

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: P451232

Luminaire Tested: **GALN-SA2A-750-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6653 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

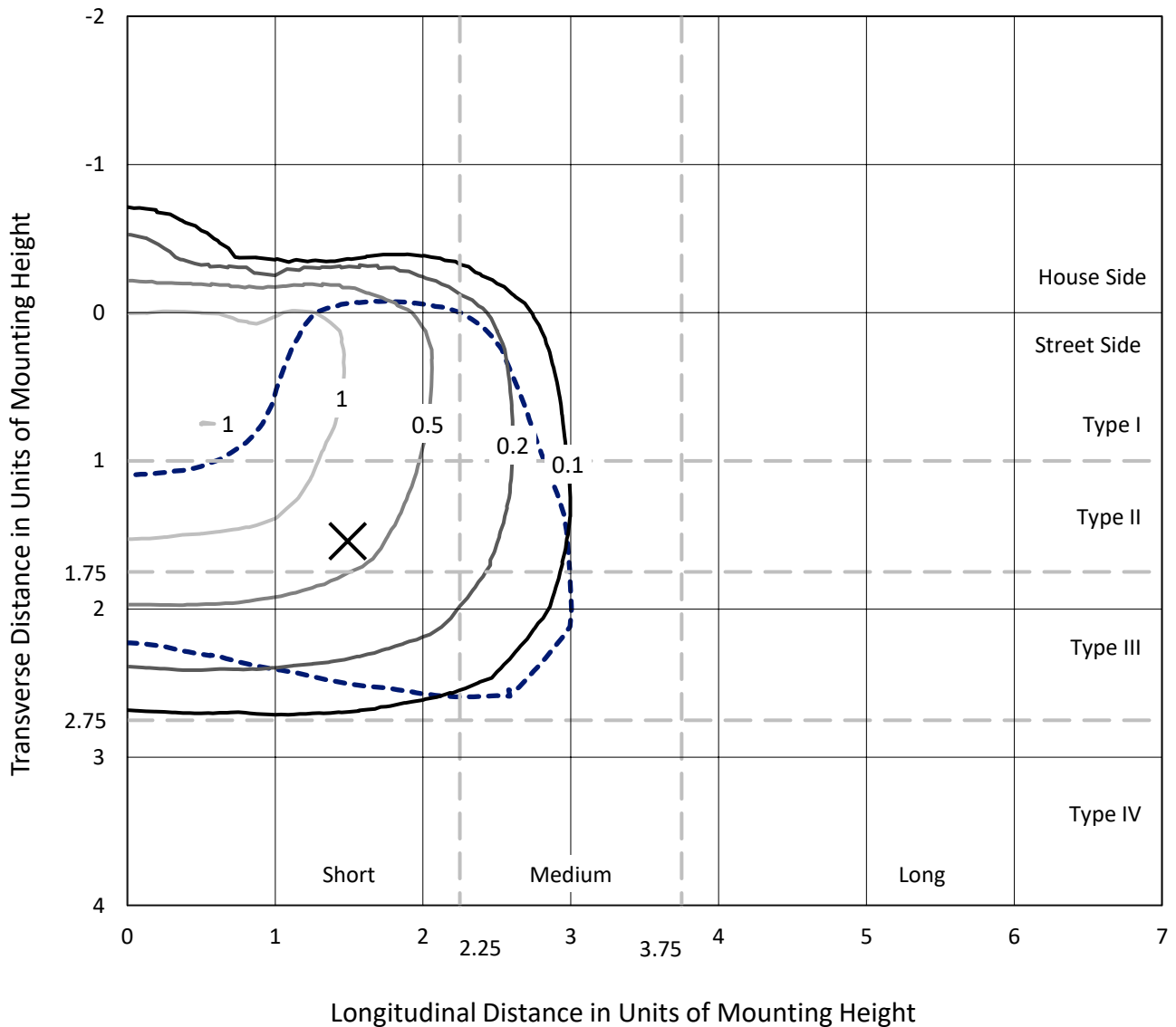
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

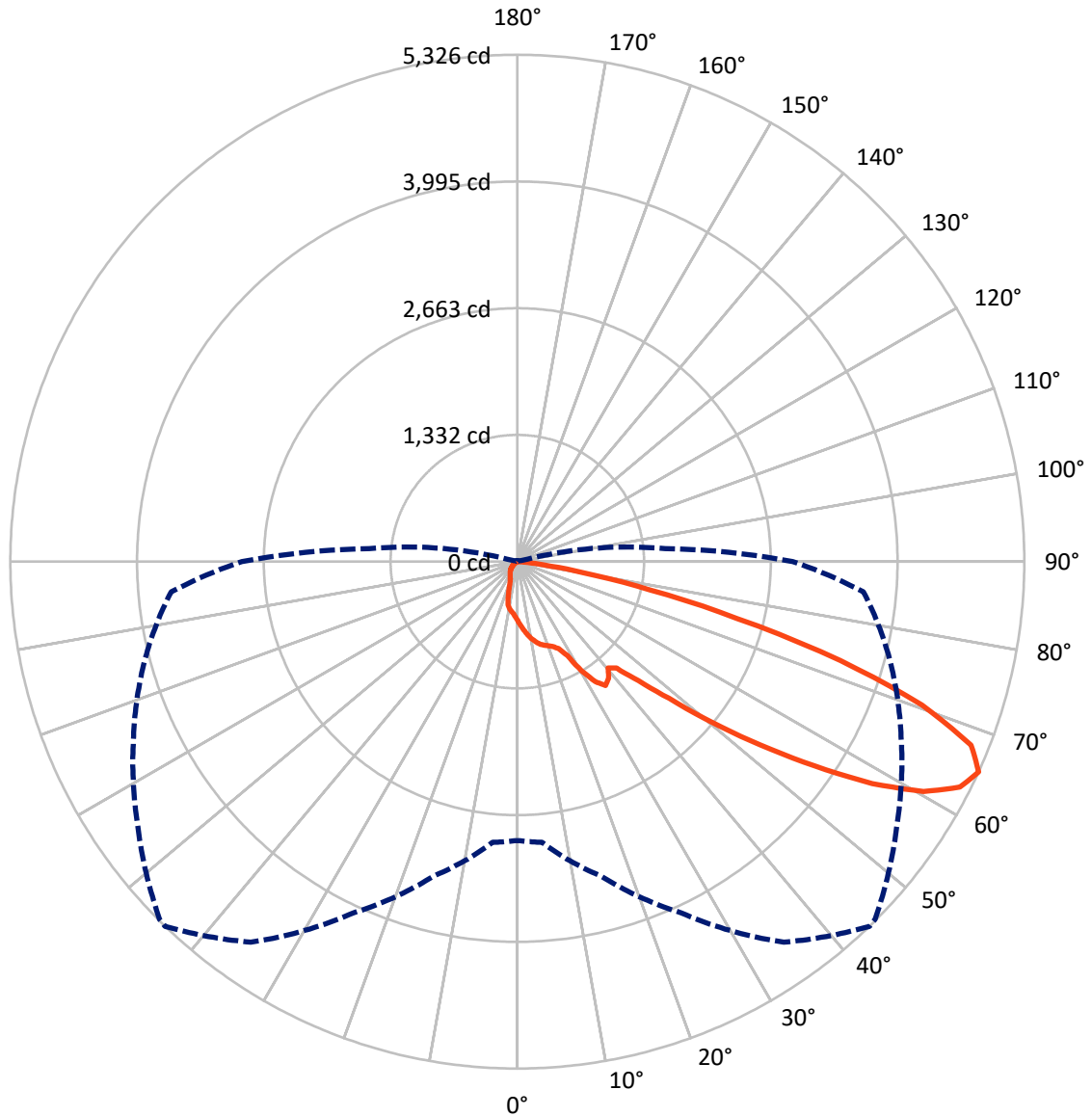
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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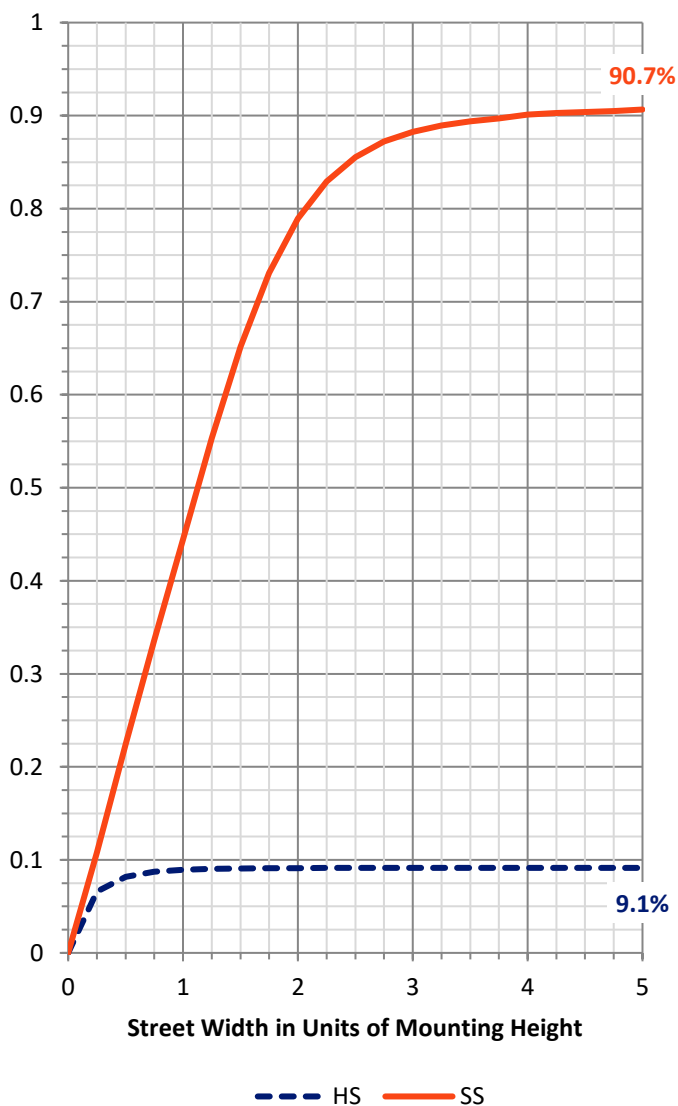
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 613.0 | 0.0 | 613.0 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 6040.0 | 0.0 | 6040.0 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 6653.0 | 0.0 | 6653.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.6 | 0.9 |
| 10°-20° | 185.4 | 2.8 |
| 20°-30° | 314.3 | 4.7 |
| 30°-40° | 522.6 | 7.9 |
| 40°-50° | 912.4 | 13.7 |
| 50°-60° | 1782.5 | 26.8 |
| 60°-70° | 2068.1 | 31.1 |
| 70°-80° | 753.1 | 11.3 |
| 80°-90° | 53.1 | 0.8 |
| 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° | 6653.0 | 100.0 |
| 0°-180° | 6653.0 | 100.0 |

Coefficient of Utilization



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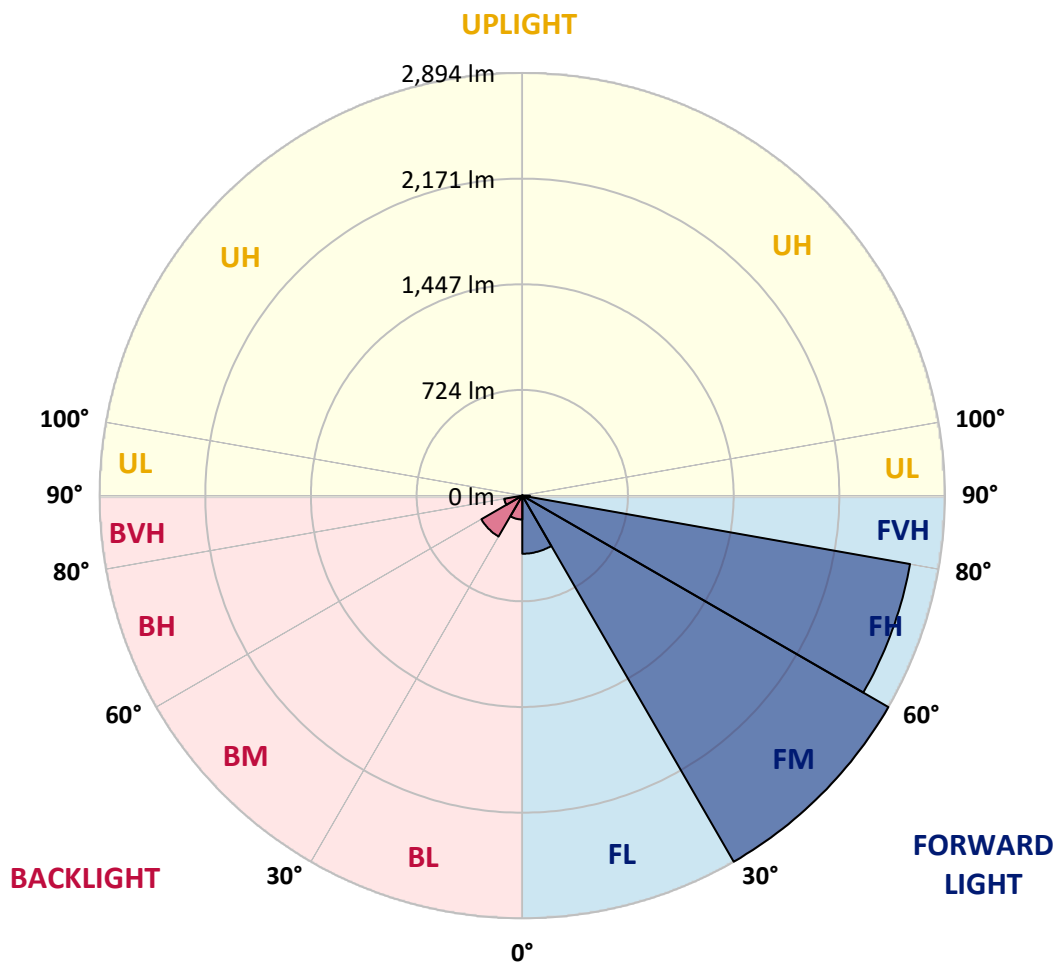
