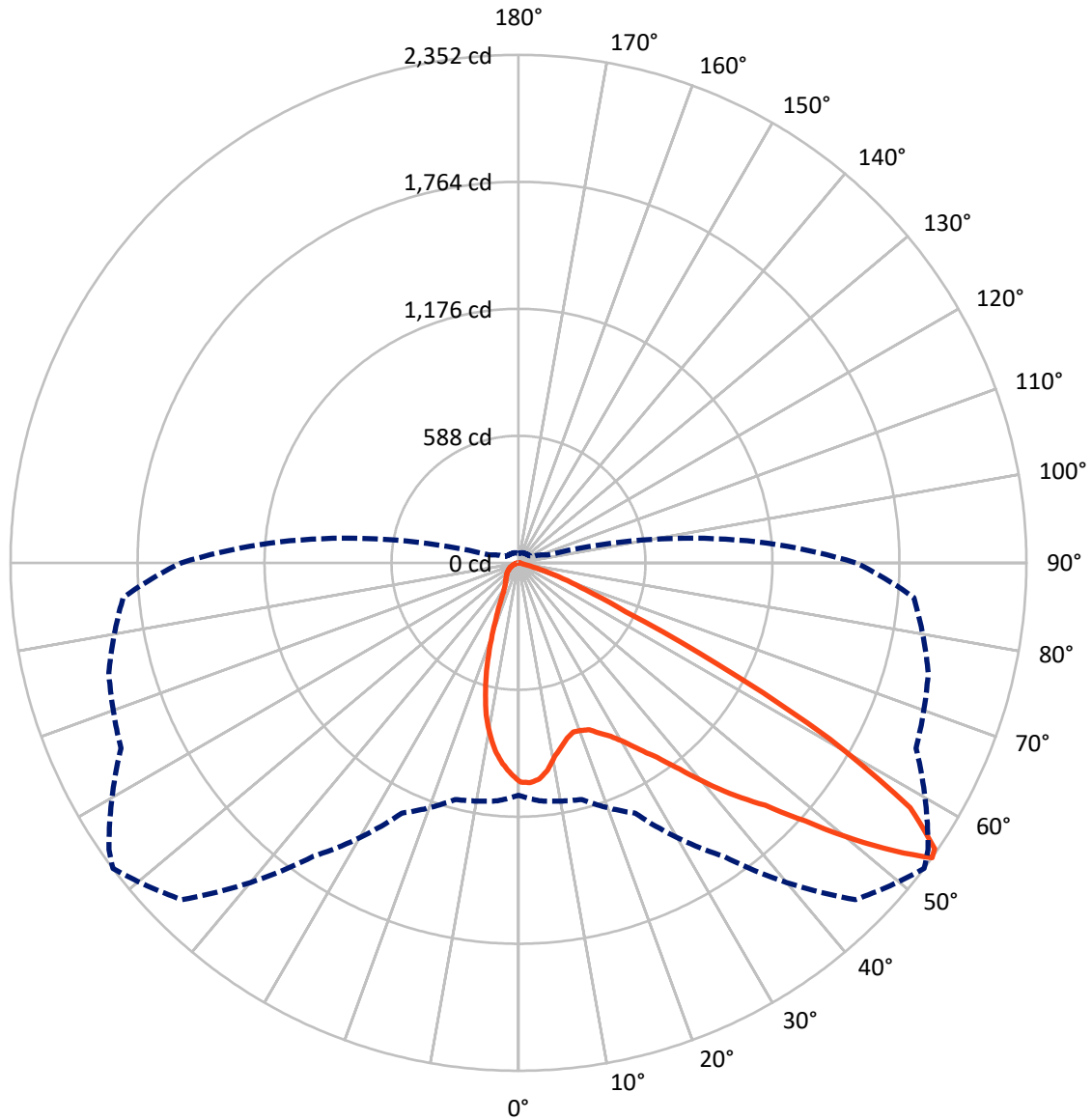
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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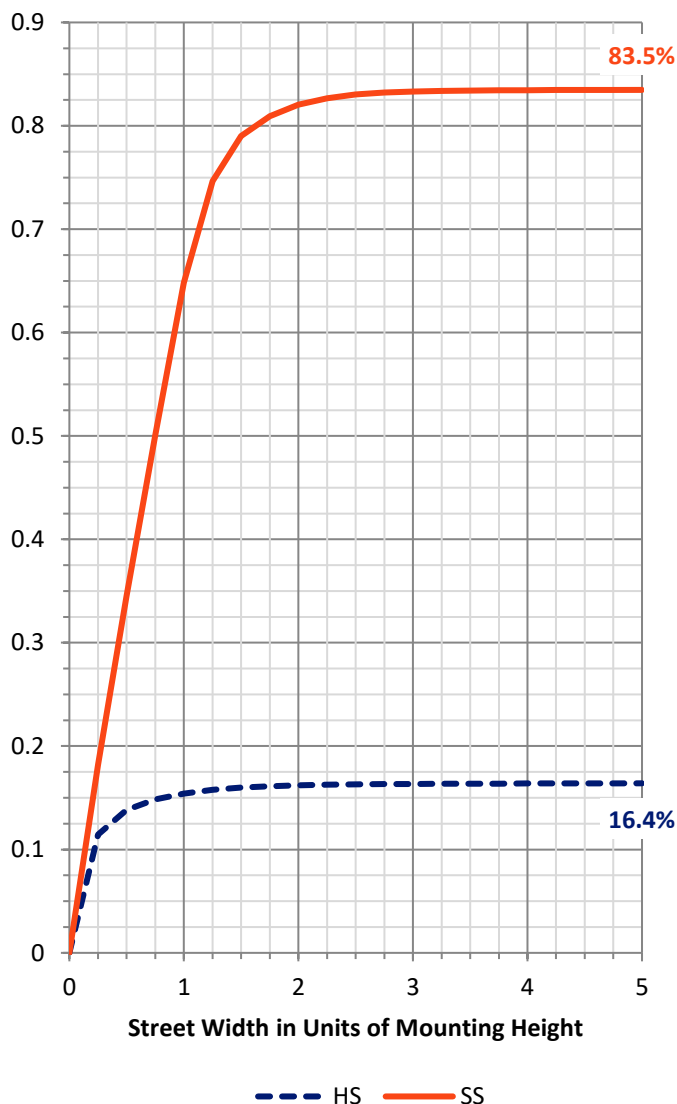
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 467.6 | 0.0 | 467.6 |
| | % Fixture | 16.5 | 0.0 | 16.5 |
| Street Side | Lumens | 2358.9 | 0.0 | 2358.9 |
| | % Fixture | 83.5 | 0.0 | 83.5 |
| Total | Lumens | 2826.6 | 0.0 | 2826.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.1 | 3.1 |
| 10°-20° | 199.7 | 7.1 |
| 20°-30° | 283.8 | 10.0 |
| 30°-40° | 438.0 | 15.5 |
| 40°-50° | 686.8 | 24.3 |
| 50°-60° | 797.8 | 28.2 |
| 60°-70° | 301.4 | 10.7 |
| 70°-80° | 28.7 | 1.0 |
| 80°-90° | 3.2 | 0.1 |
| 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° | 2826.6 | 100.0 |
| 0°-180° | 2826.6 | 100.0 |

Coefficient of Utilization

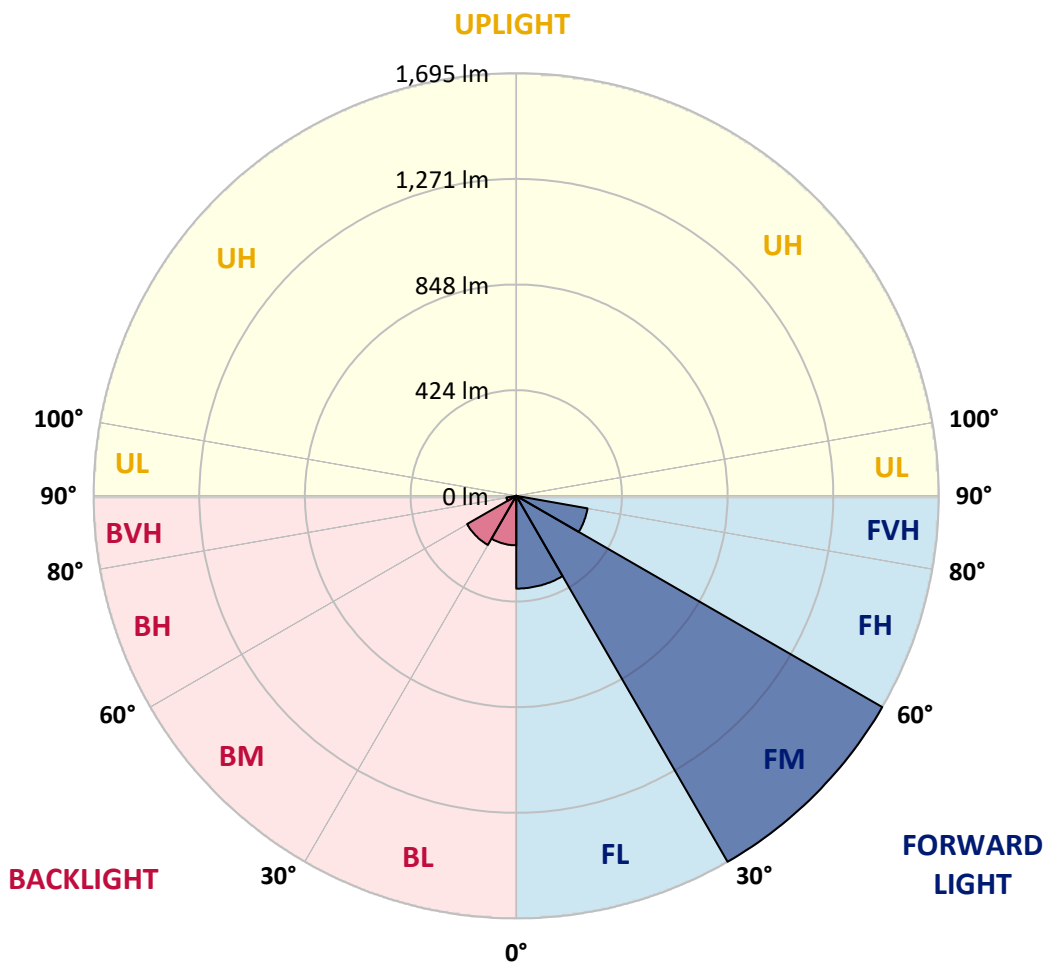


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 372.2 | 13.2 | | | |
| FM (30°-60°) | 1695.0 | 60.0 | | | |
| FH (60°-80°) | 290.1 | 10.3 | | | G0/660 |
| FVH (80°-90°) | 1.7 | 0.1 | | | G0/10 |
| BL (0°-30°) | 198.5 | 7.0 | B1/500 | | |
| BM (30°-60°) | 227.6 | 8.1 | B1/1000 | | |
| BH (60°-80°) | 40.1 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.6 | 0.1 | | | 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° | 53° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 |
