

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: P529931

Luminaire Tested: **GALN-SA5A-760-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-760-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15147 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

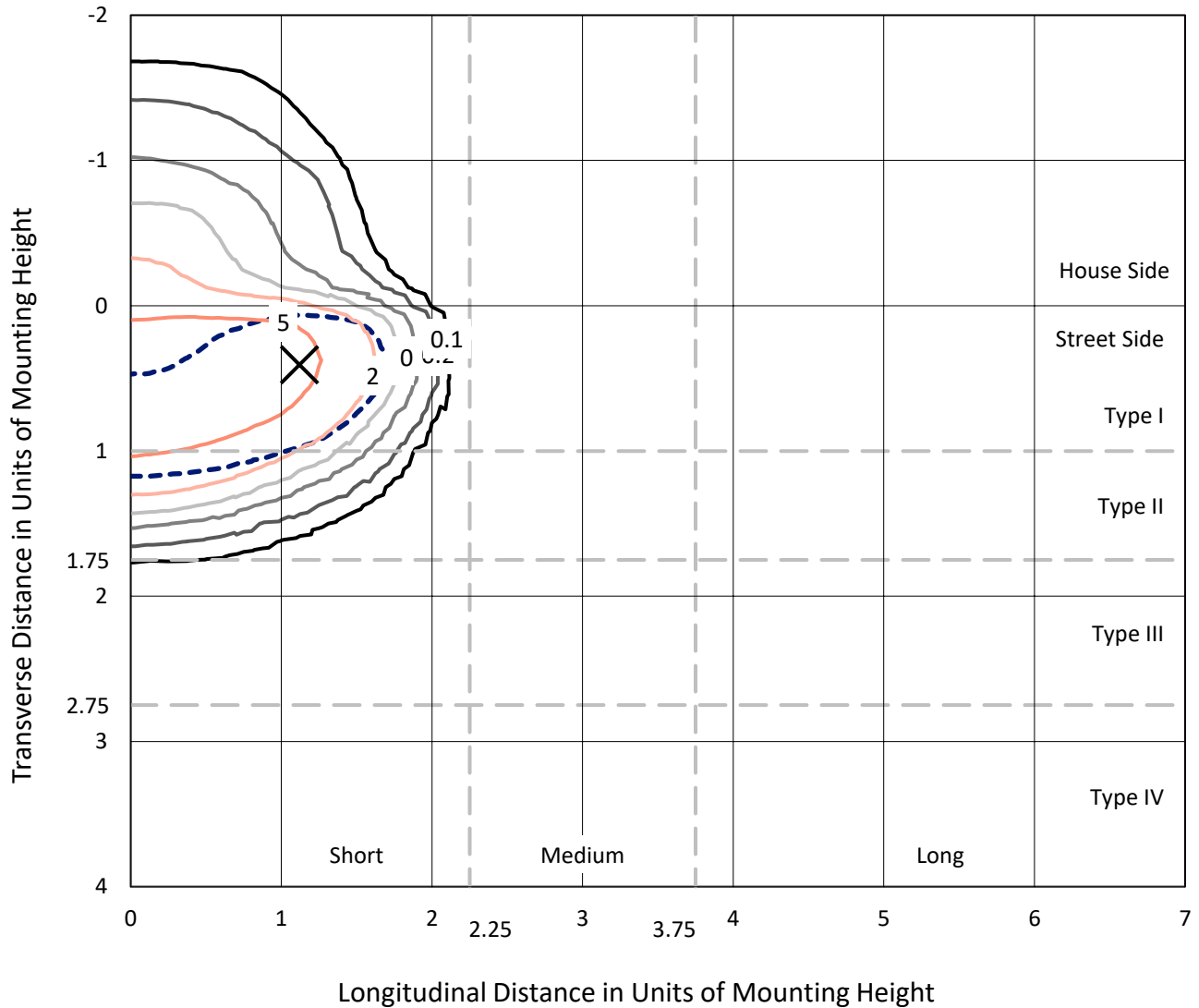
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

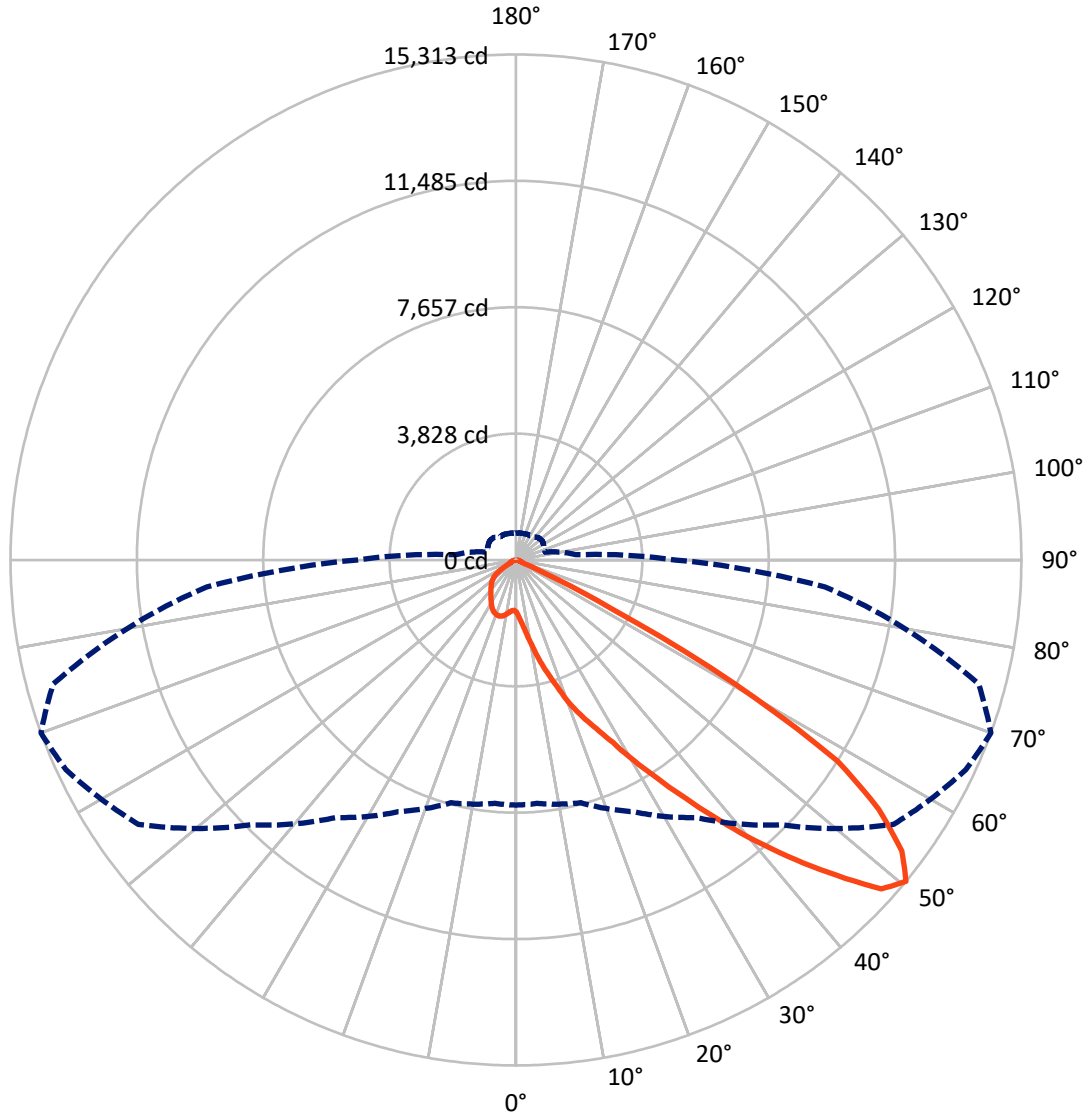
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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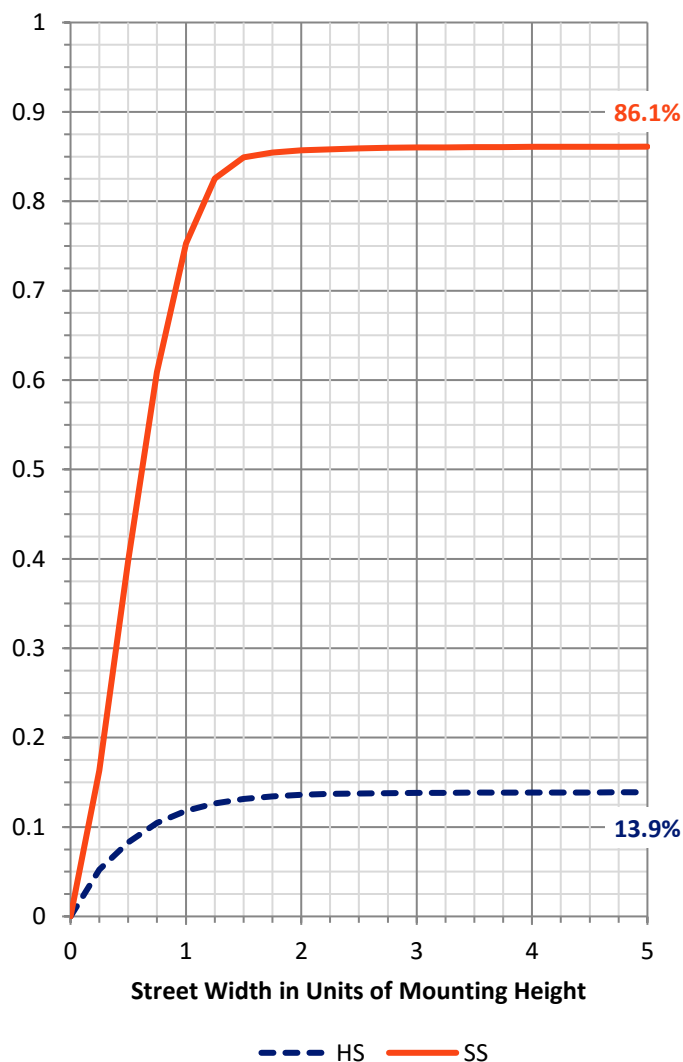
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2115.4 | 0.0 | 2115.4 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 13031.6 | 0.0 | 13031.6 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 15147.0 | 0.0 | 15147.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 204.0 | 1.3 |
| 10°-20° | 882.5 | 5.8 |
| 20°-30° | 1851.4 | 12.2 |
| 30°-40° | 3191.1 | 21.1 |
| 40°-50° | 4663.8 | 30.8 |
| 50°-60° | 3632.3 | 24.0 |
| 60°-70° | 615.4 | 4.1 |
| 70°-80° | 84.5 | 0.6 |
| 80°-90° | 21.9 | 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° | 15147.0 | 100.0 |
| 0°-180° | 15147.0 | 100.0 |

Coefficient of Utilization



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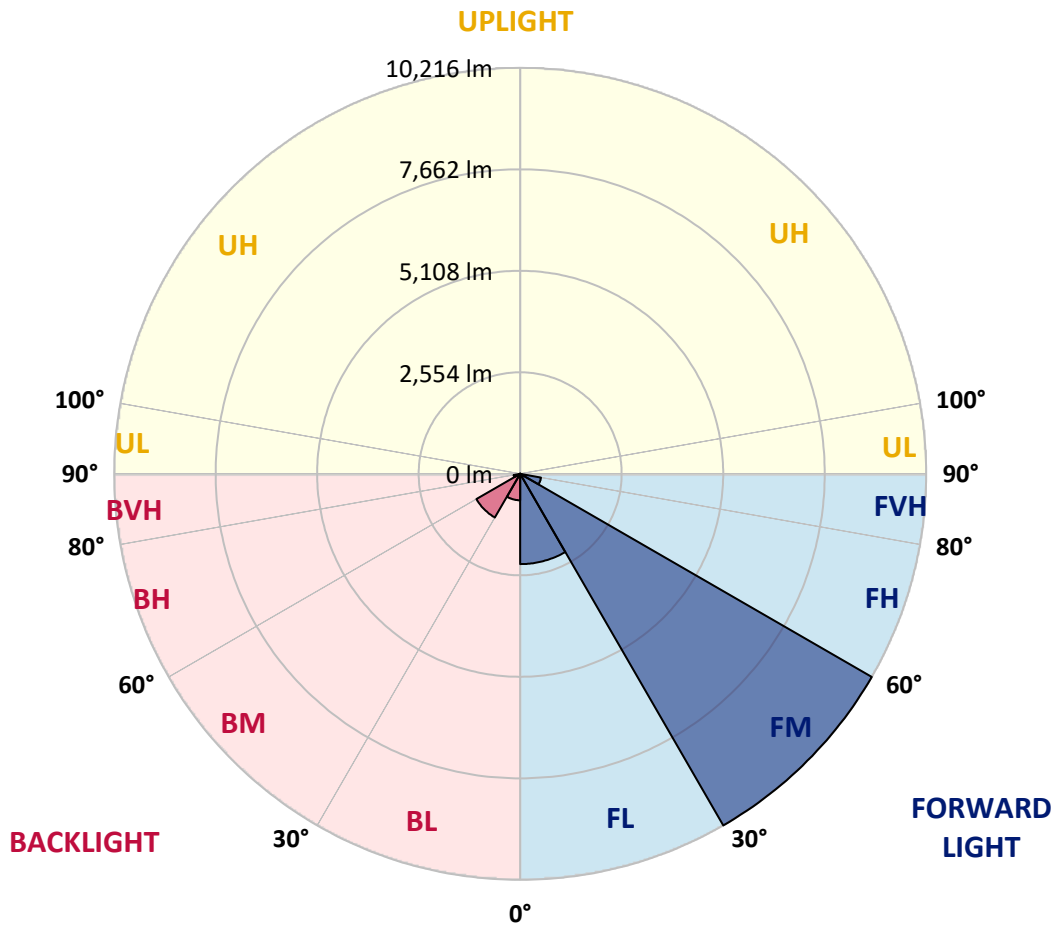
