

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: P526685

Luminaire Tested: **GALN-SA1C-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3181 lumens
Efficiency: N/A
Efficacy: 55.8 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

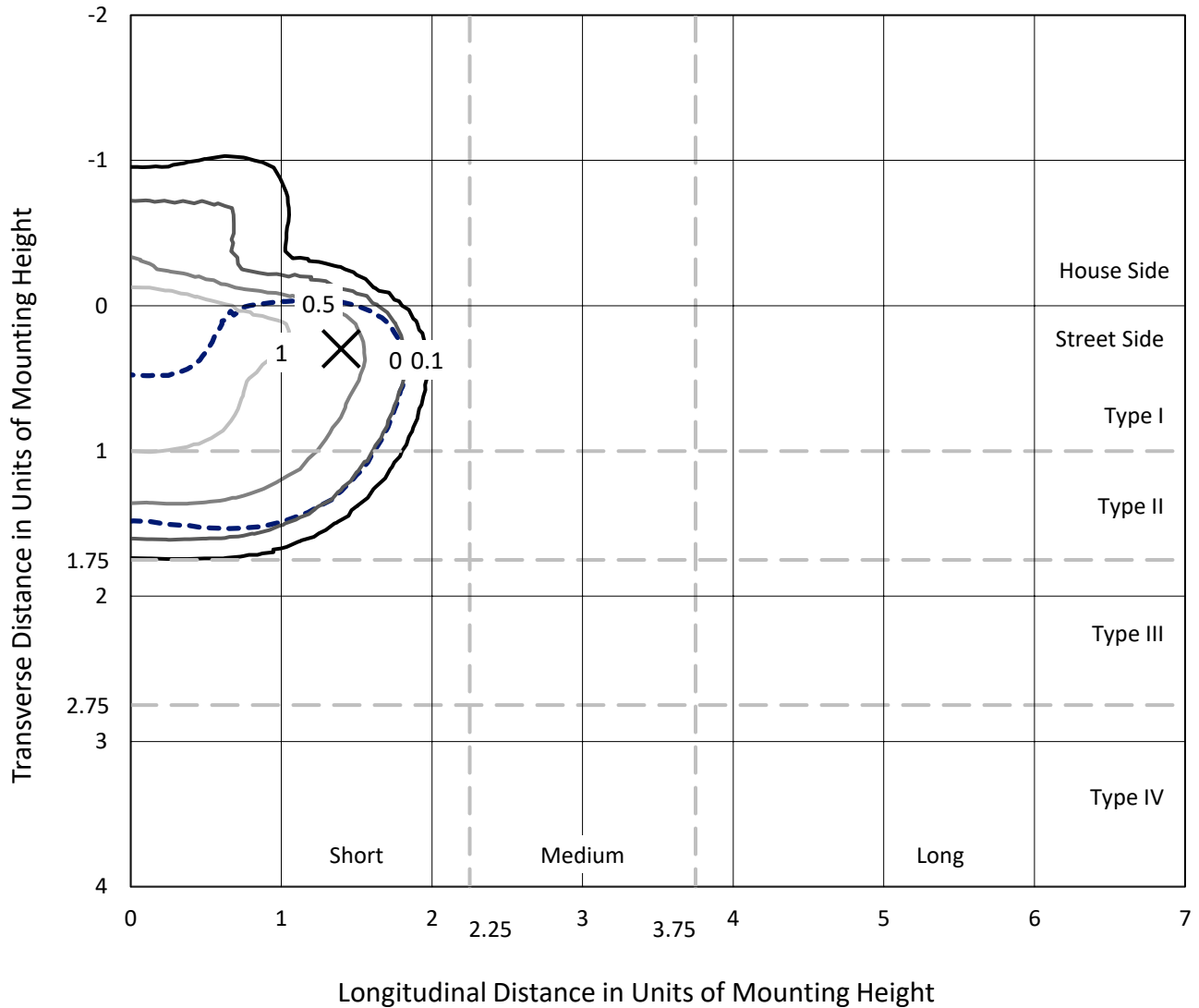
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

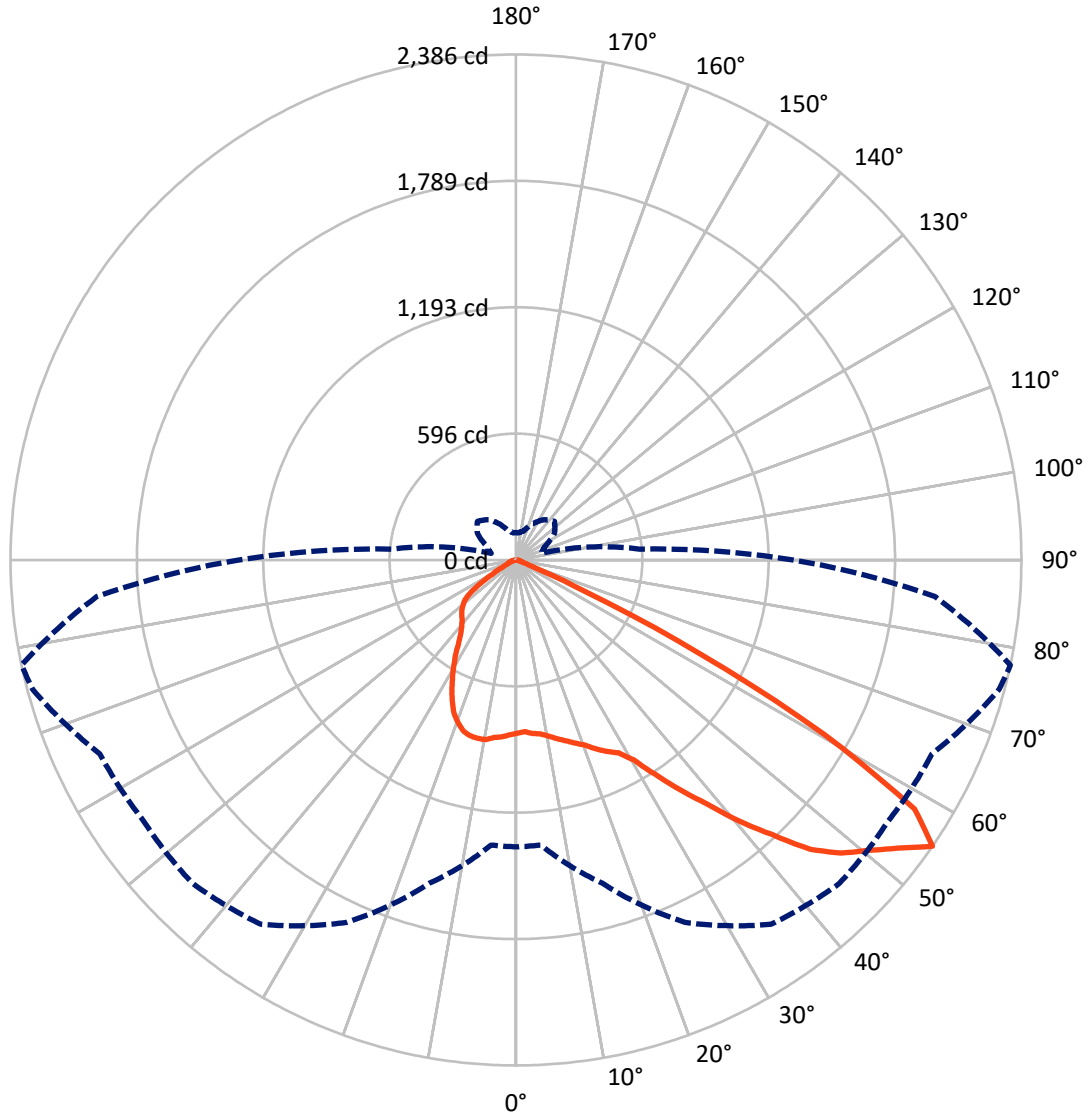
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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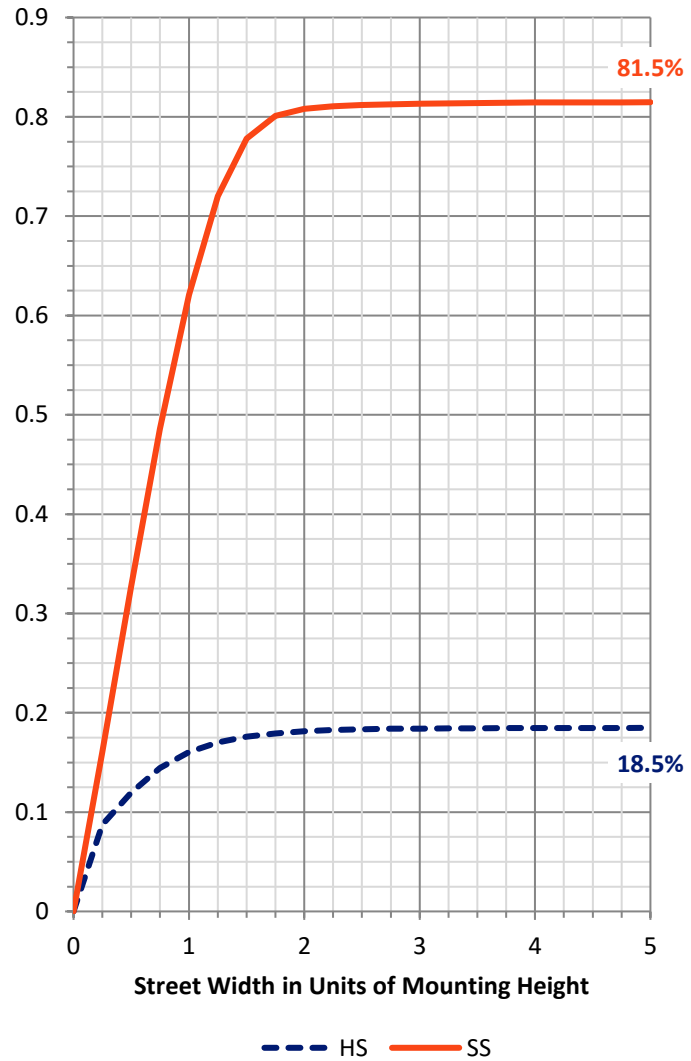
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 590.8 | 0.0 | 590.8 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 2590.2 | 0.0 | 2590.2 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 3181.0 | 0.0 | 3181.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.9 | 2.3 |
| 10°-20° | 193.0 | 6.1 |
| 20°-30° | 338.3 | 10.6 |
| 30°-40° | 557.8 | 17.5 |
| 40°-50° | 811.7 | 25.5 |
| 50°-60° | 919.7 | 28.9 |
| 60°-70° | 263.0 | 8.3 |
| 70°-80° | 20.4 | 0.6 |
| 80°-90° | 4.2 | 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° | 3181.0 | 100.0 |
| 0°-180° | 3181.0 | 100.0 |

Coefficient of Utilization

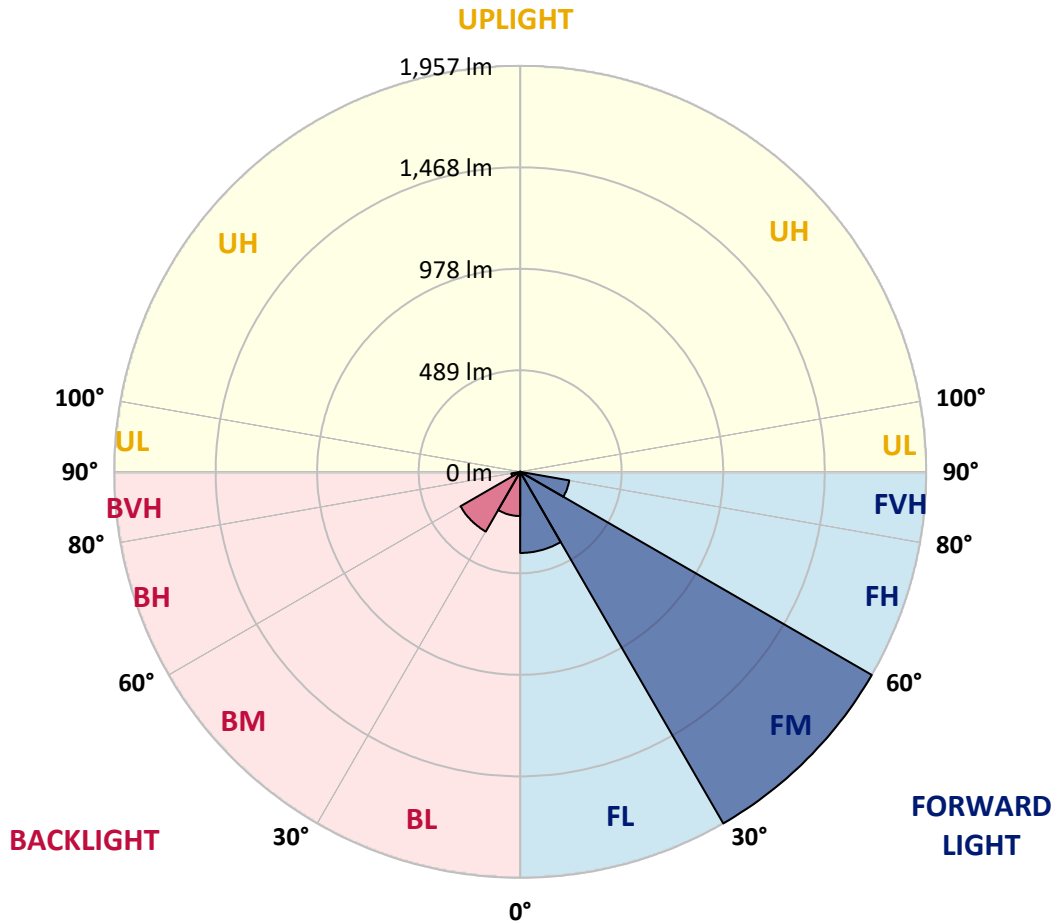


