

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: P533271

Luminaire Tested: **GALN-SA8D-722-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-722-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34256 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

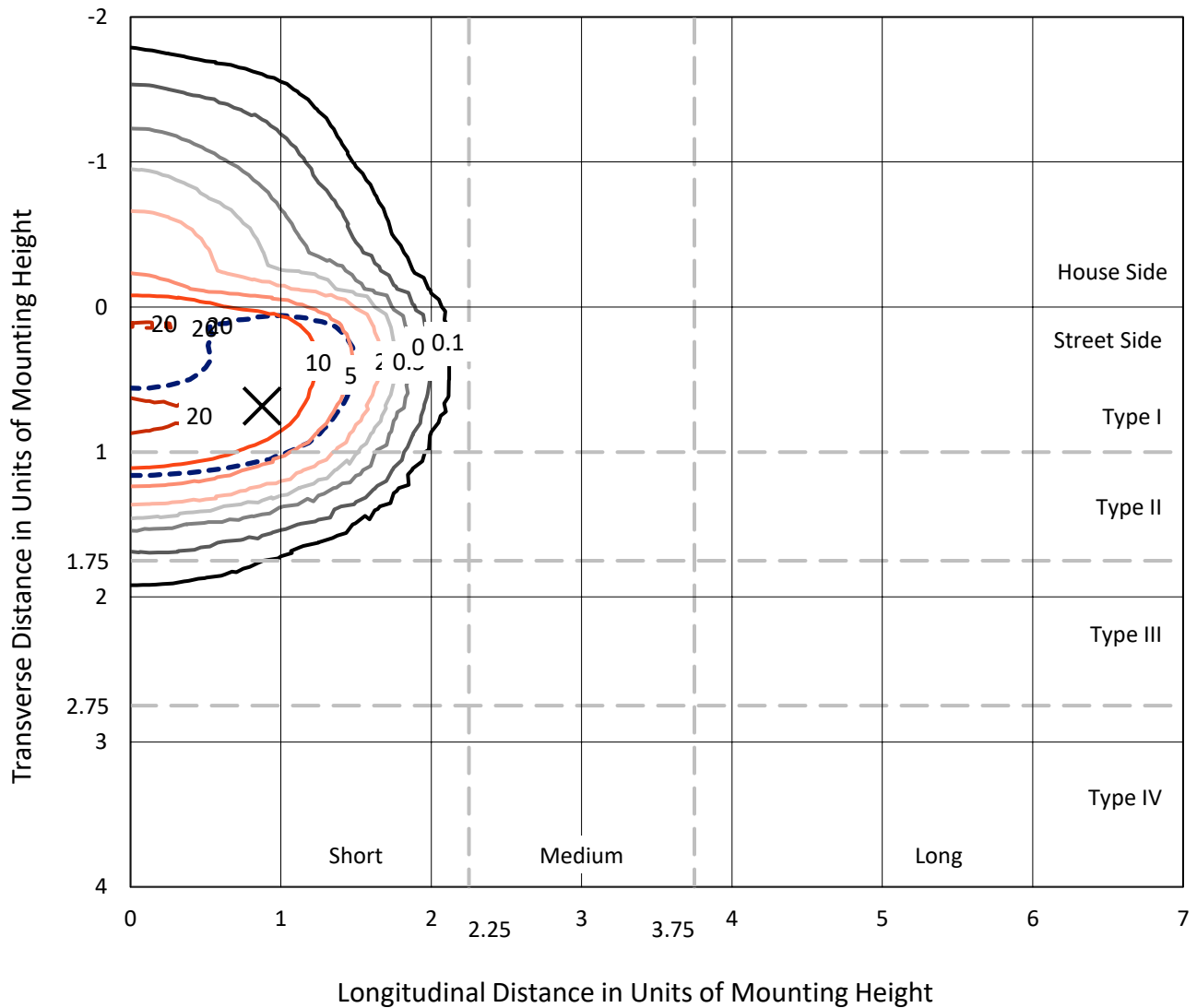
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

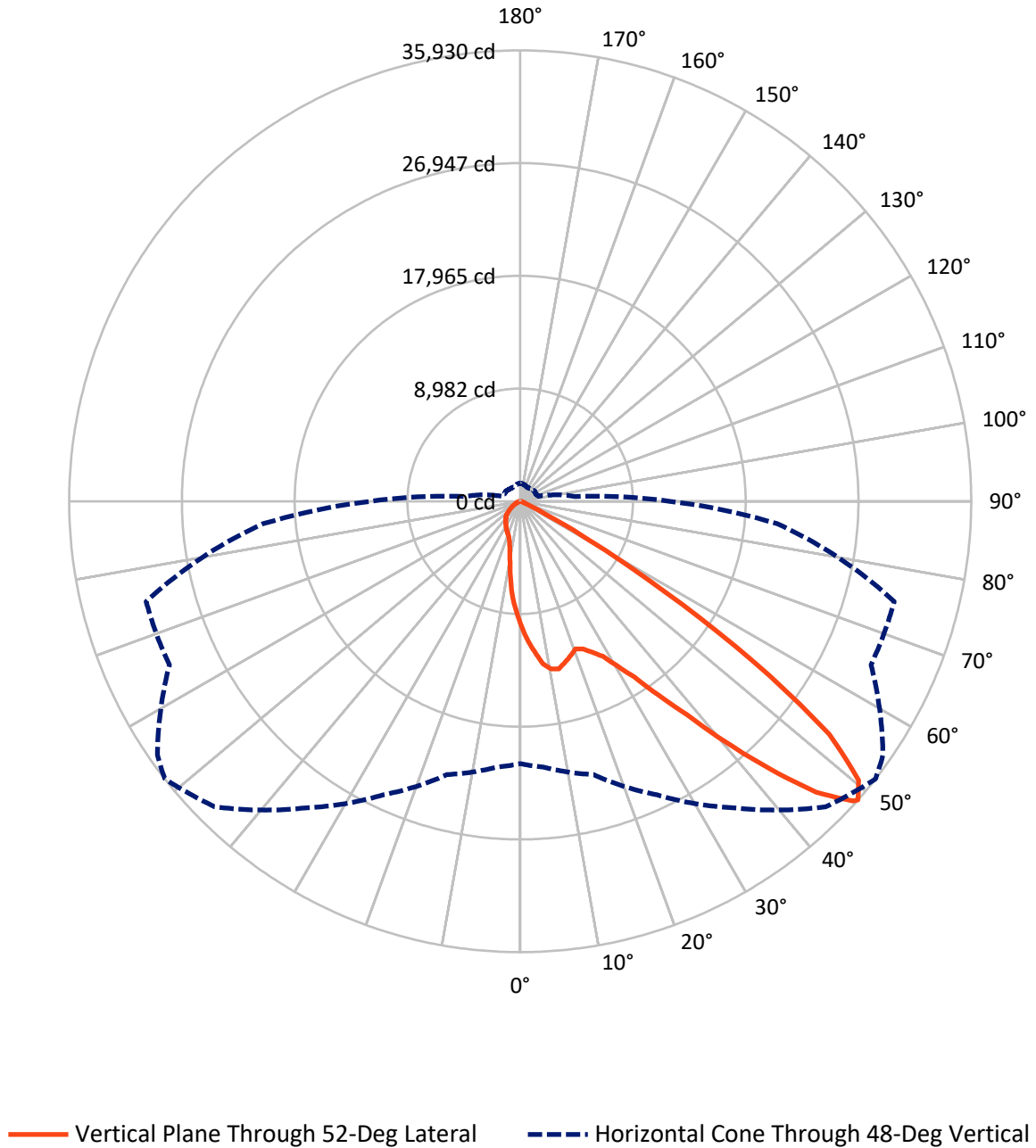
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 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 | 4170.9 | 0.0 | 4170.9 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 30085.1 | 0.0 | 30085.1 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 34256.0 | 0.0 | 34256.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 905.5 | 2.6 |
| 10°-20° | 2366.3 | 6.9 |
| 20°-30° | 4040.2 | 11.8 |
| 30°-40° | 7440.0 | 21.7 |
| 40°-50° | 11554.3 | 33.7 |
| 50°-60° | 6953.8 | 20.3 |
| 60°-70° | 804.3 | 2.3 |
| 70°-80° | 155.7 | 0.5 |
| 80°-90° | 36.0 | 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° | 34256.0 | 100.0 |
| 0°-180° | 34256.0 | 100.0 |

Coefficient of Utilization



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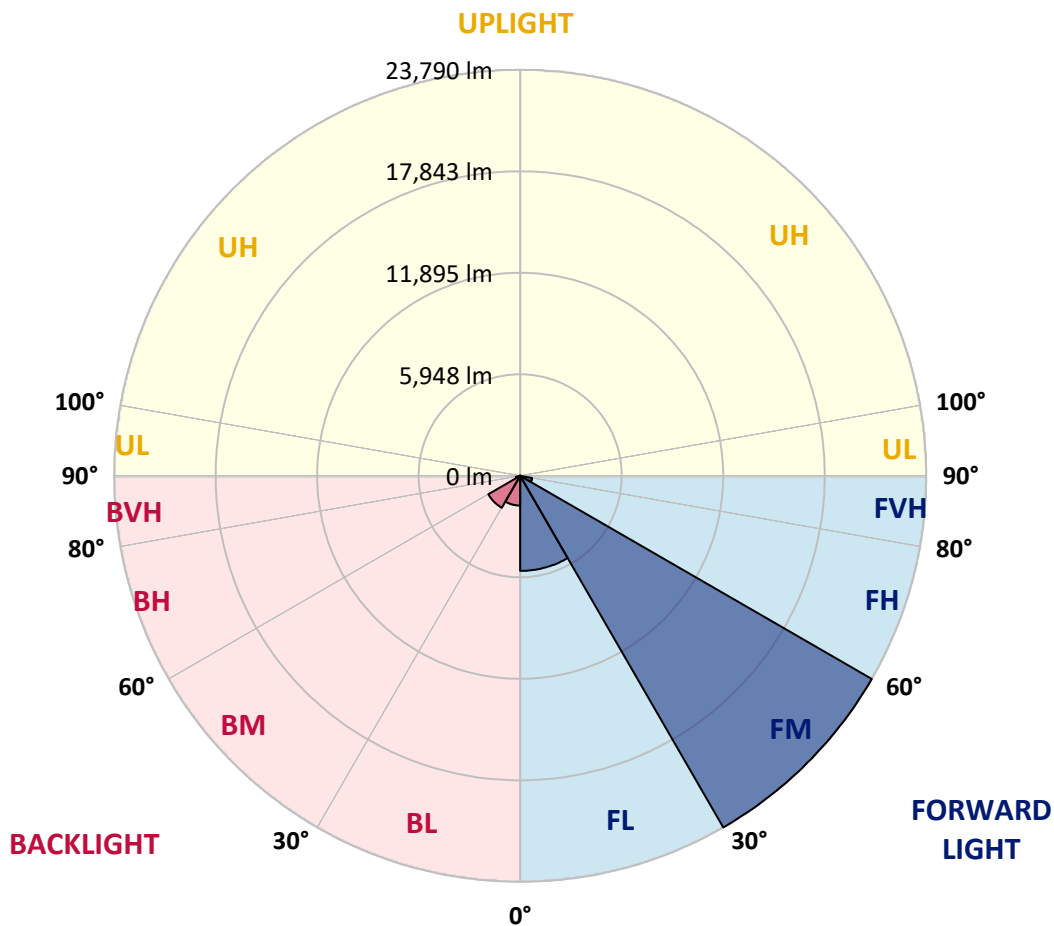
CATALOG NUMBER: GALN-SA8D-722-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 5569.6 | 16.3 | | | |
| FM (30°-60°) | 23790.1 | 69.4 | | | |
| FH (60°-80°) | 708.2 | 2.1 | | | G1/1800 |
| FVH (80°-90°) | 17.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1742.3 | 5.1 | B3/2500 | | |
| BM (30°-60°) | 2158.0 | 6.3 | B2/2500 | | |
