

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: P451488

Luminaire Tested: **GALN-SA2B-760-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11347 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

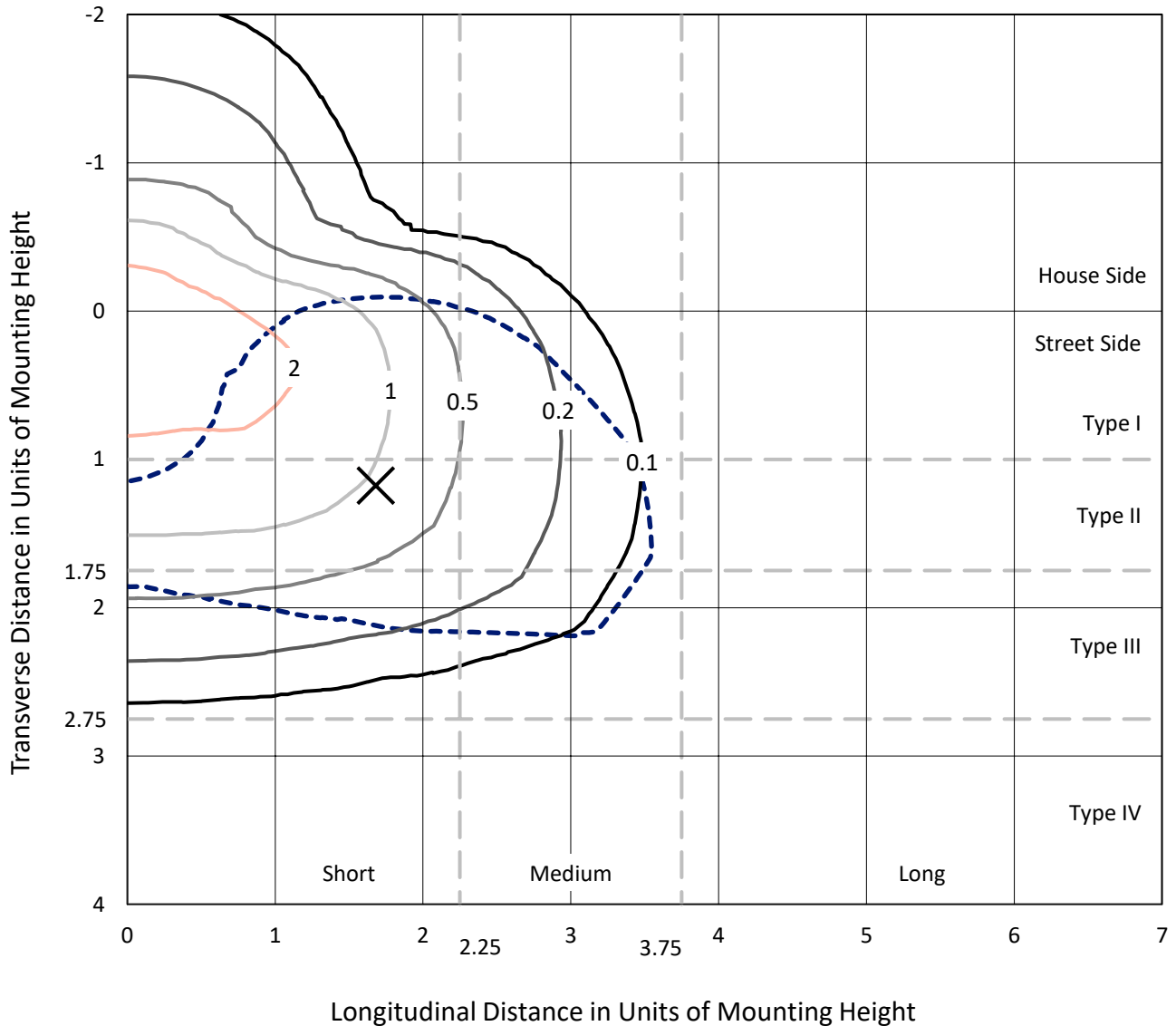
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

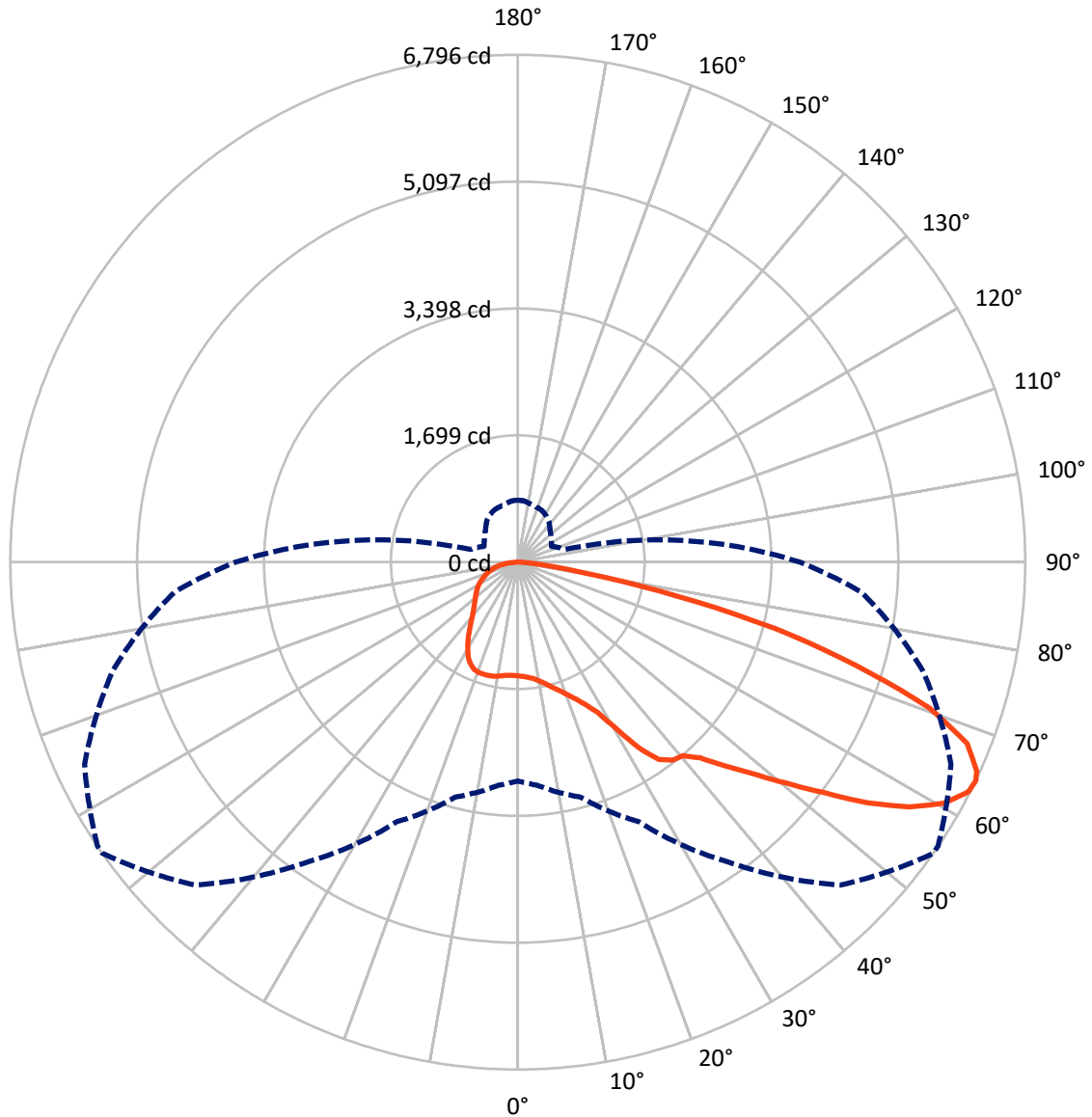
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2756.4 | 0.0 | 2756.4 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 8590.6 | 0.0 | 8590.6 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 11347.0 | 0.0 | 11347.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 148.1 | 1.3 |
| 10°-20° | 467.3 | 4.1 |
| 20°-30° | 831.9 | 7.3 |
| 30°-40° | 1279.9 | 11.3 |
| 40°-50° | 1814.4 | 16.0 |
| 50°-60° | 2626.3 | 23.1 |
| 60°-70° | 2717.9 | 24.0 |
| 70°-80° | 1272.8 | 11.2 |
| 80°-90° | 188.4 | 1.7 |
| 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° | 11347.0 | 100.0 |
| 0°-180° | 11347.0 | 100.0 |



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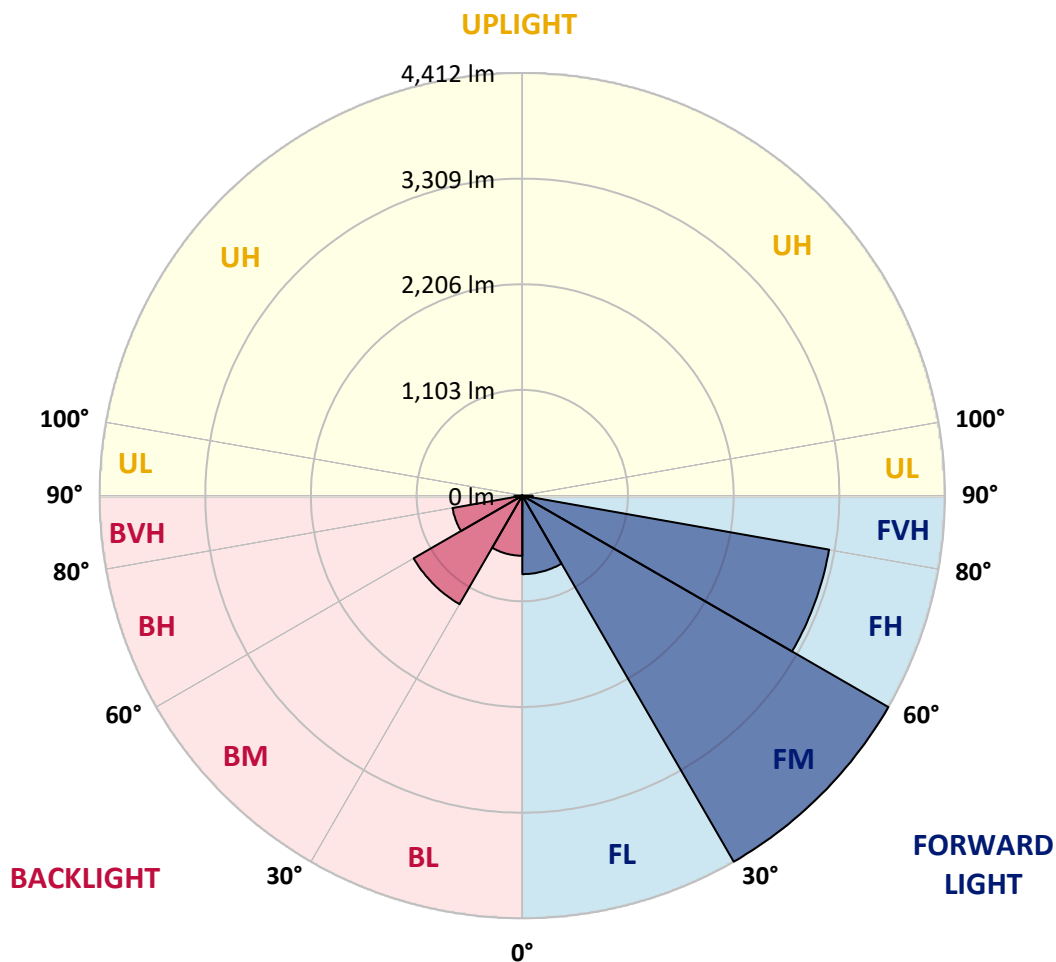
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 819.4 | 7.2 | | | |
| FM | (30°-60°) | 4412.0 | 38.9 | | | |
| FH | (60°-80°) | 3251.2 | 28.7 | | | G2/5000 |
| FVH | (80°-90°) | 107.9 | 1.0 | | | G2/225 |
| BL | (0°-30°) | 627.8 | 5.5 | B2/1000 | | |
