

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: P526759

Luminaire Tested: **GALN-SA1D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4330 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

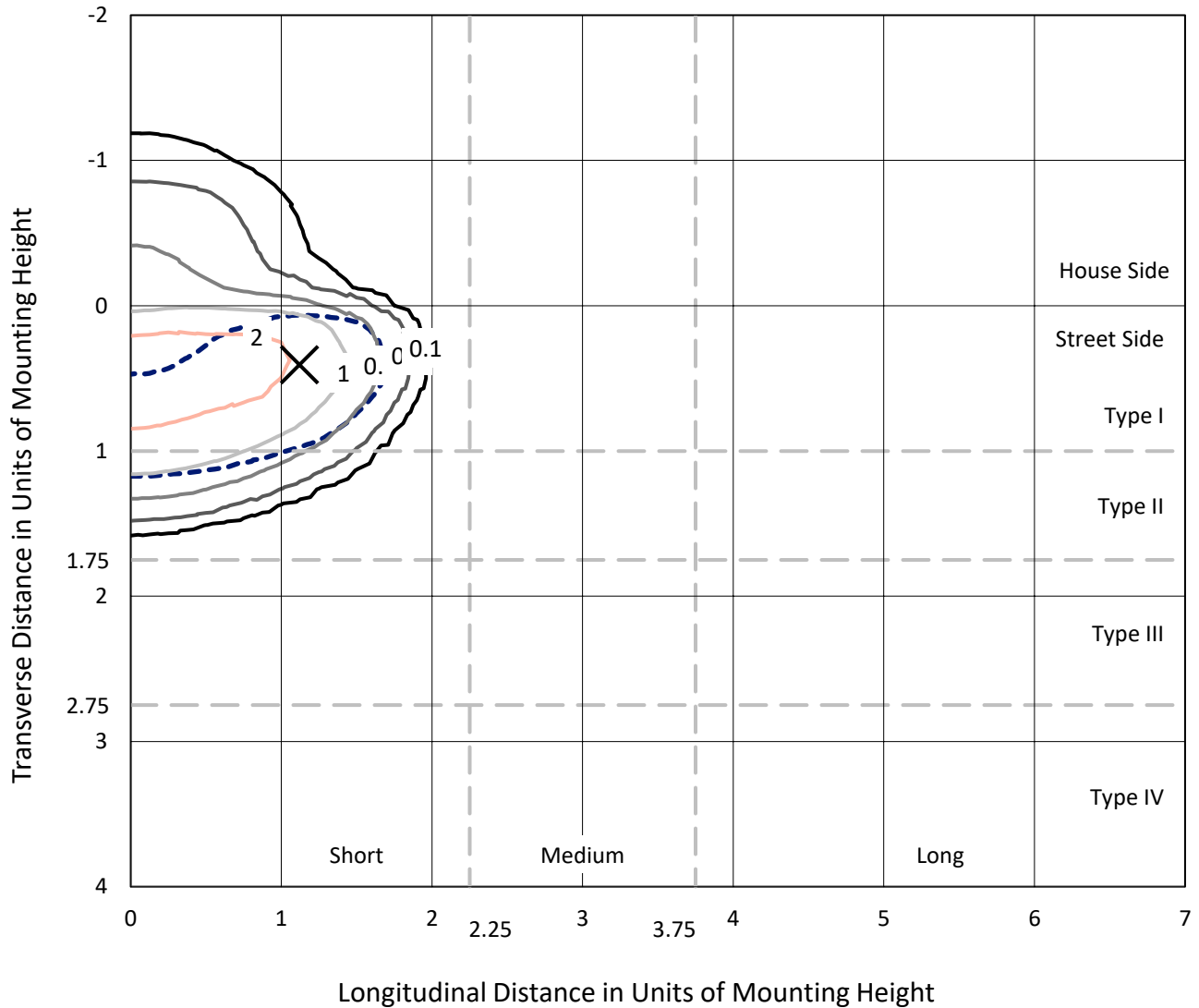
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

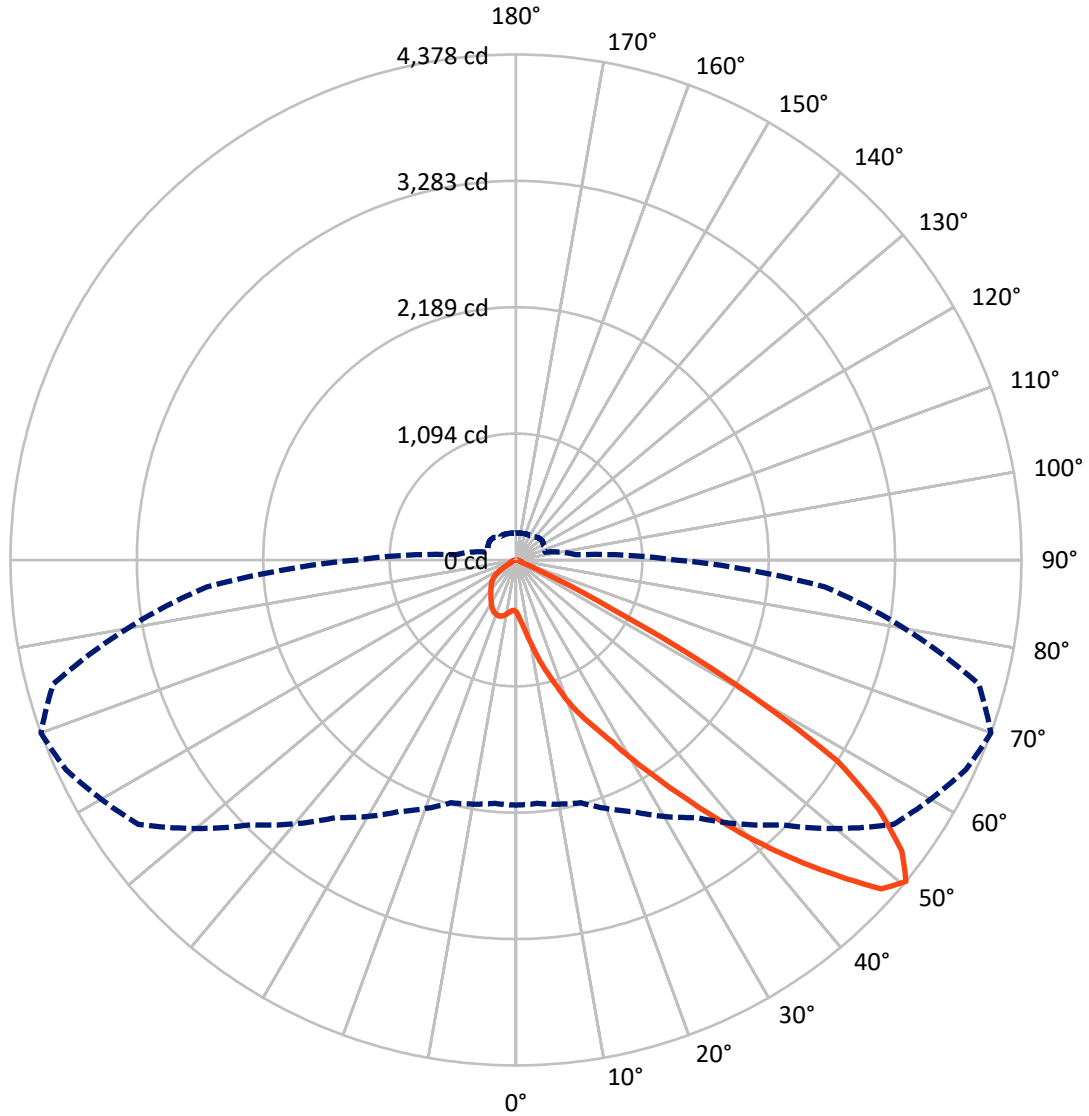
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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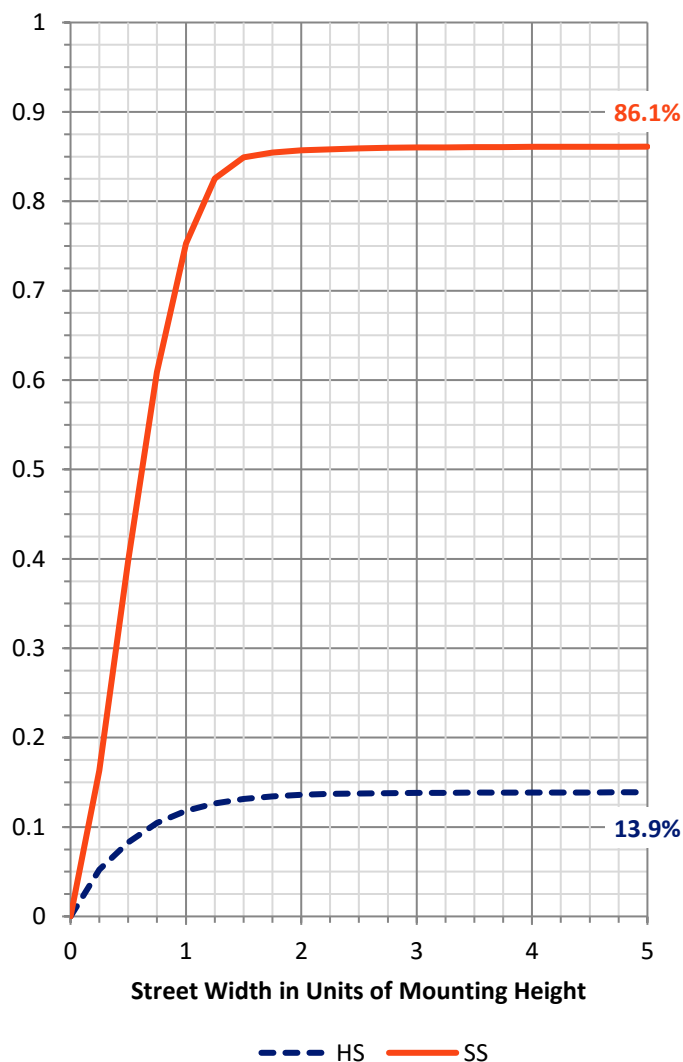
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 604.7 | 0.0 | 604.7 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 3725.3 | 0.0 | 3725.3 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 4330.0 | 0.0 | 4330.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.3 | 1.3 |
| 10°-20° | 252.3 | 5.8 |
| 20°-30° | 529.2 | 12.2 |
| 30°-40° | 912.2 | 21.1 |
| 40°-50° | 1333.2 | 30.8 |
| 50°-60° | 1038.4 | 24.0 |
| 60°-70° | 175.9 | 4.1 |
| 70°-80° | 24.2 | 0.6 |
| 80°-90° | 6.3 | 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° | 4330.0 | 100.0 |
| 0°-180° | 4330.0 | 100.0 |

Coefficient of Utilization



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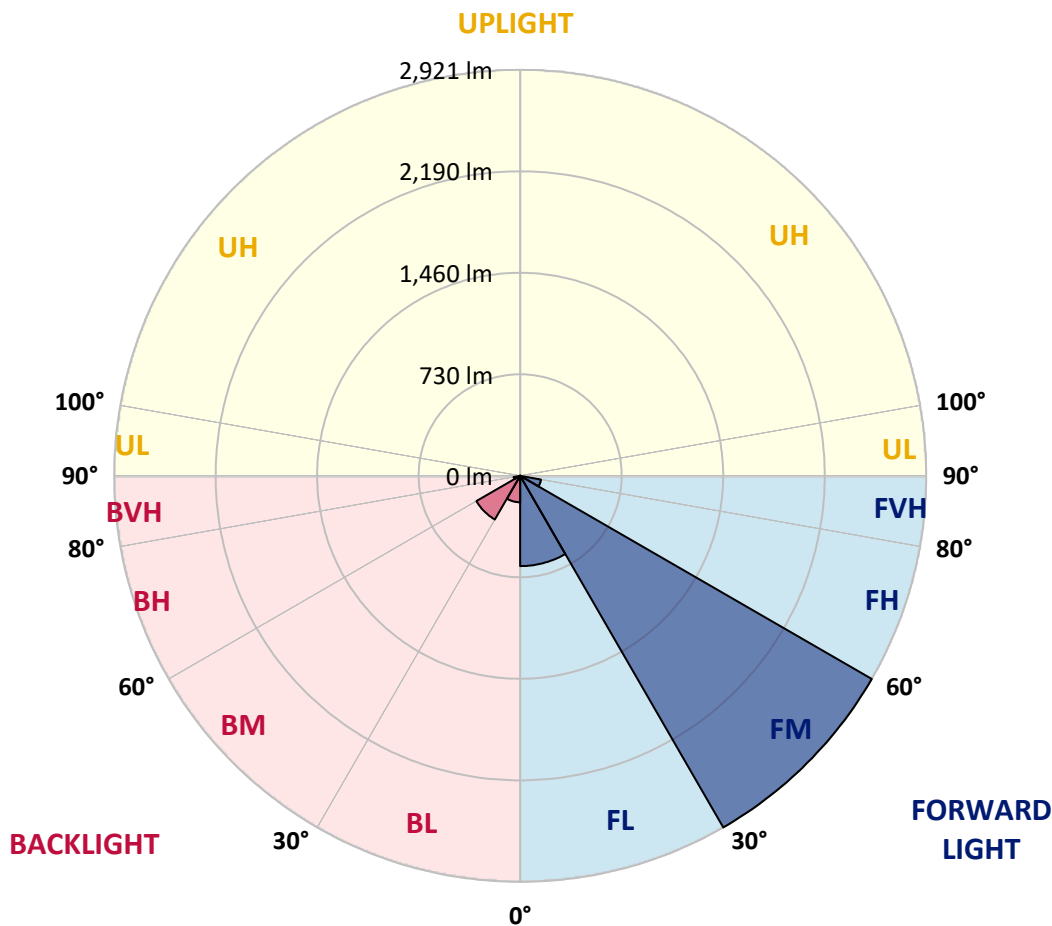