CATALOG NUMBER: GALN-SA2A-750-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 397.9 | 6.0 | | | |
| FM | (30°-60°) | 2894.1 | 43.5 | | | |
| FH | (60°-80°) | 2695.7 | 40.5 | | | G2/5000 |
| FVH | (80°-90°) | 52.3 | 0.8 | | | G1/100 |
| BL | (0°-30°) | 163.3 | 2.5 | B1/500 | | |
| BM | (30°-60°) | 323.4 | 4.9 | B1/1000 | | |
| BH | (60°-80°) | 125.5 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 0.7 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 |
| 2.5° | 697.0 | 693.9 | 692.4 | 684.3 | 678.2 | 670.5 | 670.5 | 660.9 | 649.7 | 637.5 | 626.3 |
| 5° | 774.8 | 769.7 | 763.1 | 755.9 | 741.7 | 721.4 | 721.4 | 701.0 | 677.7 | 656.8 | 633.9 |
| 7.5° | 849.5 | 844.9 | 833.7 | 820.0 | 796.6 | 775.3 | 773.7 | 744.3 | 716.3 | 684.8 | 652.2 |
| 10° | 915.1 | 911.5 | 901.9 | 875.4 | 851.0 | 823.1 | 822.5 | 789.5 | 757.0 | 718.3 | 678.2 |
| 12.5° | 960.8 | 961.3 | 948.6 | 923.2 | 891.7 | 865.2 | 863.2 | 830.7 | 796.6 | 754.9 | 705.6 |
| 15° | 993.4 | 993.4 | 980.1 | 951.7 | 923.2 | 899.8 | 897.8 | 869.3 | 834.2 | 789.0 | 735.6 |
| 17.5° | 1002.5 | 1005.6 | 991.3 | 965.9 | 943.0 | 922.7 | 922.2 | 898.3 | 870.3 | 826.6 | 766.1 |
| 20° | 998.9 | 1002.0 | 990.8 | 971.0 | 955.2 | 943.5 | 942.0 | 932.4 | 906.4 | 865.2 | 798.7 |
