

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: P529224

Luminaire Tested: **GALN-SA4B-760-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-760-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16764 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

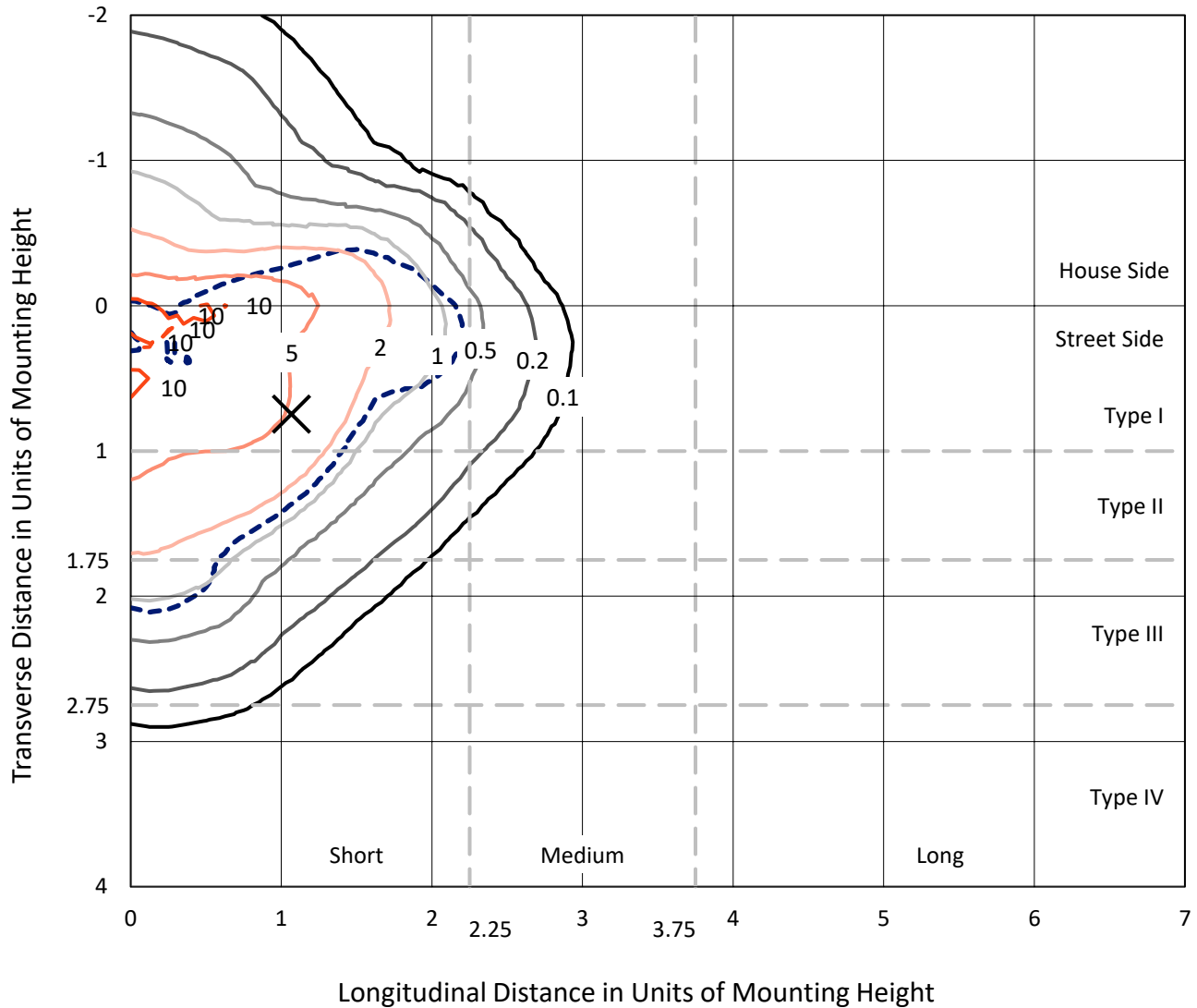
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

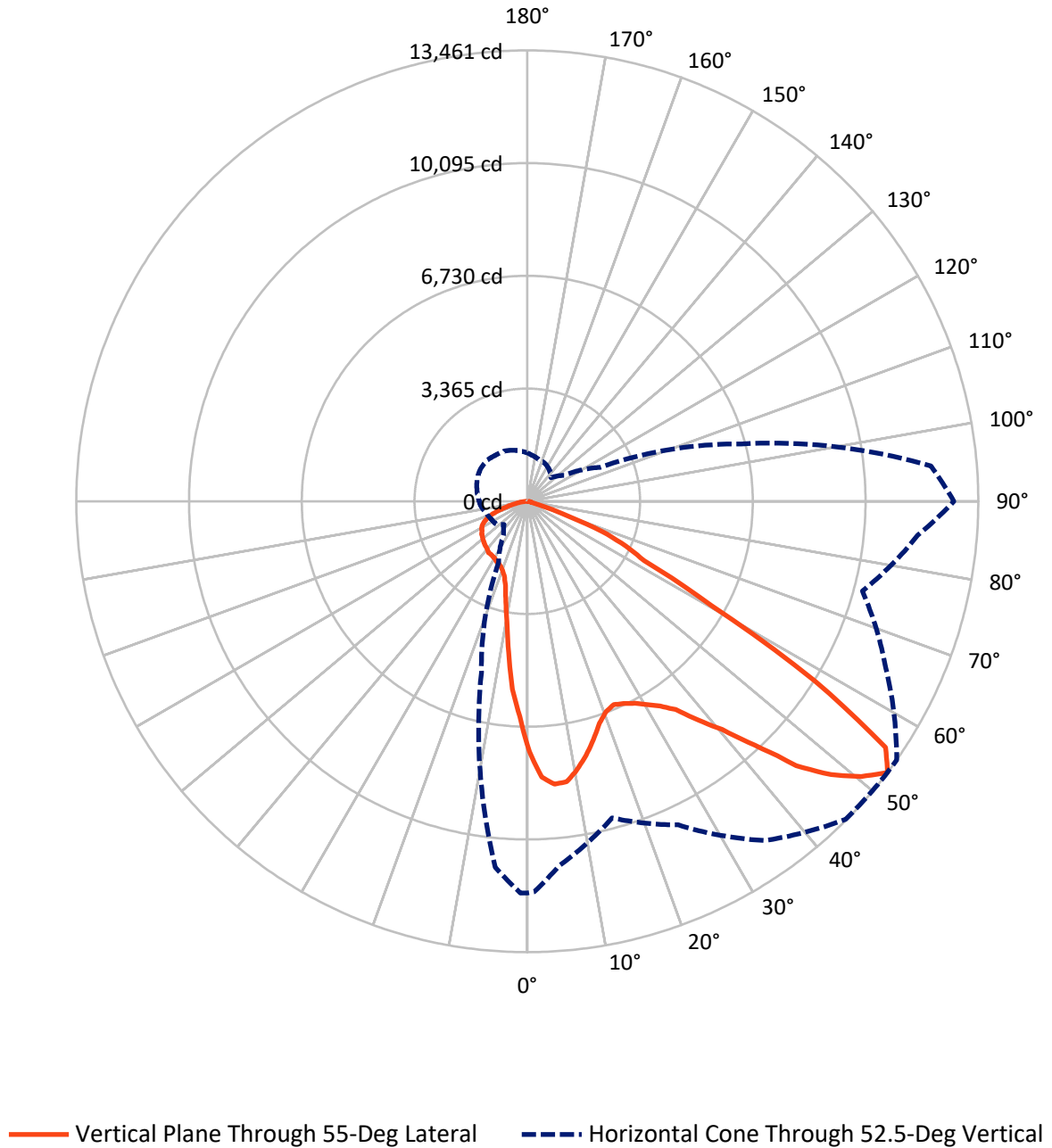
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5113.9 | 0.0 | 5113.9 |
| | % Fixture | 30.5 | 0.0 | 30.5 |
| Street Side | Lumens | 11650.1 | 0.0 | 11650.1 |
| | % Fixture | 69.5 | 0.0 | 69.5 |
| Total | Lumens | 16764.0 | 0.0 | 16764.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 571.3 | 3.4 |
| 10°-20° | 1231.8 | 7.3 |
| 20°-30° | 1867.8 | 11.1 |
| 30°-40° | 2698.7 | 16.1 |
| 40°-50° | 3606.2 | 21.5 |
| 50°-60° | 4025.4 | 24.0 |
| 60°-70° | 2208.1 | 13.2 |
| 70°-80° | 477.4 | 2.8 |
| 80°-90° | 77.2 | 0.5 |
| 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° | 16764.0 | 100.0 |
| 0°-180° | 16764.0 | 100.0 |

Coefficient of Utilization



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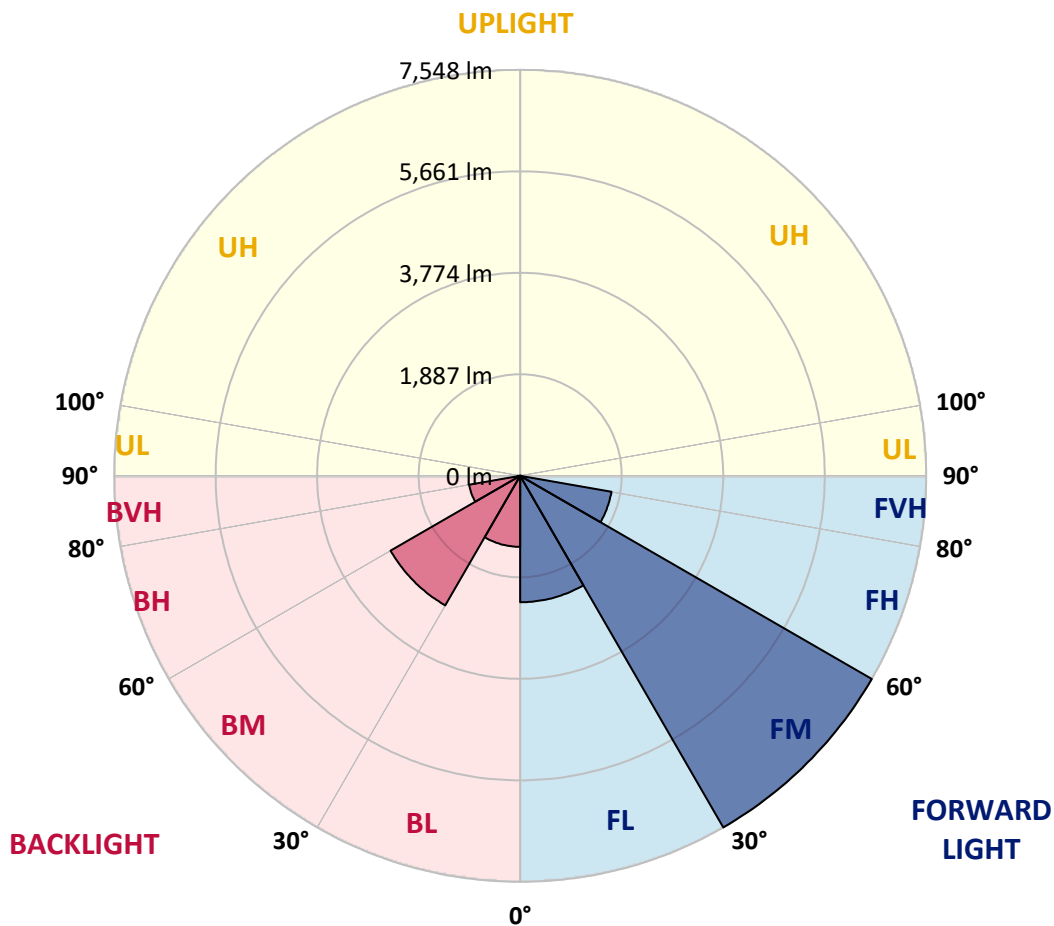
CATALOG NUMBER: GALN-SA4B-760-U-SLL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2350.6 | 14.0 | | | |
| FM (30°-60°) | 7547.9 | 45.0 | | | |
| FH (60°-80°) | 1722.9 | 10.3 | | | G1/1800 |
| FVH (80°-90°) | 28.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1320.3 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 2782.4 | 16.6 | B3/5000 | | |
| BH (60°-80°) | 962.6 | 5.7 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 48.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 |
| 2.5° | 7847.7 | 7803.6 | 7842.8 | 8028.8 | 8136.5 | 8209.9 | 8256.4 | 8249.1 | 8072.9 | 7901.5 | 7901.5 |
| 5° | 7617.6 | 7561.3 | 7642.0 | 8063.1 | 8486.5 | 8523.3 | 8584.4 | 8484.1 | 8224.6 | 7911.3 | 7519.7 |
| 7.5° | 6951.8 | 6993.4 | 7128.0 | 7681.2 | 8232.0 | 8508.6 | 8582.0 | 8454.7 | 8033.7 | 7448.7 | 6873.4 |
| 10° | 6376.5 | 6474.4 | 6785.3 | 7382.6 | 7889.3 | 8249.1 | 8329.9 | 8151.2 | 7818.3 | 7101.1 | 6587.0 |