| BM | (30°-60°) | 1308.6 | 11.5 | B2/2500 | | |
| BH | (60°-80°) | 739.5 | 6.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 80.5 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 |
| 2.5° | 1539.5 | 1538.9 | 1540.8 | 1538.9 | 1540.1 | 1535.7 | 1533.8 | 1535.1 | 1533.2 | 1530.0 | 1524.3 |
| 5° | 1558.5 | 1557.8 | 1558.5 | 1555.9 | 1557.2 | 1554.7 | 1550.3 | 1551.5 | 1548.4 | 1541.4 | 1533.2 |
| 7.5° | 1590.7 | 1588.2 | 1588.2 | 1587.6 | 1585.0 | 1581.2 | 1578.1 | 1576.8 | 1573.7 | 1564.8 | 1552.2 |
| 10° | 1632.5 | 1632.5 | 1633.1 | 1628.1 | 1631.2 | 1624.3 | 1621.1 | 1620.5 | 1609.7 | 1598.3 | 1580.6 |
| 12.5° | 1687.5 | 1690.7 | 1688.8 | 1686.2 | 1685.0 | 1682.4 | 1671.7 | 1674.2 | 1662.2 | 1642.6 | 1621.1 |
| 15° | 1755.8 | 1760.9 | 1757.7 | 1756.4 | 1753.3 | 1743.8 | 1739.4 | 1737.5 | 1721.7 | 1693.2 | 1664.7 |
| 17.5° | 1846.3 | 1839.9 | 1837.4 | 1834.2 | 1821.0 | 1814.0 | 1806.4 | 1805.2 | 1791.2 | 1757.7 | 1713.4 |
| 20° | 1925.3 | 1934.2 | 1929.1 | 1926.0 | 1912.7 | 1899.4 | 1893.7 | 1891.8 | 1879.8 | 1843.1 | 1772.3 |
| 22.5° | 2019.6 | 2021.5 | 2023.4 | 2015.8 | 2009.4 | 1999.3 | 1989.2 | 1986.0 | 1981.6 | 1943.7 | 1857.0 |
| 25° | 2120.1 | 2127.7 | 2121.4 | 2113.8 | 2106.2 | 2105.6 | 2115.1 | 2113.8 | 2111.9 | 2075.2 | 1969.6 |
