

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: P526450

Luminaire Tested: **GALN-SA1B-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3608 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

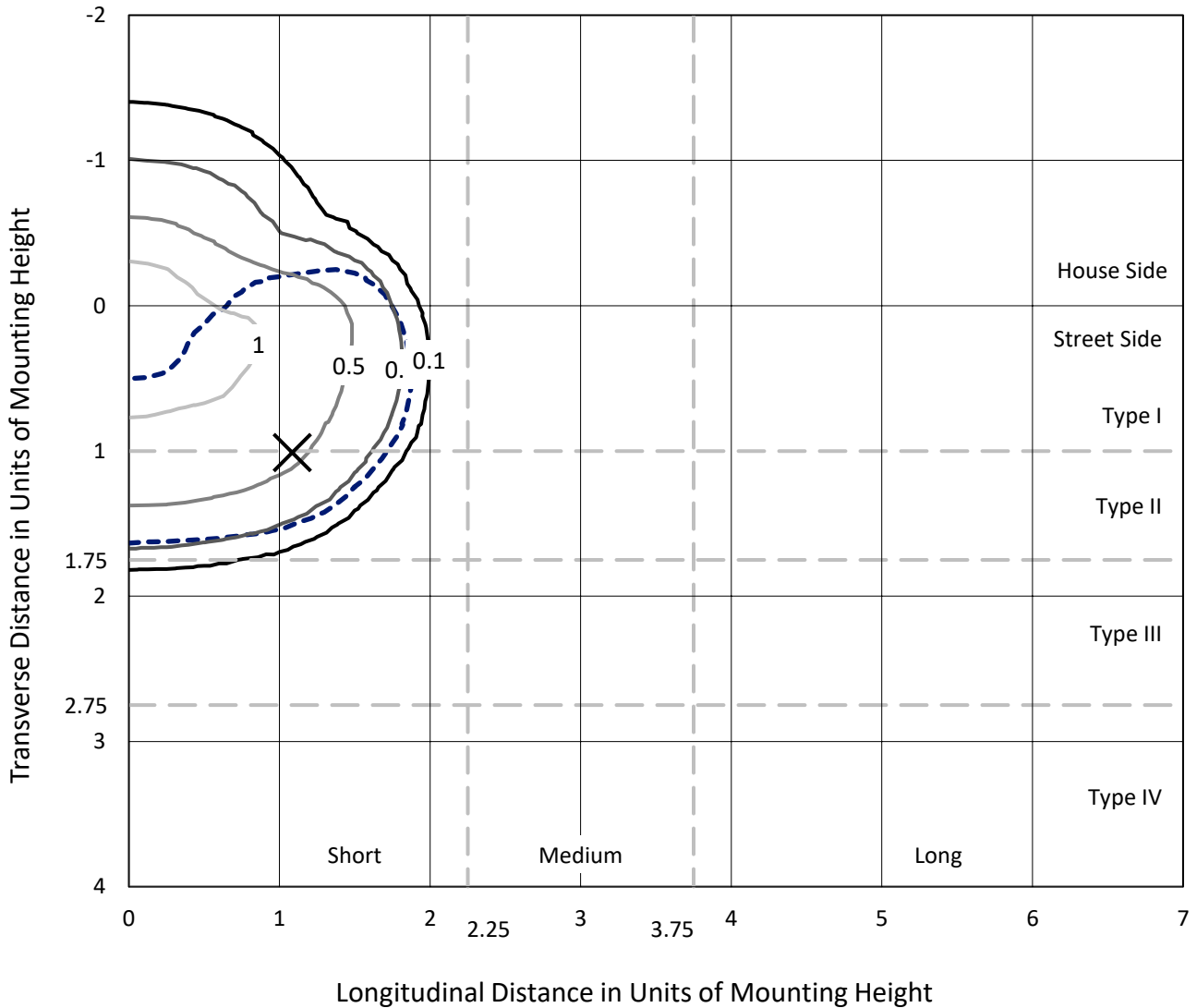
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

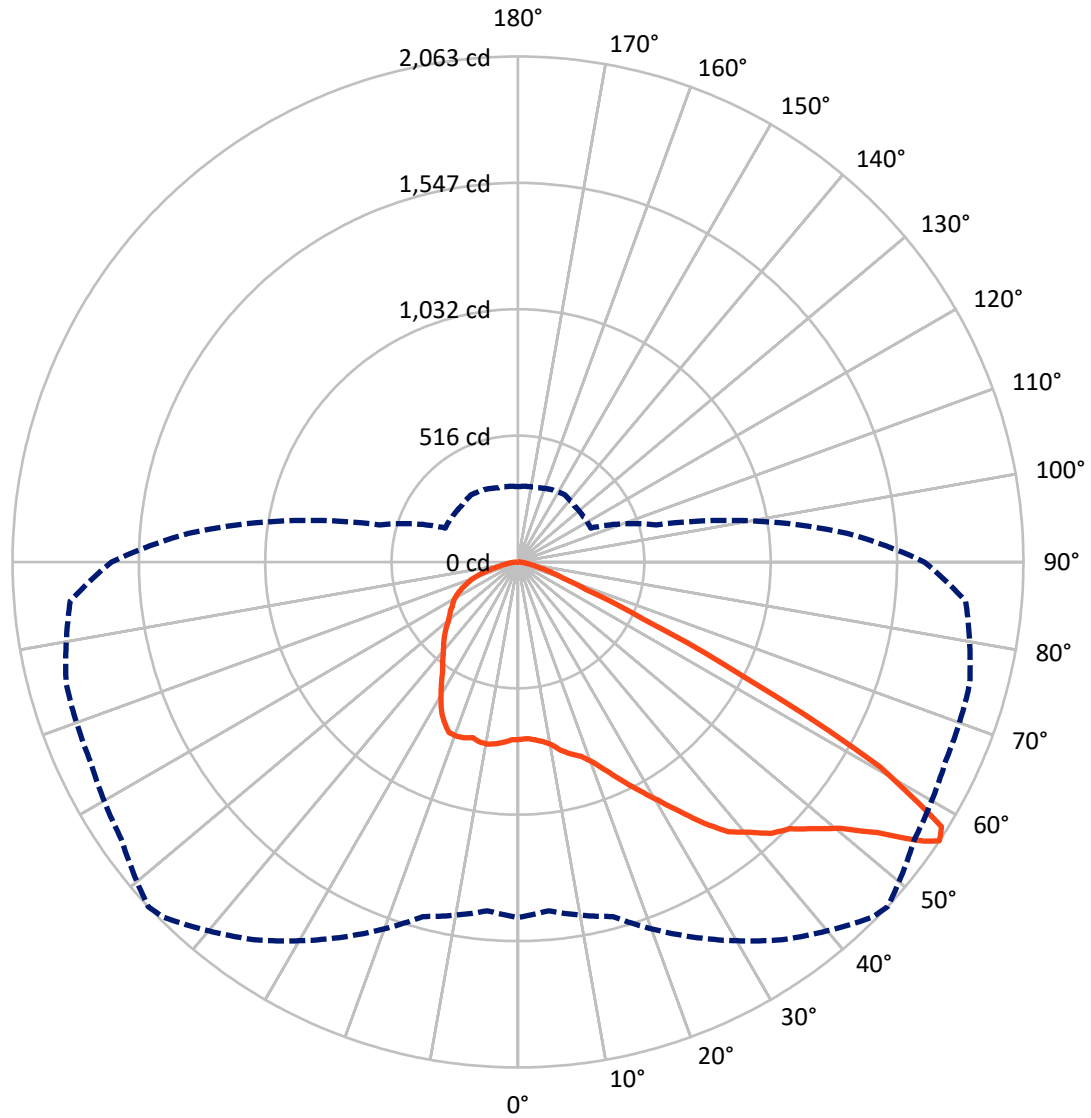
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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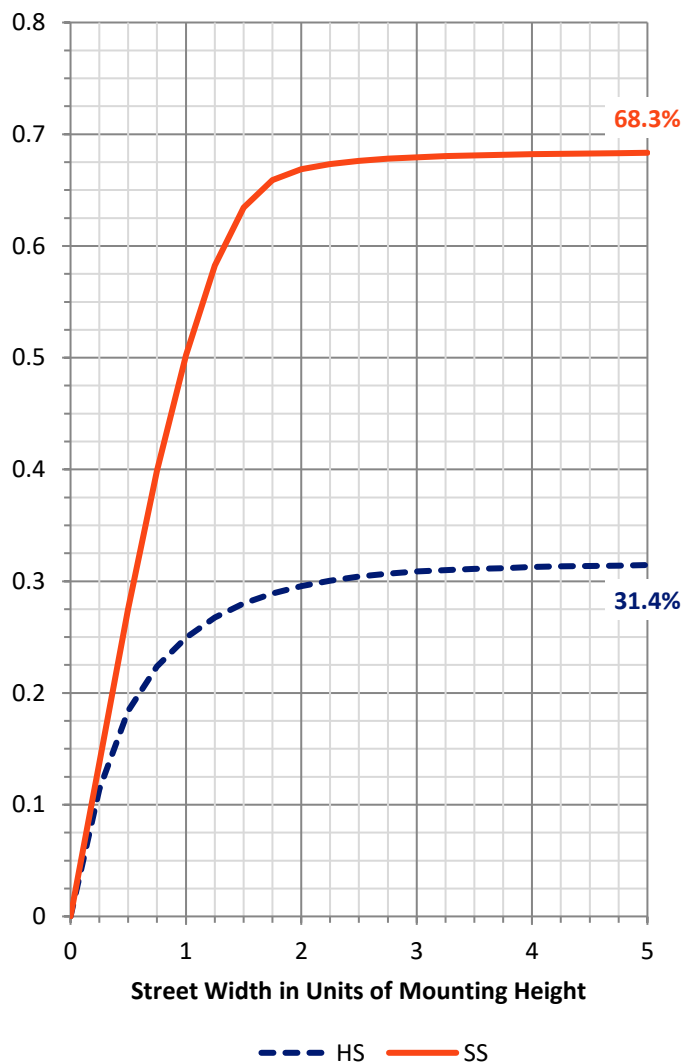
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1143.3 | 0.0 | 1143.3 |
| | % Fixture | 31.7 | 0.0 | 31.7 |
| Street Side | Lumens | 2464.7 | 0.0 | 2464.7 |
| | % Fixture | 68.3 | 0.0 | 68.3 |
| Total | Lumens | 3608.0 | 0.0 | 3608.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.6 | 2.0 |
| 10°-20° | 222.8 | 6.2 |
| 20°-30° | 393.8 | 10.9 |
| 30°-40° | 591.4 | 16.4 |
| 40°-50° | 811.7 | 22.5 |
| 50°-60° | 967.0 | 26.8 |
| 60°-70° | 413.8 | 11.5 |
| 70°-80° | 117.1 | 3.2 |
| 80°-90° | 19.7 | 0.5 |
| 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° | 3608.0 | 100.0 |
| 0°-180° | 3608.0 | 100.0 |

Coefficient of Utilization

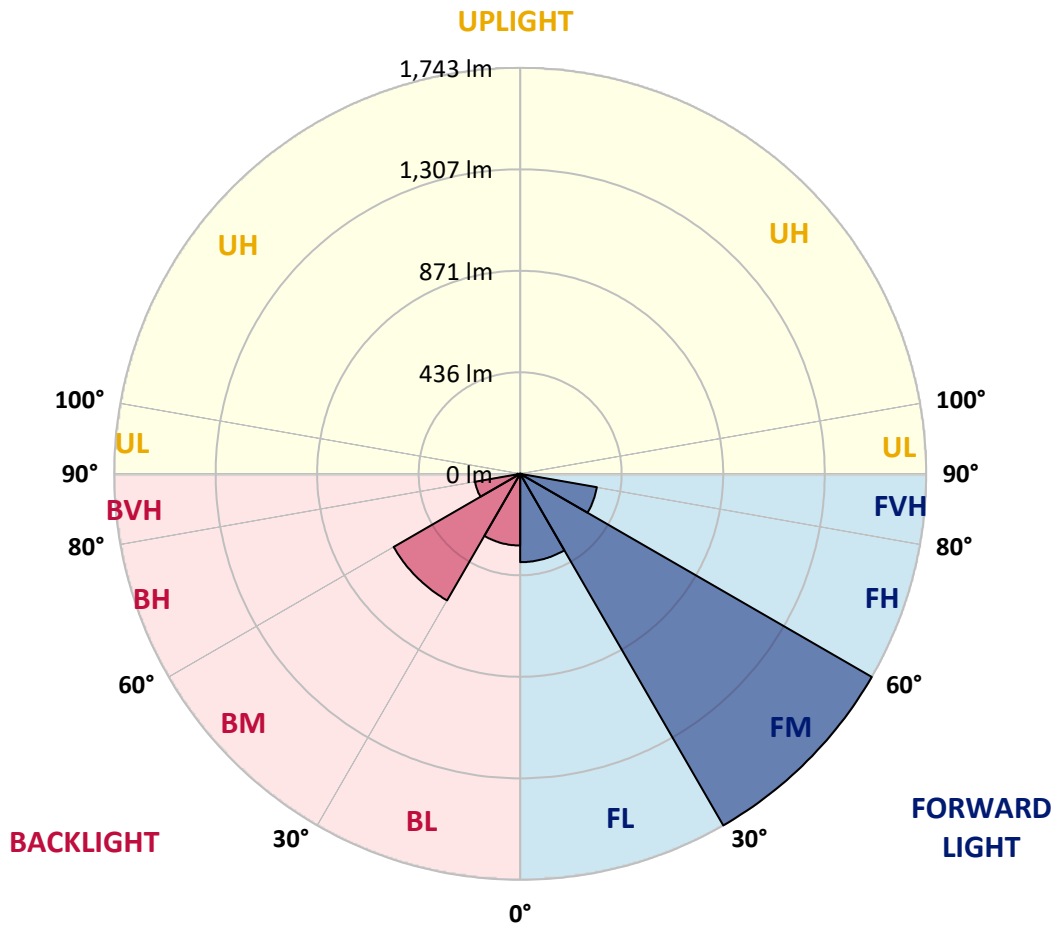


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 379.3 | 10.5 | | | |