CATALOG NUMBER: GALN-SA1D-727-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 649.6 | 15.0 | | | |
| FM (30°-60°) | 2920.5 | 67.4 | | | |
| FH (60°-80°) | 152.3 | 3.5 | | | G0/660 |
| FVH (80°-90°) | 2.9 | 0.1 | | | G0/10 |
| BL (0°-30°) | 190.3 | 4.4 | B1/500 | | |
| BM (30°-60°) | 363.3 | 8.4 | B1/1000 | | |
| BH (60°-80°) | 47.8 | 1.1 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.4 | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 |
| 2.5° | 587.3 | 583.1 | 573.8 | 556.7 | 549.6 | 532.5 | 522.5 | 503.3 | 491.2 | 477.7 | 462.7 |
| 5° | 827.2 | 805.2 | 791.6 | 772.4 | 716.2 | 681.3 | 623.6 | 574.5 | 551.7 | 526.8 | 492.6 |
| 7.5° | 1075.0 | 1060.7 | 1042.2 | 1000.9 | 962.5 | 889.9 | 790.9 | 682.7 | 636.4 | 593.7 | 526.1 |
| 10° | 1280.0 | 1240.1 | 1238.0 | 1207.4 | 1165.4 | 1078.5 | 959.7 | 825.1 | 742.5 | 679.9 | 573.8 |
| 12.5° | 1423.1 | 1386.8 | 1403.2 | 1399.6 | 1360.5 | 1280.7 | 1143.3 | 965.3 | 879.2 | 781.7 | 622.9 |
| 15° | 1553.4 | 1538.4 | 1533.5 | 1529.2 | 1513.5 | 1454.4 | 1331.3 | 1136.2 | 1011.6 | 894.2 | 678.4 |
| 17.5° | 1680.8 | 1642.4 | 1660.9 | 1664.4 | 1663.0 | 1609.6 | 1494.3 | 1298.5 | 1151.9 | 1013.0 | 736.8 |
| 20° | 1794.0 | 1797.6 | 1772.7 | 1767.7 | 1763.4 | 1761.3 | 1648.8 | 1459.4 | 1324.2 | 1137.6 | 813.0 |
