

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: P457219

Luminaire Tested: **GALN-SA8C-740-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457219
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55569 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

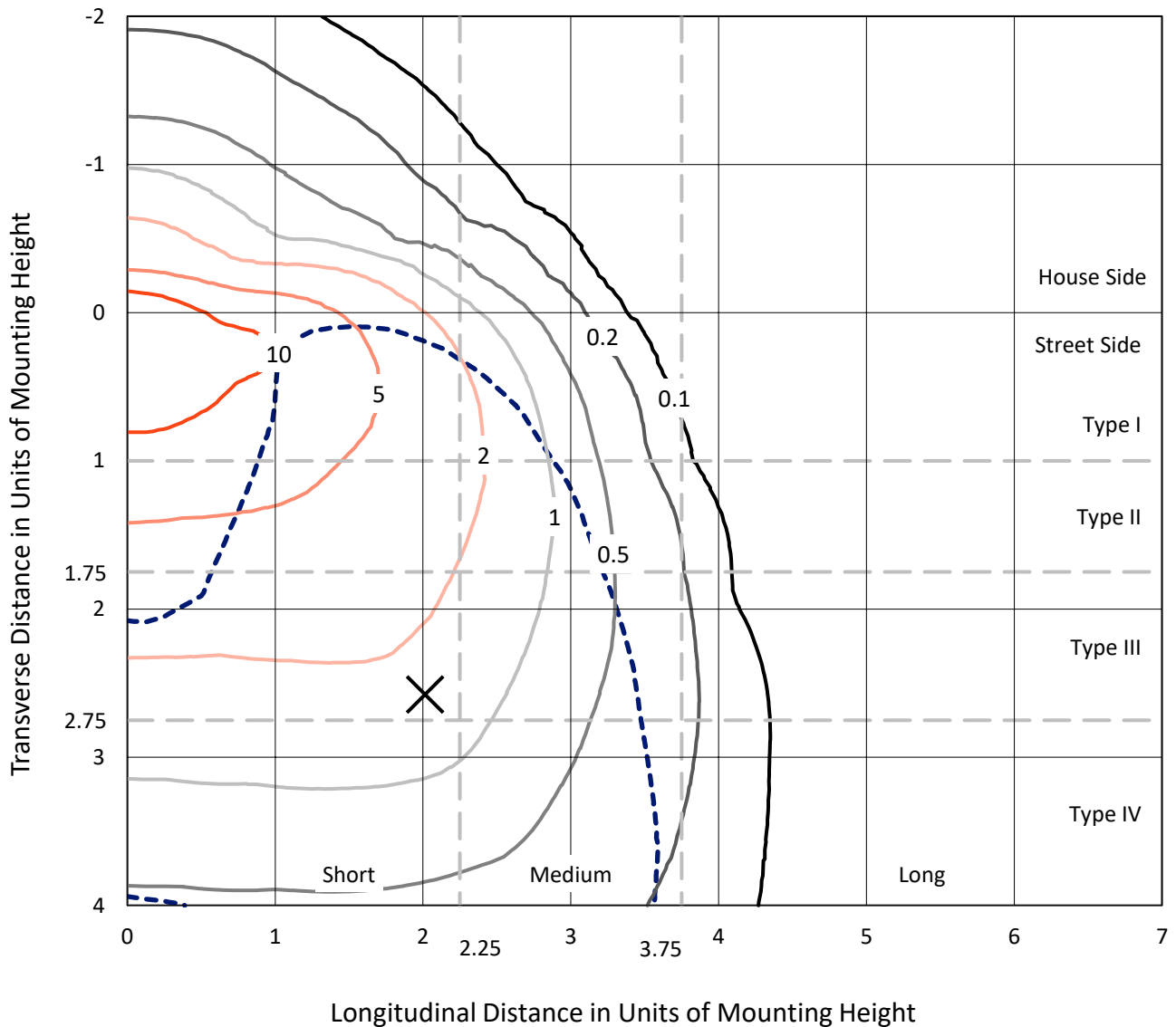
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

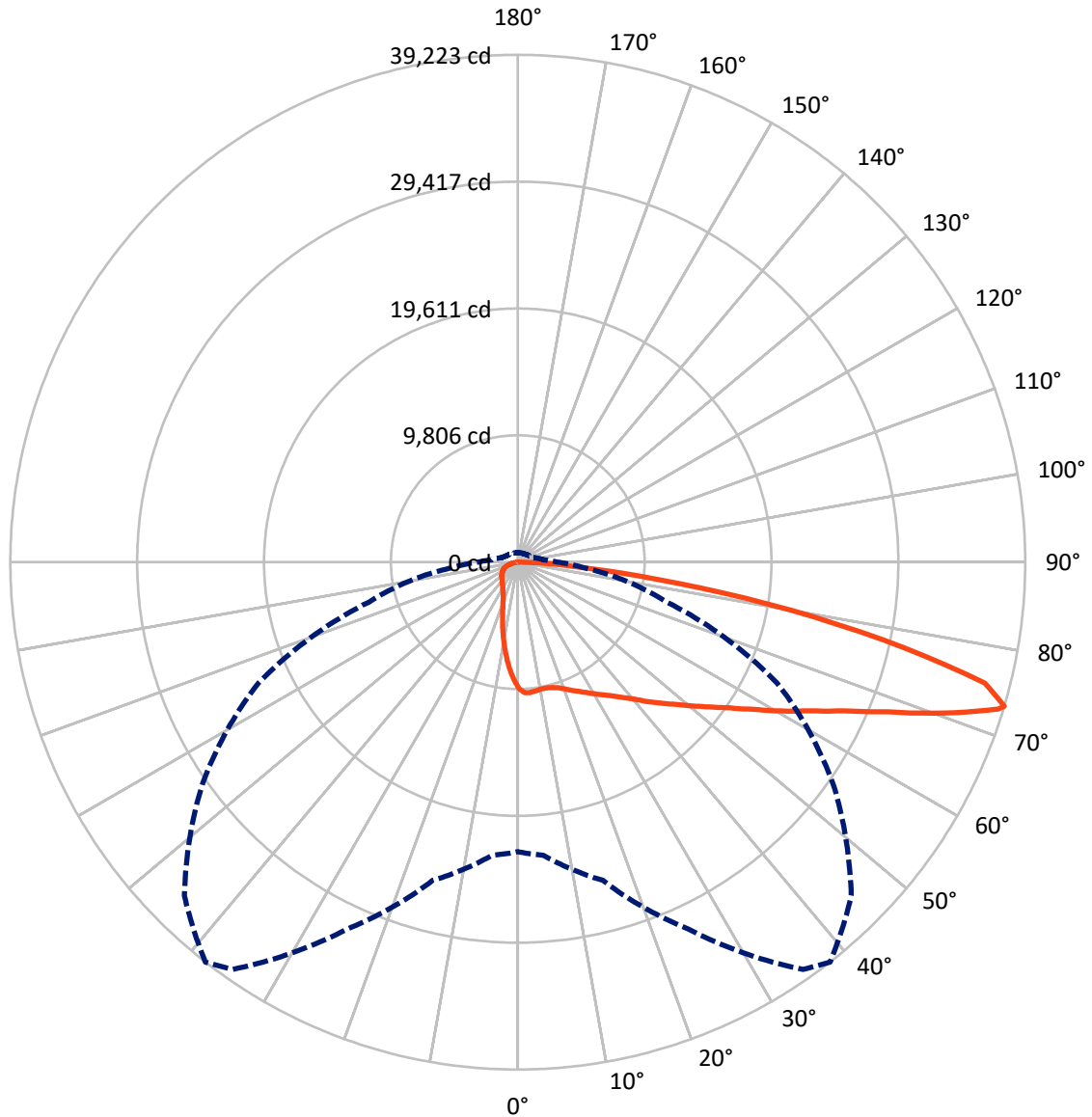
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7470.1 | 0.0 | 7470.1 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 48098.9 | 0.0 | 48098.9 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 55569.0 | 0.0 | 55569.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 852.1 | 1.5 |
| 10°-20° | 2185.2 | 3.9 |
| 20°-30° | 3402.8 | 6.1 |
| 30°-40° | 4991.1 | 9.0 |
| 40°-50° | 7403.8 | 13.3 |
| 50°-60° | 10489.7 | 18.9 |
| 60°-70° | 13306.5 | 23.9 |
| 70°-80° | 11076.6 | 19.9 |
| 80°-90° | 1861.0 | 3.3 |
| 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° | 55569.0 | 100.0 |
| 0°-180° | 55569.0 | 100.0 |

Coefficient of Utilization



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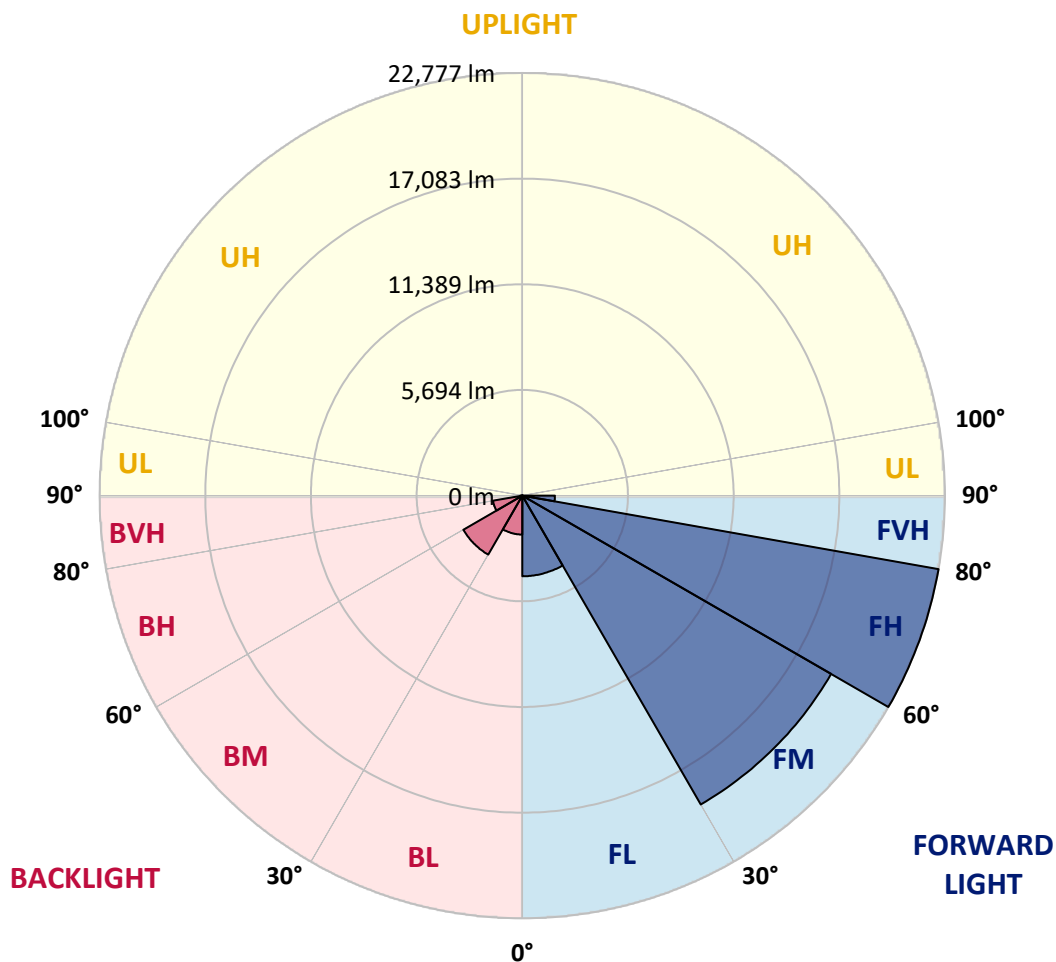
CATALOG NUMBER: GALN-SA8C-740-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4344.0 | 7.8 | | | |
| FM | (30°-60°) | 19217.3 | 34.6 | | | |
| FH | (60°-80°) | 22777.5 | 41.0 | | | G5 |
| FVH | (80°-90°) | 1760.1 | 3.2 | | | G5 |
