

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: P526994

Luminaire Tested: **GALN-SA2A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-727-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6758 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

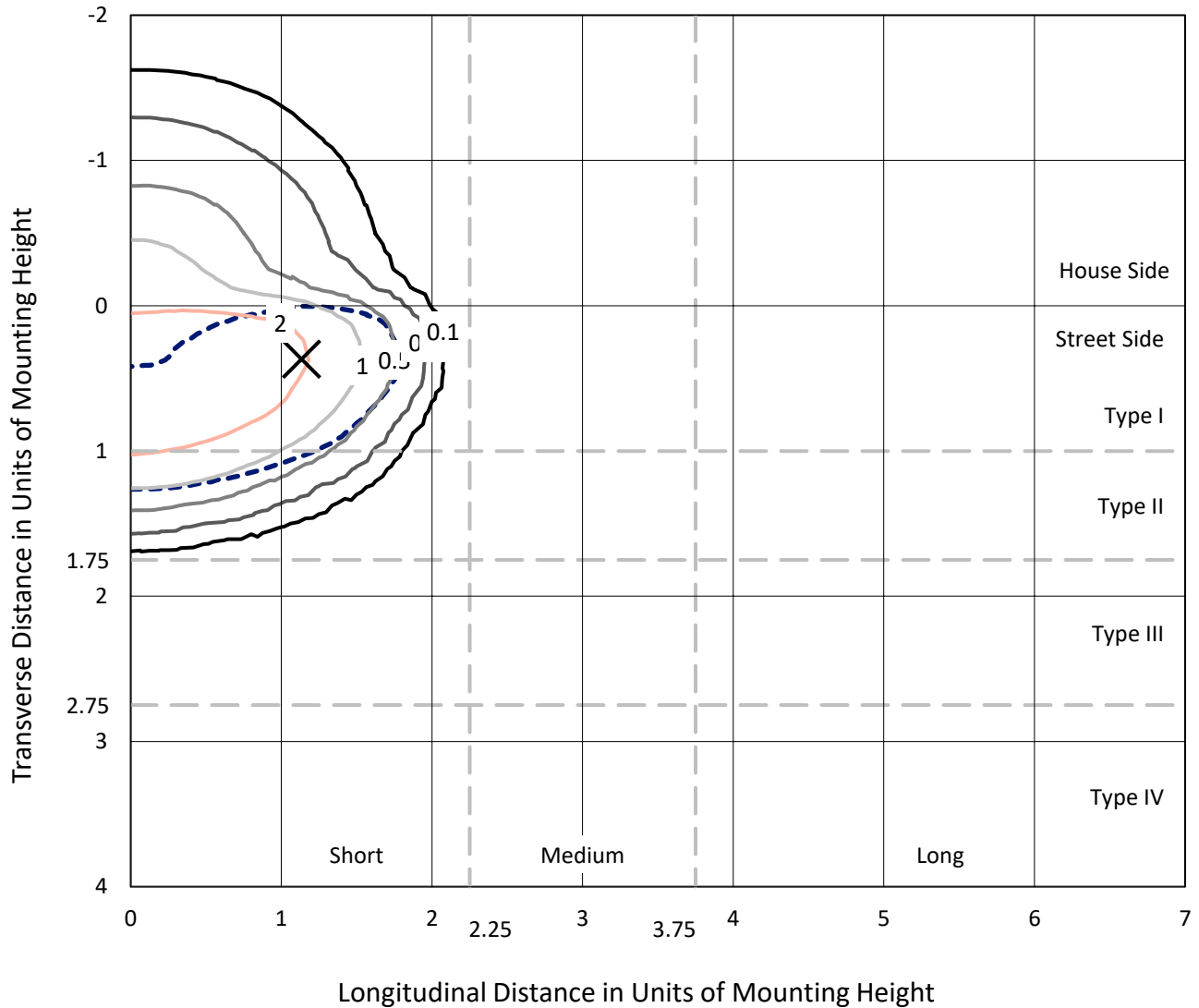
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

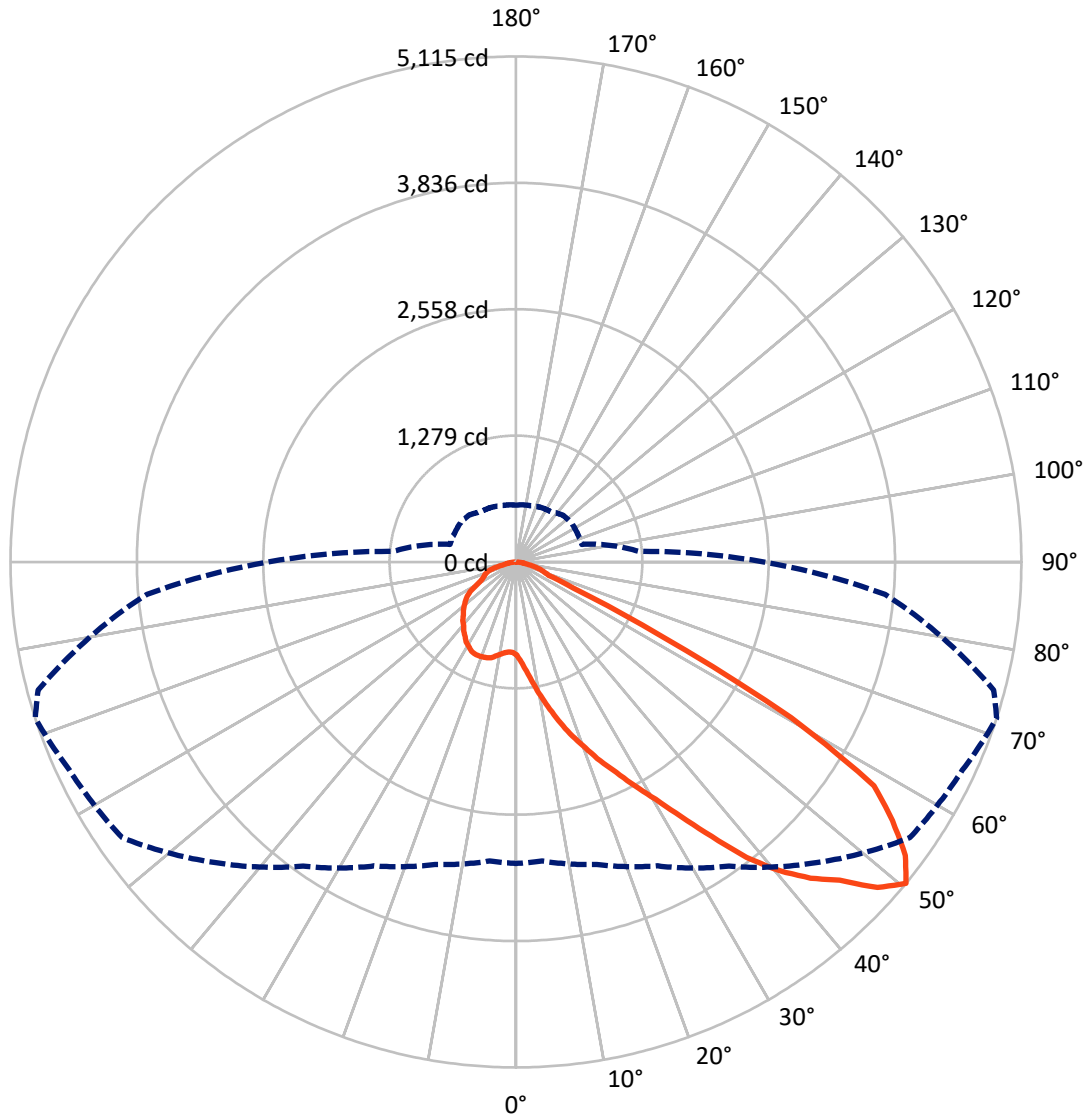
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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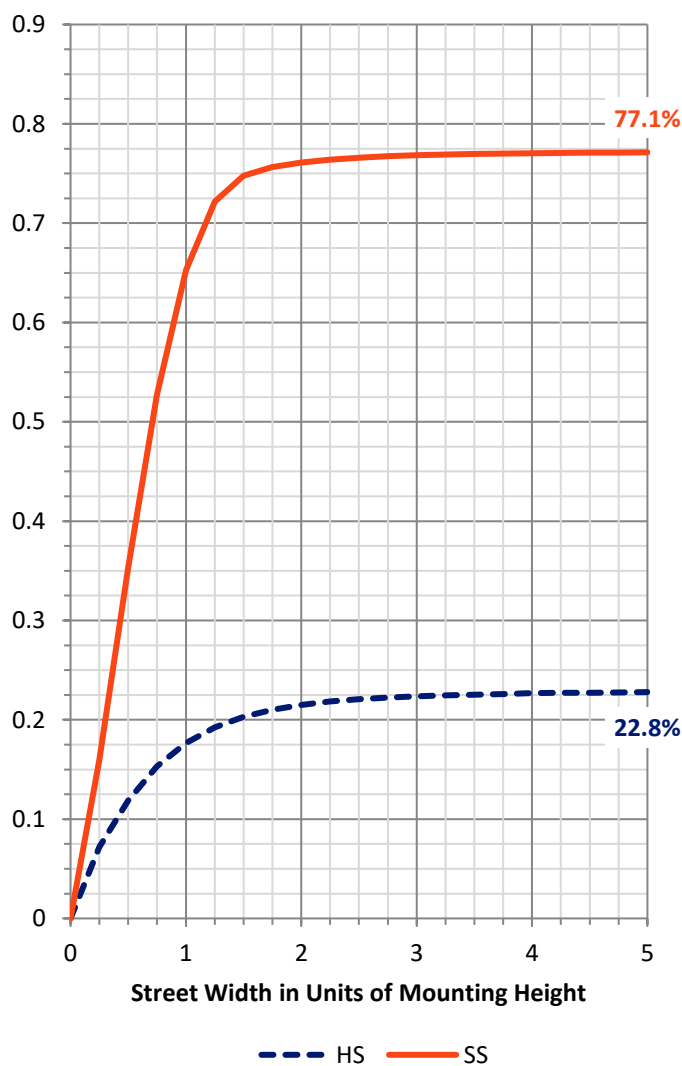
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1548.3 | 0.0 | 1548.3 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 5209.7 | 0.0 | 5209.7 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 6758.0 | 0.0 | 6758.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.7 | 1.6 |
| 10°-20° | 413.7 | 6.1 |
| 20°-30° | 802.1 | 11.9 |
| 30°-40° | 1328.8 | 19.7 |
| 40°-50° | 1859.3 | 27.5 |
| 50°-60° | 1568.5 | 23.2 |
| 60°-70° | 478.1 | 7.1 |
| 70°-80° | 167.7 | 2.5 |
| 80°-90° | 29.2 | 0.4 |
| 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° | 6758.0 | 100.0 |
| 0°-180° | 6758.0 | 100.0 |

Coefficient of Utilization

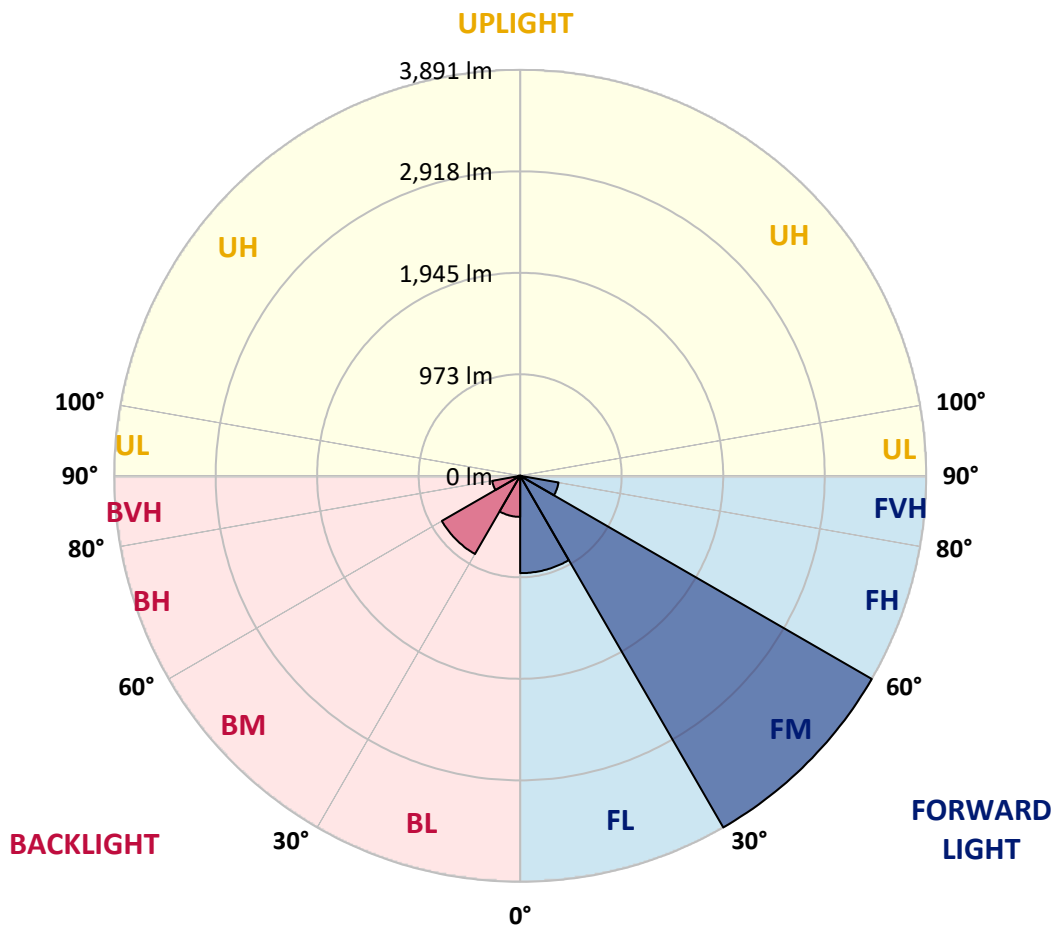


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 932.8 | 13.8 | | | |