| 27.5° | 2284.0 | 2290.9 | 2292.8 | 2284.6 | 2255.5 | 2258.0 | 2279.5 | 2286.5 | 2315.6 | 2254.9 | 2114.4 |
| 30° | 2376.3 | 2383.3 | 2399.1 | 2430.1 | 2476.2 | 2516.7 | 2568.6 | 2584.4 | 2612.2 | 2497.7 | 2286.5 |
| 32.5° | 2433.2 | 2435.8 | 2464.2 | 2521.8 | 2660.3 | 2811.5 | 2952.5 | 2958.2 | 2975.9 | 2815.3 | 2444.0 |
| 35° | 2523.0 | 2524.9 | 2547.7 | 2611.0 | 2773.5 | 3025.2 | 3243.5 | 3250.4 | 3235.9 | 2913.9 | 2517.3 |
| 37.5° | 2633.7 | 2638.8 | 2653.3 | 2705.8 | 2900.0 | 3204.2 | 3364.3 | 3359.2 | 3230.2 | 2992.4 | 2647.0 |
| 40° | 2795.0 | 2795.0 | 2777.9 | 2848.8 | 3033.5 | 3306.7 | 3406.6 | 3397.8 | 3363.6 | 3219.4 | 2844.3 |
| 42.5° | 2937.3 | 2934.8 | 2975.3 | 3023.3 | 3200.4 | 3464.8 | 3584.4 | 3598.9 | 3655.2 | 3504.7 | 3068.9 |
| 45° | 3122.6 | 3134.0 | 3156.8 | 3244.1 | 3484.4 | 3734.9 | 3889.2 | 3903.2 | 3982.8 | 3840.5 | 3331.4 |
| 47.5° | 3309.9 | 3313.7 | 3385.1 | 3501.5 | 3836.1 | 4101.1 | 4227.6 | 4250.4 | 4323.1 | 4233.3 | 3614.1 |
| 50° | 3442.7 | 3478.7 | 3593.2 | 3776.7 | 4198.5 | 4547.7 | 4646.3 | 4673.5 | 4801.9 | 4660.9 | 3943.6 |
| 52.5° | 3583.1 | 3618.5 | 3758.3 | 4037.9 | 4614.7 | 5004.3 | 5125.8 | 5144.1 | 5277.6 | 5093.5 | 4280.8 |
| 55° | 3703.3 | 3736.2 | 3894.9 | 4269.4 | 4946.1 | 5470.5 | 5690.6 | 5669.1 | 5733.0 | 5426.8 | 4540.7 |