| 2.5° | 1010.0 | 1001.0 | 1010.0 | 1011.1 | 1017.4 | 1023.2 | 1019.5 | 1027.9 | 1023.2 | 1017.9 | 1016.3 |
| 5° | 928.4 | 940.5 | 941.0 | 960.0 | 955.8 | 990.5 | 1005.8 | 1001.5 | 1027.4 | 1025.8 | 1022.2 |
| 7.5° | 855.2 | 850.4 | 856.7 | 878.8 | 906.8 | 946.8 | 968.9 | 968.4 | 1005.2 | 1031.6 | 1029.0 |
| 10° | 787.3 | 786.8 | 799.9 | 817.3 | 841.0 | 883.1 | 913.7 | 928.9 | 986.3 | 1026.4 | 1032.2 |
| 12.5° | 741.4 | 739.3 | 753.5 | 767.7 | 805.2 | 837.8 | 876.7 | 884.1 | 950.0 | 1007.9 | 1017.4 |
| 15° | 711.4 | 716.2 | 717.2 | 744.6 | 768.3 | 811.5 | 842.0 | 857.3 | 933.1 | 993.1 | 1029.5 |
| 17.5° | 706.2 | 712.5 | 713.0 | 735.6 | 760.9 | 797.3 | 824.1 | 844.6 | 918.9 | 1000.5 | 1030.0 |
| 20° | 716.7 | 713.0 | 716.2 | 730.4 | 755.1 | 789.9 | 828.9 | 835.7 | 914.2 | 1004.2 | 1035.8 |
| 22.5° | 746.7 | 745.6 | 737.7 | 749.3 | 766.7 | 803.1 | 839.9 | 850.4 | 927.9 | 1023.2 | 1040.6 |
| 25° | 779.9 | 785.7 | 778.3 | 776.7 | 788.9 | 824.6 | 873.6 | 887.3 | 973.6 | 1057.4 | 1055.3 |
| 27.5° | 842.0 | 836.2 | 836.2 | 828.9 | 825.7 | 843.1 | 910.0 | 932.6 | 1024.8 | 1101.6 | 1072.1 |
| 30° | 901.6 | 907.9 | 903.1 | 905.8 | 884.6 | 883.1 | 961.5 | 989.4 | 1115.3 | 1169.0 | 1107.9 |
| 32.5° | 995.7 | 987.3 | 995.2 | 988.4 | 960.5 | 932.1 | 1031.6 | 1060.6 | 1224.8 | 1246.4 | 1161.7 |
| 35° | 1074.2 | 1070.6 | 1104.2 | 1103.2 | 1057.9 | 1030.0 | 1105.8 | 1149.1 | 1301.2 | 1339.1 | 1224.8 |
