

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: P648238

Luminaire Tested: **GALN-SA1B-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4470.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

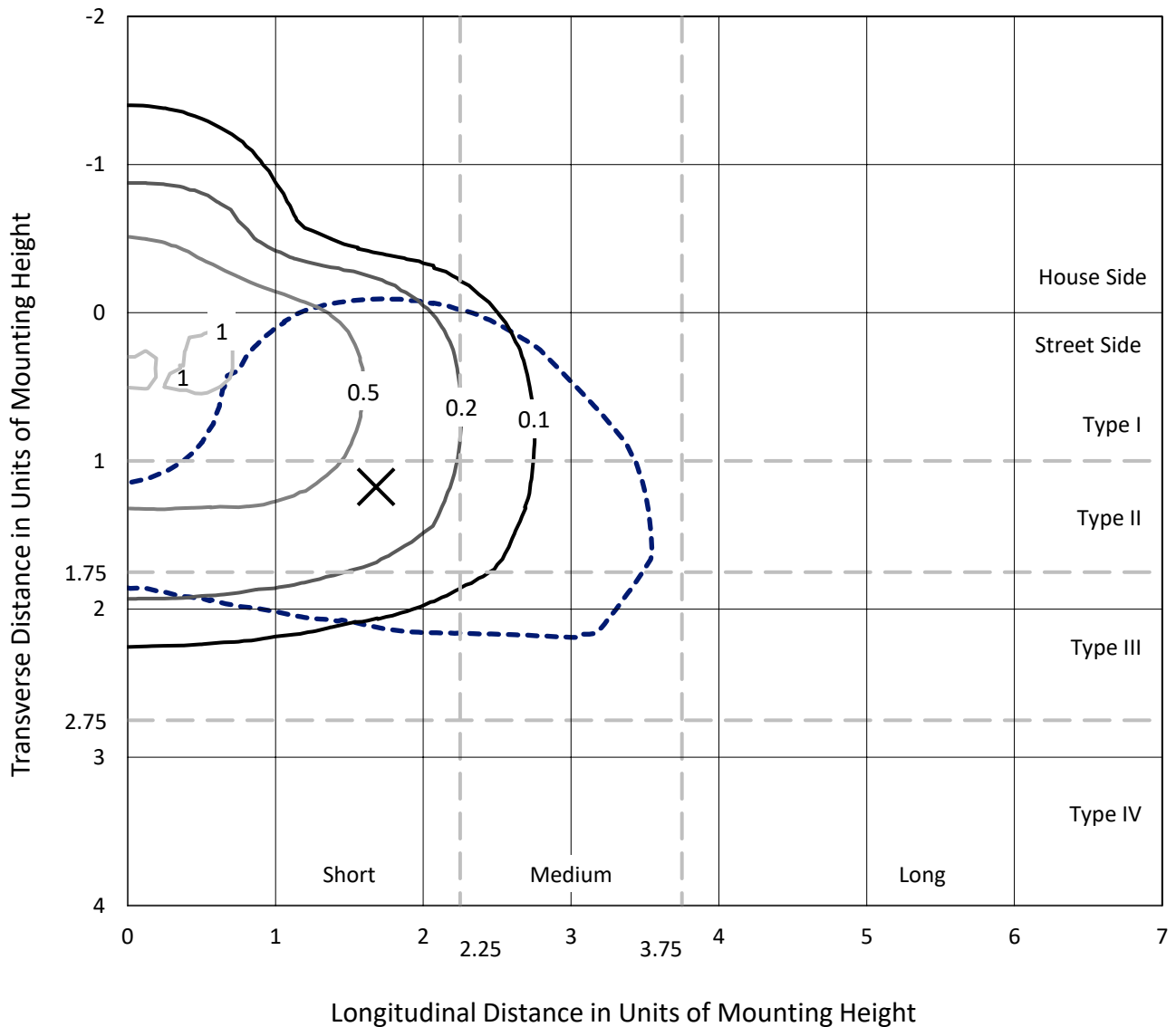
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

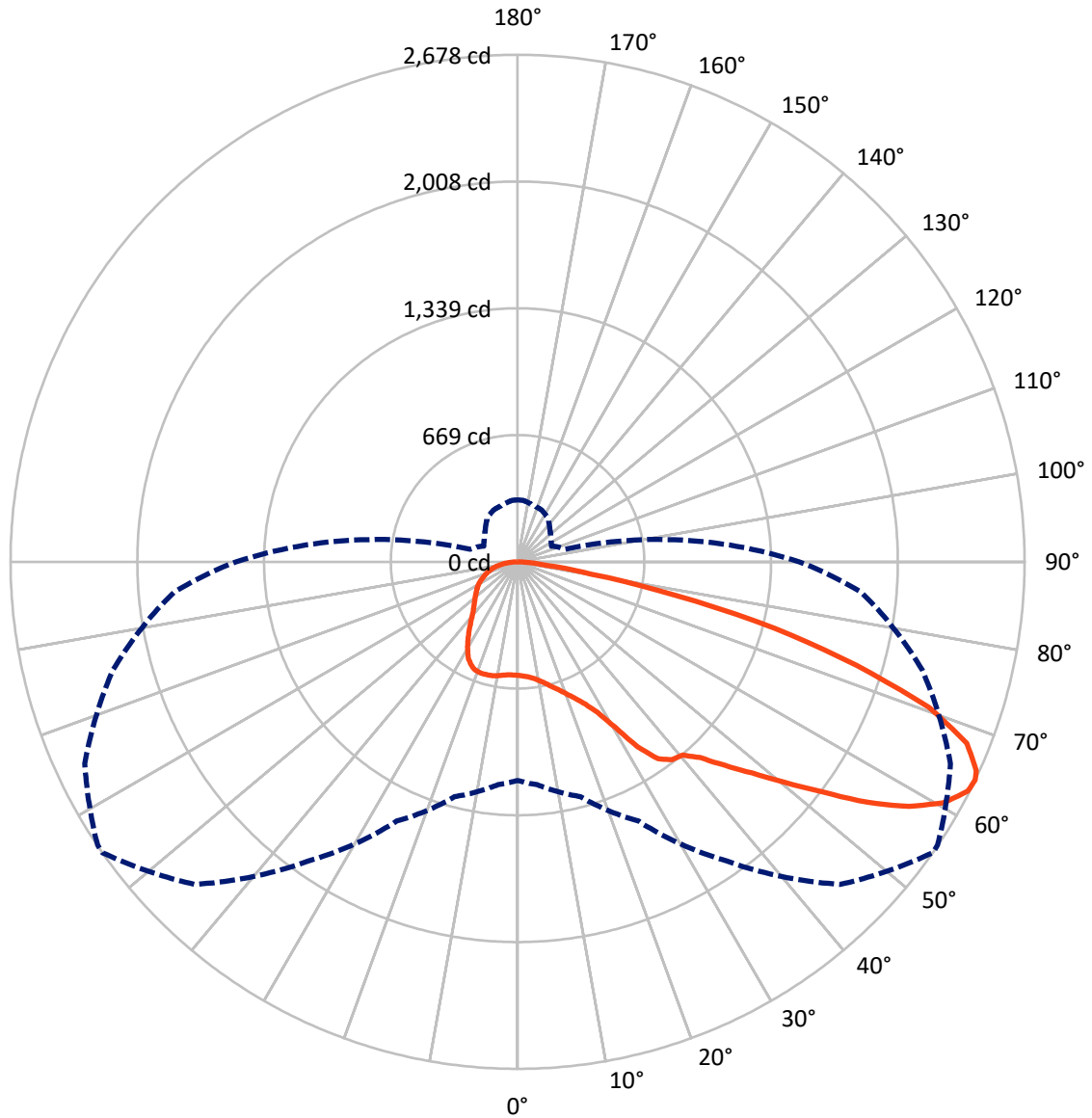
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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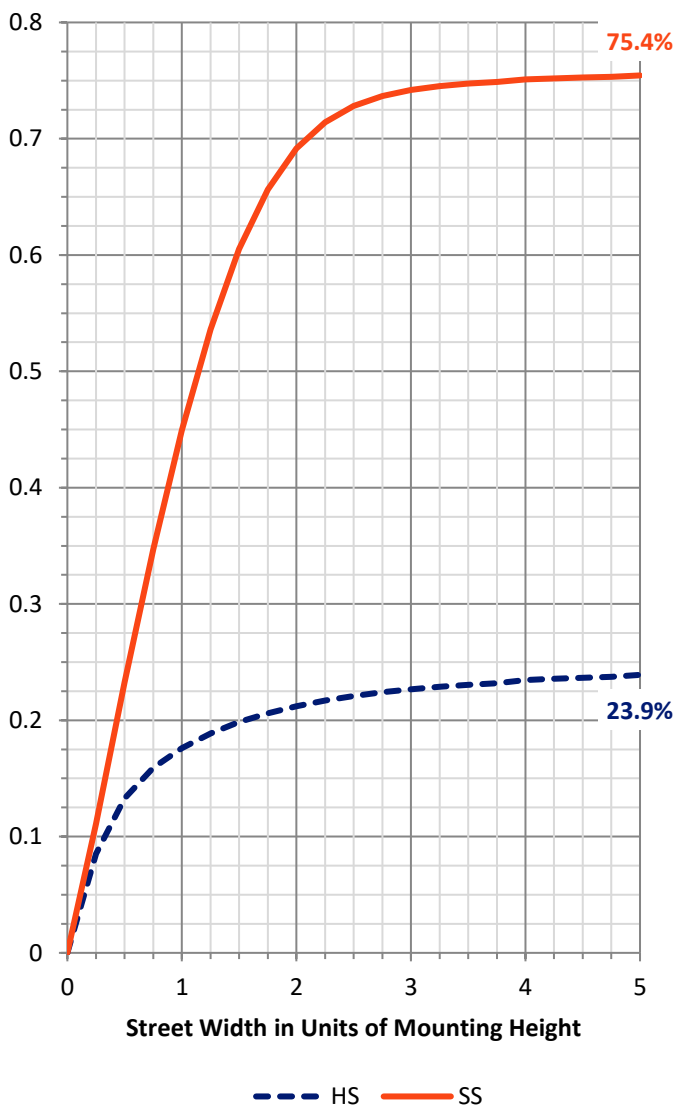
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1086.1 | 0.0 | 1086.1 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 3384.9 | 0.0 | 3384.9 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 4470.9 | 0.0 | 4470.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.4 | 1.3 |
| 10°-20° | 184.1 | 4.1 |
| 20°-30° | 327.8 | 7.3 |
| 30°-40° | 504.3 | 11.3 |
| 40°-50° | 714.9 | 16.0 |
| 50°-60° | 1034.8 | 23.1 |
| 60°-70° | 1070.9 | 24.0 |
| 70°-80° | 501.5 | 11.2 |
| 80°-90° | 74.2 | 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° | 4470.9 | 100.0 |
| 0°-180° | 4470.9 | 100.0 |

Coefficient of Utilization

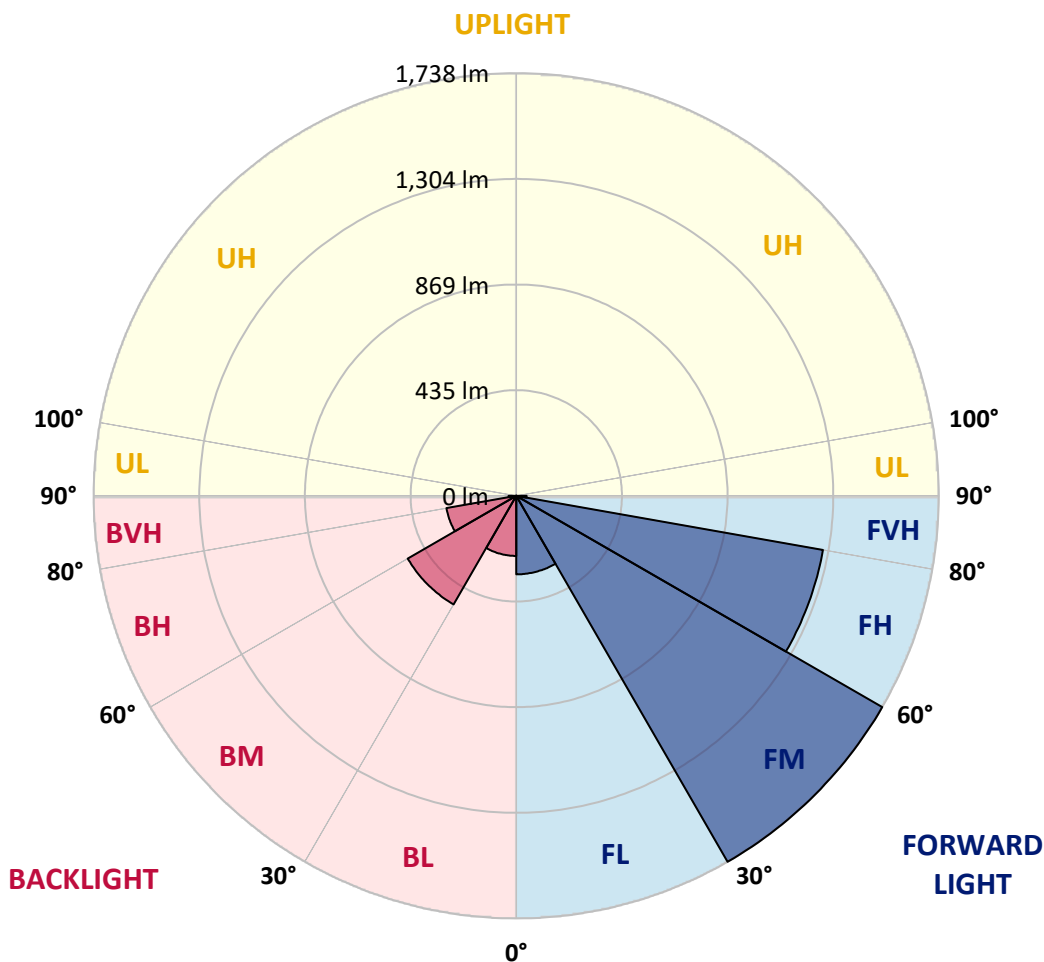


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 322.9 | 7.2 | | | |
| FM (30°-60°) | 1738.4 | 38.9 | | | |