| 57.5° | 3722.9 | 3749.5 | 3949.3 | 4417.4 | 5195.3 | 5870.2 | 6185.8 | 6198.5 | 6124.5 | 5676.0 | 4755.1 |
| 60° | 3571.1 | 3625.5 | 3855.1 | 4401.6 | 5307.3 | 6148.5 | 6555.2 | 6564.1 | 6354.1 | 5803.8 | 4840.5 |
| 62.5° | 3302.3 | 3296.6 | 3574.3 | 4147.3 | 5150.4 | 6211.8 | 6772.8 | 6763.3 | 6443.9 | 5742.5 | 4757.7 |
| 64° | 2931.0 | 2999.3 | 3258.6 | 3834.8 | 4897.4 | 6114.4 | 6795.6 | 6790.5 | 6400.9 | 5614.7 | 4616.6 |
| 65° | 2704.6 | 2700.8 | 2956.9 | 3579.3 | 4645.7 | 5967.6 | 6755.1 | 6748.1 | 6311.1 | 5500.2 | 4507.2 |
| 67.5° | 1952.5 | 1961.4 | 2214.4 | 2762.1 | 3776.7 | 5394.0 | 6491.3 | 6465.4 | 5956.9 | 5120.7 | 4091.0 |
| 70° | 1182.8 | 1187.8 | 1386.4 | 1832.3 | 2710.9 | 4360.4 | 5851.2 | 5852.5 | 5414.8 | 4554.0 | 3481.9 |
| 72.5° | 623.0 | 636.3 | 716.0 | 1040.5 | 1646.4 | 3059.4 | 4746.9 | 4859.5 | 4648.9 | 3886.7 | 2750.7 |
| 75° | 346.6 | 348.5 | 404.8 | 513.0 | 840.0 | 1712.2 | 3567.9 | 3600.2 | 3680.5 | 3128.3 | 2034.1 |
| 77.5° | 264.4 | 268.2 | 285.9 | 331.4 | 457.3 | 793.8 | 2159.4 | 2321.3 | 2593.9 | 2205.5 | 1160.6 |
| 80° | 214.4 | 218.2 | 233.4 | 260.6 | 304.2 | 376.3 | 1003.1 | 1090.4 | 1388.3 | 979.1 | 452.9 |
| 82.5° | 167.0 | 164.4 | 184.1 | 201.8 | 221.4 | 222.6 | 411.8 | 455.4 | 565.5 | 421.2 | 196.1 |
| 85° | 124.0 | 124.0 | 139.8 | 136.0 | 142.9 | 130.3 | 181.5 | 200.5 | 226.4 | 179.0 | 91.1 |
