

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: P527517

Luminaire Tested: **GALN-SA2C-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527517
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-SA2C-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8010 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

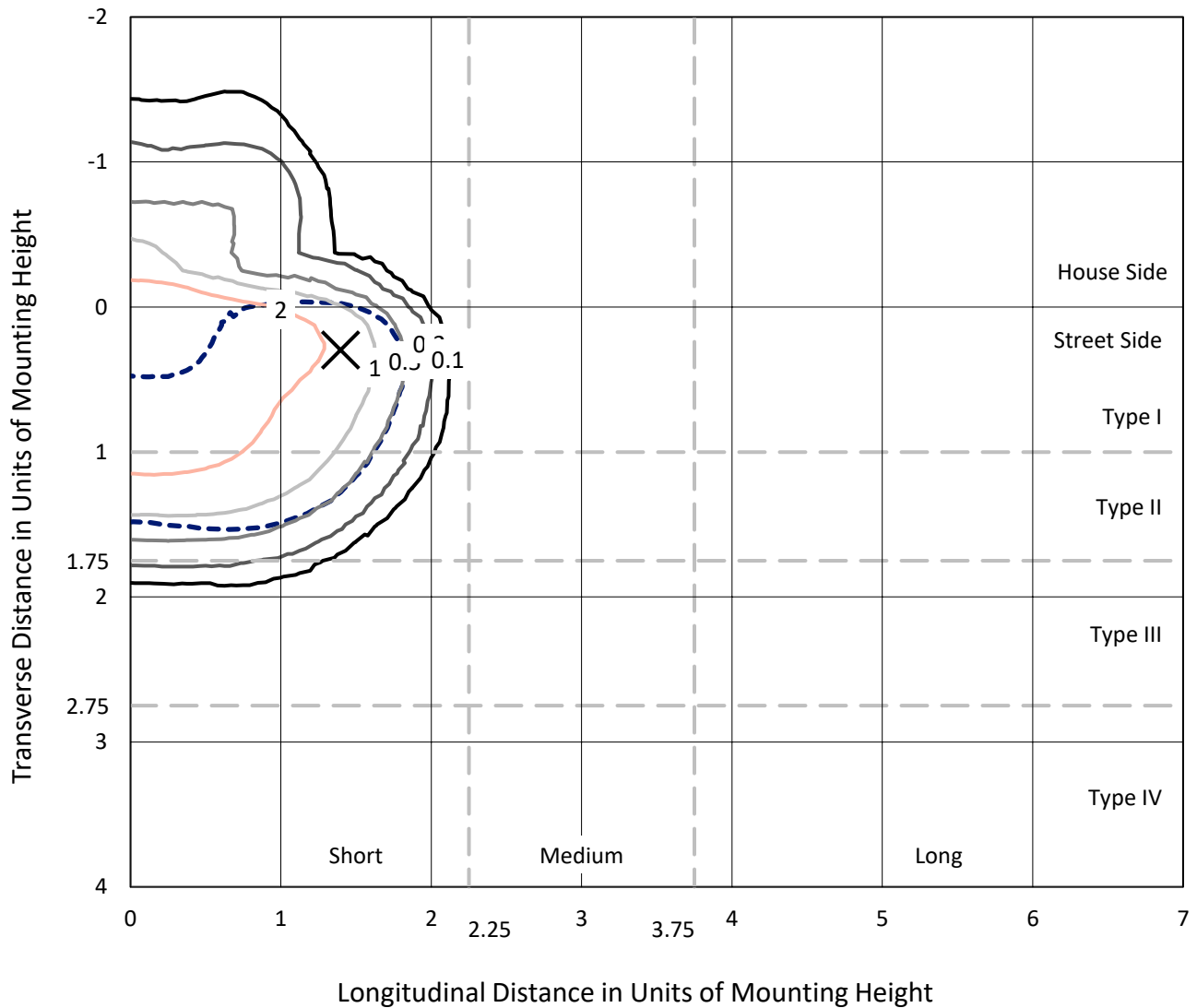
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

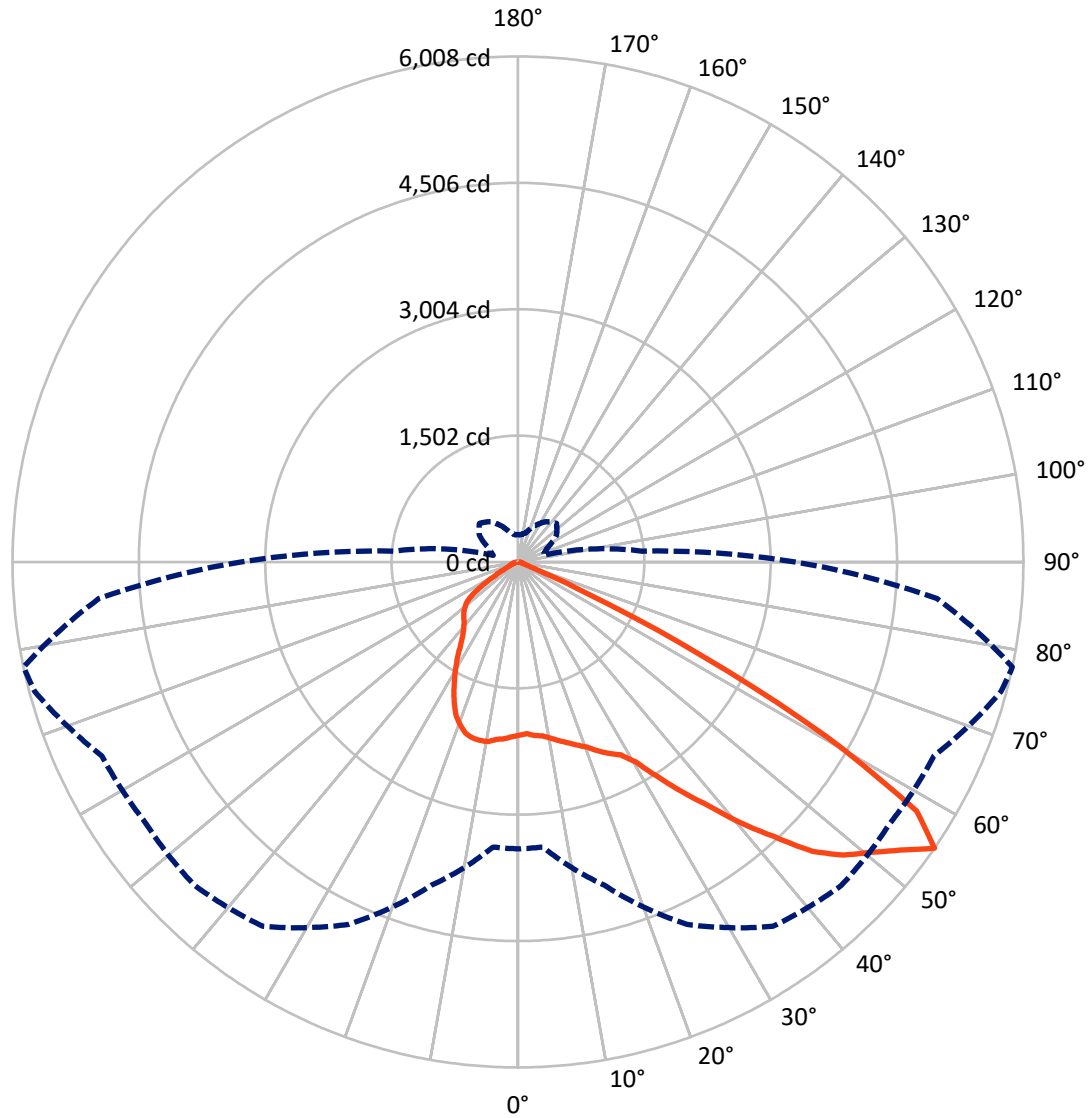
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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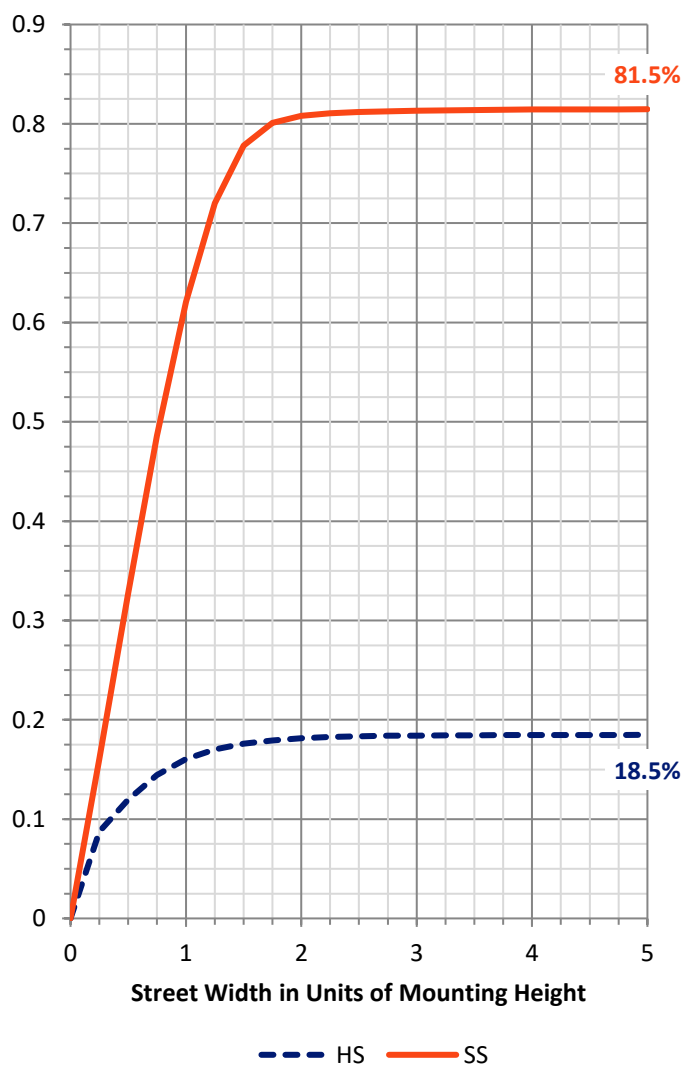
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1487.8 | 0.0 | 1487.8 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 6522.2 | 0.0 | 6522.2 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 8010.0 | 0.0 | 8010.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 183.6 | 2.3 |
| 10°-20° | 486.0 | 6.1 |
| 20°-30° | 851.8 | 10.6 |
| 30°-40° | 1404.6 | 17.5 |
| 40°-50° | 2043.8 | 25.5 |
| 50°-60° | 2315.9 | 28.9 |
| 60°-70° | 662.1 | 8.3 |
| 70°-80° | 51.4 | 0.6 |
| 80°-90° | 10.7 | 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° | 8010.0 | 100.0 |
| 0°-180° | 8010.0 | 100.0 |

Coefficient of Utilization