| FH (60°-80°) | 1281.1 | 28.7 | | | G1/1800 |
| FVH (80°-90°) | 42.5 | 1.0 | | | G1/100 |
| BL (0°-30°) | 247.4 | 5.5 | B1/500 | | |
| BM (30°-60°) | 515.6 | 11.5 | B1/1000 | | |
| BH (60°-80°) | 291.4 | 6.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 31.7 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 |
| 2.5° | 606.6 | 606.4 | 607.1 | 606.4 | 606.8 | 605.1 | 604.3 | 604.9 | 604.1 | 602.8 | 600.6 |
| 5° | 614.1 | 613.8 | 614.1 | 613.1 | 613.6 | 612.5 | 610.8 | 611.4 | 610.1 | 607.4 | 604.1 |
| 7.5° | 626.8 | 625.8 | 625.8 | 625.5 | 624.5 | 623.0 | 621.8 | 621.3 | 620.1 | 616.5 | 611.6 |
| 10° | 643.2 | 643.2 | 643.5 | 641.5 | 642.8 | 640.0 | 638.8 | 638.5 | 634.2 | 629.8 | 622.8 |
| 12.5° | 664.9 | 666.2 | 665.4 | 664.4 | 663.9 | 662.9 | 658.7 | 659.7 | 655.0 | 647.2 | 638.8 |
| 15° | 691.9 | 693.8 | 692.6 | 692.1 | 690.8 | 687.1 | 685.4 | 684.6 | 678.4 | 667.1 | 655.9 |
| 17.5° | 727.5 | 725.0 | 724.0 | 722.7 | 717.5 | 714.7 | 711.7 | 711.3 | 705.8 | 692.6 | 675.1 |
| 20° | 758.6 | 762.1 | 760.1 | 758.9 | 753.6 | 748.4 | 746.1 | 745.4 | 740.6 | 726.2 | 698.3 |
| 22.5° | 795.8 | 796.5 | 797.3 | 794.3 | 791.8 | 787.8 | 783.8 | 782.5 | 780.8 | 765.9 | 731.7 |
| 25° | 835.4 | 838.4 | 835.9 | 832.9 | 829.9 | 829.7 | 833.3 | 832.9 | 832.2 | 817.7 | 776.0 |