| 87.5° | 49.3 | 54.4 | 91.7 | 82.2 | 63.9 | 51.2 | 67.0 | 70.8 | 78.4 | 70.2 | 37.9 |
| 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° | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 | 1522.4 |
| 2.5° | 1525.0 | 1526.9 | 1522.4 | 1519.3 | 1518.0 | 1516.1 | 1514.2 | 1514.8 | 1517.4 | 1519.9 | 1519.3 |
| 5° | 1532.5 | 1533.2 | 1525.6 | 1521.8 | 1519.3 | 1516.7 | 1516.7 | 1518.6 | 1523.7 | 1527.5 | 1527.5 |
| 7.5° | 1551.5 | 1551.5 | 1540.8 | 1533.8 | 1530.0 | 1525.6 | 1524.3 | 1525.0 | 1528.7 | 1533.8 | 1534.4 |
| 10° | 1581.2 | 1578.7 | 1564.8 | 1554.0 | 1547.1 | 1536.3 | 1526.9 | 1521.8 | 1523.7 | 1526.9 | 1526.9 |
| 12.5° | 1617.3 | 1610.3 | 1592.6 | 1578.1 | 1561.0 | 1540.8 | 1521.2 | 1511.0 | 1510.4 | 1513.6 | 1512.3 |
| 15° | 1655.9 | 1648.3 | 1623.6 | 1597.1 | 1567.3 | 1537.6 | 1514.2 | 1499.7 | 1488.3 | 1485.1 | 1492.1 |
| 17.5° | 1700.8 | 1685.0 | 1650.8 | 1614.1 | 1569.9 | 1531.3 | 1494.6 | 1464.9 | 1444.6 | 1438.9 | 1440.8 |
| 20° | 1755.2 | 1734.3 | 1688.1 | 1630.6 | 1568.0 | 1508.5 | 1451.6 | 1411.7 | 1378.8 | 1368.7 | 1370.0 |
| 22.5° | 1830.5 | 1794.4 | 1726.7 | 1638.8 | 1552.2 | 1465.5 | 1386.4 | 1334.6 | 1294.7 | 1278.9 | 1288.4 |
| 25° | 1915.8 | 1876.6 | 1763.4 | 1636.9 | 1511.0 | 1396.6 | 1309.3 | 1241.6 | 1205.5 | 1182.1 | 1187.2 |