| 12.5° | 6178.3 | 6117.1 | 6462.2 | 7059.5 | 7544.1 | 7737.5 | 7774.2 | 7786.5 | 7561.3 | 6924.8 | 6298.2 |
| 15° | 6153.8 | 6192.9 | 6462.2 | 6915.0 | 7213.7 | 7223.5 | 7284.7 | 7380.1 | 7409.5 | 7044.8 | 6432.8 |
| 17.5° | 6506.3 | 6459.8 | 6736.4 | 7096.2 | 6954.2 | 6812.2 | 6826.9 | 6964.0 | 7206.3 | 7147.6 | 6856.3 |
| 20° | 7027.6 | 7132.9 | 7350.8 | 7314.0 | 6932.2 | 6572.4 | 6574.8 | 6704.5 | 7181.9 | 7573.5 | 7446.2 |
| 22.5° | 7894.2 | 7997.0 | 8158.5 | 7715.5 | 6932.2 | 6501.4 | 6418.1 | 6594.4 | 7338.5 | 8080.2 | 8112.0 |
| 25° | 8684.8 | 8873.3 | 8917.3 | 8396.0 | 7279.8 | 6567.5 | 6513.6 | 6687.4 | 7495.2 | 8574.7 | 8875.7 |
| 27.5° | 9404.5 | 9473.0 | 9666.4 | 8834.1 | 7473.1 | 6611.5 | 6606.6 | 6829.4 | 7693.4 | 8821.9 | 9558.7 |
| 30° | 9972.4 | 9965.0 | 10075.2 | 9110.7 | 7781.6 | 6858.7 | 6621.3 | 7042.3 | 7952.9 | 9230.7 | 10190.2 |
| 32.5° | 10359.1 | 10442.3 | 10674.9 | 9495.0 | 7911.3 | 7093.7 | 6907.7 | 7292.0 | 8268.7 | 9424.0 | 10635.7 |
| 35° | 11039.6 | 11184.0 | 10890.3 | 9708.0 | 8322.5 | 7326.3 | 7108.4 | 7632.3 | 8425.3 | 9634.6 | 11181.6 |
| 37.5° | 11680.9 | 11570.8 | 11272.1 | 9823.0 | 8589.3 | 7757.1 | 7553.9 | 8290.7 | 8912.5 | 10092.3 | 11543.8 |
| 40° | 12092.2 | 12089.7 | 11558.5 | 9916.1 | 8777.8 | 8415.5 | 8403.3 | 8959.0 | 9509.7 | 10381.1 | 11950.2 |
| 42.5° | 12270.8 | 12442.2 | 11676.0 | 9906.3 | 9174.4 | 9213.5 | 9460.8 | 9957.7 | 9933.2 | 10439.9 | 11940.4 |
| 44° | 12515.6 | 12618.4 | 11879.2 | 9928.3 | 9438.7 | 9752.1 | 10334.6 | 10650.4 | 10302.8 | 10408.1 | 11928.1 |
| 45° | 12505.8 | 12513.2 | 11590.4 | 9957.7 | 9663.9 | 10202.4 | 10723.8 | 11257.4 | 10628.4 | 10339.5 | 12089.7 |
| 47.5° | 12219.4 | 12136.2 | 11345.6 | 9739.8 | 10366.4 | 11392.1 | 11874.3 | 12197.4 | 11029.8 | 10192.7 | 11889.0 |
| 50° | 11654.0 | 11558.5 | 10750.8 | 9646.8 | 10513.3 | 12131.3 | 12797.1 | 12914.6 | 11394.5 | 10048.2 | 11690.7 |
| 52.5° | 11693.2 | 11666.2 | 10919.7 | 9786.3 | 10660.2 | 12363.9 | 13431.1 | 13460.5 | 11808.2 | 10351.8 | 11693.2 |
| 55° | 12393.2 | 12300.2 | 11404.3 | 9960.1 | 10552.5 | 12092.2 | 13027.2 | 12975.8 | 11668.7 | 10168.2 | 11908.6 |