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 391.0 | 12.3 | | | |
| FM (30°-60°) | 1956.8 | 61.5 | | | |
| FH (60°-80°) | 240.3 | 7.6 | | | G0/660 |
| FVH (80°-90°) | 2.1 | 0.1 | | | G0/10 |
| BL (0°-30°) | 213.2 | 6.7 | B1/500 | | |
| BM (30°-60°) | 332.4 | 10.4 | B1/1000 | | |
| BH (60°-80°) | 43.1 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 2.2 | 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° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 |
| 2.5° | 768.9 | 776.3 | 777.5 | 786.6 | 786.0 | 801.3 | 805.9 | 806.5 | 816.7 | 811.6 | 824.7 |
| 5° | 747.3 | 743.3 | 741.6 | 757.6 | 762.1 | 775.8 | 787.1 | 794.0 | 815.0 | 822.4 | 836.0 |
| 7.5° | 728.0 | 728.0 | 729.1 | 743.3 | 741.6 | 759.3 | 771.2 | 792.2 | 823.0 | 829.2 | 845.7 |
| 10° | 709.2 | 702.4 | 710.9 | 725.7 | 738.2 | 746.2 | 771.2 | 791.1 | 826.9 | 845.1 | 867.9 |
| 12.5° | 699.5 | 703.0 | 704.1 | 714.9 | 728.5 | 752.4 | 766.1 | 799.1 | 855.4 | 866.2 | 890.6 |
| 15° | 760.4 | 753.6 | 737.1 | 727.4 | 738.8 | 750.2 | 784.3 | 817.8 | 870.2 | 885.5 | 912.8 |
| 17.5° | 830.9 | 825.2 | 811.6 | 785.4 | 759.8 | 780.9 | 807.6 | 838.3 | 886.1 | 908.8 | 949.2 |
| 20° | 923.1 | 914.0 | 900.3 | 849.1 | 826.9 | 804.2 | 832.6 | 869.0 | 912.2 | 932.7 | 974.2 |