CATALOG NUMBER: GALN-SA5A-760-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2272.2 | 15.0 | | | |
| FM (30°-60°) | 10216.4 | 67.4 | | | |
| FH (60°-80°) | 532.9 | 3.5 | | | G0/660 |
| FVH (80°-90°) | 10.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 665.7 | 4.4 | B2/1000 | | |
| BM (30°-60°) | 1270.8 | 8.4 | B2/2500 | | |
| BH (60°-80°) | 167.1 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 11.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 |
| 2.5° | 2054.6 | 2039.6 | 2007.2 | 1947.5 | 1922.6 | 1862.8 | 1827.9 | 1760.7 | 1718.4 | 1671.0 | 1618.7 |
| 5° | 2893.8 | 2816.6 | 2769.3 | 2702.0 | 2505.3 | 2383.3 | 2181.6 | 2009.7 | 1930.0 | 1842.9 | 1723.3 |
| 7.5° | 3760.5 | 3710.6 | 3645.9 | 3501.5 | 3367.0 | 3113.0 | 2766.8 | 2388.3 | 2226.4 | 2077.0 | 1840.4 |
| 10° | 4477.7 | 4338.2 | 4330.7 | 4223.7 | 4076.7 | 3772.9 | 3357.0 | 2886.3 | 2597.5 | 2378.3 | 2007.2 |
| 12.5° | 4978.2 | 4851.2 | 4908.5 | 4896.1 | 4759.1 | 4480.2 | 3999.5 | 3376.9 | 3075.6 | 2734.4 | 2179.1 |
| 15° | 5434.0 | 5381.7 | 5364.2 | 5349.3 | 5294.5 | 5087.8 | 4657.0 | 3974.6 | 3538.8 | 3127.9 | 2373.3 |
| 17.5° | 5879.8 | 5745.3 | 5810.0 | 5822.5 | 5817.5 | 5630.7 | 5227.3 | 4542.4 | 4029.4 | 3543.8 | 2577.5 |
| 20° | 6275.7 | 6288.2 | 6201.0 | 6183.6 | 6168.6 | 6161.2 | 5767.7 | 5105.3 | 4632.1 | 3979.6 | 2844.0 |