| FM (30°-60°) | 1742.7 | 48.3 | | | |
| FH (60°-80°) | 334.2 | 9.3 | | | G0/660 |
| FVH (80°-90°) | 8.4 | 0.2 | | | G0/10 |
| BL (0°-30°) | 307.8 | 8.5 | B1/500 | | |
| BM (30°-60°) | 627.4 | 17.4 | B1/1000 | | |
| BH (60°-80°) | 196.7 | 5.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 |
| 2.5° | 722.0 | 720.6 | 719.7 | 727.0 | 724.3 | 724.7 | 722.0 | 724.7 | 726.6 | 722.4 | 728.4 |
| 5° | 720.6 | 724.7 | 721.1 | 723.4 | 729.3 | 727.5 | 729.3 | 734.9 | 733.5 | 732.1 | 730.3 |
| 7.5° | 733.5 | 733.9 | 736.7 | 737.6 | 739.5 | 737.6 | 740.4 | 745.4 | 744.1 | 736.2 | 737.2 |
| 10° | 751.9 | 752.8 | 753.3 | 758.3 | 761.5 | 762.0 | 758.8 | 754.2 | 753.7 | 764.3 | 756.9 |
| 12.5° | 773.1 | 770.8 | 776.3 | 778.1 | 781.8 | 785.9 | 790.1 | 780.4 | 786.4 | 786.9 | 778.1 |
| 15° | 803.9 | 806.2 | 799.7 | 799.7 | 801.1 | 801.6 | 813.1 | 808.5 | 807.6 | 802.5 | 806.2 |
| 17.5° | 849.9 | 834.3 | 833.8 | 827.4 | 826.4 | 830.1 | 834.3 | 837.9 | 850.4 | 840.2 | 820.4 |
| 20° | 883.5 | 887.2 | 873.8 | 866.0 | 867.4 | 875.7 | 871.5 | 888.1 | 896.8 | 880.3 | 860.9 |
| 22.5° | 942.8 | 930.4 | 933.6 | 916.2 | 917.5 | 926.3 | 925.8 | 942.8 | 947.9 | 921.7 | 893.6 |
| 25° | 982.9 | 979.7 | 982.4 | 968.6 | 970.5 | 977.4 | 988.4 | 1016.5 | 1008.2 | 979.2 | 914.3 |
