

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: P458591

Luminaire Tested: **GALN-SA1C-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6754 lumens
Efficiency: N/A
Efficacy: 118.5 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

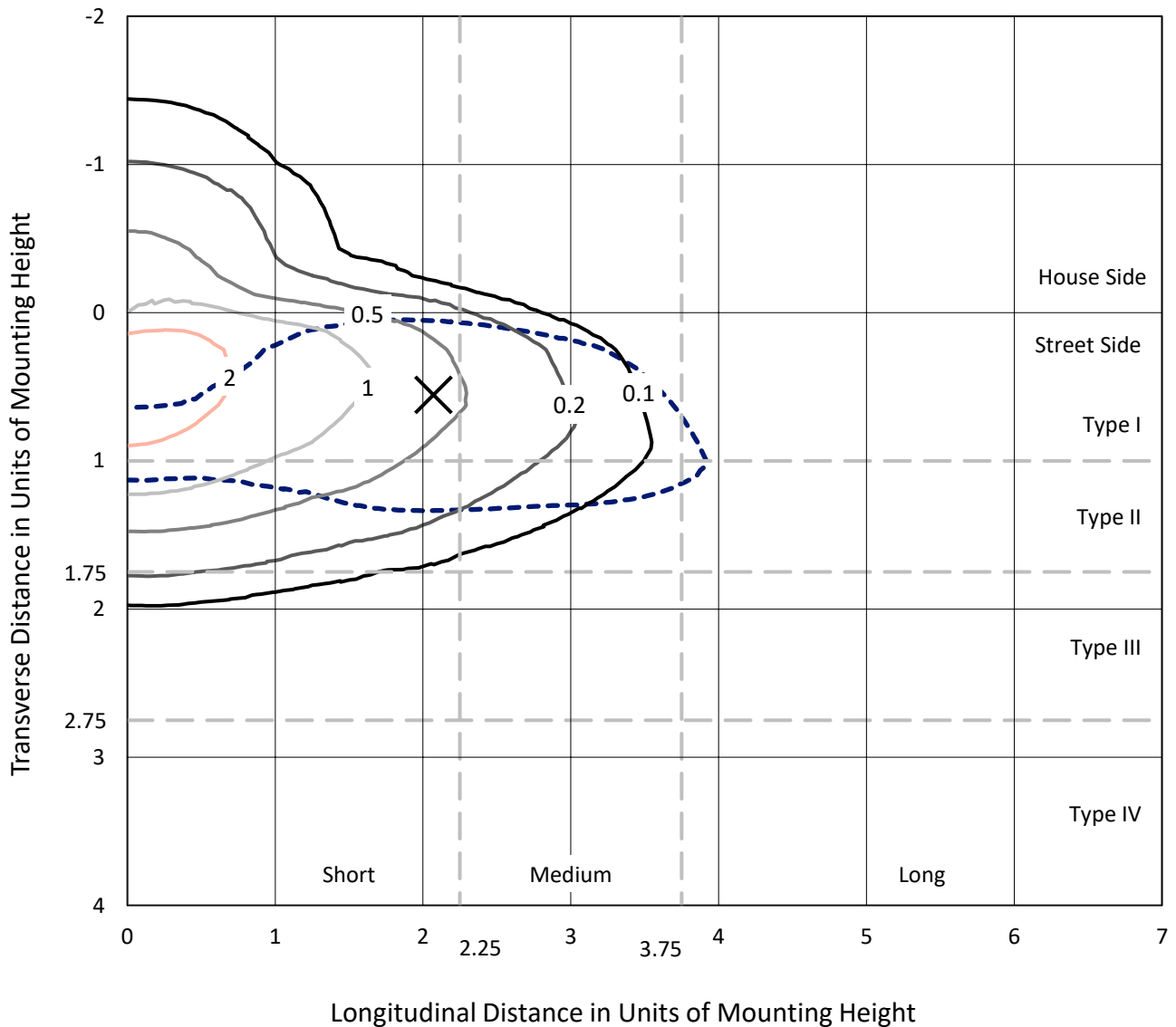
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

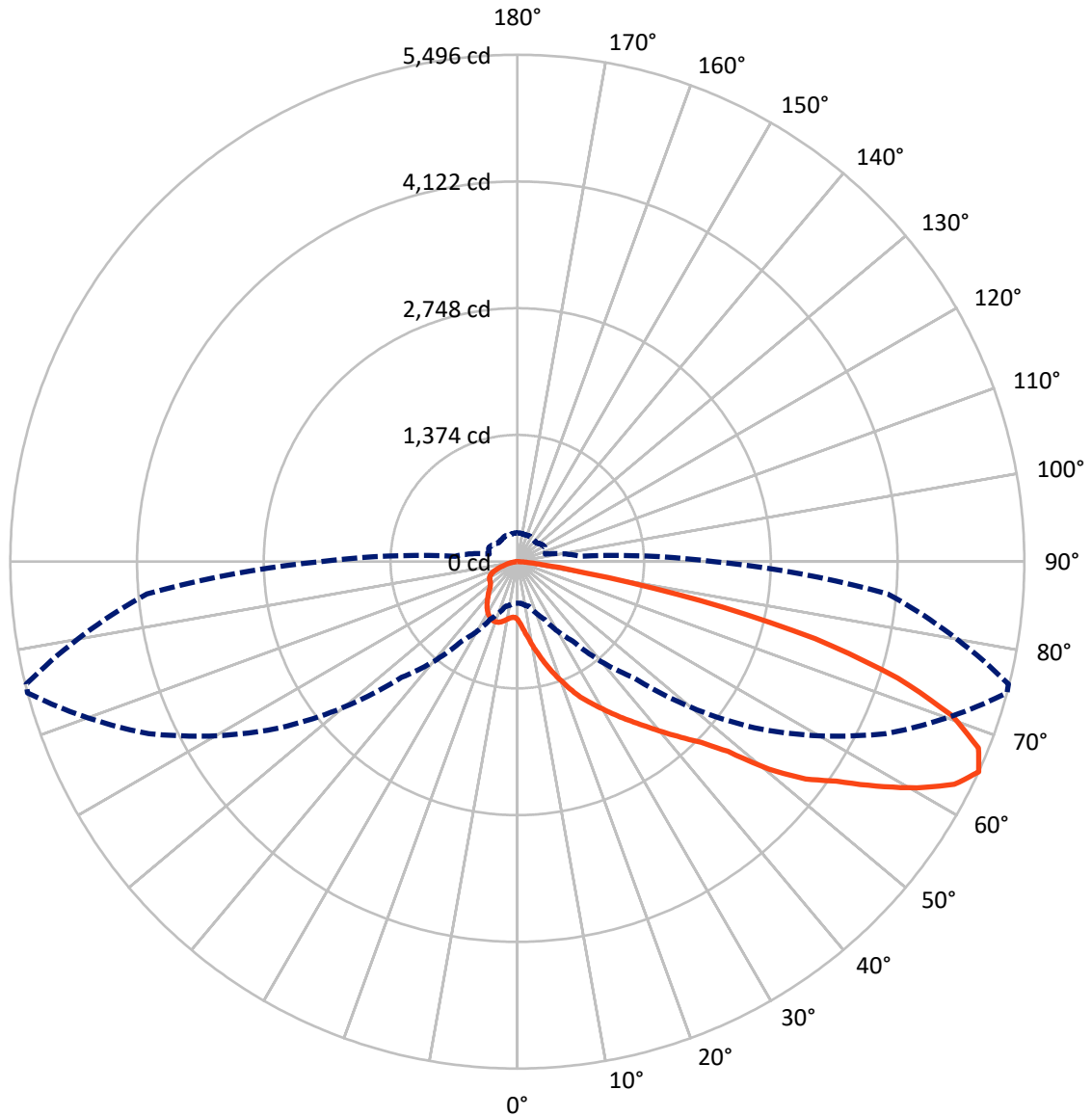
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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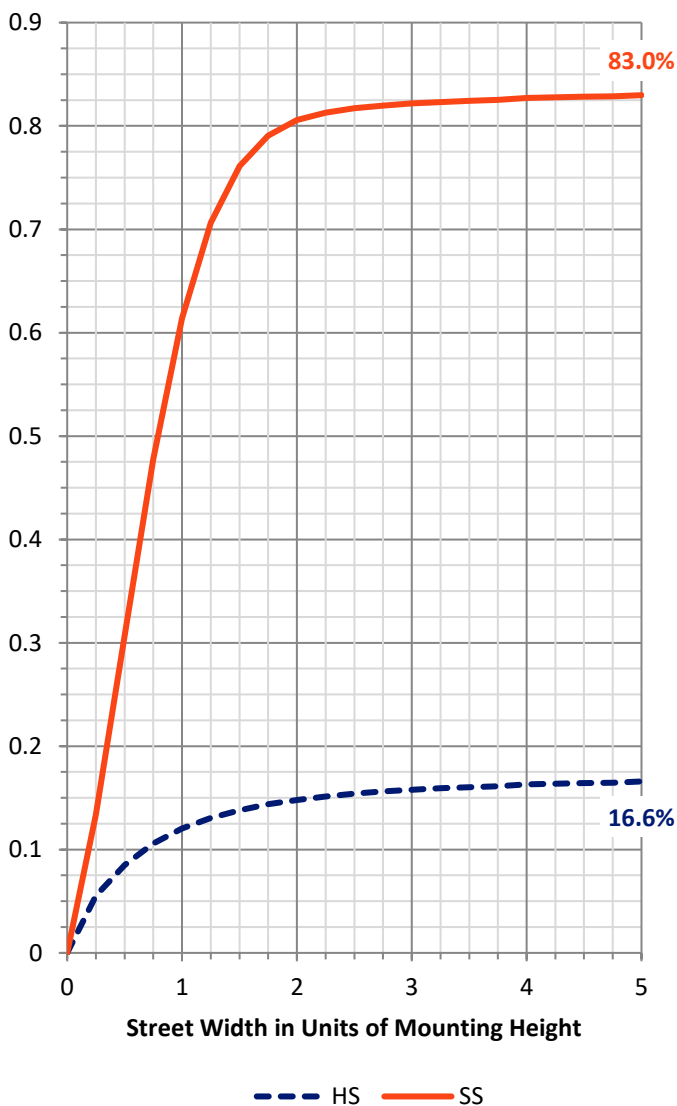
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1135.4 | 0.0 | 1135.4 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 5618.6 | 0.0 | 5618.6 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 6754.0 | 0.0 | 6754.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.2 | 1.1 |
| 10°-20° | 298.6 | 4.4 |
| 20°-30° | 576.9 | 8.5 |
| 30°-40° | 937.0 | 13.9 |
| 40°-50° | 1288.9 | 19.1 |
| 50°-60° | 1521.8 | 22.5 |
| 60°-70° | 1333.3 | 19.7 |
| 70°-80° | 636.5 | 9.4 |
| 80°-90° | 84.7 | 1.3 |
| 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° | 6754.0 | 100.0 |
| 0°-180° | 6754.0 | 100.0 |



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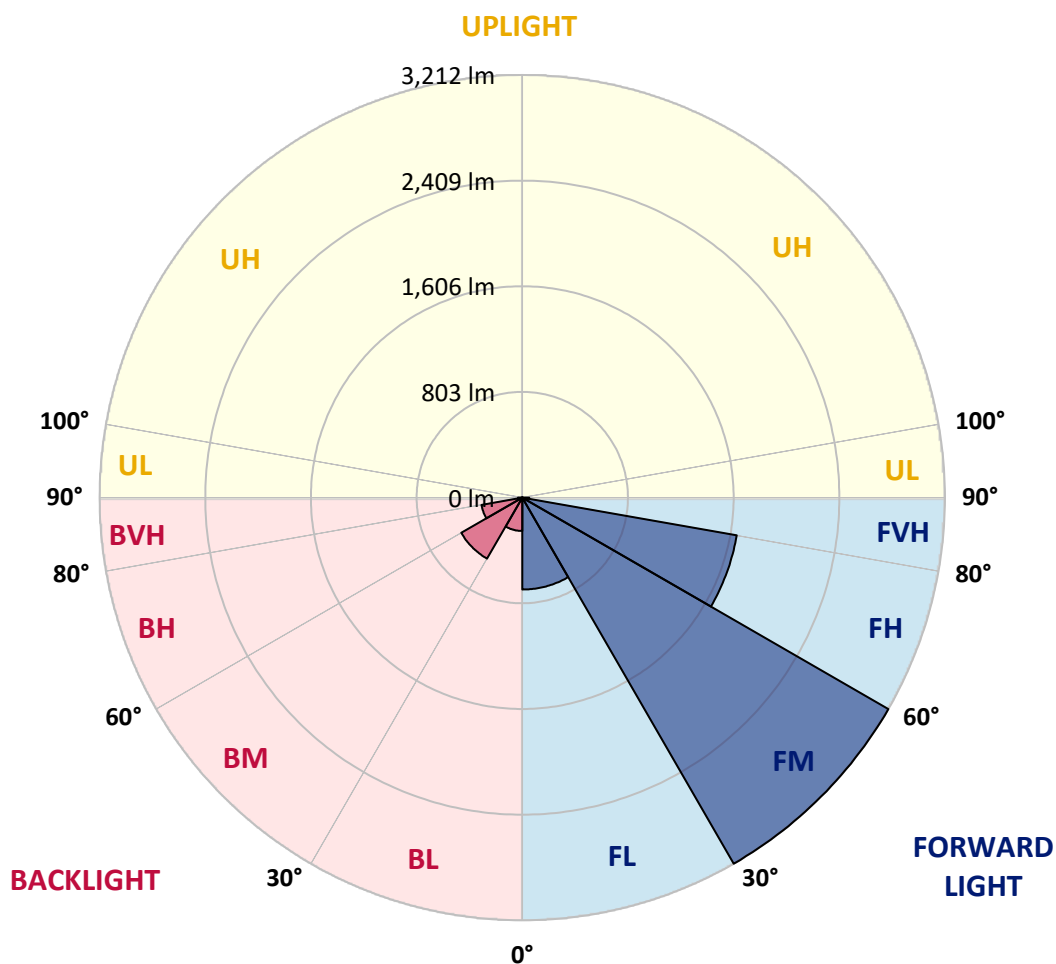