| 22.5° | 991.3 | 994.4 | 986.2 | 974.5 | 966.9 | 970.5 | 967.9 | 976.1 | 962.3 | 912.5 | 837.3 |
| 25° | 992.8 | 995.9 | 989.8 | 983.2 | 989.8 | 1011.7 | 1018.3 | 1053.3 | 1041.1 | 972.5 | 879.0 |
| 27.5° | 1040.6 | 1046.7 | 1038.1 | 1041.1 | 1064.5 | 1115.4 | 1128.1 | 1188.6 | 1134.7 | 1048.8 | 944.0 |
| 30° | 1146.9 | 1142.8 | 1126.6 | 1141.3 | 1222.6 | 1330.4 | 1326.8 | 1317.2 | 1232.8 | 1136.7 | 1021.3 |
| 32.5° | 1243.5 | 1239.9 | 1238.9 | 1302.4 | 1449.9 | 1502.2 | 1499.7 | 1406.2 | 1320.7 | 1237.4 | 1097.6 |
| 35° | 1282.6 | 1268.9 | 1265.8 | 1419.9 | 1666.4 | 1597.3 | 1581.5 | 1442.8 | 1427.5 | 1347.2 | 1175.4 |
| 37.5° | 1400.6 | 1390.9 | 1343.6 | 1439.2 | 1580.0 | 1557.1 | 1544.9 | 1505.8 | 1541.4 | 1444.3 | 1263.3 |
| 40° | 1643.6 | 1616.6 | 1573.9 | 1480.4 | 1457.5 | 1467.2 | 1479.4 | 1586.6 | 1676.1 | 1577.0 | 1380.7 |
| 42.5° | 1945.5 | 1939.4 | 1860.1 | 1685.8 | 1514.4 | 1527.7 | 1543.4 | 1755.4 | 1869.8 | 1776.8 | 1572.4 |
| 45° | 2308.0 | 2316.6 | 2202.3 | 1996.4 | 1771.7 | 1782.9 | 1805.7 | 2004.5 | 2132.1 | 2087.4 | 1873.9 |
| 47.5° | 2637.4 | 2630.8 | 2592.2 | 2378.2 | 2170.7 | 2145.8 | 2182.9 | 2324.3 | 2495.1 | 2502.2 | 2248.0 |
| 50° | 2968.9 | 3004.0 | 2946.5 | 2862.6 | 2708.6 | 2656.2 | 2642.5 | 2711.7 | 2971.9 | 2937.9 | 2697.4 |