| BL | (0°-30°) | 2096.2 | 3.8 | B3/2500 | | |
| BM | (30°-60°) | 3667.4 | 6.6 | B3/5000 | | |
| BH | (60°-80°) | 1605.6 | 2.9 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 100.9 | 0.2 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 |
| 2.5° | 10154.8 | 10205.0 | 10179.9 | 10145.4 | 10123.4 | 10101.4 | 10070.1 | 9979.1 | 9906.9 | 9828.4 | 9706.0 |
| 5° | 10230.1 | 10261.5 | 10239.5 | 10195.6 | 10145.4 | 10123.4 | 10063.8 | 9944.5 | 9828.4 | 9696.6 | 9514.6 |
| 7.5° | 10186.2 | 10198.7 | 10173.6 | 10120.3 | 10076.3 | 10035.5 | 9966.5 | 9834.7 | 9693.5 | 9533.5 | 9295.0 |
| 10° | 10029.3 | 10076.3 | 10076.3 | 10032.4 | 9988.5 | 9966.5 | 9897.5 | 9771.9 | 9643.3 | 9461.3 | 9178.9 |
| 12.5° | 9900.6 | 9950.8 | 9991.6 | 9979.1 | 9975.9 | 9975.9 | 9922.6 | 9828.4 | 9677.8 | 9505.2 | 9169.4 |
| 15° | 9812.7 | 9872.4 | 9960.2 | 10010.4 | 10041.8 | 10051.2 | 10029.3 | 9947.7 | 9793.9 | 9593.1 | 9207.1 |
| 17.5° | 9793.9 | 9866.1 | 10026.1 | 10136.0 | 10217.6 | 10214.4 | 10208.1 | 10095.2 | 9925.7 | 9718.6 | 9254.2 |
| 20° | 9878.6 | 9972.8 | 10195.6 | 10368.2 | 10487.4 | 10465.5 | 10430.9 | 10283.5 | 10085.8 | 9853.5 | 9298.1 |
| 22.5° | 10132.8 | 10230.1 | 10474.9 | 10663.2 | 10779.3 | 10779.3 | 10675.7 | 10481.1 | 10270.9 | 10010.4 | 9357.7 |
| 25° | 10496.8 | 10603.5 | 10864.0 | 11055.4 | 11108.8 | 11068.0 | 10964.4 | 10729.1 | 10487.4 | 10236.4 | 9483.2 |