CATALOG NUMBER: GALN-SA1C-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 698.3 | 10.3 | | | |
| FM (30°-60°) | 3212.3 | 47.6 | | | |
| FH (60°-80°) | 1655.0 | 24.5 | | | G1/1800 |
| FVH (80°-90°) | 52.9 | 0.8 | | | G1/100 |
| BL (0°-30°) | 253.5 | 3.8 | B1/500 | | |
| BM (30°-60°) | 535.3 | 7.9 | B1/1000 | | |
| BH (60°-80°) | 314.8 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 31.8 | 0.5 | | | 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° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 |
| 2.5° | 833.8 | 828.3 | 822.4 | 806.3 | 789.1 | 769.7 | 741.8 | 715.1 | 679.6 | 678.5 | 652.1 |
| 5° | 1064.9 | 1061.3 | 1035.3 | 1020.2 | 980.3 | 927.2 | 882.1 | 812.2 | 747.3 | 739.6 | 688.3 |
| 7.5° | 1277.4 | 1263.1 | 1253.2 | 1226.1 | 1186.6 | 1118.4 | 1031.2 | 936.7 | 828.3 | 818.0 | 733.0 |
| 10° | 1437.5 | 1436.0 | 1430.9 | 1407.5 | 1377.8 | 1310.0 | 1213.3 | 1077.8 | 930.9 | 910.7 | 787.3 |
| 12.5° | 1557.3 | 1558.4 | 1557.7 | 1557.3 | 1536.0 | 1478.5 | 1373.8 | 1230.9 | 1034.5 | 1020.2 | 849.9 |
| 15° | 1636.1 | 1647.0 | 1651.4 | 1669.8 | 1671.6 | 1633.1 | 1543.0 | 1378.9 | 1151.4 | 1130.1 | 917.3 |
| 17.5° | 1688.1 | 1693.6 | 1714.1 | 1745.2 | 1770.5 | 1763.5 | 1683.3 | 1515.9 | 1270.8 | 1235.3 | 987.3 |
| 20° | 1737.9 | 1747.4 | 1763.2 | 1805.7 | 1850.4 | 1870.9 | 1814.5 | 1656.2 | 1389.1 | 1366.4 | 1064.6 |