| 22.5° | 6783.8 | 6696.6 | 6773.8 | 6724.0 | 6626.9 | 6567.1 | 6265.8 | 5603.3 | 5155.1 | 4505.1 | 3115.4 |
| 25° | 7383.9 | 7453.7 | 7271.9 | 7251.9 | 7144.9 | 6938.2 | 6666.7 | 6161.2 | 5658.1 | 4993.2 | 3409.3 |
| 27.5° | 8123.6 | 8001.5 | 7954.2 | 7844.7 | 7650.4 | 7563.2 | 7244.5 | 6736.4 | 6265.8 | 5506.2 | 3693.2 |
| 30° | 8758.6 | 8726.2 | 8489.7 | 8360.2 | 8190.8 | 8188.3 | 7742.5 | 7515.9 | 7057.7 | 6310.6 | 4084.2 |
| 32.5° | 9276.6 | 9134.7 | 9047.5 | 8957.8 | 8820.9 | 8858.2 | 8482.2 | 8362.7 | 7901.9 | 7057.7 | 4544.9 |
| 35° | 9622.8 | 9520.7 | 9468.4 | 9331.4 | 9291.6 | 9458.4 | 9301.5 | 9251.7 | 8873.2 | 8108.6 | 5085.3 |
| 37.5° | 9732.4 | 9764.7 | 9754.8 | 9582.9 | 9667.6 | 10118.4 | 10320.1 | 10190.6 | 9991.4 | 9216.8 | 5670.6 |
| 40° | 9829.5 | 9851.9 | 9802.1 | 10003.8 | 10245.4 | 10758.4 | 11488.1 | 11273.9 | 11199.2 | 10340.0 | 6484.9 |
| 42.5° | 9884.3 | 9866.8 | 9866.8 | 10215.5 | 10581.6 | 11612.6 | 12616.2 | 12474.2 | 12417.0 | 11535.4 | 7426.3 |
| 45° | 9647.7 | 9478.3 | 9660.1 | 10133.3 | 10870.5 | 12033.5 | 13517.7 | 13714.4 | 13632.3 | 12957.4 | 8527.0 |
| 47.5° | 8763.6 | 8868.2 | 8970.3 | 9602.9 | 10519.3 | 11904.0 | 14070.6 | 14740.5 | 14892.4 | 14152.8 | 9249.2 |