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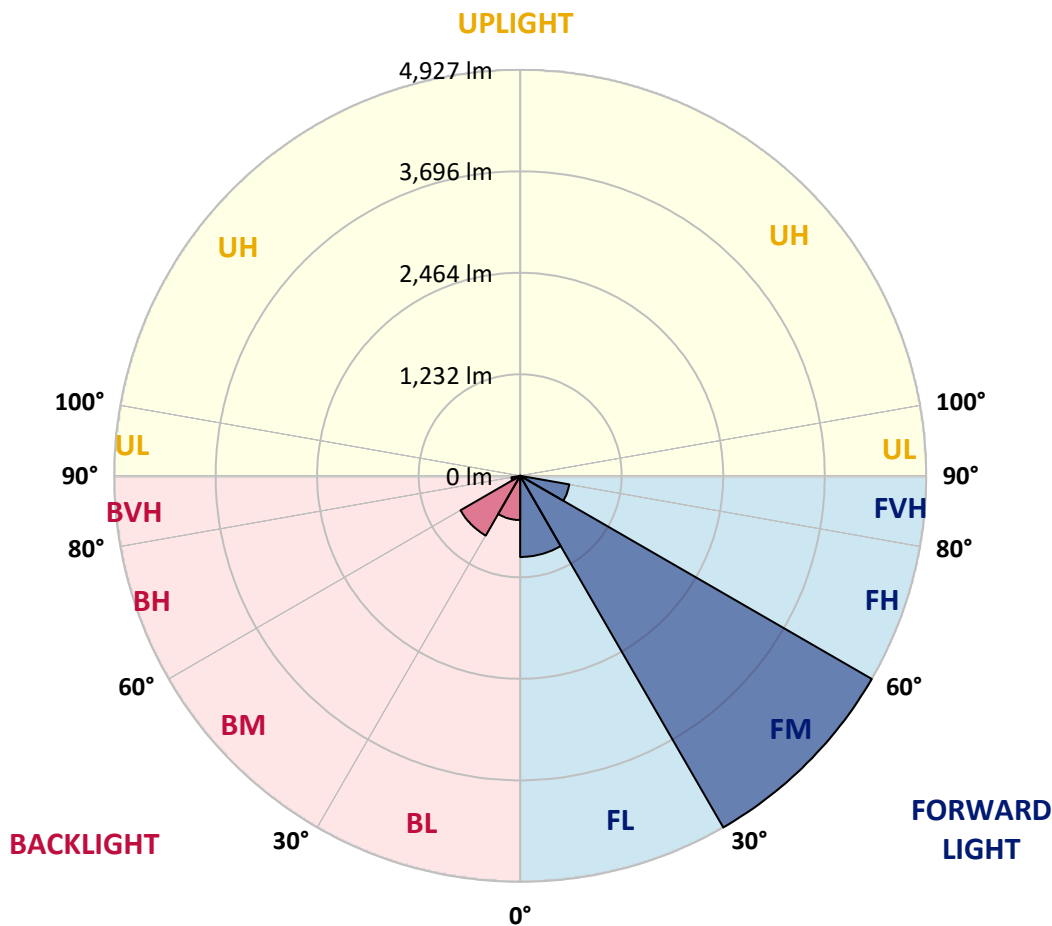
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 984.7 | 12.3 | | | |
| FM (30°-60°) | 4927.4 | 61.5 | | | |
| FH (60°-80°) | 605.0 | 7.6 | | | G0/660 |
| FVH (80°-90°) | 5.2 | 0.1 | | | G0/10 |
| BL (0°-30°) | 536.8 | 6.7 | B2/1000 | | |
| BM (30°-60°) | 836.9 | 10.4 | B1/1000 | | |
| BH (60°-80°) | 108.6 | 1.4 | B0/110 | | G0/110 |
| BVH (80°-90°) | 5.5 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 |
| 2.5° | 1936.2 | 1954.8 | 1957.7 | 1980.6 | 1979.2 | 2017.8 | 2029.3 | 2030.7 | 2056.5 | 2043.6 | 2076.6 |
| 5° | 1881.8 | 1871.8 | 1867.5 | 1907.6 | 1919.0 | 1953.4 | 1982.0 | 1999.2 | 2052.2 | 2070.8 | 2105.2 |
| 7.5° | 1833.1 | 1833.1 | 1836.0 | 1871.8 | 1867.5 | 1911.9 | 1941.9 | 1994.9 | 2072.3 | 2088.0 | 2129.5 |
| 10° | 1785.8 | 1768.7 | 1790.1 | 1827.4 | 1858.9 | 1878.9 | 1941.9 | 1992.1 | 2082.3 | 2128.1 | 2185.4 |
| 12.5° | 1761.5 | 1770.1 | 1773.0 | 1800.2 | 1834.5 | 1894.7 | 1929.1 | 2012.1 | 2153.9 | 2181.1 | 2242.7 |
| 15° | 1914.7 | 1897.5 | 1856.0 | 1831.7 | 1860.3 | 1889.0 | 1974.9 | 2059.4 | 2191.1 | 2229.8 | 2298.5 |
| 17.5° | 2092.3 | 2078.0 | 2043.6 | 1977.7 | 1913.3 | 1966.3 | 2033.6 | 2110.9 | 2231.2 | 2288.5 | 2390.2 |