| BH (60°-80°) | 251.7 | 0.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 18.9 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 |
| 2.5° | 11989.9 | 11715.3 | 11740.2 | 11560.5 | 11455.6 | 11285.8 | 11056.1 | 11011.2 | 10761.5 | 10421.9 | 10077.3 |
| 5° | 13068.6 | 13003.7 | 13088.5 | 12828.9 | 12838.9 | 12559.2 | 12019.9 | 12029.9 | 11455.6 | 10901.3 | 10367.0 |
| 7.5° | 13138.5 | 12988.7 | 13073.6 | 13303.3 | 13438.1 | 13388.2 | 13083.6 | 12818.9 | 12274.6 | 11460.6 | 10681.6 |
| 10° | 11765.2 | 12049.9 | 12139.7 | 12519.3 | 13058.6 | 13627.9 | 13592.9 | 13607.9 | 13153.5 | 12089.8 | 10951.2 |
| 12.5° | 10941.2 | 10751.5 | 11056.1 | 11285.8 | 12099.8 | 13203.4 | 13707.8 | 13817.6 | 13852.6 | 12699.0 | 11220.9 |
| 15° | 10566.7 | 10566.7 | 10616.7 | 10681.6 | 11270.8 | 12289.6 | 13318.3 | 13637.9 | 14391.9 | 13498.0 | 11645.4 |
| 17.5° | 10801.4 | 10791.4 | 10861.3 | 10726.5 | 10946.2 | 11730.3 | 12958.7 | 13323.3 | 14996.1 | 14282.0 | 11979.9 |
| 20° | 11515.5 | 11550.5 | 11505.5 | 11116.0 | 11131.0 | 11720.3 | 12559.2 | 13133.5 | 15405.6 | 14961.2 | 12424.4 |
| 22.5° | 12509.3 | 12529.2 | 12274.6 | 11850.1 | 11725.3 | 12014.9 | 12788.9 | 13228.4 | 15735.2 | 15775.2 | 12559.2 |
| 25° | 13657.8 | 13577.9 | 13528.0 | 12928.7 | 12549.2 | 12798.9 | 13308.3 | 13562.9 | 15940.0 | 16474.3 | 12943.7 |
| 27.5° | 15250.8 | 15091.0 | 14786.4 | 14252.1 | 13972.4 | 13617.9 | 13982.4 | 14401.9 | 16524.2 | 17453.1 | 13363.2 |
| 30° | 17602.9 | 17463.0 | 16868.8 | 16179.7 | 15445.6 | 15096.0 | 15210.9 | 15440.6 | 17577.9 | 18586.6 | 13917.5 |
| 32.5° | 21143.4 | 20848.8 | 19989.9 | 18676.5 | 17677.8 | 16714.0 | 16684.0 | 16928.7 | 18521.7 | 20154.7 | 14576.7 |