| 22.5° | 1939.2 | 1914.3 | 1936.4 | 1922.2 | 1894.4 | 1877.3 | 1791.2 | 1601.8 | 1473.7 | 1287.8 | 890.6 |
| 25° | 2110.8 | 2130.7 | 2078.8 | 2073.1 | 2042.5 | 1983.4 | 1905.8 | 1761.3 | 1617.5 | 1427.4 | 974.6 |
| 27.5° | 2322.2 | 2287.4 | 2273.8 | 2242.5 | 2187.0 | 2162.1 | 2070.9 | 1925.7 | 1791.2 | 1574.0 | 1055.8 |
| 30° | 2503.8 | 2494.5 | 2426.9 | 2389.9 | 2341.5 | 2340.8 | 2213.3 | 2148.5 | 2017.6 | 1804.0 | 1167.5 |
| 32.5° | 2651.9 | 2611.3 | 2586.4 | 2560.7 | 2521.6 | 2532.3 | 2424.8 | 2390.6 | 2258.9 | 2017.6 | 1299.2 |
| 35° | 2750.8 | 2721.6 | 2706.7 | 2667.5 | 2656.1 | 2703.8 | 2659.0 | 2644.7 | 2536.5 | 2318.0 | 1453.7 |
| 37.5° | 2782.1 | 2791.4 | 2788.5 | 2739.4 | 2763.6 | 2892.5 | 2950.2 | 2913.1 | 2856.2 | 2634.8 | 1621.0 |
| 40° | 2809.9 | 2816.3 | 2802.1 | 2859.7 | 2928.8 | 3075.4 | 3284.0 | 3222.8 | 3201.5 | 2955.8 | 1853.8 |
| 42.5° | 2825.6 | 2820.6 | 2820.6 | 2920.3 | 3024.9 | 3319.6 | 3606.5 | 3566.0 | 3549.6 | 3297.6 | 2122.9 |
| 45° | 2757.9 | 2709.5 | 2761.5 | 2896.8 | 3107.5 | 3439.9 | 3864.2 | 3920.5 | 3897.0 | 3704.1 | 2437.6 |
| 47.5° | 2505.2 | 2535.1 | 2564.3 | 2745.1 | 3007.1 | 3402.9 | 4022.3 | 4213.8 | 4257.2 | 4045.8 | 2644.0 |