| 20° | 2324.3 | 2301.4 | 2267.0 | 2138.1 | 2082.3 | 2025.0 | 2096.6 | 2188.3 | 2297.1 | 2348.7 | 2453.2 |
| 22.5° | 2600.7 | 2600.7 | 2523.4 | 2367.3 | 2251.3 | 2196.9 | 2226.9 | 2279.9 | 2370.1 | 2440.3 | 2543.4 |
| 25° | 2888.6 | 2880.0 | 2809.8 | 2648.0 | 2451.8 | 2387.3 | 2421.7 | 2458.9 | 2483.3 | 2521.9 | 2590.7 |
| 27.5° | 3218.0 | 3167.8 | 3079.0 | 2900.0 | 2726.7 | 2602.1 | 2639.4 | 2606.4 | 2576.4 | 2596.4 | 2695.2 |
| 30° | 3441.4 | 3472.9 | 3359.7 | 3187.9 | 3024.6 | 2885.7 | 2892.9 | 2864.2 | 2726.7 | 2755.4 | 2814.1 |
| 32.5° | 3673.4 | 3693.4 | 3630.4 | 3535.9 | 3372.6 | 3210.8 | 3152.1 | 3127.7 | 3024.6 | 3037.5 | 2980.2 |
| 35° | 3866.7 | 3905.4 | 3849.5 | 3808.0 | 3760.7 | 3630.4 | 3468.6 | 3547.3 | 3381.2 | 3349.7 | 3200.8 |
| 37.5° | 4044.3 | 4032.8 | 4098.7 | 4055.7 | 4045.7 | 3954.1 | 3776.5 | 3792.2 | 3680.5 | 3673.4 | 3501.5 |
| 40° | 4203.2 | 4206.1 | 4296.3 | 4316.4 | 4276.3 | 4113.0 | 3855.2 | 3979.8 | 4070.1 | 4078.7 | 3858.1 |
| 42.5° | 4335.0 | 4373.7 | 4451.0 | 4612.8 | 4552.7 | 4280.6 | 3936.9 | 4072.9 | 4408.0 | 4461.0 | 4196.1 |
| 45° | 4449.6 | 4528.3 | 4624.3 | 4768.9 | 4734.6 | 4518.3 | 4140.2 | 4264.8 | 4768.9 | 4907.8 | 4514.0 |
| 47.5° | 4456.7 | 4559.8 | 4664.4 | 4879.2 | 4922.2 | 4645.8 | 4350.8 | 4568.4 | 5055.4 | 5205.7 | 4746.0 |