| 35° | 25043.5 | 24953.6 | 23690.2 | 22336.9 | 20404.3 | 18916.2 | 18941.2 | 19071.0 | 20329.4 | 22212.1 | 15440.6 |
| 37.5° | 27635.3 | 28129.6 | 27325.6 | 25872.5 | 24249.5 | 22122.2 | 21582.9 | 21627.8 | 22811.3 | 24649.0 | 16998.6 |
| 40° | 29637.7 | 29218.3 | 29313.1 | 28973.6 | 27865.0 | 26416.8 | 25223.3 | 24988.6 | 25682.7 | 27345.6 | 18546.7 |
| 42.5° | 28763.8 | 28783.8 | 29368.1 | 30172.1 | 30446.7 | 30341.9 | 29123.4 | 28678.9 | 28139.6 | 29552.8 | 20019.8 |
| 45° | 26296.9 | 26811.3 | 27570.3 | 29697.7 | 31565.3 | 33318.1 | 33078.4 | 32339.3 | 29837.5 | 31300.7 | 20868.8 |
| 47.5° | 22361.9 | 22341.9 | 23585.4 | 26351.9 | 30501.7 | 34606.5 | 35695.1 | 35175.8 | 31041.0 | 31105.9 | 20694.0 |
| 48° | 20908.7 | 21268.3 | 22551.6 | 25807.6 | 29827.5 | 34416.7 | 35929.8 | 35275.7 | 30836.2 | 30846.2 | 20544.2 |
| 50° | 15455.6 | 15390.7 | 16988.6 | 20983.6 | 26641.5 | 32339.3 | 34941.1 | 35450.4 | 30831.2 | 29532.9 | 19495.5 |
| 52.5° | 8164.7 | 8444.4 | 9607.9 | 13193.4 | 18836.3 | 26466.7 | 30821.3 | 31615.3 | 29742.6 | 27385.6 | 17987.4 |
| 55° | 3470.6 | 3136.1 | 4029.9 | 5957.5 | 10596.7 | 17682.8 | 22611.6 | 24379.4 | 25148.4 | 24234.5 | 15735.2 |
| 57.5° | 1238.4 | 1353.3 | 1558.0 | 2242.2 | 4454.4 | 9677.8 | 13483.1 | 14856.3 | 17423.1 | 17782.6 | 10721.5 |
| 60° | 794.0 | 809.0 | 873.9 | 1028.7 | 1672.9 | 3730.3 | 6397.0 | 7490.6 | 8654.1 | 8933.8 | 5003.7 |
| 62.5° | 614.2 | 619.2 | 649.2 | 674.2 | 794.0 | 1448.2 | 2402.0 | 2846.4 | 2956.3 | 2541.8 | 1313.3 |