| 52.5° | 3445.2 | 3463.5 | 3355.8 | 3334.4 | 3369.5 | 3199.7 | 3186.0 | 3202.7 | 3435.6 | 3318.6 | 3034.0 |
| 55° | 3744.7 | 3734.0 | 3693.8 | 3860.6 | 3999.4 | 3787.4 | 3770.1 | 3702.5 | 3820.4 | 3587.6 | 3357.8 |
| 57.5° | 3839.2 | 3854.5 | 3948.0 | 4249.5 | 4577.9 | 4397.9 | 4366.4 | 4174.2 | 4098.0 | 3838.2 | 3655.7 |
| 60° | 3797.0 | 3825.0 | 4026.8 | 4475.2 | 4930.7 | 4903.7 | 4876.8 | 4554.0 | 4297.3 | 4047.6 | 3864.6 |
| 62.5° | 3496.6 | 3535.7 | 3858.5 | 4435.0 | 5050.2 | 5218.4 | 5184.9 | 4790.9 | 4429.9 | 4149.3 | 3901.2 |
| 65° | 2930.3 | 2959.2 | 3422.9 | 4070.5 | 4880.4 | 5326.2 | 5314.0 | 4865.1 | 4450.8 | 4056.3 | 3650.6 |
| 67.5° | 2088.9 | 2187.5 | 2617.1 | 3430.5 | 4378.1 | 5142.2 | 5163.0 | 4776.1 | 4255.1 | 3654.2 | 3023.3 |
| 70° | 1313.1 | 1380.2 | 1688.3 | 2455.9 | 3509.8 | 4511.3 | 4579.9 | 4368.9 | 3692.8 | 2848.4 | 2023.8 |
| 72.5° | 626.3 | 676.1 | 895.7 | 1554.6 | 2477.3 | 3549.4 | 3603.8 | 3586.6 | 2855.5 | 1794.5 | 1044.2 |
| 75° | 279.1 | 297.9 | 427.5 | 793.6 | 1599.3 | 2385.8 | 2526.6 | 2550.0 | 1784.4 | 878.0 | 406.2 |
| 77.5° | 142.3 | 142.9 | 200.3 | 384.3 | 798.7 | 1423.4 | 1451.4 | 1533.2 | 967.4 | 386.9 | 141.3 |