| 37.5° | 1185.9 | 1179.0 | 1217.5 | 1235.9 | 1195.4 | 1153.8 | 1212.2 | 1262.3 | 1372.3 | 1413.4 | 1289.6 |
| 40° | 1300.7 | 1318.0 | 1369.7 | 1400.2 | 1357.0 | 1301.7 | 1342.3 | 1357.5 | 1419.7 | 1461.8 | 1333.8 |
| 42.5° | 1446.0 | 1471.3 | 1524.0 | 1550.3 | 1546.6 | 1486.6 | 1474.4 | 1473.9 | 1453.9 | 1448.1 | 1366.5 |
| 45° | 1585.5 | 1576.1 | 1657.2 | 1714.5 | 1760.9 | 1743.6 | 1601.9 | 1586.1 | 1508.2 | 1468.6 | 1375.0 |
| 47.5° | 1646.7 | 1643.5 | 1698.8 | 1800.9 | 1958.9 | 1980.5 | 1787.2 | 1726.2 | 1599.8 | 1555.0 | 1420.7 |
| 50° | 1567.6 | 1584.0 | 1638.8 | 1752.0 | 1994.2 | 2159.0 | 2014.7 | 1932.6 | 1706.6 | 1660.3 | 1529.2 |
| 52.5° | 1309.6 | 1320.7 | 1372.8 | 1516.6 | 1874.2 | 2264.3 | 2232.8 | 2185.3 | 1903.1 | 1826.2 | 1718.2 |
| 54° | 1076.9 | 1106.3 | 1134.8 | 1279.1 | 1660.3 | 2205.9 | 2352.3 | 2315.9 | 2031.1 | 1964.2 | 1837.2 |
| 55° | 937.9 | 955.2 | 975.8 | 1119.5 | 1512.4 | 2106.9 | 2338.6 | 2341.8 | 2116.9 | 2007.4 | 1917.3 |
| 57.5° | 685.1 | 697.2 | 676.2 | 739.8 | 1038.5 | 1710.9 | 2139.0 | 2224.4 | 2232.8 | 2072.1 | 1966.3 |
| 60° | 523.4 | 528.7 | 505.0 | 515.0 | 645.6 | 1174.3 | 1654.6 | 1757.3 | 2014.2 | 1810.9 | 1665.6 |
| 62.5° | 406.0 | 407.0 | 406.5 | 423.9 | 445.0 | 690.9 | 1034.8 | 1125.8 | 1388.7 | 1286.0 | 1131.1 |
| 65° | 299.1 | 294.3 | 302.8 | 355.5 | 379.7 | 434.5 | 545.1 | 611.4 | 754.6 | 637.1 | 455.5 |