| FM (30°-60°) | 3890.8 | 57.6 | | | |
| FH (60°-80°) | 373.0 | 5.5 | | | G0/660 |
| FVH (80°-90°) | 13.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 393.6 | 5.8 | B1/500 | | |
| BM (30°-60°) | 865.8 | 12.8 | B1/1000 | | |
| BH (60°-80°) | 272.8 | 4.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 16.1 | 0.2 | | | 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° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 |
| 2.5° | 1210.0 | 1202.5 | 1179.9 | 1172.4 | 1145.7 | 1097.1 | 1080.4 | 1031.1 | 1010.2 | 990.9 | 968.4 |
| 5° | 1530.3 | 1495.2 | 1492.7 | 1450.0 | 1388.2 | 1352.2 | 1245.2 | 1173.2 | 1107.2 | 1073.7 | 1011.9 |
| 7.5° | 1734.4 | 1735.2 | 1735.2 | 1700.1 | 1650.7 | 1559.6 | 1463.4 | 1333.8 | 1234.3 | 1185.0 | 1079.6 |
| 10° | 1928.4 | 1911.6 | 1902.4 | 1899.1 | 1865.7 | 1777.0 | 1674.2 | 1513.6 | 1377.3 | 1319.6 | 1130.6 |
| 12.5° | 2065.5 | 2051.3 | 2072.2 | 2061.3 | 2037.1 | 1979.4 | 1882.4 | 1699.2 | 1528.6 | 1450.9 | 1212.5 |
| 15° | 2130.7 | 2140.8 | 2157.5 | 2187.6 | 2176.7 | 2155.0 | 2048.0 | 1889.9 | 1691.7 | 1603.9 | 1285.3 |
| 17.5° | 2231.1 | 2203.5 | 2223.6 | 2261.2 | 2291.3 | 2281.3 | 2220.2 | 2027.9 | 1853.1 | 1745.2 | 1383.1 |