| 50° | 7426.3 | 7403.9 | 7615.5 | 8412.5 | 9525.7 | 11346.1 | 13963.5 | 15036.8 | 15313.3 | 14511.4 | 9401.1 |
| 52.5° | 5401.6 | 5566.0 | 5795.1 | 6587.0 | 7906.9 | 9901.7 | 12581.3 | 14272.3 | 14640.9 | 14070.6 | 9301.5 |
| 55° | 3145.3 | 2963.5 | 3479.0 | 4149.0 | 5394.1 | 7468.6 | 10636.4 | 12651.1 | 13333.4 | 13268.7 | 8798.5 |
| 57.5° | 1260.1 | 1220.3 | 1397.1 | 1882.7 | 2814.1 | 4629.6 | 7735.1 | 10394.8 | 11488.1 | 12153.0 | 7732.6 |
| 60° | 552.9 | 540.4 | 635.0 | 767.0 | 1150.5 | 2134.2 | 4231.1 | 6465.0 | 7605.6 | 8492.1 | 5321.9 |
| 62.5° | 398.5 | 393.5 | 440.8 | 488.1 | 607.6 | 928.9 | 1778.1 | 2604.9 | 3247.4 | 3922.3 | 2383.3 |
| 65° | 321.3 | 333.7 | 366.1 | 391.0 | 448.3 | 515.5 | 627.6 | 724.7 | 889.1 | 921.4 | 525.5 |
| 67.5° | 261.5 | 271.4 | 301.3 | 328.7 | 338.7 | 278.9 | 288.9 | 254.0 | 254.0 | 226.6 | 181.8 |
| 70° | 191.8 | 194.2 | 229.1 | 261.5 | 209.2 | 112.1 | 196.7 | 196.7 | 176.8 | 169.3 | 154.4 |
| 72.5° | 142.0 | 144.4 | 171.8 | 161.9 | 82.2 | 69.7 | 144.4 | 159.4 | 144.4 | 137.0 | 124.5 |
| 75° | 104.6 | 107.1 | 89.7 | 37.4 | 34.9 | 44.8 | 84.7 | 109.6 | 104.6 | 102.1 | 94.6 |
| 77.5° | 19.9 | 14.9 | 12.5 | 17.4 | 24.9 | 37.4 | 54.8 | 67.2 | 69.7 | 74.7 | 69.7 |
| 80° | 2.5 | 2.5 | 7.5 | 14.9 | 27.4 | 39.8 | 57.3 | 64.7 | 67.2 | 69.7 | 64.7 |