| 27.5° | 899.9 | 902.6 | 903.4 | 900.1 | 888.7 | 889.7 | 898.2 | 900.9 | 912.4 | 888.5 | 833.1 |
| 30° | 936.3 | 939.1 | 945.3 | 957.5 | 975.7 | 991.7 | 1012.1 | 1018.3 | 1029.3 | 984.2 | 900.9 |
| 32.5° | 958.7 | 959.7 | 970.9 | 993.6 | 1048.2 | 1107.8 | 1163.3 | 1165.6 | 1172.5 | 1109.3 | 962.9 |
| 35° | 994.1 | 994.9 | 1003.8 | 1028.8 | 1092.8 | 1192.0 | 1278.0 | 1280.8 | 1275.0 | 1148.1 | 991.9 |
| 37.5° | 1037.7 | 1039.7 | 1045.5 | 1066.1 | 1142.6 | 1262.5 | 1325.6 | 1323.6 | 1272.8 | 1179.0 | 1043.0 |
| 40° | 1101.3 | 1101.3 | 1094.6 | 1122.5 | 1195.2 | 1302.9 | 1342.3 | 1338.8 | 1325.3 | 1268.5 | 1120.7 |
| 42.5° | 1157.4 | 1156.3 | 1172.3 | 1191.3 | 1261.0 | 1365.2 | 1412.3 | 1418.0 | 1440.3 | 1380.9 | 1209.2 |
| 45° | 1230.4 | 1234.9 | 1243.9 | 1278.2 | 1372.9 | 1471.6 | 1532.4 | 1537.9 | 1569.3 | 1513.2 | 1312.6 |
| 47.5° | 1304.2 | 1305.7 | 1333.8 | 1379.6 | 1511.5 | 1616.0 | 1665.8 | 1674.8 | 1703.4 | 1668.0 | 1424.0 |
| 50° | 1356.5 | 1370.7 | 1415.8 | 1488.1 | 1654.3 | 1791.9 | 1830.7 | 1841.5 | 1892.0 | 1836.4 | 1553.9 |
| 52.5° | 1411.8 | 1425.8 | 1480.8 | 1591.0 | 1818.3 | 1971.8 | 2019.7 | 2026.9 | 2079.5 | 2006.9 | 1686.7 |
| 55° | 1459.2 | 1472.1 | 1534.7 | 1682.2 | 1948.9 | 2155.4 | 2242.2 | 2233.7 | 2258.9 | 2138.3 | 1789.2 |