| 22.5° | 1841.6 | 1855.1 | 1860.6 | 1882.2 | 1920.3 | 1956.6 | 1931.0 | 1790.6 | 1518.8 | 1488.1 | 1146.6 |
| 25° | 2017.0 | 2031.3 | 2015.9 | 2010.8 | 2023.3 | 2041.2 | 2035.7 | 1917.4 | 1641.2 | 1597.2 | 1224.3 |
| 27.5° | 2245.6 | 2247.5 | 2217.4 | 2188.9 | 2158.1 | 2148.9 | 2132.1 | 2029.9 | 1747.4 | 1710.8 | 1302.3 |
| 30° | 2491.1 | 2482.3 | 2432.5 | 2380.8 | 2328.8 | 2277.5 | 2229.1 | 2138.3 | 1865.7 | 1823.6 | 1378.9 |
| 32.5° | 2718.9 | 2714.2 | 2658.9 | 2578.6 | 2490.7 | 2442.4 | 2344.5 | 2247.8 | 1992.5 | 1951.8 | 1457.6 |
| 35° | 2889.7 | 2896.6 | 2835.8 | 2748.2 | 2652.3 | 2609.4 | 2485.9 | 2362.9 | 2123.6 | 2079.3 | 1543.4 |
| 37.5° | 3010.9 | 3007.2 | 2953.4 | 2877.6 | 2793.3 | 2755.9 | 2651.2 | 2488.5 | 2264.7 | 2222.2 | 1637.2 |
| 40° | 3054.1 | 3051.9 | 3012.0 | 2956.7 | 2903.2 | 2890.0 | 2824.1 | 2624.1 | 2426.2 | 2376.4 | 1750.0 |
| 42.5° | 3026.7 | 3031.4 | 3005.0 | 2990.0 | 2980.1 | 2989.7 | 2995.9 | 2801.7 | 2602.4 | 2556.7 | 1872.3 |
| 45° | 2942.4 | 2939.8 | 2936.2 | 2960.7 | 3016.4 | 3079.0 | 3165.9 | 2969.5 | 2794.0 | 2757.4 | 2036.5 |
| 47.5° | 2791.8 | 2810.2 | 2819.3 | 2887.1 | 3008.7 | 3157.1 | 3361.5 | 3194.4 | 3072.1 | 3040.2 | 2286.7 |
| 50° | 2581.2 | 2595.9 | 2650.1 | 2770.6 | 2951.9 | 3186.4 | 3552.7 | 3562.2 | 3535.9 | 3476.2 | 2558.5 |