| 82.5° | 0.0 | 2.5 | 7.5 | 14.9 | 27.4 | 37.4 | 49.8 | 57.3 | 62.3 | 64.7 | 62.3 |
| 85° | 0.0 | 2.5 | 5.0 | 12.5 | 22.4 | 27.4 | 24.9 | 17.4 | 14.9 | 17.4 | 12.5 |
| 87.5° | 0.0 | 0.0 | 2.5 | 2.5 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 |
| 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° | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 | 1568.9 |
| 2.5° | 1588.9 | 1578.9 | 1544.0 | 1506.7 | 1474.3 | 1489.2 | 1474.3 | 1461.8 | 1466.8 | 1461.8 | 1456.9 |
| 5° | 1676.0 | 1631.2 | 1556.5 | 1524.1 | 1496.7 | 1494.2 | 1486.7 | 1484.3 | 1486.7 | 1486.7 | 1464.3 |
| 7.5° | 1758.2 | 1686.0 | 1606.3 | 1571.4 | 1539.0 | 1541.5 | 1524.1 | 1524.1 | 1521.6 | 1509.2 | 1504.2 |
| 10° | 1882.7 | 1785.6 | 1683.5 | 1621.2 | 1581.4 | 1573.9 | 1556.5 | 1539.0 | 1539.0 | 1539.0 | 1514.1 |
| 12.5° | 2019.7 | 1897.7 | 1758.2 | 1686.0 | 1638.7 | 1601.3 | 1573.9 | 1568.9 | 1541.5 | 1536.6 | 1524.1 |
| 15° | 2139.2 | 1984.8 | 1808.0 | 1708.4 | 1648.6 | 1598.8 | 1556.5 | 1529.1 | 1516.6 | 1509.2 | 1499.2 |
| 17.5° | 2256.3 | 2059.5 | 1835.4 | 1708.4 | 1643.6 | 1586.4 | 1541.5 | 1516.6 | 1486.7 | 1491.7 | 1471.8 |
| 20° | 2413.2 | 2139.2 | 1842.9 | 1676.0 | 1596.3 | 1541.5 | 1481.8 | 1469.3 | 1451.9 | 1436.9 | 1441.9 |
| 22.5° | 2565.1 | 2196.5 | 1820.5 | 1636.2 | 1521.6 | 1456.9 | 1427.0 | 1412.0 | 1404.6 | 1392.1 | 1374.7 |