| 80° | 75.7 | 80.8 | 106.2 | 181.5 | 414.3 | 701.0 | 697.5 | 766.6 | 429.1 | 189.6 | 47.3 |
| 82.5° | 34.1 | 37.6 | 60.0 | 95.1 | 202.3 | 265.9 | 286.7 | 313.7 | 184.0 | 121.0 | 20.8 |
| 85° | 10.2 | 12.2 | 29.5 | 47.8 | 73.2 | 76.8 | 85.9 | 110.8 | 104.2 | 85.9 | 10.7 |
| 87.5° | 1.5 | 1.5 | 12.2 | 13.2 | 10.7 | 13.7 | 14.2 | 15.8 | 33.6 | 31.5 | 5.6 |
| 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° | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 | 619.2 |
| 2.5° | 620.2 | 616.7 | 603.9 | 593.3 | 584.1 | 578.5 | 571.9 | 567.9 | 565.8 | 564.3 | 564.8 |
| 5° | 622.8 | 614.1 | 592.3 | 575.0 | 561.7 | 547.5 | 537.9 | 532.3 | 529.7 | 525.7 | 525.7 |
| 7.5° | 637.0 | 623.3 | 592.8 | 566.3 | 543.4 | 524.1 | 505.8 | 499.2 | 494.6 | 493.6 | 492.6 |
| 10° | 657.3 | 640.0 | 598.4 | 561.7 | 529.2 | 502.8 | 476.9 | 454.0 | 436.2 | 425.5 | 424.0 |
| 12.5° | 682.7 | 657.8 | 607.0 | 558.7 | 517.0 | 470.2 | 401.6 | 355.4 | 324.3 | 314.7 | 316.2 |
| 15° | 706.1 | 679.2 | 615.6 | 556.2 | 494.6 | 389.9 | 312.1 | 259.3 | 243.5 | 242.0 | 242.5 |
| 17.5° | 734.1 | 702.1 | 625.8 | 552.6 | 433.1 | 297.9 | 231.8 | 217.6 | 220.6 | 225.7 | 225.2 |
| 20° | 763.1 | 726.5 | 638.0 | 531.2 | 345.7 | 224.2 | 204.9 | 206.4 | 211.0 | 215.5 | 216.6 |