| 50° | 2122.9 | 2116.5 | 2177.0 | 2404.8 | 2723.1 | 3243.5 | 3991.7 | 4298.5 | 4377.5 | 4148.3 | 2687.5 |
| 52.5° | 1544.1 | 1591.1 | 1656.6 | 1883.0 | 2260.3 | 2830.6 | 3596.6 | 4080.0 | 4185.3 | 4022.3 | 2659.0 |
| 55° | 899.1 | 847.2 | 994.5 | 1186.0 | 1542.0 | 2135.0 | 3040.6 | 3616.5 | 3811.6 | 3793.1 | 2515.2 |
| 57.5° | 360.2 | 348.8 | 399.4 | 538.2 | 804.5 | 1323.4 | 2211.2 | 2971.5 | 3284.0 | 3474.1 | 2210.5 |
| 60° | 158.0 | 154.5 | 181.5 | 219.3 | 328.9 | 610.1 | 1209.5 | 1848.1 | 2174.2 | 2427.6 | 1521.3 |
| 62.5° | 113.9 | 112.5 | 126.0 | 139.5 | 173.7 | 265.5 | 508.3 | 744.7 | 928.3 | 1121.3 | 681.3 |
| 65° | 91.8 | 95.4 | 104.7 | 111.8 | 128.1 | 147.4 | 179.4 | 207.2 | 254.2 | 263.4 | 150.2 |
| 67.5° | 74.8 | 77.6 | 86.1 | 94.0 | 96.8 | 79.7 | 82.6 | 72.6 | 72.6 | 64.8 | 52.0 |
| 70° | 54.8 | 55.5 | 65.5 | 74.8 | 59.8 | 32.0 | 56.2 | 56.2 | 50.5 | 48.4 | 44.1 |
| 72.5° | 40.6 | 41.3 | 49.1 | 46.3 | 23.5 | 19.9 | 41.3 | 45.6 | 41.3 | 39.2 | 35.6 |
| 75° | 29.9 | 30.6 | 25.6 | 10.7 | 10.0 | 12.8 | 24.2 | 31.3 | 29.9 | 29.2 | 27.1 |
| 77.5° | 5.7 | 4.3 | 3.6 | 5.0 | 7.1 | 10.7 | 15.7 | 19.2 | 19.9 | 21.4 | 19.9 |
| 80° | 0.7 | 0.7 | 2.1 | 4.3 | 7.8 | 11.4 | 16.4 | 18.5 | 19.2 | 19.9 | 18.5 |