| 27.5° | 1041.3 | 1034.9 | 1032.6 | 1027.5 | 1025.7 | 1044.1 | 1057.0 | 1086.9 | 1080.9 | 1038.6 | 951.1 |
| 30° | 1101.1 | 1097.0 | 1099.3 | 1078.6 | 1086.0 | 1125.1 | 1128.8 | 1169.7 | 1166.9 | 1092.4 | 992.1 |
| 32.5° | 1142.6 | 1144.9 | 1149.0 | 1137.5 | 1170.2 | 1201.5 | 1213.9 | 1260.4 | 1262.7 | 1184.9 | 1071.2 |
| 35° | 1209.3 | 1201.5 | 1203.8 | 1217.1 | 1232.3 | 1289.3 | 1309.6 | 1340.4 | 1359.7 | 1282.0 | 1147.2 |
| 37.5° | 1251.2 | 1259.4 | 1249.8 | 1270.9 | 1310.5 | 1379.1 | 1397.5 | 1429.2 | 1449.5 | 1377.7 | 1250.7 |
| 40° | 1316.5 | 1303.1 | 1310.0 | 1325.2 | 1365.7 | 1455.0 | 1449.9 | 1482.6 | 1489.0 | 1459.1 | 1347.3 |
| 42.5° | 1386.9 | 1380.5 | 1370.8 | 1405.3 | 1439.4 | 1504.2 | 1514.4 | 1499.2 | 1531.8 | 1538.7 | 1485.4 |
| 45° | 1471.1 | 1478.9 | 1480.3 | 1481.2 | 1511.1 | 1567.7 | 1553.9 | 1540.6 | 1578.3 | 1628.5 | 1571.0 |
| 47.5° | 1549.3 | 1524.5 | 1542.4 | 1567.3 | 1609.6 | 1610.1 | 1626.2 | 1594.4 | 1634.5 | 1679.1 | 1648.3 |
| 50° | 1575.6 | 1563.6 | 1587.5 | 1634.5 | 1699.8 | 1706.7 | 1708.5 | 1663.4 | 1684.2 | 1719.6 | 1674.9 |
| 52.5° | 1565.4 | 1561.3 | 1622.5 | 1695.2 | 1790.9 | 1825.9 | 1835.1 | 1779.4 | 1790.9 | 1774.8 | 1733.8 |