| 22.5° | 794.1 | 754.4 | 652.2 | 479.9 | 263.8 | 195.2 | 194.2 | 196.2 | 200.8 | 205.9 | 206.9 |
| 25° | 836.8 | 789.5 | 662.9 | 412.8 | 199.8 | 180.5 | 182.5 | 186.1 | 190.1 | 195.7 | 196.7 |
| 27.5° | 891.7 | 836.8 | 668.5 | 325.4 | 172.8 | 167.3 | 167.8 | 172.8 | 177.9 | 183.0 | 183.0 |
| 30° | 962.9 | 893.2 | 657.3 | 246.1 | 159.6 | 154.5 | 152.5 | 155.6 | 162.2 | 167.3 | 167.8 |
| 32.5° | 1026.4 | 946.6 | 627.8 | 188.1 | 150.0 | 142.9 | 137.8 | 138.3 | 140.8 | 143.9 | 144.4 |
| 35° | 1089.9 | 998.4 | 577.5 | 158.1 | 139.8 | 131.7 | 124.0 | 120.0 | 117.9 | 116.4 | 117.9 |
| 37.5° | 1171.3 | 1063.0 | 510.4 | 143.9 | 131.2 | 121.0 | 110.3 | 101.7 | 94.6 | 90.0 | 91.0 |
| 40° | 1276.0 | 1152.5 | 431.1 | 134.7 | 123.0 | 110.8 | 96.6 | 85.4 | 73.2 | 69.1 | 67.1 |
| 42.5° | 1448.9 | 1288.2 | 347.7 | 127.1 | 114.9 | 100.1 | 82.4 | 67.1 | 55.9 | 51.9 | 52.9 |
| 45° | 1721.9 | 1459.5 | 267.9 | 119.0 | 106.8 | 88.5 | 69.1 | 52.9 | 43.7 | 41.7 | 42.7 |
| 47.5° | 2083.8 | 1681.2 | 206.4 | 109.8 | 96.6 | 75.7 | 54.4 | 41.7 | 36.1 | 35.6 | 35.1 |
| 50° | 2424.4 | 1887.6 | 172.3 | 99.6 | 84.4 | 63.0 | 44.7 | 35.1 | 31.5 | 31.0 | 31.0 |
| 52.5° | 2732.5 | 2035.5 | 140.3 | 87.9 | 71.2 | 51.9 | 37.6 | 31.0 | 28.0 | 26.4 | 26.4 |