| 27.5° | 10942.4 | 11071.1 | 11312.7 | 11472.8 | 11457.1 | 11425.7 | 11319.0 | 11017.8 | 10776.1 | 10547.0 | 9696.6 |
| 30° | 11497.9 | 11592.0 | 11843.1 | 11880.7 | 11824.2 | 11818.0 | 11667.3 | 11366.1 | 11140.1 | 10964.4 | 10001.0 |
| 32.5° | 12021.9 | 12106.7 | 12307.5 | 12323.2 | 12222.8 | 12235.3 | 12094.1 | 11818.0 | 11689.3 | 11626.5 | 10512.5 |
| 35° | 12577.4 | 12621.3 | 12793.9 | 12775.1 | 12709.2 | 12699.8 | 12643.3 | 12379.7 | 12420.5 | 12533.4 | 11237.4 |
| 37.5° | 13041.8 | 13129.7 | 13227.0 | 13242.6 | 13239.5 | 13270.9 | 13308.5 | 13183.0 | 13418.4 | 13773.0 | 12188.3 |
| 40° | 13468.6 | 13543.9 | 13688.3 | 13738.5 | 13860.8 | 13923.6 | 14052.3 | 14055.4 | 14598.3 | 15182.0 | 13358.8 |
| 42.5° | 13757.3 | 13886.0 | 14155.8 | 14246.8 | 14544.9 | 14733.2 | 14924.7 | 15128.6 | 15916.3 | 16666.3 | 14739.5 |
| 45° | 14008.3 | 14177.8 | 14626.5 | 14909.0 | 15313.8 | 15542.9 | 15947.7 | 16374.4 | 17507.3 | 18489.5 | 16142.2 |
| 47.5° | 14388.0 | 14538.7 | 15053.3 | 15552.3 | 16164.2 | 16427.8 | 17033.4 | 17670.5 | 19151.6 | 20228.0 | 17485.3 |
| 50° | 14915.2 | 15006.2 | 15530.3 | 16343.1 | 17124.4 | 17463.4 | 18263.6 | 19183.0 | 20909.0 | 21944.5 | 18665.2 |
| 52.5° | 15589.9 | 15627.6 | 16044.9 | 17127.6 | 18156.9 | 18577.4 | 19638.0 | 20711.3 | 22446.6 | 23435.1 | 19600.4 |
| 55° | 16387.0 | 16324.2 | 16650.6 | 17959.2 | 19336.8 | 19885.9 | 21025.1 | 22258.3 | 24175.7 | 24640.1 | 20281.3 |