| 25° | 2702.0 | 2258.8 | 1785.6 | 1564.0 | 1441.9 | 1394.6 | 1367.2 | 1364.7 | 1347.3 | 1347.3 | 1314.9 |
| 27.5° | 2841.5 | 2281.2 | 1725.8 | 1479.3 | 1372.2 | 1344.8 | 1332.3 | 1327.4 | 1319.9 | 1302.5 | 1280.0 |
| 30° | 3000.9 | 2288.6 | 1638.7 | 1392.1 | 1309.9 | 1280.0 | 1297.5 | 1309.9 | 1277.6 | 1245.2 | 1255.1 |
| 32.5° | 3132.9 | 2271.2 | 1534.1 | 1309.9 | 1265.1 | 1250.2 | 1285.0 | 1297.5 | 1260.1 | 1225.3 | 1207.8 |
| 35° | 3292.3 | 2228.9 | 1432.0 | 1245.2 | 1220.3 | 1250.2 | 1280.0 | 1280.0 | 1205.3 | 1163.0 | 1153.0 |
| 37.5° | 3533.8 | 2181.6 | 1337.3 | 1190.4 | 1173.0 | 1235.2 | 1275.1 | 1247.7 | 1130.6 | 1078.3 | 1065.9 |
| 40° | 3792.8 | 2151.7 | 1245.2 | 1135.6 | 1148.1 | 1210.3 | 1232.7 | 1148.1 | 1028.5 | 996.1 | 986.2 |
| 42.5° | 4168.9 | 2091.9 | 1163.0 | 1088.3 | 1125.6 | 1175.5 | 1175.5 | 1023.5 | 978.7 | 961.3 | 958.8 |
| 45° | 4637.1 | 2049.6 | 1090.8 | 1048.4 | 1093.3 | 1105.7 | 1065.9 | 958.8 | 926.4 | 921.4 | 923.9 |
| 47.5° | 4866.2 | 1967.4 | 1016.1 | 1001.1 | 1033.5 | 1036.0 | 931.4 | 906.5 | 879.1 | 871.6 | 866.6 |
| 50° | 4831.3 | 1820.5 | 918.9 | 938.9 | 983.7 | 958.8 | 849.2 | 854.2 | 829.3 | 826.8 | 814.3 |
| 52.5° | 4587.3 | 1588.9 | 821.8 | 869.1 | 918.9 | 846.7 | 782.0 | 777.0 | 777.0 | 744.6 | 732.2 |