| 52.5° | 2252.2 | 2274.9 | 2386.7 | 2607.6 | 2835.4 | 3174.3 | 3668.5 | 3877.7 | 3912.5 | 3867.8 | 2826.3 |
| 55° | 1884.1 | 1915.9 | 2033.9 | 2323.7 | 2675.0 | 3108.4 | 3748.3 | 4060.5 | 4199.3 | 4157.9 | 3084.2 |
| 57.5° | 1523.6 | 1557.3 | 1678.5 | 1959.2 | 2395.1 | 2962.6 | 3800.7 | 4264.1 | 4589.8 | 4536.0 | 3405.1 |
| 60° | 1141.9 | 1177.0 | 1281.1 | 1570.1 | 1996.5 | 2677.5 | 3765.2 | 4440.7 | 4980.0 | 4956.9 | 3726.4 |
| 62.5° | 736.7 | 775.5 | 866.0 | 1105.2 | 1534.6 | 2288.1 | 3575.1 | 4538.2 | 5317.7 | 5289.9 | 3960.8 |
| 65° | 448.8 | 453.2 | 503.0 | 686.1 | 1050.3 | 1771.6 | 3140.2 | 4408.8 | 5495.8 | 5487.3 | 4032.2 |
| 67.5° | 290.1 | 297.1 | 319.8 | 411.0 | 629.7 | 1230.5 | 2510.9 | 3982.1 | 5391.7 | 5388.8 | 3884.6 |
| 70° | 245.1 | 247.3 | 257.5 | 277.3 | 366.0 | 746.2 | 1763.2 | 3301.8 | 4996.4 | 4996.4 | 3529.6 |
| 72.5° | 219.1 | 222.0 | 225.7 | 231.9 | 261.2 | 422.8 | 1052.1 | 2570.2 | 4314.0 | 4342.5 | 3004.3 |
| 75° | 198.9 | 198.2 | 200.4 | 201.5 | 222.7 | 276.2 | 544.0 | 1900.9 | 3337.3 | 3280.2 | 2175.7 |
| 77.5° | 170.3 | 171.4 | 170.3 | 175.1 | 196.7 | 210.3 | 276.2 | 1275.6 | 2022.5 | 1948.5 | 1092.0 |
| 80° | 139.9 | 141.8 | 143.6 | 146.5 | 168.1 | 159.7 | 165.9 | 581.4 | 748.1 | 732.3 | 337.4 |
