

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: P455668

Luminaire Tested: **GALN-SA6D-760-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45772 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

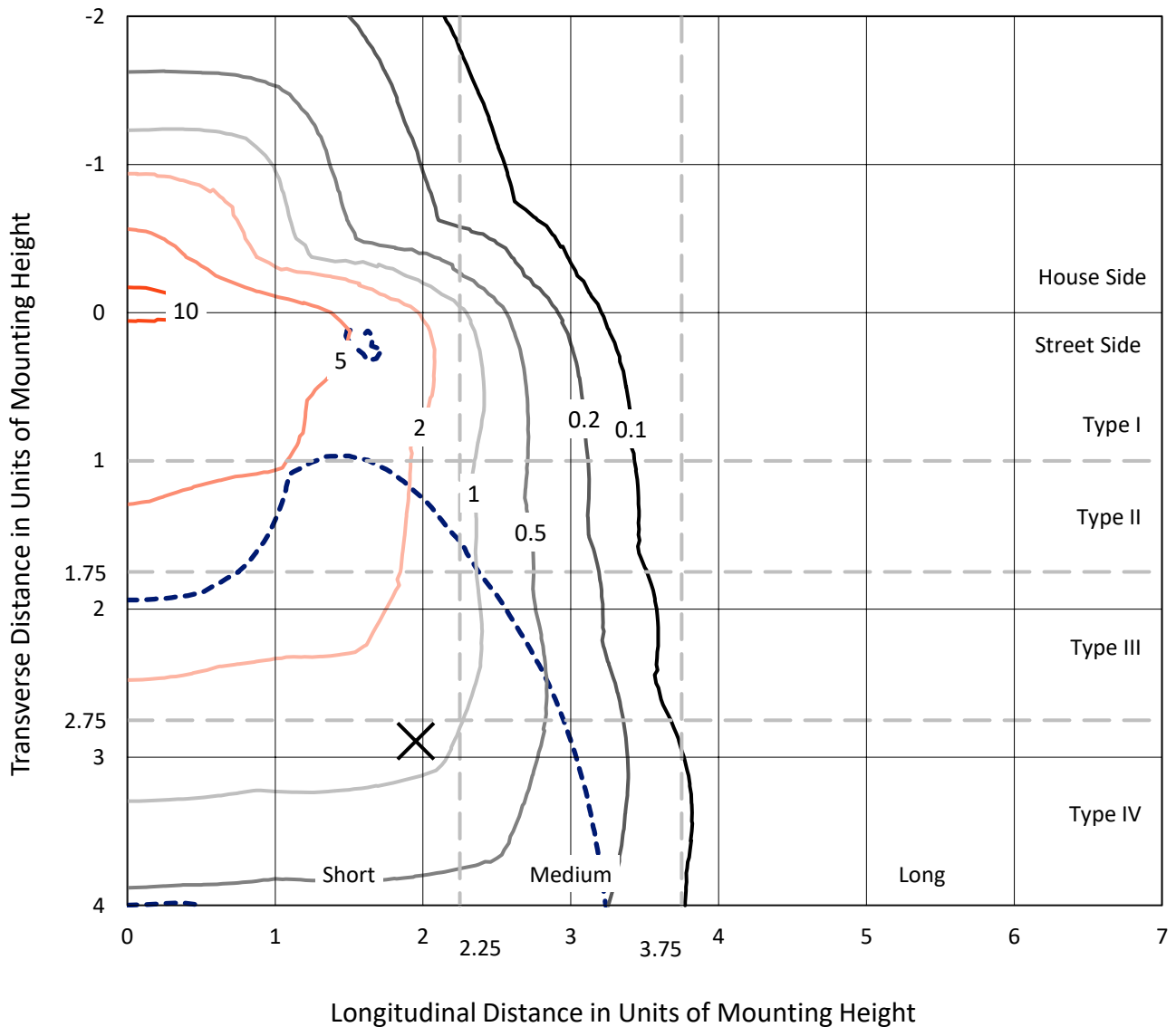
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

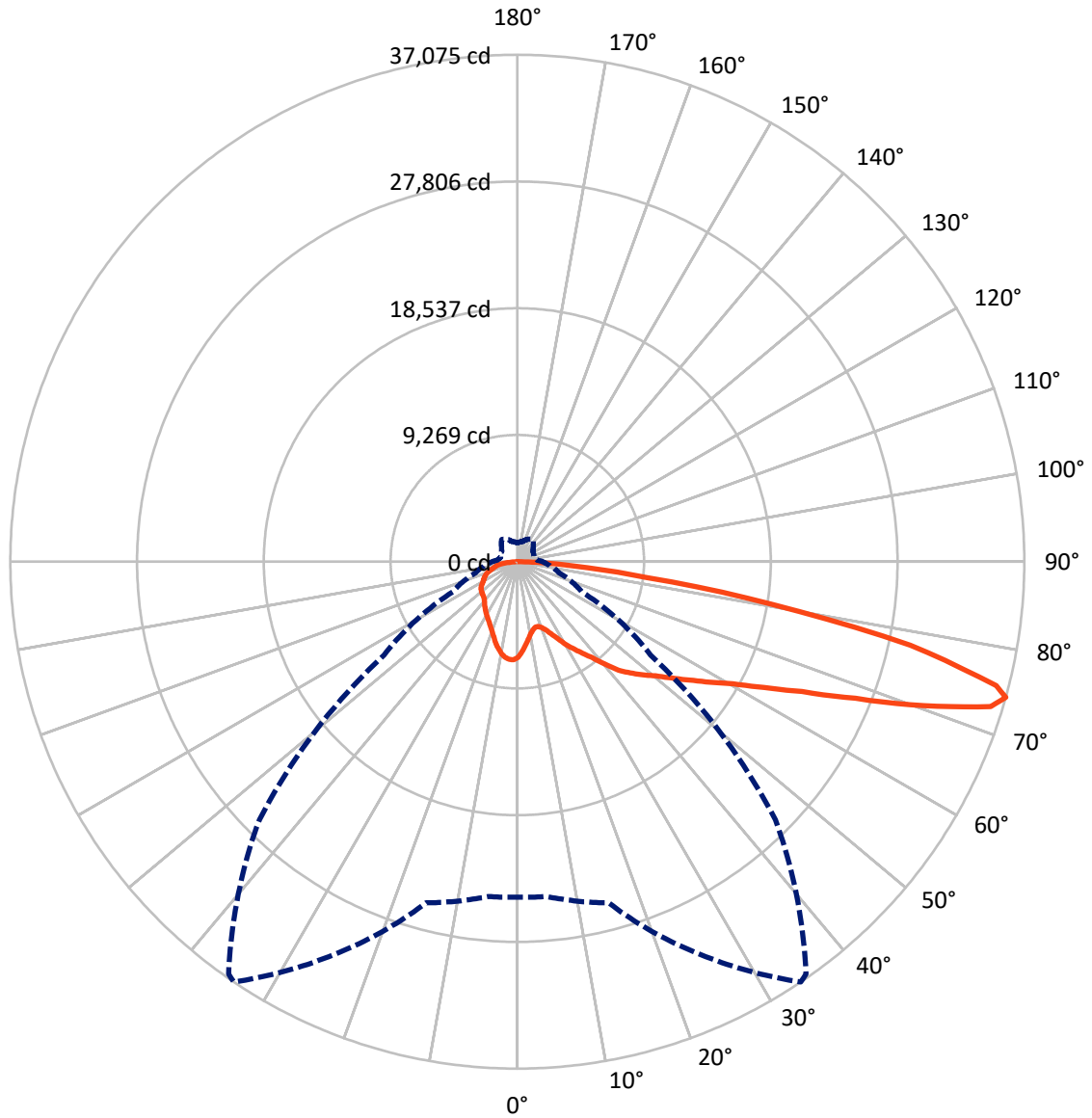
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical



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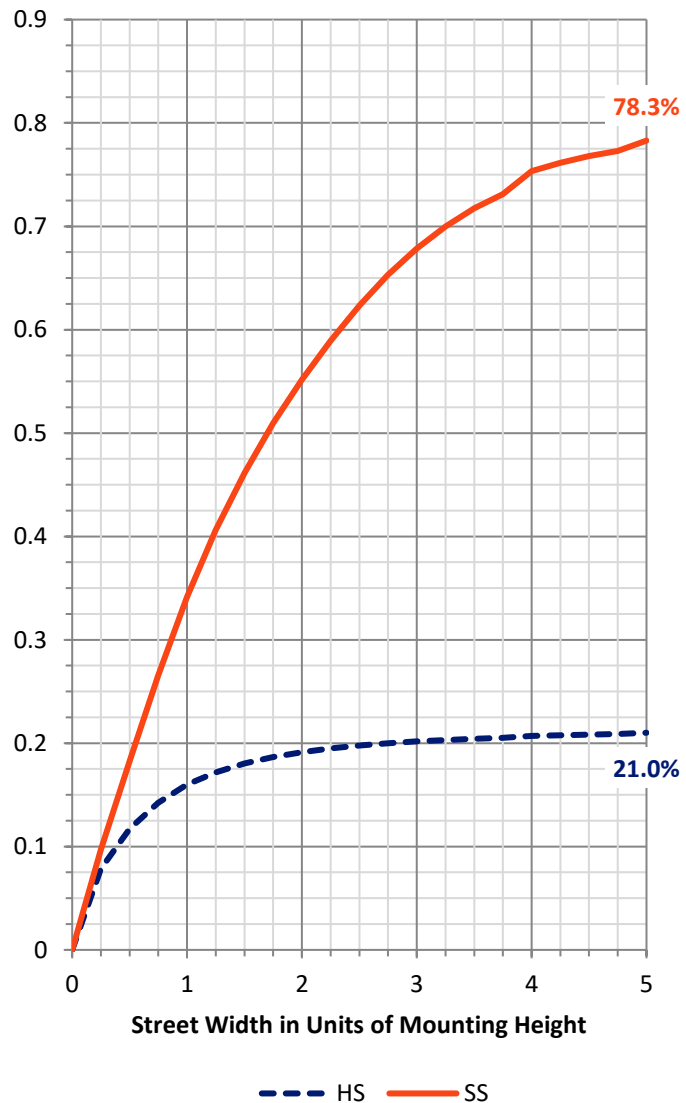
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9740.6 | 0.0 | 9740.6 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 36031.4 | 0.0 | 36031.4 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 45772.0 | 0.0 | 45772.