| 50° | 4428.1 | 4482.5 | 4691.6 | 4925.0 | 5022.4 | 4853.4 | 4645.8 | 4823.4 | 5333.2 | 5427.7 | 4863.4 |
| 52.5° | 4088.7 | 4130.2 | 4549.8 | 4968.0 | 5202.9 | 5088.3 | 5036.7 | 5178.5 | 5616.7 | 5686.9 | 4973.7 |
| 55° | 3408.4 | 3401.3 | 3978.4 | 4751.7 | 5285.9 | 5436.3 | 5404.8 | 5454.9 | 5944.7 | 6007.7 | 5000.9 |
| 57.5° | 2331.5 | 2461.8 | 2960.2 | 3956.9 | 4777.5 | 5354.7 | 5387.6 | 5304.5 | 5562.3 | 5586.7 | 4359.3 |
| 60° | 1257.4 | 1311.8 | 1712.8 | 2640.8 | 3637.6 | 4363.6 | 4449.6 | 4299.2 | 4279.1 | 4210.4 | 3112.0 |
| 62.5° | 499.8 | 527.0 | 754.7 | 1307.5 | 1982.0 | 2652.3 | 2837.0 | 2775.4 | 2643.7 | 2463.2 | 1611.1 |
| 65° | 237.7 | 254.9 | 375.2 | 611.5 | 879.3 | 1105.6 | 1290.3 | 1347.6 | 993.9 | 895.1 | 531.3 |
| 67.5° | 161.8 | 174.7 | 273.5 | 349.4 | 313.6 | 328.0 | 426.8 | 396.7 | 233.4 | 199.1 | 147.5 |
| 70° | 123.2 | 131.8 | 219.1 | 237.7 | 140.3 | 98.8 | 110.3 | 103.1 | 96.0 | 97.4 | 96.0 |
| 72.5° | 87.4 | 94.5 | 160.4 | 140.3 | 61.6 | 45.8 | 58.7 | 70.2 | 70.2 | 70.2 | 68.7 |
| 75° | 53.0 | 60.1 | 93.1 | 54.4 | 24.3 | 24.3 | 37.2 | 47.3 | 50.1 | 51.6 | 48.7 |
| 77.5° | 27.2 | 34.4 | 31.5 | 15.8 | 15.8 | 18.6 | 27.2 | 32.9 | 35.8 | 35.8 | 34.4 |
| 80° | 5.7 | 5.7 | 5.7 | 8.6 | 15.8 | 20.0 | 27.2 | 30.1 | 34.4 | 34.4 | 31.5 |