| 67.5° | 193.8 | 195.4 | 203.8 | 264.3 | 325.5 | 333.4 | 335.5 | 330.2 | 330.7 | 182.2 | 114.3 |
| 70° | 116.4 | 119.0 | 116.4 | 149.5 | 232.8 | 239.1 | 218.6 | 213.3 | 166.4 | 43.1 | 42.6 |
| 72.5° | 69.0 | 65.3 | 58.4 | 64.3 | 96.9 | 115.9 | 104.3 | 103.8 | 65.3 | 25.3 | 25.3 |
| 75° | 28.9 | 26.3 | 21.6 | 19.5 | 25.8 | 24.7 | 24.7 | 22.1 | 17.4 | 16.8 | 15.8 |
| 77.5° | 5.8 | 5.8 | 4.2 | 4.7 | 6.3 | 7.4 | 8.9 | 8.9 | 10.5 | 10.5 | 10.0 |
| 80° | 0.0 | 0.5 | 1.6 | 3.2 | 4.7 | 6.8 | 7.9 | 7.9 | 8.9 | 8.9 | 7.4 |
| 82.5° | 0.0 | 0.5 | 1.6 | 3.2 | 4.2 | 6.3 | 7.9 | 7.9 | 8.9 | 9.5 | 7.9 |
| 85° | 0.0 | 0.5 | 1.6 | 2.6 | 4.2 | 5.3 | 5.3 | 4.7 | 3.7 | 3.2 | 2.1 |
| 87.5° | 0.0 | 0.0 | 0.5 | 1.1 | 0.5 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 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° | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 | 1015.3 |
| 2.5° | 1020.0 | 1019.5 | 1006.8 | 986.3 | 981.5 | 964.2 | 962.1 | 951.6 | 957.3 | 937.9 | 935.8 |
| 5° | 1011.6 | 1005.2 | 990.0 | 976.8 | 938.4 | 911.0 | 889.4 | 863.1 | 847.8 | 850.4 | 840.4 |
| 7.5° | 1023.7 | 1007.3 | 980.5 | 934.7 | 887.8 | 839.9 | 814.1 | 760.4 | 740.9 | 712.0 | 707.7 |
| 10° | 1011.1 | 998.9 | 957.3 | 881.5 | 816.8 | 747.7 | 687.2 | 627.7 | 582.4 | 563.0 | 558.7 |
| 12.5° | 1010.0 | 988.9 | 919.5 | 835.2 | 741.4 | 642.4 | 554.5 | 480.2 | 435.5 | 410.2 | 404.4 |