| 22.5° | 1032.8 | 1032.8 | 1002.1 | 940.1 | 894.0 | 872.4 | 884.4 | 905.4 | 941.3 | 969.1 | 1010.1 |
| 25° | 1147.1 | 1143.7 | 1115.9 | 1051.6 | 973.7 | 948.1 | 961.7 | 976.5 | 986.2 | 1001.5 | 1028.8 |
| 27.5° | 1277.9 | 1258.0 | 1222.8 | 1151.7 | 1082.9 | 1033.4 | 1048.2 | 1035.1 | 1023.1 | 1031.1 | 1070.4 |
| 30° | 1366.7 | 1379.2 | 1334.2 | 1266.0 | 1201.2 | 1146.0 | 1148.8 | 1137.5 | 1082.9 | 1094.2 | 1117.6 |
| 32.5° | 1458.8 | 1466.8 | 1441.7 | 1404.2 | 1339.4 | 1275.1 | 1251.8 | 1242.1 | 1201.2 | 1206.3 | 1183.5 |
| 35° | 1535.6 | 1550.9 | 1528.8 | 1512.3 | 1493.5 | 1441.7 | 1377.5 | 1408.7 | 1342.8 | 1330.3 | 1271.1 |
| 37.5° | 1606.1 | 1601.6 | 1627.7 | 1610.6 | 1606.7 | 1570.3 | 1499.7 | 1506.0 | 1461.6 | 1458.8 | 1390.6 |
| 40° | 1669.2 | 1670.4 | 1706.2 | 1714.2 | 1698.2 | 1633.4 | 1531.0 | 1580.5 | 1616.3 | 1619.7 | 1532.2 |
| 42.5° | 1721.6 | 1736.9 | 1767.6 | 1831.9 | 1808.0 | 1699.9 | 1563.4 | 1617.5 | 1750.6 | 1771.6 | 1666.4 |
| 45° | 1767.1 | 1798.3 | 1836.4 | 1893.9 | 1880.2 | 1794.4 | 1644.2 | 1693.7 | 1893.9 | 1949.0 | 1792.6 |
| 47.5° | 1769.9 | 1810.8 | 1852.4 | 1937.7 | 1954.7 | 1845.0 | 1727.8 | 1814.3 | 2007.6 | 2067.3 | 1884.8 |