| 55° | 3006.5 | 2132.1 | 113.9 | 73.7 | 55.9 | 41.2 | 32.5 | 28.0 | 24.4 | 22.4 | 21.9 |
| 57.5° | 3213.4 | 2143.8 | 85.4 | 59.0 | 41.7 | 32.0 | 28.0 | 24.4 | 20.3 | 17.8 | 16.8 |
| 60° | 3301.9 | 2042.6 | 63.0 | 44.7 | 31.0 | 25.4 | 22.4 | 19.8 | 15.3 | 12.7 | 12.2 |
| 62.5° | 3212.9 | 1845.9 | 46.8 | 34.1 | 23.9 | 18.8 | 15.8 | 14.7 | 10.7 | 7.6 | 7.1 |
| 65° | 2894.2 | 1561.7 | 37.1 | 25.9 | 17.8 | 13.7 | 10.2 | 9.7 | 6.6 | 3.6 | 3.1 |
| 67.5° | 2318.7 | 1223.1 | 29.5 | 19.3 | 12.7 | 9.2 | 6.6 | 6.1 | 3.6 | 1.0 | 1.0 |
| 70° | 1507.8 | 781.9 | 23.9 | 14.2 | 8.1 | 6.1 | 4.1 | 3.1 | 2.0 | 0.5 | 0.0 |
| 72.5° | 745.8 | 365.5 | 19.3 | 11.2 | 5.6 | 3.1 | 1.5 | 1.0 | 1.5 | 0.0 | 0.0 |
| 75° | 289.3 | 130.1 | 14.2 | 7.6 | 3.1 | 1.5 | 1.0 | 0.0 | 0.5 | 0.0 | 0.0 |
| 77.5° | 96.1 | 43.2 | 8.6 | 4.1 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 35.6 | 16.8 | 4.6 | 2.5 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 14.2 | 6.6 | 3.1 | 2.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 7.1 | 4.1 | 2.0 | 1.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 5.1 | 3.1 | 2.0 | 1.5 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 | 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)