| 20° | 2301.3 | 2285.4 | 2295.5 | 2339.0 | 2361.5 | 2418.4 | 2386.6 | 2208.5 | 2007.8 | 1894.1 | 1498.5 |
| 22.5° | 2502.0 | 2478.6 | 2446.0 | 2452.7 | 2461.1 | 2501.2 | 2508.7 | 2406.7 | 2187.6 | 2067.2 | 1608.1 |
| 25° | 2749.6 | 2727.8 | 2689.4 | 2650.0 | 2625.8 | 2618.3 | 2644.2 | 2562.2 | 2359.9 | 2235.3 | 1726.0 |
| 27.5° | 3022.2 | 2985.4 | 2961.1 | 2880.0 | 2814.8 | 2804.8 | 2792.2 | 2747.9 | 2563.9 | 2429.3 | 1859.0 |
| 30° | 3287.3 | 3258.0 | 3225.4 | 3095.8 | 3028.0 | 3017.2 | 2955.3 | 2967.8 | 2785.5 | 2635.8 | 2009.5 |
| 32.5° | 3488.0 | 3490.5 | 3416.0 | 3318.2 | 3254.7 | 3196.9 | 3174.4 | 3210.3 | 3069.8 | 2949.4 | 2177.6 |
| 35° | 3650.2 | 3657.7 | 3586.6 | 3498.0 | 3429.4 | 3469.6 | 3459.5 | 3476.3 | 3409.4 | 3262.2 | 2373.3 |
| 37.5° | 3808.2 | 3770.6 | 3694.5 | 3651.9 | 3615.9 | 3682.0 | 3767.3 | 3781.5 | 3794.0 | 3620.9 | 2600.7 |
| 40° | 3834.2 | 3837.5 | 3793.2 | 3823.3 | 3778.1 | 3877.6 | 4075.8 | 4057.4 | 4108.5 | 3957.1 | 2847.4 |
| 42.5° | 3797.4 | 3804.9 | 3822.5 | 3865.1 | 3973.8 | 4093.4 | 4387.8 | 4312.5 | 4374.4 | 4239.7 | 3087.4 |
| 45° | 3737.2 | 3706.2 | 3728.0 | 3890.2 | 4078.3 | 4344.3 | 4672.9 | 4614.4 | 4594.3 | 4481.4 | 3373.4 |
| 47.5° | 3449.5 | 3481.3 | 3549.0 | 3748.9 | 4031.5 | 4387.8 | 4875.3 | 4861.9 | 4922.1 | 4842.7 | 3633.5 |