| 65° | 514.4 | 519.3 | 529.3 | 529.3 | 564.3 | 679.1 | 838.9 | 923.8 | 898.9 | 888.9 | 744.1 |
| 67.5° | 394.5 | 404.5 | 424.5 | 424.5 | 444.4 | 414.5 | 464.4 | 494.4 | 559.3 | 679.1 | 634.2 |
| 70° | 309.6 | 314.6 | 329.6 | 339.6 | 339.6 | 299.6 | 334.6 | 364.5 | 409.5 | 504.4 | 499.4 |
| 72.5° | 239.7 | 249.7 | 259.7 | 259.7 | 244.7 | 204.7 | 239.7 | 264.7 | 294.6 | 349.6 | 339.6 |
| 75° | 184.8 | 184.8 | 189.8 | 154.8 | 119.8 | 104.9 | 144.8 | 174.8 | 219.7 | 229.7 | 189.8 |
| 77.5° | 49.9 | 54.9 | 49.9 | 44.9 | 49.9 | 74.9 | 94.9 | 109.9 | 139.8 | 139.8 | 124.8 |
| 80° | 0.0 | 5.0 | 15.0 | 30.0 | 49.9 | 69.9 | 84.9 | 94.9 | 109.9 | 119.8 | 114.9 |
| 82.5° | 0.0 | 5.0 | 15.0 | 30.0 | 44.9 | 54.9 | 74.9 | 79.9 | 89.9 | 104.9 | 104.9 |
| 85° | 0.0 | 5.0 | 10.0 | 20.0 | 30.0 | 35.0 | 35.0 | 30.0 | 30.0 | 25.0 | 20.0 |
| 87.5° | 0.0 | 0.0 | 5.0 | 10.0 | 10.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| 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° | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 | 9892.6 |
| 2.5° | 9942.5 | 9787.7 | 9553.0 | 9183.5 | 8828.9 | 8599.2 | 8379.5 | 8134.8 | 7999.9 | 7990.0 | 7915.0 |
| 5° | 10062.4 | 9712.8 | 9153.5 | 8519.3 | 7840.1 | 7255.9 | 6666.6 | 6282.1 | 5937.5 | 5747.8 | 5712.8 |
| 7.5° | 10127.3 | 9672.8 | 8769.0 | 7705.3 | 6546.8 | 5593.0 | 4933.8 | 4449.4 | 4259.6 | 4119.8 | 4114.8 |
| 10° | 10262.1 | 9602.9 | 8194.7 | 6626.7 | 5193.5 | 4229.7 | 3775.3 | 3555.5 | 3450.7 | 3410.7 | 3350.8 |
| 12.5° | 10362.0 | 9473.1 | 7605.4 | 5518.1 | 4104.8 | 3505.6 | 3305.8 | 3255.9 | 3260.9 | 3280.9 | 3255.9 |