| 57.5° | 1466.9 | 1477.4 | 1556.1 | 1740.5 | 2047.1 | 2313.0 | 2437.3 | 2442.3 | 2413.1 | 2236.5 | 1873.6 |
| 60° | 1407.1 | 1428.5 | 1518.9 | 1734.3 | 2091.2 | 2422.6 | 2582.9 | 2586.4 | 2503.6 | 2286.8 | 1907.2 |
| 62.5° | 1301.2 | 1298.9 | 1408.3 | 1634.1 | 2029.4 | 2447.6 | 2668.6 | 2664.9 | 2539.0 | 2262.6 | 1874.6 |
| 64° | 1154.8 | 1181.8 | 1284.0 | 1511.0 | 1929.7 | 2409.2 | 2677.5 | 2675.6 | 2522.0 | 2212.3 | 1819.1 |
| 65° | 1065.7 | 1064.2 | 1165.1 | 1410.3 | 1830.5 | 2351.3 | 2661.7 | 2658.9 | 2486.7 | 2167.2 | 1775.9 |
| 67.5° | 769.3 | 772.8 | 872.5 | 1088.3 | 1488.1 | 2125.3 | 2557.7 | 2547.5 | 2347.1 | 2017.6 | 1612.0 |
| 70° | 466.0 | 468.0 | 546.3 | 722.0 | 1068.2 | 1718.1 | 2305.5 | 2306.0 | 2133.5 | 1794.3 | 1372.0 |
| 72.5° | 245.5 | 250.7 | 282.1 | 410.0 | 648.7 | 1205.4 | 1870.4 | 1914.7 | 1831.8 | 1531.5 | 1083.8 |
| 75° | 136.6 | 137.3 | 159.5 | 202.1 | 331.0 | 674.6 | 1405.8 | 1418.6 | 1450.2 | 1232.6 | 801.5 |
| 77.5° | 104.1 | 105.7 | 112.7 | 130.6 | 180.2 | 312.7 | 850.8 | 914.6 | 1022.0 | 869.1 | 457.4 |
| 80° | 84.5 | 86.0 | 91.9 | 102.7 | 119.9 | 148.3 | 395.3 | 429.6 | 547.0 | 385.8 | 178.4 |
| 82.5° | 65.8 | 64.8 | 72.5 | 79.5 | 87.2 | 87.7 | 162.2 | 179.5 | 222.8 | 166.0 | 77.3 |