| 82.5° | 0.0 | 0.7 | 2.1 | 4.3 | 7.8 | 10.7 | 14.2 | 16.4 | 17.8 | 18.5 | 17.8 |
| 85° | 0.0 | 0.7 | 1.4 | 3.6 | 6.4 | 7.8 | 7.1 | 5.0 | 4.3 | 5.0 | 3.6 |
| 87.5° | 0.0 | 0.0 | 0.7 | 0.7 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 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° | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 | 448.5 |
| 2.5° | 454.2 | 451.4 | 441.4 | 430.7 | 421.5 | 425.7 | 421.5 | 417.9 | 419.3 | 417.9 | 416.5 |
| 5° | 479.1 | 466.3 | 444.9 | 435.7 | 427.9 | 427.1 | 425.0 | 424.3 | 425.0 | 425.0 | 418.6 |
| 7.5° | 502.6 | 482.0 | 459.2 | 449.2 | 440.0 | 440.7 | 435.7 | 435.7 | 435.0 | 431.4 | 430.0 |
| 10° | 538.2 | 510.4 | 481.3 | 463.5 | 452.1 | 449.9 | 444.9 | 440.0 | 440.0 | 440.0 | 432.8 |
| 12.5° | 577.4 | 542.5 | 502.6 | 482.0 | 468.4 | 457.8 | 449.9 | 448.5 | 440.7 | 439.2 | 435.7 |
| 15° | 611.5 | 567.4 | 516.8 | 488.4 | 471.3 | 457.0 | 444.9 | 437.1 | 433.6 | 431.4 | 428.6 |
| 17.5° | 645.0 | 588.7 | 524.7 | 488.4 | 469.9 | 453.5 | 440.7 | 433.6 | 425.0 | 426.4 | 420.7 |
| 20° | 689.8 | 611.5 | 526.8 | 479.1 | 456.3 | 440.7 | 423.6 | 420.0 | 415.0 | 410.8 | 412.2 |
| 22.5° | 733.3 | 627.9 | 520.4 | 467.7 | 435.0 | 416.5 | 407.9 | 403.7 | 401.5 | 398.0 | 393.0 |