| 50° | 1758.5 | 1780.1 | 1863.2 | 1955.9 | 1994.5 | 1927.4 | 1845.0 | 1915.5 | 2118.0 | 2155.5 | 1931.4 |
| 52.5° | 1623.7 | 1640.2 | 1806.9 | 1972.9 | 2066.2 | 2020.7 | 2000.2 | 2056.5 | 2230.6 | 2258.4 | 1975.2 |
| 55° | 1353.6 | 1350.7 | 1579.9 | 1887.1 | 2099.2 | 2158.9 | 2146.4 | 2166.3 | 2360.8 | 2385.8 | 1986.0 |
| 57.5° | 925.9 | 977.7 | 1175.6 | 1571.4 | 1897.3 | 2126.5 | 2139.6 | 2106.6 | 2209.0 | 2218.6 | 1731.2 |
| 60° | 499.3 | 521.0 | 680.2 | 1048.7 | 1444.6 | 1732.9 | 1767.1 | 1707.3 | 1699.4 | 1672.1 | 1235.9 |
| 62.5° | 198.5 | 209.3 | 299.7 | 519.3 | 787.1 | 1053.3 | 1126.7 | 1102.2 | 1049.9 | 978.2 | 639.8 |
| 65° | 94.4 | 101.2 | 149.0 | 242.8 | 349.2 | 439.1 | 512.4 | 535.2 | 394.7 | 355.5 | 211.0 |
| 67.5° | 64.3 | 69.4 | 108.6 | 138.8 | 124.6 | 130.2 | 169.5 | 157.5 | 92.7 | 79.1 | 58.6 |
| 70° | 48.9 | 52.3 | 87.0 | 94.4 | 55.7 | 39.2 | 43.8 | 40.9 | 38.1 | 38.7 | 38.1 |
| 72.5° | 34.7 | 37.5 | 63.7 | 55.7 | 24.5 | 18.2 | 23.3 | 27.9 | 27.9 | 27.9 | 27.3 |
| 75° | 21.0 | 23.9 | 37.0 | 21.6 | 9.7 | 9.7 | 14.8 | 18.8 | 19.9 | 20.5 | 19.3 |
| 77.5° | 10.8 | 13.6 | 12.5 | 6.3 | 6.3 | 7.4 | 10.8 | 13.1 | 14.2 | 14.2 | 13.6 |
| 80° | 2.3 | 2.3 | 2.3 | 3.4 | 6.3 | 8.0 | 10.8 | 11.9 | 13.6 | 13.6 | 12.5 |