| 85° | 48.9 | 48.9 | 55.0 | 53.6 | 56.3 | 51.4 | 71.5 | 79.0 | 89.2 | 70.5 | 35.9 |
| 87.5° | 19.4 | 21.5 | 36.2 | 32.4 | 25.1 | 20.2 | 26.4 | 27.9 | 30.9 | 27.6 | 15.0 |
| 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° | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 | 599.9 |
| 2.5° | 600.9 | 601.6 | 599.9 | 598.6 | 598.1 | 597.4 | 596.6 | 596.9 | 597.9 | 598.8 | 598.6 |
| 5° | 603.8 | 604.1 | 601.1 | 599.6 | 598.6 | 597.6 | 597.6 | 598.4 | 600.3 | 601.9 | 601.9 |
| 7.5° | 611.4 | 611.4 | 607.1 | 604.3 | 602.8 | 601.1 | 600.6 | 600.9 | 602.4 | 604.3 | 604.6 |
| 10° | 623.0 | 622.0 | 616.5 | 612.3 | 609.6 | 605.3 | 601.6 | 599.6 | 600.3 | 601.6 | 601.6 |
| 12.5° | 637.3 | 634.5 | 627.5 | 621.8 | 615.0 | 607.1 | 599.4 | 595.4 | 595.2 | 596.4 | 595.9 |
| 15° | 652.5 | 649.4 | 639.7 | 629.3 | 617.6 | 605.8 | 596.6 | 590.9 | 586.4 | 585.1 | 587.9 |
| 17.5° | 670.2 | 663.9 | 650.4 | 636.0 | 618.6 | 603.4 | 588.9 | 577.1 | 569.2 | 567.0 | 567.8 |
| 20° | 691.5 | 683.3 | 665.2 | 642.5 | 617.8 | 594.4 | 572.0 | 556.2 | 543.3 | 539.3 | 539.8 |
| 22.5° | 721.2 | 707.0 | 680.3 | 645.7 | 611.6 | 577.5 | 546.3 | 525.9 | 510.1 | 503.9 | 507.6 |
| 25° | 754.9 | 739.4 | 694.8 | 645.0 | 595.4 | 550.3 | 515.8 | 489.2 | 475.0 | 465.8 | 467.8 |