| 25° | 772.4 | 645.7 | 510.4 | 447.1 | 412.2 | 398.7 | 390.8 | 390.1 | 385.1 | 385.1 | 375.9 |
| 27.5° | 812.3 | 652.1 | 493.4 | 422.9 | 392.3 | 384.4 | 380.9 | 379.4 | 377.3 | 372.3 | 365.9 |
| 30° | 857.9 | 654.2 | 468.4 | 398.0 | 374.5 | 365.9 | 370.9 | 374.5 | 365.2 | 356.0 | 358.8 |
| 32.5° | 895.6 | 649.3 | 438.5 | 374.5 | 361.6 | 357.4 | 367.3 | 370.9 | 360.2 | 350.3 | 345.3 |
| 35° | 941.1 | 637.2 | 409.3 | 356.0 | 348.8 | 357.4 | 365.9 | 365.9 | 344.6 | 332.5 | 329.6 |
| 37.5° | 1010.2 | 623.6 | 382.3 | 340.3 | 335.3 | 353.1 | 364.5 | 356.7 | 323.2 | 308.3 | 304.7 |
| 40° | 1084.2 | 615.1 | 356.0 | 324.6 | 328.2 | 346.0 | 352.4 | 328.2 | 294.0 | 284.8 | 281.9 |
| 42.5° | 1191.7 | 598.0 | 332.5 | 311.1 | 321.8 | 336.0 | 336.0 | 292.6 | 279.8 | 274.8 | 274.1 |
| 45° | 1325.6 | 585.9 | 311.8 | 299.7 | 312.5 | 316.1 | 304.7 | 274.1 | 264.8 | 263.4 | 264.1 |
| 47.5° | 1391.1 | 562.4 | 290.5 | 286.2 | 295.4 | 296.2 | 266.3 | 259.1 | 251.3 | 249.2 | 247.7 |
| 50° | 1381.1 | 520.4 | 262.7 | 268.4 | 281.2 | 274.1 | 242.8 | 244.2 | 237.1 | 236.4 | 232.8 |
| 52.5° | 1311.3 | 454.2 | 234.9 | 248.5 | 262.7 | 242.0 | 223.5 | 222.1 | 222.1 | 212.9 | 209.3 |