| 50° | 3050.6 | 3038.1 | 3168.5 | 3393.5 | 3758.1 | 4302.5 | 4864.4 | 4985.7 | 5115.3 | 5004.9 | 3749.7 |
| 52.5° | 2284.6 | 2351.5 | 2463.6 | 2742.9 | 3263.0 | 3837.5 | 4626.9 | 4829.3 | 4934.7 | 4911.2 | 3656.0 |
| 55° | 1444.2 | 1464.3 | 1532.0 | 1864.0 | 2332.3 | 3079.9 | 3966.3 | 4435.4 | 4623.6 | 4711.4 | 3569.9 |
| 57.5° | 701.6 | 664.0 | 746.8 | 1013.5 | 1347.2 | 2071.4 | 3059.0 | 3863.4 | 4272.4 | 4431.2 | 3382.6 |
| 60° | 366.3 | 380.5 | 413.1 | 508.4 | 696.6 | 1075.4 | 1906.6 | 2574.8 | 3199.5 | 3443.6 | 2563.9 |
| 62.5° | 303.6 | 308.6 | 330.3 | 378.0 | 463.3 | 618.8 | 973.4 | 1255.2 | 1631.5 | 1851.4 | 1458.4 |
| 65° | 257.6 | 260.1 | 283.5 | 315.3 | 369.6 | 435.7 | 500.9 | 524.3 | 634.7 | 651.4 | 518.5 |
| 67.5° | 214.9 | 217.4 | 242.5 | 272.6 | 307.7 | 325.3 | 342.0 | 340.4 | 352.9 | 347.9 | 347.0 |
| 70° | 165.6 | 168.1 | 194.0 | 225.8 | 243.3 | 233.3 | 285.2 | 296.9 | 301.9 | 306.1 | 312.8 |
| 72.5° | 119.6 | 124.6 | 144.7 | 167.2 | 158.0 | 181.5 | 235.0 | 252.5 | 259.2 | 261.7 | 270.1 |
| 75° | 87.0 | 88.6 | 93.7 | 87.0 | 100.3 | 126.3 | 165.6 | 187.3 | 195.7 | 198.2 | 210.7 |
| 77.5° | 38.5 | 39.3 | 40.1 | 50.2 | 64.4 | 78.6 | 98.7 | 116.2 | 127.9 | 131.3 | 134.6 |
| 80° | 20.1 | 20.9 | 25.9 | 34.3 | 46.0 | 57.7 | 71.9 | 82.0 | 89.5 | 90.3 | 93.7 |