| 57.5° | 17174.6 | 17077.4 | 17337.8 | 18969.6 | 20792.8 | 21455.0 | 22782.4 | 23852.5 | 25719.6 | 25766.7 | 20758.3 |
| 60° | 18009.4 | 17937.2 | 18247.9 | 20155.8 | 22578.4 | 23362.9 | 24589.9 | 25506.2 | 27213.3 | 26551.2 | 20833.6 |
| 62.5° | 18866.1 | 18750.0 | 19192.4 | 21489.5 | 24589.9 | 25302.2 | 26491.6 | 27263.5 | 28678.8 | 26843.0 | 20108.7 |
| 65° | 19697.7 | 19644.3 | 20328.4 | 23074.2 | 26880.7 | 27690.3 | 28845.1 | 29369.2 | 29852.4 | 26403.7 | 18310.6 |
| 67.5° | 20582.6 | 20689.3 | 21781.3 | 25189.3 | 29868.1 | 30884.9 | 32130.7 | 31638.0 | 30188.2 | 24323.2 | 15420.5 |
| 70° | 21932.0 | 22001.0 | 23689.3 | 27960.2 | 33718.5 | 34945.5 | 35548.0 | 32444.5 | 28569.0 | 20372.3 | 11592.0 |
| 72.5° | 22512.5 | 22816.9 | 25393.3 | 30869.2 | 38093.0 | 38843.0 | 36696.6 | 30646.4 | 23799.1 | 13838.9 | 6091.0 |
| 73° | 22383.8 | 22747.9 | 25471.7 | 31311.6 | 38435.1 | 39222.7 | 36451.8 | 29720.6 | 22123.4 | 11918.4 | 5221.7 |
| 75° | 20780.3 | 21229.0 | 24451.8 | 30941.4 | 37769.8 | 37299.1 | 32516.7 | 25330.5 | 14949.8 | 5419.4 | 2378.7 |
| 77.5° | 16396.4 | 16525.1 | 19374.4 | 24985.3 | 29742.6 | 28870.2 | 24335.7 | 15831.6 | 6106.7 | 2014.6 | 1349.4 |
| 80° | 8224.9 | 8698.7 | 10920.5 | 14312.7 | 19889.1 | 19603.5 | 15360.8 | 7487.4 | 2545.0 | 1183.1 | 894.3 |
| 82.5° | 3957.1 | 4292.9 | 5319.0 | 6979.1 | 10989.5 | 10729.1 | 7606.7 | 4092.0 | 1616.1 | 690.4 | 527.2 |