| 27.5° | 801.2 | 773.8 | 710.3 | 638.2 | 572.2 | 517.1 | 477.2 | 452.1 | 439.1 | 434.4 | 436.6 |
| 30° | 860.5 | 818.4 | 726.9 | 620.1 | 535.6 | 475.3 | 438.4 | 422.0 | 414.2 | 408.2 | 410.2 |
| 32.5° | 903.4 | 849.8 | 730.7 | 589.4 | 496.0 | 437.1 | 411.9 | 399.7 | 391.3 | 385.5 | 386.8 |
| 35° | 934.0 | 876.5 | 729.0 | 551.8 | 454.6 | 405.8 | 391.0 | 381.1 | 367.4 | 354.9 | 352.7 |
| 37.5° | 975.1 | 909.9 | 716.2 | 510.7 | 413.7 | 384.5 | 374.0 | 355.6 | 335.9 | 319.2 | 318.5 |
| 40° | 1038.3 | 949.0 | 689.1 | 462.3 | 378.8 | 368.9 | 356.1 | 332.2 | 311.0 | 297.5 | 296.6 |
| 42.5° | 1103.2 | 985.2 | 652.2 | 411.5 | 350.2 | 352.4 | 336.9 | 313.3 | 300.3 | 291.6 | 290.6 |
| 45° | 1182.8 | 1024.2 | 612.3 | 367.4 | 328.9 | 336.9 | 320.2 | 306.5 | 298.8 | 293.1 | 291.6 |
| 47.5° | 1268.8 | 1064.4 | 567.4 | 327.7 | 311.0 | 322.8 | 313.3 | 307.0 | 302.8 | 298.8 | 297.1 |
| 50° | 1361.5 | 1109.3 | 525.3 | 295.8 | 294.8 | 308.0 | 312.5 | 310.3 | 307.8 | 306.5 | 305.1 |
| 52.5° | 1463.1 | 1155.1 | 489.9 | 273.4 | 280.6 | 297.5 | 312.7 | 314.5 | 314.5 | 313.7 | 312.7 |
| 55° | 1531.9 | 1187.0 | 454.1 | 255.2 | 266.1 | 289.1 | 312.3 | 319.0 | 321.5 | 320.5 | 319.5 |
| 57.5° | 1582.8 | 1204.5 | 409.0 | 239.5 | 253.9 | 280.9 | 309.5 | 319.5 | 322.0 | 323.2 | 322.8 |