| 55° | 1517.1 | 1529.5 | 1591.2 | 1739.4 | 1886.2 | 1994.3 | 2011.8 | 1941.4 | 1868.2 | 1880.6 | 1835.5 |
| 56° | 1450.9 | 1429.2 | 1498.3 | 1689.2 | 1882.0 | 2049.1 | 2063.3 | 1975.4 | 1925.7 | 1909.6 | 1834.6 |
| 57.5° | 1230.9 | 1202.8 | 1293.5 | 1519.9 | 1777.6 | 2028.3 | 2038.9 | 1989.7 | 1916.1 | 1883.4 | 1700.7 |
| 60° | 720.6 | 734.4 | 849.4 | 1048.2 | 1371.2 | 1663.0 | 1698.4 | 1734.3 | 1685.1 | 1538.7 | 1265.9 |
| 62.5° | 347.9 | 339.1 | 421.5 | 601.0 | 835.6 | 1061.6 | 1051.0 | 1151.8 | 1207.0 | 1093.3 | 799.3 |
| 65° | 182.2 | 181.3 | 230.1 | 328.1 | 459.2 | 557.7 | 567.4 | 621.7 | 697.6 | 563.2 | 405.9 |
| 67.5° | 133.9 | 137.6 | 162.0 | 230.5 | 295.4 | 301.4 | 300.0 | 327.2 | 334.5 | 283.0 | 249.4 |
| 70° | 104.9 | 106.8 | 124.7 | 175.3 | 220.0 | 196.9 | 192.8 | 196.0 | 217.7 | 226.9 | 215.8 |
| 72.5° | 75.9 | 77.8 | 93.0 | 118.3 | 137.6 | 134.4 | 137.1 | 155.1 | 181.8 | 191.4 | 179.9 |
| 75° | 50.6 | 52.0 | 60.3 | 72.2 | 81.4 | 87.9 | 93.0 | 113.7 | 138.5 | 144.0 | 138.5 |
| 77.5° | 35.0 | 36.4 | 41.9 | 51.1 | 52.0 | 56.1 | 58.0 | 67.6 | 82.8 | 89.7 | 86.0 |
| 80° | 19.8 | 19.8 | 22.5 | 26.2 | 32.2 | 37.7 | 38.7 | 46.5 | 53.4 | 58.0 | 58.9 |
| 82.5° | 9.2 | 9.7 | 12.0 | 16.1 | 21.2 | 26.2 | 27.1 | 32.2 | 37.3 | 41.9 | 43.3 |