| 15° | 10501.8 | 9358.2 | 6811.4 | 4529.3 | 3445.7 | 3156.0 | 3156.0 | 3166.0 | 3235.9 | 3245.9 | 3240.9 |
| 17.5° | 10491.8 | 9133.5 | 5992.5 | 3730.3 | 3046.2 | 3006.2 | 3021.2 | 3116.1 | 3161.0 | 3176.0 | 3141.1 |
| 20° | 10611.7 | 8923.8 | 5148.5 | 3186.0 | 2821.5 | 2881.4 | 2981.3 | 3006.2 | 3061.2 | 3071.1 | 3031.2 |
| 22.5° | 10576.7 | 8399.4 | 4364.5 | 2756.5 | 2651.7 | 2766.5 | 2866.4 | 2896.4 | 2881.4 | 2851.4 | 2846.4 |
| 25° | 10511.8 | 7950.0 | 3645.4 | 2471.9 | 2526.8 | 2651.7 | 2746.5 | 2691.6 | 2661.7 | 2666.6 | 2671.6 |
| 27.5° | 10396.9 | 7380.7 | 3051.2 | 2272.1 | 2357.0 | 2541.8 | 2536.8 | 2516.8 | 2546.8 | 2521.8 | 2546.8 |
| 30° | 10377.0 | 6811.4 | 2561.8 | 2092.4 | 2232.2 | 2367.0 | 2377.0 | 2412.0 | 2446.9 | 2402.0 | 2446.9 |
| 32.5° | 10406.9 | 6187.2 | 2212.2 | 1982.5 | 2157.3 | 2162.3 | 2272.1 | 2307.1 | 2282.1 | 2182.3 | 2192.2 |
| 35° | 10636.6 | 5707.8 | 1957.5 | 1922.6 | 2037.4 | 2042.4 | 2147.3 | 2102.4 | 1992.5 | 1932.6 | 1967.5 |
| 37.5° | 11121.0 | 5308.3 | 1837.7 | 1867.7 | 1877.6 | 1942.6 | 1947.6 | 1857.7 | 1867.7 | 1862.7 | 1882.6 |
| 40° | 11740.2 | 5003.7 | 1752.8 | 1817.7 | 1807.7 | 1852.7 | 1672.9 | 1722.8 | 1767.8 | 1782.8 | 1792.7 |
| 42.5° | 12164.7 | 4784.0 | 1697.9 | 1737.8 | 1717.8 | 1637.9 | 1538.1 | 1588.0 | 1623.0 | 1677.9 | 1687.9 |
| 45° | 12354.5 | 4609.2 | 1632.9 | 1598.0 | 1598.0 | 1453.2 | 1413.2 | 1423.2 | 1503.1 | 1563.0 | 1553.0 |
| 47.5° | 12044.9 | 4439.4 | 1518.1 | 1413.2 | 1448.2 | 1328.3 | 1283.4 | 1283.4 | 1368.3 | 1443.2 | 1428.2 |
| 48° | 11925.0 | 4369.5 | 1523.1 | 1373.3 | 1398.2 | 1308.4 | 1263.4 | 1253.4 | 1348.3 | 1418.2 | 1418.2 |