| 82.5° | 12.5 | 13.4 | 18.4 | 24.3 | 32.6 | 42.6 | 52.7 | 61.0 | 66.9 | 67.7 | 68.6 |
| 85° | 5.9 | 7.5 | 10.9 | 15.1 | 21.7 | 27.6 | 28.4 | 24.3 | 25.9 | 26.8 | 25.1 |
| 87.5° | 1.7 | 2.5 | 3.3 | 2.5 | 3.3 | 3.3 | 4.2 | 5.0 | 5.0 | 5.0 | 5.9 |
| 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° | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 | 940.8 |
| 2.5° | 955.8 | 948.3 | 919.0 | 908.2 | 879.7 | 884.7 | 869.7 | 868.9 | 865.5 | 864.7 | 863.8 |
| 5° | 979.2 | 955.8 | 920.7 | 893.9 | 878.1 | 876.4 | 865.5 | 865.5 | 868.9 | 871.4 | 865.5 |
| 7.5° | 1017.7 | 990.9 | 931.6 | 906.5 | 892.3 | 889.8 | 882.2 | 876.4 | 883.9 | 881.4 | 874.7 |
| 10° | 1062.0 | 1015.2 | 952.5 | 930.7 | 907.3 | 901.5 | 901.5 | 904.0 | 891.4 | 895.6 | 888.9 |
| 12.5° | 1111.4 | 1048.6 | 979.2 | 954.2 | 926.6 | 923.2 | 921.5 | 903.1 | 909.8 | 906.5 | 889.8 |
| 15° | 1174.1 | 1087.1 | 1013.5 | 970.9 | 947.5 | 932.4 | 910.7 | 907.3 | 903.1 | 894.8 | 887.3 |
| 17.5° | 1241.8 | 1128.9 | 1029.4 | 975.9 | 940.8 | 929.9 | 913.2 | 895.6 | 883.1 | 884.7 | 878.9 |
| 20° | 1299.5 | 1167.4 | 1035.3 | 980.9 | 935.8 | 914.8 | 888.9 | 878.1 | 864.7 | 863.8 | 863.0 |
| 22.5° | 1368.1 | 1219.2 | 1043.6 | 967.5 | 920.7 | 899.0 | 881.4 | 862.2 | 853.0 | 841.3 | 847.1 |