| 60° | 1593.2 | 1188.3 | 349.9 | 223.1 | 240.8 | 268.9 | 299.6 | 312.0 | 315.2 | 323.0 | 323.8 |
| 62.5° | 1546.1 | 1138.4 | 291.1 | 206.9 | 224.6 | 250.7 | 286.1 | 303.6 | 310.0 | 322.0 | 323.2 |
| 64° | 1488.3 | 1082.6 | 258.5 | 196.6 | 214.1 | 240.5 | 279.4 | 301.3 | 309.8 | 325.7 | 326.7 |
| 65° | 1446.0 | 1041.9 | 238.0 | 190.2 | 207.3 | 233.8 | 275.6 | 302.1 | 312.0 | 331.4 | 332.9 |
| 67.5° | 1289.9 | 902.2 | 196.8 | 174.9 | 191.4 | 222.3 | 276.4 | 308.3 | 311.6 | 333.7 | 333.5 |
| 70° | 1067.4 | 718.2 | 165.0 | 161.0 | 175.9 | 213.1 | 273.4 | 298.3 | 298.6 | 313.3 | 309.8 |
| 72.5° | 799.2 | 530.8 | 143.1 | 146.6 | 158.7 | 191.1 | 258.2 | 284.9 | 280.6 | 282.6 | 279.1 |
| 75° | 549.0 | 351.2 | 123.1 | 131.1 | 140.8 | 169.0 | 236.8 | 258.7 | 252.0 | 249.5 | 247.0 |
| 77.5° | 293.1 | 194.1 | 102.4 | 115.9 | 122.4 | 146.0 | 206.6 | 227.8 | 220.8 | 211.1 | 207.8 |
| 80° | 118.6 | 91.5 | 82.5 | 95.9 | 99.7 | 117.6 | 171.9 | 185.2 | 179.9 | 163.0 | 157.5 |
| 82.5° | 59.6 | 54.8 | 64.8 | 75.5 | 75.8 | 84.0 | 127.9 | 140.3 | 128.6 | 107.9 | 103.2 |
| 85° | 31.2 | 32.2 | 44.6 | 53.1 | 46.8 | 45.3 | 76.7 | 85.0 | 78.0 | 67.8 | 61.1 |
| 87.5° | 11.2 | 13.0 | 23.4 | 23.2 | 16.4 | 8.7 | 16.9 | 8.2 | 4.5 | 2.7 | 3.5 |
| 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)