| 85° | 2548.1 | 2799.2 | 3386.0 | 3329.5 | 4518.8 | 4314.8 | 3417.4 | 3097.3 | 957.1 | 360.9 | 367.2 |
| 87.5° | 1682.0 | 1842.0 | 2209.2 | 1766.7 | 1644.3 | 1487.4 | 1509.4 | 1744.8 | 188.3 | 138.1 | 50.2 |
| 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° | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 | 9762.5 |
| 2.5° | 9655.8 | 9615.0 | 9480.1 | 9348.3 | 9222.8 | 9103.5 | 9025.1 | 8921.5 | 8852.5 | 8871.3 | 8899.6 |
| 5° | 9414.2 | 9323.2 | 9084.7 | 8852.5 | 8632.8 | 8372.4 | 8162.1 | 7992.7 | 7864.0 | 7816.9 | 7807.5 |
| 7.5° | 9160.0 | 9006.3 | 8664.2 | 8265.7 | 7892.2 | 7569.0 | 7195.6 | 7010.4 | 6793.9 | 6718.6 | 6693.5 |
| 10° | 9006.3 | 8799.1 | 8319.0 | 7763.6 | 7201.9 | 6665.3 | 6260.4 | 5930.9 | 5632.8 | 5576.3 | 5548.1 |
| 12.5° | 8962.3 | 8689.3 | 8042.9 | 7327.4 | 6580.5 | 5921.5 | 5322.2 | 4889.1 | 4600.4 | 4534.5 | 4437.2 |
| 15° | 8937.2 | 8598.3 | 7785.5 | 6888.1 | 5940.4 | 5137.0 | 4506.3 | 4001.0 | 3737.4 | 3561.7 | 3564.8 |
| 17.5° | 8915.3 | 8494.8 | 7496.8 | 6407.9 | 5388.1 | 4462.3 | 3765.7 | 3310.7 | 3069.0 | 2974.9 | 2965.5 |
| 20° | 8883.9 | 8372.4 | 7164.2 | 5902.7 | 4757.3 | 3847.3 | 3216.5 | 2877.6 | 2714.4 | 2636.0 | 2632.8 |
| 22.5° | 8871.3 | 8253.1 | 6837.9 | 5388.1 | 4198.7 | 3373.4 | 2852.5 | 2614.0 | 2510.5 | 2457.1 | 2457.1 |
| 25° | 8902.7 | 8168.4 | 6495.8 | 4898.5 | 3702.9 | 2968.6 | 2601.5 | 2438.3 | 2378.7 | 2350.4 | 2341.0 |