| 25° | 1450.0 | 1239.3 | 1045.3 | 960.0 | 909.8 | 871.4 | 862.2 | 841.3 | 837.9 | 821.2 | 824.5 |
| 27.5° | 1509.4 | 1250.2 | 1031.9 | 936.6 | 884.7 | 855.5 | 838.7 | 823.7 | 817.8 | 805.3 | 802.0 |
| 30° | 1588.9 | 1266.9 | 1003.5 | 907.3 | 859.7 | 827.0 | 817.0 | 813.7 | 796.9 | 783.6 | 781.9 |
| 32.5° | 1679.2 | 1277.8 | 985.1 | 877.2 | 833.7 | 808.6 | 813.7 | 797.8 | 776.9 | 765.2 | 761.8 |
| 35° | 1751.1 | 1282.0 | 939.1 | 842.9 | 816.2 | 800.3 | 794.4 | 791.1 | 761.0 | 750.1 | 741.7 |
| 37.5° | 1860.6 | 1272.8 | 900.6 | 818.7 | 796.9 | 791.1 | 786.1 | 763.5 | 729.2 | 713.3 | 701.6 |
| 40° | 1988.6 | 1270.3 | 851.3 | 784.4 | 778.5 | 785.2 | 770.2 | 735.1 | 687.4 | 669.8 | 661.5 |
| 42.5° | 2111.5 | 1287.8 | 820.4 | 766.0 | 758.5 | 761.0 | 740.1 | 687.4 | 664.0 | 653.9 | 640.6 |
| 45° | 2317.2 | 1324.6 | 769.3 | 737.6 | 734.2 | 732.5 | 707.5 | 652.3 | 638.9 | 626.3 | 623.8 |
| 47.5° | 2502.9 | 1300.4 | 736.7 | 708.3 | 711.6 | 702.4 | 648.9 | 631.4 | 616.3 | 603.8 | 599.6 |
| 50° | 2513.7 | 1242.7 | 690.7 | 685.7 | 686.6 | 670.7 | 619.7 | 607.9 | 588.7 | 580.4 | 574.5 |
| 52.5° | 2456.9 | 1148.2 | 648.1 | 649.8 | 652.3 | 626.3 | 583.7 | 575.3 | 559.4 | 547.7 | 544.4 |
| 55° | 2297.2 | 1001.0 | 606.3 | 613.0 | 619.7 | 570.3 | 556.9 | 536.0 | 523.5 | 506.8 | 507.6 |