| 82.5° | 0.0 | 1.4 | 4.3 | 8.6 | 14.3 | 18.6 | 25.8 | 30.1 | 34.4 | 35.8 | 32.9 |
| 85° | 0.0 | 1.4 | 2.9 | 5.7 | 10.0 | 11.5 | 10.0 | 8.6 | 8.6 | 8.6 | 8.6 |
| 87.5° | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| 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° | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 | 2059.4 |
| 2.5° | 2079.4 | 2083.7 | 2076.6 | 2075.1 | 2069.4 | 2086.6 | 2045.1 | 2035.0 | 2060.8 | 2036.5 | 2042.2 |
| 5° | 2106.6 | 2116.7 | 2103.8 | 2082.3 | 2050.8 | 2002.1 | 1960.6 | 1906.1 | 1880.4 | 1861.7 | 1858.9 |
| 7.5° | 2126.7 | 2133.8 | 2121.0 | 2052.2 | 1957.7 | 1834.5 | 1742.9 | 1675.6 | 1622.6 | 1606.8 | 1581.1 |
| 10° | 2208.3 | 2209.7 | 2145.3 | 1993.5 | 1808.8 | 1646.9 | 1506.6 | 1403.5 | 1350.5 | 1317.5 | 1303.2 |
| 12.5° | 2262.7 | 2259.9 | 2129.5 | 1877.5 | 1631.2 | 1416.4 | 1256.0 | 1131.4 | 1082.7 | 1066.9 | 1056.9 |
| 15° | 2331.5 | 2315.7 | 2092.3 | 1758.6 | 1402.0 | 1170.0 | 1025.4 | 939.5 | 935.2 | 925.1 | 935.2 |
| 17.5° | 2385.9 | 2341.5 | 2037.9 | 1542.4 | 1182.9 | 963.8 | 869.3 | 875.0 | 886.5 | 896.5 | 897.9 |
| 20° | 2474.7 | 2383.0 | 1913.3 | 1353.3 | 979.6 | 826.3 | 824.9 | 850.7 | 879.3 | 890.8 | 902.2 |
| 22.5° | 2542.0 | 2400.2 | 1780.1 | 1151.4 | 813.4 | 770.5 | 794.8 | 833.5 | 855.0 | 866.4 | 883.6 |