| 82.5° | 0.0 | 0.6 | 1.7 | 3.4 | 5.7 | 7.4 | 10.2 | 11.9 | 13.6 | 14.2 | 13.1 |
| 85° | 0.0 | 0.6 | 1.1 | 2.3 | 4.0 | 4.5 | 4.0 | 3.4 | 3.4 | 3.4 | 3.4 |
| 87.5° | 0.0 | 0.0 | 0.6 | 0.6 | 0.6 | 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° | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 | 817.8 |
| 2.5° | 825.8 | 827.5 | 824.7 | 824.1 | 821.8 | 828.6 | 812.1 | 808.2 | 818.4 | 808.7 | 811.0 |
| 5° | 836.6 | 840.6 | 835.5 | 826.9 | 814.4 | 795.1 | 778.6 | 757.0 | 746.7 | 739.4 | 738.2 |
| 7.5° | 844.6 | 847.4 | 842.3 | 815.0 | 777.5 | 728.5 | 692.1 | 665.4 | 644.4 | 638.1 | 627.9 |
| 10° | 877.0 | 877.6 | 852.0 | 791.7 | 718.3 | 654.0 | 598.3 | 557.4 | 536.3 | 523.2 | 517.5 |
| 12.5° | 898.6 | 897.5 | 845.7 | 745.6 | 647.8 | 562.5 | 498.8 | 449.3 | 430.0 | 423.7 | 419.7 |
| 15° | 925.9 | 919.6 | 830.9 | 698.4 | 556.8 | 464.7 | 407.2 | 373.1 | 371.4 | 367.4 | 371.4 |
| 17.5° | 947.5 | 929.9 | 809.3 | 612.5 | 469.8 | 382.8 | 345.2 | 347.5 | 352.0 | 356.0 | 356.6 |
| 20° | 982.8 | 946.4 | 759.8 | 537.5 | 389.0 | 328.2 | 327.6 | 337.8 | 349.2 | 353.8 | 358.3 |
| 22.5° | 1009.5 | 953.2 | 706.9 | 457.3 | 323.0 | 306.0 | 315.6 | 331.0 | 339.5 | 344.1 | 350.9 |