| 27.5° | 2033.5 | 1963.9 | 1802.6 | 1619.8 | 1452.2 | 1312.4 | 1211.2 | 1147.4 | 1114.5 | 1102.4 | 1108.1 |
| 30° | 2184.0 | 2077.1 | 1845.0 | 1573.7 | 1359.2 | 1206.2 | 1112.6 | 1070.8 | 1051.2 | 1036.0 | 1041.1 |
| 32.5° | 2292.8 | 2156.8 | 1854.5 | 1495.9 | 1258.7 | 1109.4 | 1045.5 | 1014.5 | 993.0 | 978.5 | 981.6 |
| 35° | 2370.6 | 2224.5 | 1850.1 | 1400.4 | 1153.7 | 1029.7 | 992.4 | 967.1 | 932.3 | 900.7 | 895.0 |
| 37.5° | 2475.0 | 2309.3 | 1817.8 | 1296.0 | 1049.9 | 975.9 | 949.4 | 902.6 | 852.6 | 810.2 | 808.3 |
| 40° | 2635.0 | 2408.6 | 1748.9 | 1173.3 | 961.4 | 936.1 | 903.8 | 843.1 | 789.4 | 755.2 | 752.7 |
| 42.5° | 2800.1 | 2500.3 | 1655.2 | 1044.3 | 888.7 | 894.4 | 855.1 | 795.1 | 762.2 | 740.0 | 737.5 |
| 45° | 3001.8 | 2599.6 | 1554.0 | 932.3 | 834.9 | 855.1 | 812.8 | 778.0 | 758.4 | 743.8 | 740.0 |
| 47.5° | 3220.1 | 2701.4 | 1440.2 | 831.7 | 789.4 | 819.1 | 795.1 | 779.2 | 768.5 | 758.4 | 753.9 |
| 50° | 3455.3 | 2815.3 | 1333.3 | 750.8 | 748.2 | 781.8 | 793.2 | 787.5 | 781.1 | 778.0 | 774.2 |
| 52.5° | 3713.4 | 2931.6 | 1243.5 | 693.9 | 712.2 | 755.2 | 793.8 | 798.2 | 798.2 | 796.3 | 793.8 |
| 55° | 3888.0 | 3012.6 | 1152.4 | 647.7 | 675.5 | 733.7 | 792.5 | 809.6 | 815.9 | 813.4 | 810.9 |
| 57.5° | 4017.0 | 3056.9 | 1037.9 | 607.8 | 644.5 | 712.8 | 785.6 | 810.9 | 817.2 | 820.4 | 819.1 |