| 57.5° | 11340.7 | 11401.9 | 10733.6 | 9272.3 | 9235.6 | 9830.4 | 10241.6 | 10114.3 | 9737.4 | 9176.8 | 11078.8 |
| 60° | 9149.9 | 9323.7 | 9387.3 | 7754.6 | 6968.9 | 6662.9 | 6540.5 | 6315.3 | 6379.0 | 7539.2 | 9732.5 |
| 62.5° | 7847.7 | 7837.9 | 8236.9 | 7030.1 | 4565.2 | 3926.3 | 3867.5 | 3918.9 | 4653.3 | 7421.7 | 9531.7 |
| 65° | 6222.3 | 6388.8 | 6511.2 | 5958.0 | 3613.0 | 2915.3 | 2912.9 | 3238.4 | 4026.6 | 6202.7 | 7695.9 |
| 67.5° | 3950.8 | 4168.6 | 4320.4 | 3811.2 | 2416.0 | 2075.7 | 2019.4 | 2411.1 | 2790.5 | 4068.3 | 4633.7 |
| 70° | 2227.5 | 2330.3 | 2398.8 | 2198.1 | 1537.2 | 1077.0 | 1013.4 | 1106.4 | 1686.5 | 2633.8 | 2746.4 |
| 72.5° | 859.2 | 905.7 | 998.7 | 1006.0 | 580.1 | 347.6 | 281.5 | 337.8 | 709.9 | 1042.8 | 993.8 |
| 75° | 132.2 | 142.0 | 200.7 | 239.9 | 166.5 | 127.3 | 134.6 | 139.5 | 198.3 | 269.3 | 225.2 |
| 77.5° | 63.6 | 63.6 | 61.2 | 71.0 | 83.2 | 90.6 | 97.9 | 107.7 | 117.5 | 129.7 | 124.8 |
| 80° | 41.6 | 41.6 | 41.6 | 49.0 | 61.2 | 73.4 | 83.2 | 88.1 | 93.0 | 102.8 | 97.9 |
| 82.5° | 26.9 | 26.9 | 26.9 | 36.7 | 49.0 | 61.2 | 66.1 | 78.3 | 88.1 | 102.8 | 95.5 |
| 85° | 14.7 | 14.7 | 14.7 | 24.5 | 36.7 | 51.4 | 49.0 | 39.2 | 22.0 | 2.4 | 4.9 |
| 87.5° | 4.9 | 4.9 | 4.9 | 4.9 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 |
| 2.5° | 7695.9 | 7583.3 | 7573.5 | 7343.4 | 7137.8 | 7037.4 | 6956.7 | 6731.5 | 6780.4 | 6650.7 | 6648.2 |
| 5° | 7323.8 | 7093.7 | 6721.7 | 6415.7 | 6109.7 | 6048.5 | 5781.7 | 5549.2 | 5556.5 | 5390.1 | 5419.4 |
| 7.5° | 6655.6 | 6496.5 | 6043.6 | 5563.9 | 5157.5 | 4868.7 | 4616.6 | 4464.8 | 4271.4 | 4205.3 | 4171.1 |
| 10° | 6232.1 | 6036.3 | 5527.1 | 4925.0 | 4469.7 | 4315.5 | 4073.1 | 3938.5 | 3740.2 | 3642.3 | 3573.8 |
| 12.5° | 6046.1 | 5759.7 | 5123.3 | 4511.3 | 4207.8 | 4048.7 | 3843.1 | 3598.3 | 3363.3 | 3272.7 | 3147.9 |
| 15° | 6065.7 | 5723.0 | 5005.8 | 4344.9 | 3980.1 | 3671.7 | 3488.1 | 3216.4 | 2976.5 | 2817.4 | 2726.9 |
| 17.5° | 6361.8 | 5945.7 | 5059.6 | 4217.6 | 3693.7 | 3307.0 | 2947.2 | 2653.4 | 2462.5 | 2342.5 | 2313.2 |
| 20° | 7061.9 | 6496.5 | 5150.2 | 4012.0 | 3407.3 | 2925.1 | 2482.1 | 2176.1 | 2029.2 | 2026.8 | 2029.2 |