| 57.5° | 2023.7 | 806.1 | 547.7 | 558.6 | 572.8 | 518.5 | 508.4 | 482.5 | 464.1 | 450.7 | 449.1 |
| 60° | 1356.4 | 573.7 | 459.9 | 464.1 | 495.9 | 474.1 | 473.3 | 447.4 | 422.3 | 410.6 | 403.9 |
| 62.5° | 800.3 | 438.2 | 397.2 | 393.0 | 392.2 | 404.7 | 425.6 | 416.4 | 383.8 | 361.3 | 367.9 |
| 65° | 419.0 | 378.8 | 369.6 | 355.4 | 347.0 | 343.7 | 359.6 | 363.8 | 342.0 | 317.8 | 316.1 |
| 67.5° | 352.1 | 352.1 | 344.5 | 339.5 | 327.8 | 313.6 | 303.6 | 290.2 | 286.8 | 280.1 | 271.8 |
| 70° | 320.3 | 328.6 | 326.1 | 314.4 | 304.4 | 288.5 | 262.6 | 240.8 | 219.9 | 212.4 | 217.4 |
| 72.5° | 279.3 | 287.7 | 287.7 | 281.8 | 268.4 | 244.2 | 219.1 | 194.0 | 176.4 | 163.1 | 161.4 |
| 75° | 214.9 | 219.1 | 229.1 | 222.4 | 204.9 | 189.8 | 163.9 | 138.0 | 121.3 | 108.7 | 106.2 |
| 77.5° | 137.1 | 143.8 | 143.8 | 143.0 | 130.5 | 116.2 | 99.5 | 81.1 | 68.6 | 59.4 | 56.9 |
| 80° | 91.2 | 95.3 | 98.7 | 95.3 | 87.0 | 76.1 | 63.6 | 51.0 | 41.8 | 34.3 | 32.6 |
| 82.5° | 66.9 | 71.9 | 74.4 | 71.1 | 62.7 | 54.4 | 45.2 | 36.0 | 26.8 | 20.9 | 19.2 |
| 85° | 25.9 | 26.8 | 30.1 | 36.0 | 35.1 | 34.3 | 27.6 | 20.1 | 15.1 | 10.9 | 10.0 |
| 87.5° | 6.7 | 5.9 | 6.7 | 6.7 | 5.9 | 5.0 | 5.0 | 5.0 | 5.0 | 2.5 | 3.3 |
| 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)