| 27.5° | 9000.0 | 8130.7 | 6156.9 | 4409.0 | 3247.9 | 2692.5 | 2432.0 | 2319.0 | 2275.1 | 2253.1 | 2256.3 |
| 30° | 9185.1 | 8127.6 | 5824.3 | 3925.7 | 2909.0 | 2482.2 | 2297.1 | 2218.6 | 2184.1 | 2171.5 | 2168.4 |
| 32.5° | 9483.2 | 8196.6 | 5497.9 | 3527.2 | 2623.4 | 2306.5 | 2171.5 | 2115.1 | 2099.4 | 2090.0 | 2086.8 |
| 35° | 9988.5 | 8391.2 | 5174.7 | 3163.2 | 2403.8 | 2149.6 | 2052.3 | 2024.1 | 2002.1 | 2011.5 | 2014.6 |
| 37.5° | 10669.4 | 8727.0 | 4867.1 | 2877.6 | 2237.4 | 2033.5 | 1951.9 | 1926.8 | 1914.2 | 1923.6 | 1933.1 |
| 40° | 11582.6 | 9210.2 | 4609.8 | 2648.5 | 2118.2 | 1936.2 | 1864.0 | 1842.0 | 1829.5 | 1845.2 | 1848.3 |
| 42.5° | 12589.9 | 9768.8 | 4396.4 | 2469.7 | 2020.9 | 1854.6 | 1785.6 | 1760.5 | 1751.0 | 1760.5 | 1763.6 |
| 45° | 13625.5 | 10418.4 | 4286.6 | 2341.0 | 1939.3 | 1795.0 | 1722.8 | 1694.6 | 1672.6 | 1666.3 | 1675.7 |
| 47.5° | 14645.4 | 10983.2 | 4283.5 | 2262.5 | 1873.4 | 1741.6 | 1663.2 | 1631.8 | 1603.6 | 1587.9 | 1584.7 |
| 50° | 15477.0 | 11432.0 | 4358.8 | 2228.0 | 1816.9 | 1682.0 | 1603.6 | 1572.2 | 1534.5 | 1503.1 | 1509.4 |
| 52.5° | 16104.6 | 11723.8 | 4393.3 | 2212.3 | 1785.6 | 1619.2 | 1540.8 | 1512.5 | 1468.6 | 1427.8 | 1427.8 |
| 55° | 16509.4 | 11792.9 | 4308.6 | 2196.6 | 1760.5 | 1553.3 | 1468.6 | 1443.5 | 1399.6 | 1358.8 | 1358.8 |