| 25° | 1019.2 | 934.4 | 636.4 | 377.1 | 291.2 | 295.7 | 310.5 | 320.8 | 331.6 | 336.7 | 333.8 |
| 27.5° | 1028.8 | 924.8 | 552.2 | 310.5 | 274.1 | 288.9 | 301.4 | 311.7 | 315.1 | 321.9 | 326.5 |
| 30° | 1052.2 | 891.2 | 476.6 | 268.4 | 265.6 | 284.4 | 293.5 | 296.9 | 306.0 | 310.0 | 310.0 |
| 32.5° | 1070.9 | 878.1 | 396.4 | 248.5 | 264.5 | 286.6 | 287.8 | 287.8 | 288.9 | 286.1 | 284.9 |
| 35° | 1109.6 | 833.2 | 324.7 | 236.6 | 263.9 | 287.2 | 290.1 | 280.4 | 254.2 | 244.0 | 241.1 |
| 37.5° | 1157.4 | 804.2 | 271.9 | 233.7 | 267.9 | 294.0 | 298.6 | 262.2 | 228.1 | 211.6 | 208.7 |
| 40° | 1215.4 | 783.7 | 237.2 | 232.6 | 277.0 | 310.0 | 296.3 | 248.0 | 203.6 | 179.7 | 178.6 |
| 42.5° | 1283.1 | 764.9 | 213.8 | 232.0 | 288.3 | 326.5 | 294.0 | 236.0 | 178.6 | 162.7 | 164.9 |
| 45° | 1337.1 | 754.7 | 197.9 | 228.1 | 292.3 | 336.1 | 295.7 | 215.0 | 168.3 | 158.1 | 159.2 |
| 47.5° | 1379.2 | 733.1 | 184.8 | 221.2 | 291.8 | 339.5 | 280.4 | 206.4 | 163.2 | 166.1 | 168.9 |
| 50° | 1380.3 | 704.1 | 168.3 | 206.4 | 283.2 | 333.3 | 262.8 | 198.5 | 162.1 | 174.0 | 179.7 |
| 52.5° | 1365.0 | 663.1 | 150.7 | 185.4 | 263.3 | 311.7 | 246.8 | 195.1 | 157.0 | 155.8 | 162.7 |