| 22.5° | 7644.5 | 7083.9 | 5333.8 | 3889.6 | 3120.9 | 2435.6 | 1995.0 | 1897.0 | 1867.7 | 1928.9 | 1936.2 |
| 25° | 8430.2 | 7744.9 | 5649.5 | 3825.9 | 2856.6 | 2075.7 | 1804.0 | 1767.3 | 1764.9 | 1843.2 | 1845.6 |
| 27.5° | 9235.6 | 8322.5 | 5838.0 | 3639.9 | 2587.3 | 1889.7 | 1689.0 | 1681.6 | 1720.8 | 1804.0 | 1796.7 |
| 30° | 9783.9 | 8807.2 | 6178.3 | 3417.1 | 2269.1 | 1725.7 | 1642.5 | 1652.3 | 1706.1 | 1769.8 | 1779.6 |
| 32.5° | 10422.7 | 9284.5 | 6266.4 | 3294.7 | 2073.3 | 1588.6 | 1529.9 | 1551.9 | 1620.4 | 1720.8 | 1774.7 |
| 35° | 11154.6 | 9622.3 | 6401.0 | 3128.3 | 1999.9 | 1483.4 | 1454.0 | 1478.5 | 1561.7 | 1627.8 | 1686.5 |
| 37.5° | 11695.6 | 10219.6 | 6425.5 | 2998.6 | 1919.1 | 1424.6 | 1378.1 | 1458.9 | 1507.8 | 1600.9 | 1630.2 |
| 40° | 12097.0 | 10652.8 | 6489.1 | 2917.8 | 1855.4 | 1348.7 | 1348.7 | 1402.6 | 1468.7 | 1554.4 | 1613.1 |
| 42.5° | 12354.1 | 10968.6 | 6535.6 | 2844.3 | 1733.0 | 1326.7 | 1314.5 | 1368.3 | 1456.4 | 1539.7 | 1566.6 |
| 44° | 12510.7 | 11103.2 | 6489.1 | 2775.8 | 1698.8 | 1299.8 | 1299.8 | 1346.3 | 1414.8 | 1512.7 | 1544.6 |
| 45° | 12549.9 | 11272.1 | 6386.3 | 2773.4 | 1657.2 | 1268.0 | 1263.1 | 1351.2 | 1397.7 | 1517.6 | 1537.2 |
| 47.5° | 12701.7 | 11480.2 | 6398.6 | 2695.0 | 1556.8 | 1192.1 | 1277.8 | 1316.9 | 1358.5 | 1463.8 | 1529.9 |
| 50° | 12696.8 | 11609.9 | 6371.6 | 2580.0 | 1483.4 | 1106.4 | 1248.4 | 1292.4 | 1334.1 | 1441.8 | 1468.7 |
| 52.5° | 12731.0 | 12094.6 | 6618.9 | 2396.4 | 1351.2 | 996.3 | 1150.5 | 1248.4 | 1299.8 | 1390.4 | 1446.7 |
| 55° | 12713.9 | 12371.2 | 6863.6 | 2259.3 | 1165.2 | 930.2 | 1067.2 | 1182.3 | 1255.7 | 1351.2 | 1378.1 |
| 57.5° | 11612.4 | 10934.3 | 6352.1 | 2002.3 | 964.4 | 851.8 | 949.7 | 1113.8 | 1206.8 | 1304.7 | 1338.9 |
| 60° | 9487.7 | 8427.8 | 5238.3 | 1473.6 | 793.1 | 783.3 | 883.7 | 1091.7 | 1130.9 | 1216.6 | 1275.3 |
| 62.5° | 8768.0 | 7392.4 | 4153.9 | 1126.0 | 678.0 | 717.2 | 815.1 | 986.5 | 1047.7 | 1152.9 | 1206.8 |
| 65° | 6861.2 | 4910.3 | 2572.6 | 761.3 | 597.3 | 643.8 | 736.8 | 864.1 | 964.4 | 1062.3 | 1126.0 |