| 55° | 1162.5 | 365.9 | 201.5 | 218.6 | 235.6 | 203.6 | 198.6 | 197.2 | 193.6 | 185.1 | 183.0 |
| 57.5° | 920.5 | 268.4 | 151.6 | 170.1 | 200.0 | 173.0 | 172.3 | 165.9 | 156.6 | 150.2 | 150.2 |
| 60° | 547.5 | 154.5 | 95.4 | 103.9 | 132.4 | 140.2 | 155.9 | 153.1 | 137.4 | 127.4 | 124.6 |
| 62.5° | 249.9 | 79.7 | 60.5 | 61.9 | 71.2 | 91.1 | 122.4 | 141.7 | 119.6 | 102.5 | 101.1 |
| 65° | 84.0 | 59.1 | 49.8 | 47.7 | 49.1 | 54.8 | 73.3 | 100.4 | 95.4 | 79.0 | 76.2 |
| 67.5° | 51.3 | 52.7 | 47.0 | 43.4 | 43.4 | 42.7 | 42.0 | 45.6 | 56.2 | 54.8 | 55.5 |
| 70° | 44.1 | 48.4 | 43.4 | 39.2 | 37.7 | 35.6 | 29.9 | 24.9 | 21.4 | 24.9 | 26.3 |
| 72.5° | 35.6 | 38.4 | 37.0 | 33.5 | 29.9 | 27.1 | 21.4 | 16.4 | 12.1 | 10.7 | 10.7 |
| 75° | 26.3 | 28.5 | 29.9 | 25.6 | 22.8 | 19.2 | 15.7 | 10.7 | 6.4 | 4.3 | 4.3 |
| 77.5° | 19.2 | 21.4 | 22.1 | 19.9 | 17.1 | 13.5 | 10.0 | 7.1 | 3.6 | 1.4 | 1.4 |
| 80° | 16.4 | 19.2 | 21.4 | 19.9 | 17.8 | 12.8 | 9.3 | 5.0 | 2.8 | 0.7 | 0.7 |
| 82.5° | 15.7 | 19.2 | 21.4 | 19.2 | 17.1 | 12.1 | 9.3 | 5.7 | 2.1 | 0.7 | 0.7 |
| 85° | 3.6 | 5.0 | 6.4 | 7.8 | 9.3 | 9.3 | 7.1 | 4.3 | 2.1 | 0.7 | 0.7 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.7 | 0.7 | 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)