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 635.6 | 1.4 |
| 10°-20° | 1739.8 | 3.8 |
| 20°-30° | 2868.6 | 6.3 |
| 30°-40° | 4296.8 | 9.4 |
| 40°-50° | 6246.3 | 13.6 |
| 50°-60° | 8724.7 | 19.1 |
| 60°-70° | 10922.8 | 23.9 |
| 70°-80° | 9032.3 | 19.7 |
| 80°-90° | 1305.1 | 2.9 |
| 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° | 45772.0 | 100.0 |
| 0°-180° | 45772.0 | 100.0 |



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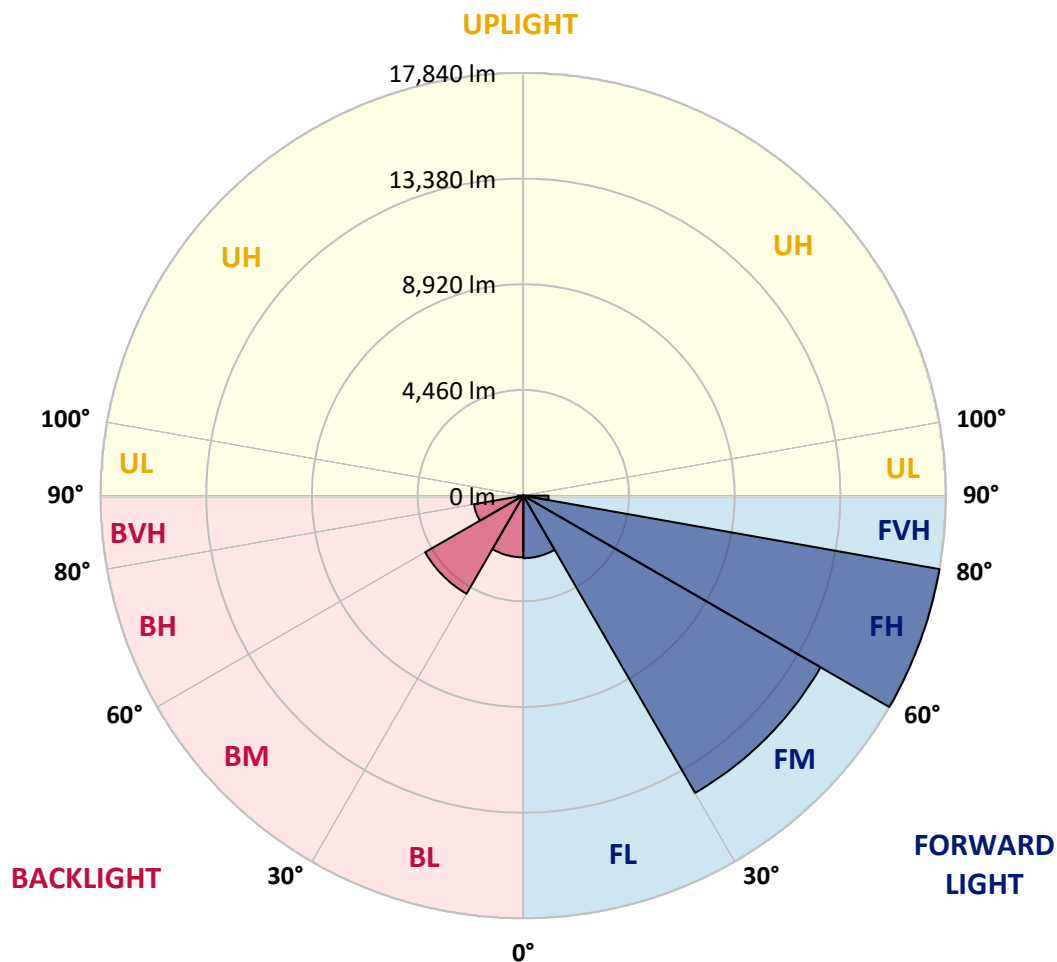
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2638.5 | 5.8 | | | |
| FM (30°-60°) | 14484.2 | 31.6 | | | |
| FH (60°-80°) | 17839.5 | 39.0 | | | G5 |