| 55° | 4066.8 | 1280.0 | 704.8 | 764.5 | 824.3 | 712.2 | 694.8 | 689.8 | 677.4 | 647.5 | 640.0 |
| 57.5° | 3220.0 | 938.9 | 530.4 | 595.2 | 699.8 | 605.2 | 602.7 | 580.3 | 547.9 | 525.5 | 525.5 |
| 60° | 1915.1 | 540.4 | 333.7 | 363.6 | 463.2 | 490.6 | 545.4 | 535.4 | 480.6 | 445.8 | 435.8 |
| 62.5° | 874.1 | 278.9 | 211.7 | 216.7 | 249.0 | 318.8 | 428.3 | 495.6 | 418.4 | 358.6 | 353.6 |
| 65° | 293.9 | 206.7 | 174.3 | 166.9 | 171.8 | 191.8 | 256.5 | 351.1 | 333.7 | 276.4 | 266.5 |
| 67.5° | 179.3 | 184.3 | 164.4 | 151.9 | 151.9 | 149.4 | 146.9 | 159.4 | 196.7 | 191.8 | 194.2 |
| 70° | 154.4 | 169.3 | 151.9 | 137.0 | 132.0 | 124.5 | 104.6 | 87.2 | 74.7 | 87.2 | 92.1 |
| 72.5° | 124.5 | 134.5 | 129.5 | 117.0 | 104.6 | 94.6 | 74.7 | 57.3 | 42.3 | 37.4 | 37.4 |
| 75° | 92.1 | 99.6 | 104.6 | 89.7 | 79.7 | 67.2 | 54.8 | 37.4 | 22.4 | 14.9 | 14.9 |
| 77.5° | 67.2 | 74.7 | 77.2 | 69.7 | 59.8 | 47.3 | 34.9 | 24.9 | 12.5 | 5.0 | 5.0 |
| 80° | 57.3 | 67.2 | 74.7 | 69.7 | 62.3 | 44.8 | 32.4 | 17.4 | 10.0 | 2.5 | 2.5 |
| 82.5° | 54.8 | 67.2 | 74.7 | 67.2 | 59.8 | 42.3 | 32.4 | 19.9 | 7.5 | 2.5 | 2.5 |
| 85° | 12.5 | 17.4 | 22.4 | 27.4 | 32.4 | 32.4 | 24.9 | 14.9 | 7.5 | 2.5 | 2.5 |
| 87.5° | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 2.5 | 2.5 | 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)