| 85° | 4.6 | 5.1 | 6.9 | 9.7 | 12.9 | 15.6 | 15.2 | 15.6 | 16.6 | 15.6 | 16.1 |
| 87.5° | 1.4 | 1.4 | 1.8 | 2.3 | 1.8 | 2.3 | 2.3 | 2.8 | 3.2 | 3.7 | 4.1 |
| 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° | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 | 724.7 |
| 2.5° | 728.9 | 730.3 | 721.1 | 729.8 | 726.6 | 726.1 | 732.6 | 731.6 | 733.9 | 733.0 | 727.5 |
| 5° | 729.3 | 726.1 | 735.8 | 727.0 | 731.2 | 739.9 | 733.9 | 747.7 | 740.8 | 745.4 | 735.3 |
| 7.5° | 743.6 | 744.5 | 742.7 | 746.4 | 744.5 | 748.7 | 745.4 | 748.7 | 743.1 | 743.6 | 752.8 |
| 10° | 756.0 | 753.3 | 756.5 | 751.9 | 755.1 | 753.7 | 746.4 | 744.1 | 745.9 | 743.6 | 749.6 |
| 12.5° | 779.0 | 774.0 | 771.7 | 766.2 | 762.5 | 748.7 | 737.2 | 730.7 | 739.5 | 740.8 | 738.1 |
| 15° | 802.5 | 803.0 | 792.4 | 780.0 | 756.9 | 736.2 | 739.0 | 741.3 | 741.3 | 745.0 | 738.1 |
| 17.5° | 817.2 | 817.2 | 807.6 | 782.7 | 759.2 | 747.3 | 744.5 | 737.2 | 730.7 | 729.8 | 729.3 |
| 20° | 843.0 | 835.2 | 813.1 | 782.3 | 758.3 | 752.8 | 732.1 | 714.6 | 701.3 | 696.7 | 696.2 |
| 22.5° | 872.4 | 852.7 | 821.8 | 783.2 | 756.9 | 749.1 | 710.5 | 684.2 | 660.3 | 650.2 | 651.6 |
| 25° | 899.6 | 867.8 | 826.9 | 779.0 | 751.9 | 714.2 | 670.9 | 634.5 | 609.7 | 601.4 | 597.3 |