| 67.5° | 4063.4 | 2682.8 | 1272.9 | 533.6 | 521.4 | 570.3 | 665.8 | 761.3 | 876.3 | 984.0 | 1015.8 |
| 70° | 2212.8 | 1319.4 | 543.4 | 406.3 | 443.1 | 487.1 | 580.1 | 646.2 | 756.4 | 839.6 | 893.4 |
| 72.5° | 709.9 | 401.4 | 271.7 | 301.1 | 337.8 | 389.2 | 445.5 | 526.3 | 604.6 | 653.6 | 697.6 |
| 75° | 171.3 | 168.9 | 193.4 | 210.5 | 244.8 | 283.9 | 330.5 | 372.1 | 433.3 | 479.8 | 518.9 |
| 77.5° | 119.9 | 129.7 | 149.3 | 173.8 | 186.0 | 200.7 | 230.1 | 261.9 | 288.8 | 323.1 | 347.6 |
| 80° | 93.0 | 100.4 | 115.0 | 127.3 | 139.5 | 151.8 | 166.5 | 178.7 | 195.8 | 217.9 | 230.1 |
| 82.5° | 88.1 | 93.0 | 107.7 | 115.0 | 110.2 | 107.7 | 117.5 | 122.4 | 124.8 | 132.2 | 139.5 |
| 85° | 7.3 | 0.0 | 4.9 | 17.1 | 41.6 | 61.2 | 66.1 | 66.1 | 63.6 | 68.5 | 68.5 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 9.8 | 7.3 |
| 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):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 |
| 2.5° | 6618.9 | 6535.6 | 6567.5 | 6606.6 | 6550.3 | 6420.6 | 6454.9 | 6440.2 | 6572.4 | 6562.6 | 6694.7 |
| 5° | 5549.2 | 5419.4 | 5434.1 | 5625.1 | 5563.9 | 5629.9 | 5497.8 | 5480.6 | 5505.1 | 5517.3 | 5539.4 |
| 7.5° | 4246.9 | 4229.8 | 4376.7 | 4538.2 | 4614.1 | 4535.8 | 4406.0 | 4376.7 | 4349.7 | 4295.9 | 4418.3 |
| 10° | 3466.1 | 3471.0 | 3461.2 | 3583.6 | 3669.3 | 3652.1 | 3573.8 | 3564.0 | 3512.6 | 3493.0 | 3561.6 |
| 12.5° | 3094.0 | 3027.9 | 2996.1 | 2956.9 | 3023.0 | 3067.1 | 3032.8 | 3008.4 | 3010.8 | 3035.3 | 3045.1 |
| 15° | 2734.2 | 2692.6 | 2624.0 | 2580.0 | 2611.8 | 2589.8 | 2577.5 | 2626.5 | 2614.3 | 2609.4 | 2668.1 |
| 17.5° | 2330.3 | 2364.6 | 2359.7 | 2310.7 | 2352.3 | 2335.2 | 2332.8 | 2298.5 | 2252.0 | 2217.7 | 2237.3 |
| 20° | 2063.5 | 2127.1 | 2176.1 | 2178.5 | 2200.6 | 2198.1 | 2161.4 | 2056.2 | 2021.9 | 2014.5 | 2019.4 |
| 22.5° | 1968.0 | 2002.3 | 2061.1 | 2144.3 | 2144.3 | 2105.1 | 2061.1 | 1938.7 | 1906.8 | 1872.6 | 1857.9 |
| 25° | 1892.2 | 1958.2 | 2034.1 | 2043.9 | 2083.1 | 2046.4 | 1975.4 | 1914.2 | 1848.1 | 1801.6 | 1801.6 |
| 27.5° | 1853.0 | 1926.4 | 1982.7 | 1999.9 | 2053.7 | 2024.3 | 1950.9 | 1872.6 | 1794.2 | 1791.8 | 1750.2 |