| 60° | 4043.6 | 3015.8 | 888.0 | 566.1 | 611.0 | 682.5 | 760.3 | 791.9 | 800.1 | 819.7 | 821.6 |
| 62.5° | 3924.0 | 2889.3 | 738.8 | 525.0 | 569.9 | 636.3 | 726.1 | 770.4 | 786.8 | 817.2 | 820.4 |
| 64° | 3777.3 | 2747.6 | 655.9 | 499.0 | 543.3 | 610.4 | 709.0 | 764.7 | 786.2 | 826.7 | 829.2 |
| 65° | 3669.8 | 2644.5 | 604.0 | 482.6 | 526.2 | 593.3 | 699.5 | 766.6 | 791.9 | 841.2 | 845.0 |
| 67.5° | 3273.8 | 2289.6 | 499.7 | 444.0 | 485.8 | 564.2 | 701.4 | 782.4 | 790.6 | 846.9 | 846.3 |
| 70° | 2709.0 | 1822.9 | 418.7 | 408.6 | 446.5 | 540.8 | 693.9 | 757.1 | 757.7 | 795.1 | 786.2 |
| 72.5° | 2028.4 | 1347.2 | 363.1 | 371.9 | 402.9 | 485.1 | 655.3 | 722.9 | 712.2 | 717.3 | 708.4 |
| 75° | 1393.4 | 891.2 | 312.5 | 332.7 | 357.4 | 428.8 | 600.9 | 656.5 | 639.5 | 633.1 | 626.8 |
| 77.5° | 743.8 | 492.7 | 260.0 | 294.1 | 310.6 | 370.6 | 524.3 | 578.1 | 560.4 | 535.7 | 527.5 |
| 80° | 301.1 | 232.1 | 209.4 | 243.5 | 253.0 | 298.5 | 436.4 | 469.9 | 456.7 | 413.7 | 399.7 |
| 82.5° | 151.2 | 139.1 | 164.4 | 191.6 | 192.3 | 213.2 | 324.5 | 356.1 | 326.4 | 273.9 | 261.9 |
| 85° | 79.1 | 81.6 | 113.2 | 134.7 | 118.9 | 115.1 | 194.8 | 215.7 | 198.0 | 172.0 | 155.0 |
| 87.5° | 28.5 | 32.9 | 59.5 | 58.8 | 41.7 | 22.1 | 43.0 | 20.9 | 11.4 | 7.0 | 8.9 |
| 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)