| 27.5° | 918.5 | 883.9 | 826.9 | 782.7 | 733.0 | 675.0 | 630.9 | 584.4 | 562.8 | 557.2 | 558.2 |
| 30° | 943.8 | 904.2 | 841.2 | 774.9 | 695.3 | 624.4 | 571.5 | 541.1 | 528.3 | 523.7 | 526.9 |
| 32.5° | 1003.1 | 957.1 | 860.9 | 756.0 | 650.7 | 573.8 | 531.0 | 514.0 | 495.1 | 485.9 | 482.7 |
| 35° | 1067.5 | 1007.3 | 880.3 | 724.3 | 600.5 | 527.8 | 501.1 | 485.5 | 462.9 | 452.8 | 454.6 |
| 37.5° | 1158.7 | 1071.7 | 881.6 | 671.8 | 546.2 | 502.0 | 477.6 | 453.2 | 434.8 | 419.2 | 414.6 |
| 40° | 1281.5 | 1159.6 | 878.4 | 616.6 | 502.5 | 471.7 | 453.7 | 423.3 | 402.6 | 391.6 | 393.9 |
| 42.5° | 1389.7 | 1262.7 | 865.1 | 554.0 | 462.9 | 450.9 | 430.7 | 400.8 | 380.5 | 369.0 | 368.1 |
| 45° | 1480.8 | 1338.6 | 839.8 | 500.6 | 429.8 | 427.9 | 404.5 | 381.5 | 365.4 | 354.8 | 359.4 |
| 47.5° | 1565.0 | 1399.8 | 801.6 | 447.3 | 399.4 | 403.1 | 380.5 | 366.3 | 356.2 | 346.5 | 346.0 |
| 50° | 1595.3 | 1398.9 | 768.0 | 403.1 | 375.0 | 373.2 | 372.3 | 357.1 | 346.5 | 338.2 | 341.9 |
| 52.5° | 1646.0 | 1414.5 | 731.6 | 372.7 | 352.9 | 353.4 | 356.6 | 345.6 | 333.6 | 328.5 | 333.1 |
| 55° | 1718.7 | 1416.8 | 651.6 | 337.3 | 334.5 | 337.8 | 337.8 | 330.4 | 320.3 | 316.1 | 313.8 |
| 56° | 1659.3 | 1348.2 | 584.4 | 328.1 | 325.3 | 325.3 | 334.1 | 325.8 | 313.4 | 310.1 | 307.4 |