| 50° | 11330.8 | 4109.8 | 1393.2 | 1263.4 | 1213.5 | 1203.5 | 1173.5 | 1183.5 | 1243.4 | 1308.4 | 1308.4 |
| 52.5° | 10172.2 | 3550.5 | 1178.5 | 1083.6 | 993.8 | 1053.7 | 1068.7 | 1048.7 | 1078.6 | 1138.6 | 1133.6 |
| 55° | 8489.3 | 2726.6 | 943.8 | 898.9 | 829.0 | 893.9 | 923.8 | 898.9 | 868.9 | 913.9 | 913.9 |
| 57.5° | 5438.2 | 1468.2 | 754.1 | 764.0 | 694.1 | 759.0 | 784.0 | 724.1 | 669.2 | 704.1 | 699.1 |
| 60° | 2451.9 | 878.9 | 619.2 | 604.2 | 559.3 | 634.2 | 674.2 | 604.2 | 529.3 | 554.3 | 579.3 |
| 62.5° | 918.8 | 624.2 | 469.4 | 459.4 | 449.4 | 519.3 | 539.3 | 484.4 | 409.5 | 424.5 | 429.5 |
| 65° | 674.2 | 549.3 | 374.5 | 339.6 | 359.5 | 409.5 | 399.5 | 344.6 | 294.6 | 294.6 | 304.6 |
| 67.5° | 574.3 | 479.4 | 304.6 | 264.7 | 264.7 | 269.7 | 249.7 | 219.7 | 204.7 | 214.7 | 224.7 |
| 70° | 449.4 | 379.5 | 239.7 | 204.7 | 184.8 | 164.8 | 144.8 | 139.8 | 124.8 | 139.8 | 134.8 |
| 72.5° | 289.6 | 254.7 | 184.8 | 154.8 | 139.8 | 114.9 | 94.9 | 89.9 | 74.9 | 69.9 | 69.9 |
| 75° | 154.8 | 154.8 | 144.8 | 124.8 | 109.9 | 89.9 | 74.9 | 59.9 | 39.9 | 30.0 | 30.0 |
| 77.5° | 109.9 | 119.8 | 129.8 | 119.8 | 99.9 | 74.9 | 59.9 | 39.9 | 20.0 | 10.0 | 10.0 |
| 80° | 104.9 | 119.8 | 129.8 | 114.9 | 99.9 | 74.9 | 54.9 | 30.0 | 15.0 | 5.0 | 5.0 |
| 82.5° | 94.9 | 109.9 | 119.8 | 104.9 | 89.9 | 64.9 | 49.9 | 30.0 | 15.0 | 5.0 | 5.0 |
| 85° | 20.0 | 25.0 | 30.0 | 30.0 | 35.0 | 44.9 | 35.0 | 25.0 | 10.0 | 5.0 | 5.0 |
| 87.5° | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 10.0 | 10.0 | 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 |

(END OF REPORT)