| 30° | 1835.9 | 1904.4 | 1941.1 | 1982.7 | 2007.2 | 1960.7 | 1938.7 | 1855.4 | 1777.1 | 1757.5 | 1689.0 |
| 32.5° | 1784.4 | 1882.4 | 1950.9 | 1941.1 | 1960.7 | 1941.1 | 1909.3 | 1840.7 | 1752.6 | 1708.6 | 1701.2 |
| 35° | 1725.7 | 1823.6 | 1897.0 | 1948.5 | 1960.7 | 1919.1 | 1899.5 | 1806.5 | 1686.5 | 1664.5 | 1588.6 |
| 37.5° | 1693.9 | 1752.6 | 1843.2 | 1926.4 | 1943.6 | 1921.5 | 1855.4 | 1760.0 | 1640.0 | 1615.6 | 1549.5 |
| 40° | 1654.7 | 1730.6 | 1801.6 | 1870.1 | 1921.5 | 1867.7 | 1791.8 | 1698.8 | 1644.9 | 1571.5 | 1551.9 |
| 42.5° | 1625.3 | 1711.0 | 1769.8 | 1845.6 | 1904.4 | 1833.4 | 1745.3 | 1681.6 | 1605.8 | 1556.8 | 1500.5 |
| 44° | 1615.6 | 1693.9 | 1733.0 | 1826.1 | 1875.0 | 1821.2 | 1747.7 | 1681.6 | 1593.5 | 1549.5 | 1500.5 |
| 45° | 1581.3 | 1689.0 | 1730.6 | 1813.8 | 1855.4 | 1811.4 | 1718.4 | 1652.3 | 1588.6 | 1534.8 | 1483.4 |
| 47.5° | 1547.0 | 1620.4 | 1691.4 | 1757.5 | 1786.9 | 1772.2 | 1693.9 | 1613.1 | 1537.2 | 1505.4 | 1456.4 |
| 50° | 1537.2 | 1610.7 | 1676.7 | 1737.9 | 1772.2 | 1742.8 | 1671.9 | 1593.5 | 1505.4 | 1454.0 | 1412.4 |
| 52.5° | 1488.3 | 1578.8 | 1652.3 | 1671.9 | 1715.9 | 1698.8 | 1644.9 | 1559.3 | 1476.0 | 1432.0 | 1397.7 |
| 55° | 1417.3 | 1512.7 | 1613.1 | 1637.6 | 1701.2 | 1674.3 | 1593.5 | 1512.7 | 1441.8 | 1375.7 | 1331.6 |
| 57.5° | 1390.4 | 1483.4 | 1581.3 | 1613.1 | 1652.3 | 1608.2 | 1588.6 | 1503.0 | 1390.4 | 1356.1 | 1287.5 |
| 60° | 1321.8 | 1439.3 | 1520.1 | 1593.5 | 1596.0 | 1583.7 | 1549.5 | 1451.5 | 1358.5 | 1294.9 | 1245.9 |
| 62.5° | 1268.0 | 1378.1 | 1441.8 | 1510.3 | 1551.9 | 1517.6 | 1483.4 | 1392.8 | 1292.4 | 1221.5 | 1165.2 |
| 65° | 1189.6 | 1290.0 | 1343.8 | 1385.5 | 1432.0 | 1427.1 | 1368.3 | 1302.2 | 1197.0 | 1140.7 | 1086.8 |
| 67.5° | 1069.7 | 1157.8 | 1231.2 | 1270.4 | 1299.8 | 1292.4 | 1248.4 | 1201.9 | 1094.2 | 1037.9 | 998.7 |
| 70° | 925.3 | 1015.8 | 1062.3 | 1084.4 | 1113.8 | 1128.4 | 1094.2 | 1072.1 | 976.7 | 903.2 | 866.5 |
| 72.5° | 744.1 | 802.9 | 871.4 | 891.0 | 903.2 | 913.0 | 913.0 | 893.4 | 795.5 | 766.2 | 702.5 |
| 75° | 548.3 | 594.8 | 646.2 | 646.2 | 668.3 | 670.7 | 675.6 | 663.4 | 589.9 | 550.8 | 536.1 |