| 25° | 2566.3 | 2353.0 | 1602.5 | 949.5 | 733.2 | 744.7 | 781.9 | 807.7 | 834.9 | 847.8 | 840.6 |
| 27.5° | 2590.7 | 2328.6 | 1390.6 | 781.9 | 690.3 | 727.5 | 759.0 | 784.8 | 793.4 | 810.6 | 822.0 |
| 30° | 2649.4 | 2244.1 | 1200.1 | 676.0 | 668.8 | 716.1 | 739.0 | 747.6 | 770.5 | 780.5 | 780.5 |
| 32.5° | 2696.7 | 2211.2 | 998.2 | 625.8 | 665.9 | 721.8 | 724.6 | 724.6 | 727.5 | 720.4 | 717.5 |
| 35° | 2794.0 | 2098.0 | 817.7 | 595.8 | 664.5 | 723.2 | 730.4 | 706.0 | 640.2 | 614.4 | 607.2 |
| 37.5° | 2914.3 | 2025.0 | 684.5 | 588.6 | 674.5 | 740.4 | 751.9 | 660.2 | 574.3 | 532.7 | 525.6 |
| 40° | 3060.4 | 1973.4 | 597.2 | 585.7 | 697.4 | 780.5 | 746.1 | 624.4 | 512.7 | 452.5 | 449.7 |
| 42.5° | 3230.8 | 1926.2 | 538.5 | 584.3 | 726.1 | 822.0 | 740.4 | 594.3 | 449.7 | 409.6 | 415.3 |
| 45° | 3366.9 | 1900.4 | 498.4 | 574.3 | 736.1 | 846.4 | 744.7 | 541.3 | 423.9 | 398.1 | 401.0 |
| 47.5° | 3472.9 | 1846.0 | 465.4 | 557.1 | 734.7 | 855.0 | 706.0 | 519.9 | 411.0 | 418.2 | 425.3 |
| 50° | 3475.7 | 1773.0 | 423.9 | 519.9 | 713.2 | 839.2 | 661.6 | 499.8 | 408.2 | 438.2 | 452.5 |
| 52.5° | 3437.1 | 1669.8 | 379.5 | 466.9 | 663.1 | 784.8 | 621.5 | 491.2 | 395.3 | 392.4 | 409.6 |