| 15° | 993.6 | 968.4 | 876.7 | 763.5 | 634.0 | 510.8 | 414.9 | 343.3 | 309.1 | 294.3 | 298.6 |
| 17.5° | 995.2 | 957.3 | 834.1 | 687.8 | 528.1 | 374.9 | 283.3 | 246.4 | 237.5 | 241.2 | 241.2 |
| 20° | 993.6 | 932.6 | 782.6 | 600.3 | 404.4 | 260.1 | 208.0 | 194.9 | 200.7 | 212.2 | 209.6 |
| 22.5° | 985.2 | 921.0 | 735.1 | 508.1 | 297.5 | 192.8 | 166.9 | 167.4 | 176.4 | 190.7 | 193.8 |
| 25° | 991.5 | 895.2 | 675.1 | 414.9 | 217.0 | 153.7 | 144.8 | 148.5 | 157.9 | 168.5 | 170.6 |
| 27.5° | 986.8 | 876.7 | 612.4 | 322.3 | 158.5 | 132.2 | 131.6 | 135.8 | 140.1 | 147.9 | 147.9 |
| 30° | 992.1 | 859.9 | 550.9 | 239.6 | 130.6 | 121.1 | 119.0 | 122.2 | 126.4 | 128.0 | 127.4 |
| 32.5° | 1011.6 | 847.3 | 479.7 | 179.0 | 115.3 | 110.6 | 110.6 | 110.6 | 110.1 | 112.2 | 112.7 |
| 35° | 1054.2 | 849.4 | 417.1 | 138.5 | 105.3 | 101.6 | 100.1 | 98.0 | 96.9 | 98.0 | 98.5 |
| 37.5° | 1100.6 | 848.3 | 352.3 | 118.0 | 98.0 | 94.8 | 91.1 | 88.0 | 87.4 | 88.5 | 86.9 |
| 40° | 1121.1 | 858.3 | 292.2 | 105.9 | 91.1 | 87.4 | 81.7 | 79.0 | 79.5 | 80.6 | 79.5 |
| 42.5° | 1149.1 | 861.5 | 253.3 | 96.4 | 84.8 | 79.0 | 75.3 | 72.2 | 71.7 | 73.2 | 72.7 |
| 45° | 1148.5 | 843.6 | 212.2 | 91.1 | 79.0 | 72.7 | 68.0 | 65.3 | 65.3 | 66.4 | 66.9 |
| 47.5° | 1182.2 | 841.0 | 182.2 | 86.4 | 74.8 | 68.5 | 62.7 | 60.6 | 60.0 | 60.0 | 59.0 |
| 50° | 1260.7 | 877.8 | 159.0 | 81.1 | 69.6 | 63.7 | 59.0 | 56.3 | 54.2 | 53.2 | 52.6 |