| 77.5° | 372.1 | 406.3 | 447.9 | 465.1 | 479.8 | 477.3 | 474.9 | 440.6 | 401.4 | 384.3 | 369.6 |
| 80° | 242.3 | 276.6 | 296.2 | 318.2 | 332.9 | 330.5 | 335.3 | 310.9 | 293.7 | 264.4 | 269.3 |
| 82.5° | 144.4 | 171.3 | 190.9 | 217.9 | 217.9 | 225.2 | 225.2 | 217.9 | 200.7 | 186.0 | 186.0 |
| 85° | 68.5 | 90.6 | 102.8 | 119.9 | 129.7 | 132.2 | 117.5 | 100.4 | 83.2 | 75.9 | 83.2 |
| 87.5° | 12.2 | 17.1 | 24.5 | 22.0 | 26.9 | 24.5 | 24.5 | 24.5 | 24.5 | 19.6 | 22.0 |
| 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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| | 285° | 295° | 305° | 315° | 325° | 335° | 345° | 355° | 359° | 360° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 | 7478.0 |
| 2.5° | 6645.8 | 6768.2 | 6853.9 | 6995.8 | 7240.6 | 7436.4 | 7637.1 | 7786.5 | 7803.6 | 7847.7 |
| 5° | 5620.2 | 5686.2 | 5904.1 | 6188.0 | 6388.8 | 6719.2 | 6932.2 | 7318.9 | 7463.4 | 7617.6 |
| 7.5° | 4388.9 | 4496.6 | 4787.9 | 4978.8 | 5419.4 | 5833.1 | 6261.5 | 6738.8 | 6929.7 | 6951.8 |
| 10° | 3701.1 | 3857.7 | 4056.0 | 4362.0 | 4601.9 | 5062.1 | 5595.7 | 6126.9 | 6339.8 | 6376.5 |
| 12.5° | 3250.7 | 3451.4 | 3715.8 | 3936.1 | 4166.2 | 4567.6 | 5079.2 | 5735.2 | 6011.8 | 6178.3 |
| 15° | 2817.4 | 3025.5 | 3316.8 | 3622.7 | 3825.9 | 4305.7 | 4907.8 | 5647.1 | 6006.9 | 6153.8 |
| 17.5° | 2371.9 | 2565.3 | 2805.2 | 3135.6 | 3544.4 | 4082.9 | 4880.9 | 5940.8 | 6334.9 | 6506.3 |
| 20° | 1990.1 | 2097.8 | 2376.8 | 2717.1 | 3228.7 | 3855.3 | 4890.7 | 6374.1 | 6951.8 | 7027.6 |
| 22.5° | 1840.7 | 1865.2 | 1975.4 | 2288.7 | 2849.2 | 3622.7 | 5064.5 | 6988.5 | 7644.5 | 7894.2 |
| 25° | 1725.7 | 1720.8 | 1750.2 | 1960.7 | 2572.6 | 3532.2 | 5235.9 | 7553.9 | 8413.1 | 8684.8 |
| 27.5° | 1662.1 | 1613.1 | 1615.6 | 1813.8 | 2376.8 | 3385.3 | 5456.2 | 8202.6 | 9284.5 | 9404.5 |
| 30° | 1630.2 | 1620.4 | 1591.1 | 1671.9 | 2163.9 | 3165.0 | 5492.9 | 8841.5 | 9798.6 | 9972.4 |
| 32.5° | 1610.7 | 1515.2 | 1478.5 | 1507.8 | 1963.1 | 2925.1 | 5629.9 | 9262.5 | 10435.0 | 10359.1 |
| 35° | 1512.7 | 1427.1 | 1402.6 | 1432.0 | 1821.2 | 2790.5 | 5539.4 | 9629.7 | 10912.3 | 11039.6 |