| 57.5° | 1530.5 | 1181.2 | 489.1 | 317.0 | 312.9 | 319.3 | 323.9 | 315.2 | 303.7 | 299.1 | 301.9 |
| 60° | 1055.6 | 799.3 | 367.7 | 293.1 | 293.1 | 303.7 | 307.4 | 294.5 | 289.4 | 289.0 | 285.3 |
| 62.5° | 616.1 | 465.7 | 287.6 | 271.5 | 272.4 | 281.2 | 283.9 | 276.6 | 270.1 | 277.9 | 281.6 |
| 65° | 326.7 | 277.9 | 246.6 | 248.5 | 248.9 | 255.8 | 267.8 | 267.3 | 266.9 | 269.2 | 269.6 |
| 67.5° | 236.5 | 231.0 | 224.1 | 222.3 | 223.2 | 228.2 | 240.2 | 249.4 | 248.9 | 243.4 | 239.3 |
| 70° | 210.7 | 202.9 | 198.8 | 199.2 | 195.6 | 201.5 | 211.2 | 217.2 | 206.6 | 200.2 | 197.4 |
| 72.5° | 175.3 | 173.0 | 170.3 | 170.7 | 163.4 | 162.0 | 150.9 | 150.9 | 148.2 | 146.3 | 149.5 |
| 75° | 133.9 | 133.0 | 134.4 | 132.1 | 124.2 | 116.0 | 109.5 | 103.5 | 94.3 | 90.6 | 88.8 |
| 77.5° | 84.7 | 87.4 | 90.6 | 85.6 | 82.4 | 76.4 | 69.9 | 64.0 | 56.6 | 52.5 | 52.5 |
| 80° | 57.5 | 59.8 | 62.1 | 61.2 | 57.5 | 52.0 | 46.9 | 40.5 | 35.4 | 32.2 | 31.8 |
| 82.5° | 43.7 | 45.6 | 48.8 | 45.1 | 41.4 | 36.8 | 32.7 | 28.1 | 23.5 | 19.8 | 19.8 |
| 85° | 15.6 | 17.9 | 19.8 | 21.6 | 23.0 | 23.5 | 20.2 | 16.6 | 13.3 | 10.6 | 10.1 |
| 87.5° | 4.1 | 4.6 | 5.1 | 4.6 | 4.6 | 4.6 | 5.1 | 4.6 | 4.1 | 3.2 | 3.2 |
| 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)