| 57.5° | 16647.5 | 11579.5 | 4004.2 | 2159.0 | 1735.4 | 1496.9 | 1396.4 | 1374.5 | 1340.0 | 1299.2 | 1292.9 |
| 60° | 16327.4 | 10857.7 | 3470.7 | 2046.0 | 1685.1 | 1437.2 | 1318.0 | 1308.6 | 1296.0 | 1261.5 | 1258.4 |
| 62.5° | 15094.1 | 9326.3 | 2890.2 | 1898.5 | 1600.4 | 1374.5 | 1245.8 | 1261.5 | 1270.9 | 1252.1 | 1249.0 |
| 65° | 13041.8 | 7572.2 | 2469.7 | 1694.6 | 1487.4 | 1286.6 | 1167.4 | 1208.2 | 1233.3 | 1233.3 | 1227.0 |
| 67.5° | 10578.4 | 5814.8 | 2080.5 | 1518.8 | 1346.2 | 1167.4 | 1079.5 | 1110.9 | 1129.7 | 1123.4 | 1139.1 |
| 70° | 7518.8 | 3938.3 | 1694.6 | 1318.0 | 1167.4 | 1032.4 | 966.5 | 966.5 | 954.0 | 947.7 | 947.7 |
| 72.5° | 3646.4 | 2250.0 | 1374.5 | 1101.5 | 994.8 | 881.8 | 828.5 | 806.5 | 781.4 | 778.2 | 762.6 |
| 73° | 3047.1 | 2017.8 | 1311.7 | 1060.7 | 954.0 | 859.8 | 800.2 | 765.7 | 750.0 | 737.4 | 734.3 |
| 75° | 1854.6 | 1531.4 | 1095.2 | 894.3 | 812.8 | 740.6 | 687.2 | 655.9 | 640.2 | 630.8 | 627.6 |
| 77.5° | 1220.7 | 1142.3 | 850.4 | 684.1 | 621.3 | 577.4 | 555.4 | 524.1 | 514.6 | 502.1 | 502.1 |
| 80° | 910.0 | 872.4 | 608.8 | 483.3 | 445.6 | 407.9 | 401.7 | 395.4 | 370.3 | 354.6 | 348.3 |
| 82.5° | 586.8 | 621.3 | 414.2 | 323.2 | 282.4 | 251.0 | 254.2 | 263.6 | 238.5 | 216.5 | 210.3 |
| 85° | 417.4 | 448.7 | 251.0 | 147.5 | 119.2 | 103.6 | 116.1 | 103.6 | 106.7 | 84.7 | 69.0 |
| 87.5° | 69.0 | 119.2 | 43.9 | 18.8 | 9.4 | 6.3 | 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)