| 52.5° | 1413.9 | 992.6 | 141.1 | 74.8 | 63.7 | 59.0 | 54.7 | 52.6 | 50.0 | 47.4 | 46.8 |
| 54° | 1562.4 | 1111.1 | 140.1 | 69.6 | 59.0 | 55.8 | 52.1 | 51.0 | 47.9 | 44.2 | 43.1 |
| 55° | 1629.3 | 1180.1 | 143.7 | 65.3 | 55.8 | 53.7 | 50.5 | 49.5 | 46.3 | 42.1 | 41.6 |
| 57.5° | 1684.5 | 1206.9 | 141.6 | 54.2 | 50.5 | 50.0 | 47.4 | 45.8 | 42.1 | 36.3 | 35.3 |
| 60° | 1355.9 | 912.6 | 101.6 | 47.9 | 46.3 | 45.2 | 43.1 | 42.1 | 37.4 | 31.0 | 30.5 |
| 62.5° | 856.7 | 525.0 | 64.8 | 42.1 | 40.5 | 38.9 | 36.3 | 35.3 | 31.0 | 24.7 | 23.2 |
| 65° | 364.9 | 217.5 | 43.7 | 37.4 | 34.7 | 32.1 | 30.0 | 28.4 | 24.7 | 18.4 | 17.9 |
| 67.5° | 94.8 | 77.4 | 36.3 | 32.6 | 28.9 | 25.3 | 23.7 | 21.0 | 16.8 | 12.6 | 12.1 |
| 70° | 42.6 | 38.9 | 30.5 | 27.4 | 23.2 | 19.5 | 17.4 | 14.7 | 11.0 | 8.4 | 7.9 |
| 72.5° | 25.3 | 24.7 | 23.2 | 20.5 | 17.4 | 14.7 | 12.6 | 10.0 | 7.4 | 4.7 | 4.7 |
| 75° | 15.8 | 15.3 | 15.8 | 14.2 | 12.1 | 11.0 | 9.5 | 6.8 | 4.2 | 2.1 | 2.1 |
| 77.5° | 9.5 | 9.5 | 9.5 | 8.9 | 8.4 | 8.4 | 6.8 | 4.2 | 2.1 | 0.5 | 0.5 |
| 80° | 7.4 | 7.4 | 7.9 | 7.4 | 7.4 | 7.4 | 5.8 | 3.2 | 1.1 | 0.0 | 0.0 |
| 82.5° | 7.4 | 7.9 | 8.9 | 8.4 | 7.4 | 6.3 | 5.3 | 3.2 | 1.1 | 0.0 | 0.0 |
| 85° | 2.1 | 1.6 | 2.6 | 3.7 | 5.3 | 4.7 | 3.7 | 2.6 | 1.1 | 0.0 | 0.0 |
| 87.5° | 1.1 | 1.1 | 1.1 | 1.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 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)