| 82.5° | 105.1 | 107.7 | 110.6 | 117.6 | 132.2 | 105.5 | 104.8 | 248.4 | 270.0 | 247.3 | 124.2 |
| 85° | 42.5 | 50.2 | 75.8 | 82.8 | 83.2 | 57.9 | 64.5 | 103.7 | 110.3 | 107.7 | 48.7 |
| 87.5° | 9.9 | 11.7 | 24.5 | 37.0 | 34.1 | 21.6 | 23.8 | 33.7 | 38.5 | 35.5 | 16.5 |
| 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° | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 | 627.5 |
| 2.5° | 640.0 | 627.2 | 605.2 | 588.3 | 576.2 | 565.6 | 559.0 | 555.0 | 553.5 | 553.2 | 553.5 |
| 5° | 661.6 | 638.9 | 604.1 | 582.1 | 570.0 | 563.1 | 559.0 | 558.7 | 559.0 | 559.4 | 558.3 |
| 7.5° | 691.3 | 658.7 | 613.2 | 592.7 | 583.6 | 578.4 | 576.6 | 575.9 | 576.2 | 575.9 | 575.9 |
| 10° | 730.8 | 686.1 | 631.2 | 609.9 | 602.3 | 596.4 | 593.5 | 591.6 | 590.2 | 588.7 | 588.0 |
| 12.5° | 774.4 | 716.6 | 650.6 | 630.1 | 619.1 | 609.9 | 603.4 | 598.6 | 595.3 | 592.0 | 591.3 |
| 15° | 823.2 | 748.8 | 672.2 | 643.7 | 627.9 | 614.3 | 603.0 | 595.3 | 589.4 | 584.7 | 584.3 |
| 17.5° | 869.7 | 779.2 | 686.9 | 649.9 | 626.8 | 607.7 | 592.7 | 582.1 | 574.8 | 568.6 | 567.8 |
| 20° | 919.5 | 808.1 | 693.5 | 645.8 | 615.8 | 592.7 | 572.9 | 560.1 | 551.7 | 544.7 | 543.6 |
| 22.5° | 969.7 | 832.7 | 692.7 | 633.0 | 596.8 | 569.7 | 548.8 | 535.2 | 525.3 | 518.4 | 515.8 |