| 37.5° | 1476.0 | 1400.1 | 1351.2 | 1326.7 | 1689.0 | 2677.9 | 5492.9 | 10195.1 | 11374.9 | 11680.9 |
| 40° | 1441.8 | 1361.0 | 1302.2 | 1277.8 | 1586.2 | 2528.6 | 5478.2 | 10630.8 | 11908.6 | 12092.2 |
| 42.5° | 1402.6 | 1351.2 | 1285.1 | 1241.0 | 1461.3 | 2379.3 | 5309.3 | 10765.4 | 12072.6 | 12270.8 |
| 44° | 1390.4 | 1312.0 | 1243.5 | 1228.8 | 1412.4 | 2303.4 | 5275.0 | 10887.8 | 12214.5 | 12515.6 |
| 45° | 1378.1 | 1304.7 | 1226.3 | 1206.8 | 1395.2 | 2261.8 | 5228.5 | 10917.2 | 12449.5 | 12505.8 |
| 47.5° | 1343.8 | 1297.3 | 1221.5 | 1167.6 | 1358.5 | 2171.2 | 5089.0 | 10750.8 | 12209.6 | 12219.4 |
| 50° | 1316.9 | 1263.1 | 1184.7 | 1079.5 | 1309.6 | 2095.3 | 5152.6 | 10689.6 | 11632.0 | 11654.0 |
| 52.5° | 1287.5 | 1206.8 | 1162.7 | 981.6 | 1228.8 | 2031.7 | 5287.3 | 10966.2 | 11698.1 | 11693.2 |
| 55° | 1253.3 | 1165.2 | 1057.5 | 898.3 | 1094.2 | 1950.9 | 5612.8 | 11512.0 | 12310.0 | 12393.2 |
| 57.5° | 1199.4 | 1123.5 | 969.3 | 824.9 | 940.0 | 1796.7 | 5507.6 | 10466.8 | 11326.0 | 11340.7 |
| 60° | 1128.4 | 1057.5 | 878.8 | 768.6 | 771.1 | 1417.3 | 4925.0 | 8156.1 | 8936.9 | 9149.9 |
| 62.5° | 1059.9 | 1020.7 | 802.9 | 687.8 | 656.0 | 1128.4 | 4163.7 | 6778.0 | 7671.4 | 7847.7 |
| 65° | 979.1 | 883.7 | 736.8 | 626.6 | 563.0 | 790.6 | 2949.6 | 5064.5 | 5984.9 | 6222.3 |
| 67.5° | 876.3 | 773.5 | 648.7 | 550.8 | 482.2 | 528.7 | 1522.5 | 2878.6 | 3811.2 | 3950.8 |
| 70° | 766.2 | 670.7 | 545.9 | 465.1 | 389.2 | 364.7 | 670.7 | 1373.2 | 2083.1 | 2227.5 |
| 72.5° | 629.1 | 541.0 | 435.7 | 367.2 | 291.3 | 252.1 | 225.2 | 367.2 | 739.2 | 859.2 |
| 75° | 455.3 | 394.1 | 328.0 | 261.9 | 205.6 | 161.6 | 132.2 | 110.2 | 122.4 | 132.2 |
| 77.5° | 335.3 | 286.4 | 242.3 | 186.0 | 144.4 | 115.0 | 90.6 | 68.5 | 66.1 | 63.6 |
| 80° | 261.9 | 232.5 | 193.4 | 149.3 | 112.6 | 85.7 | 63.6 | 46.5 | 41.6 | 41.6 |
| 82.5° | 205.6 | 190.9 | 159.1 | 122.4 | 93.0 | 68.5 | 46.5 | 31.8 | 26.9 | 26.9 |
| 85° | 78.3 | 78.3 | 115.0 | 100.4 | 71.0 | 49.0 | 31.8 | 17.1 | 14.7 | 14.7 |
| 87.5° | 19.6 | 19.6 | 19.6 | 19.6 | 17.1 | 14.7 | 14.7 | 7.3 | 4.9 | 4.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)