| 55° | 1310.4 | 586.4 | 121.1 | 150.1 | 222.4 | 257.1 | 232.6 | 188.8 | 141.6 | 128.5 | 129.7 |
| 57.5° | 1059.0 | 420.3 | 89.3 | 107.5 | 157.5 | 188.3 | 209.9 | 186.0 | 127.4 | 109.2 | 109.8 |
| 60° | 655.7 | 238.3 | 65.4 | 73.4 | 97.3 | 114.3 | 170.1 | 172.9 | 113.7 | 92.1 | 91.0 |
| 62.5° | 336.7 | 117.7 | 50.6 | 51.8 | 59.7 | 67.1 | 116.6 | 145.0 | 102.9 | 87.6 | 87.6 |
| 65° | 112.6 | 58.0 | 44.4 | 39.8 | 39.8 | 41.5 | 70.5 | 100.7 | 87.0 | 73.4 | 73.4 |
| 67.5° | 48.3 | 43.2 | 38.7 | 34.7 | 31.8 | 30.1 | 39.8 | 58.6 | 64.8 | 55.7 | 53.5 |
| 70° | 37.5 | 36.4 | 33.6 | 29.0 | 25.0 | 22.7 | 23.3 | 30.1 | 37.0 | 35.8 | 34.7 |
| 72.5° | 27.9 | 27.9 | 26.7 | 22.7 | 19.3 | 16.5 | 15.4 | 15.9 | 17.6 | 18.2 | 18.8 |
| 75° | 19.3 | 19.9 | 19.9 | 17.6 | 14.2 | 11.9 | 10.2 | 8.5 | 6.8 | 5.7 | 5.1 |
| 77.5° | 13.1 | 13.6 | 14.8 | 13.1 | 10.8 | 8.0 | 6.3 | 4.5 | 2.8 | 1.1 | 1.1 |
| 80° | 11.4 | 13.1 | 14.2 | 13.1 | 11.4 | 8.5 | 6.3 | 3.4 | 1.7 | 0.0 | 0.0 |
| 82.5° | 11.9 | 13.1 | 14.8 | 12.5 | 10.8 | 8.0 | 6.3 | 4.0 | 1.7 | 0.6 | 0.0 |
| 85° | 2.8 | 2.8 | 3.4 | 4.0 | 5.1 | 5.7 | 4.5 | 2.8 | 1.7 | 0.6 | 0.0 |
| 87.5° | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 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)