| 25° | 1017.7 | 852.5 | 683.6 | 612.5 | 570.4 | 542.2 | 520.9 | 508.5 | 499.7 | 491.3 | 491.3 |
| 27.5° | 1060.9 | 864.2 | 666.4 | 587.6 | 543.3 | 513.6 | 496.8 | 485.4 | 477.3 | 471.8 | 468.5 |
| 30° | 1103.4 | 869.7 | 642.9 | 556.1 | 514.7 | 489.4 | 475.9 | 469.3 | 461.9 | 455.7 | 455.0 |
| 32.5° | 1141.5 | 868.6 | 613.6 | 525.3 | 487.6 | 469.6 | 464.1 | 459.0 | 451.3 | 442.5 | 440.3 |
| 35° | 1178.5 | 861.3 | 578.8 | 491.6 | 464.9 | 457.9 | 459.4 | 452.1 | 438.1 | 427.1 | 425.3 |
| 37.5° | 1218.8 | 848.1 | 540.7 | 464.1 | 445.8 | 452.4 | 456.1 | 440.0 | 417.3 | 400.0 | 396.0 |
| 40° | 1265.3 | 833.0 | 501.1 | 436.7 | 430.8 | 447.3 | 447.3 | 417.6 | 386.5 | 375.9 | 372.9 |
| 42.5° | 1319.9 | 820.6 | 468.2 | 413.6 | 418.4 | 434.8 | 433.0 | 387.9 | 375.1 | 369.6 | 368.2 |
| 45° | 1406.4 | 816.2 | 434.1 | 393.4 | 408.1 | 420.2 | 405.2 | 377.7 | 370.4 | 366.0 | 364.5 |
| 47.5° | 1543.0 | 821.3 | 404.1 | 378.4 | 396.4 | 405.5 | 374.0 | 370.7 | 365.6 | 359.4 | 358.6 |
| 50° | 1669.8 | 816.6 | 382.8 | 370.0 | 386.1 | 387.9 | 361.2 | 362.3 | 359.4 | 352.4 | 350.9 |
| 52.5° | 1773.4 | 801.5 | 369.3 | 365.6 | 377.3 | 357.2 | 349.1 | 353.1 | 352.0 | 343.3 | 341.8 |
| 55° | 1887.4 | 792.4 | 362.7 | 365.6 | 371.5 | 330.4 | 337.8 | 343.6 | 342.2 | 335.9 | 335.6 |