| 55° | 3299.6 | 1476.5 | 305.0 | 378.1 | 560.0 | 647.3 | 585.7 | 475.5 | 356.6 | 323.7 | 326.5 |
| 57.5° | 2666.6 | 1058.3 | 224.8 | 270.7 | 396.7 | 474.0 | 528.4 | 468.3 | 320.8 | 275.0 | 276.4 |
| 60° | 1651.2 | 600.1 | 164.7 | 184.7 | 244.9 | 287.9 | 428.2 | 435.4 | 286.4 | 232.0 | 229.1 |
| 62.5° | 847.8 | 296.4 | 127.5 | 130.3 | 150.4 | 169.0 | 293.6 | 365.2 | 259.2 | 220.5 | 220.5 |
| 65° | 283.6 | 146.1 | 111.7 | 100.2 | 100.2 | 104.5 | 177.6 | 253.5 | 219.1 | 184.7 | 184.7 |
| 67.5° | 121.7 | 108.8 | 97.4 | 87.4 | 80.2 | 75.9 | 100.2 | 147.5 | 163.3 | 140.3 | 134.6 |
| 70° | 94.5 | 91.7 | 84.5 | 73.0 | 63.0 | 57.3 | 58.7 | 75.9 | 93.1 | 90.2 | 87.4 |
| 72.5° | 70.2 | 70.2 | 67.3 | 57.3 | 48.7 | 41.5 | 38.7 | 40.1 | 44.4 | 45.8 | 47.3 |
| 75° | 48.7 | 50.1 | 50.1 | 44.4 | 35.8 | 30.1 | 25.8 | 21.5 | 17.2 | 14.3 | 12.9 |
| 77.5° | 32.9 | 34.4 | 37.2 | 32.9 | 27.2 | 20.0 | 15.8 | 11.5 | 7.2 | 2.9 | 2.9 |
| 80° | 28.6 | 32.9 | 35.8 | 32.9 | 28.6 | 21.5 | 15.8 | 8.6 | 4.3 | 0.0 | 0.0 |
| 82.5° | 30.1 | 32.9 | 37.2 | 31.5 | 27.2 | 20.0 | 15.8 | 10.0 | 4.3 | 1.4 | 0.0 |
| 85° | 7.2 | 7.2 | 8.6 | 10.0 | 12.9 | 14.3 | 11.5 | 7.2 | 4.3 | 1.4 | 0.0 |
| 87.5° | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 1.4 | 1.4 | 1.4 | 1.4 | 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)