| 57.5° | 2025.5 | 794.2 | 357.9 | 366.7 | 365.6 | 316.9 | 326.4 | 333.4 | 333.0 | 331.2 | 331.2 |
| 60° | 2166.9 | 794.9 | 350.6 | 366.3 | 358.6 | 306.3 | 314.7 | 324.6 | 325.3 | 326.4 | 326.4 |
| 62.5° | 2213.8 | 763.1 | 336.3 | 359.7 | 343.3 | 296.0 | 303.7 | 317.2 | 316.5 | 319.4 | 319.8 |
| 65° | 2126.2 | 674.8 | 315.0 | 344.7 | 323.5 | 288.7 | 295.3 | 307.7 | 303.7 | 311.4 | 312.9 |
| 67.5° | 1935.3 | 558.3 | 282.1 | 317.6 | 301.5 | 281.0 | 289.8 | 294.5 | 287.2 | 302.2 | 302.6 |
| 70° | 1672.7 | 435.9 | 240.3 | 279.1 | 276.6 | 272.9 | 285.4 | 278.0 | 267.8 | 286.1 | 282.4 |
| 72.5° | 1398.7 | 333.0 | 192.0 | 228.2 | 243.2 | 260.8 | 277.7 | 256.8 | 242.5 | 248.0 | 241.4 |
| 75° | 1050.6 | 246.2 | 154.2 | 178.8 | 202.6 | 243.6 | 270.7 | 231.2 | 209.2 | 204.0 | 202.6 |
| 77.5° | 535.6 | 160.8 | 115.4 | 133.7 | 152.0 | 220.2 | 261.2 | 201.1 | 173.3 | 165.2 | 161.6 |
| 80° | 191.2 | 100.0 | 81.3 | 92.3 | 102.6 | 189.4 | 228.2 | 166.3 | 134.4 | 133.0 | 134.4 |
| 82.5° | 88.7 | 64.5 | 54.6 | 60.4 | 60.8 | 126.4 | 174.0 | 124.2 | 102.2 | 155.3 | 131.1 |
| 85° | 38.1 | 32.2 | 30.8 | 30.0 | 27.8 | 56.4 | 97.8 | 66.7 | 104.0 | 46.5 | 42.9 |
| 87.5° | 11.4 | 12.8 | 11.4 | 8.4 | 6.2 | 6.2 | 9.9 | 3.7 | 2.6 | 1.8 | 1.8 |
| 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)