| FVH (80°-90°) | 1069.2 | 2.3 | | | G5 |
| BL (0°-30°) | 2605.5 | 5.7 | B4/5000 | | |
| BM (30°-60°) | 4783.6 | 10.5 | B3/5000 | | |
| BH (60°-80°) | 2115.6 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 235.9 | 0.5 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 |
| 2.5° | 6458.5 | 6491.5 | 6509.2 | 6572.6 | 6587.8 | 6608.1 | 6661.4 | 6732.4 | 6823.7 | 6904.8 | 6975.8 |
| 5° | 5920.9 | 5971.7 | 6002.1 | 6057.9 | 6166.9 | 6177.0 | 6319.0 | 6481.3 | 6666.4 | 6838.9 | 6980.9 |
| 7.5° | 5411.3 | 5467.0 | 5492.4 | 5593.8 | 5738.4 | 5761.2 | 5969.1 | 6225.2 | 6534.6 | 6795.8 | 7013.8 |
| 10° | 5028.4 | 5056.3 | 5112.0 | 5188.1 | 5360.5 | 5375.8 | 5647.1 | 5989.4 | 6390.0 | 6775.5 | 7069.6 |
| 12.5° | 4820.4 | 4835.6 | 4848.3 | 4929.5 | 5099.4 | 5122.2 | 5406.2 | 5794.1 | 6275.9 | 6790.7 | 7160.9 |
| 15° | 4850.9 | 4855.9 | 4800.1 | 4815.4 | 4952.3 | 4985.3 | 5266.7 | 5664.8 | 6204.9 | 6828.7 | 7297.8 |
| 17.5° | 5107.0 | 5089.2 | 4952.3 | 4881.3 | 4977.6 | 4992.9 | 5238.8 | 5614.1 | 6172.0 | 6899.7 | 7439.8 |
| 20° | 5510.1 | 5484.8 | 5249.0 | 5091.8 | 5147.5 | 5160.2 | 5330.1 | 5652.1 | 6204.9 | 7016.4 | 7660.4 |
| 22.5° | 6012.2 | 6002.1 | 5644.5 | 5454.4 | 5451.8 | 5451.8 | 5540.6 | 5789.1 | 6303.8 | 7176.1 | 7891.2 |
| 25° | 6714.6 | 6661.4 | 6194.8 | 5948.8 | 5880.4 | 5875.3 | 5865.1 | 6014.8 | 6430.6 | 7346.0 | 8165.1 |
| 27.5° | 7434.8 | 7343.5 | 6927.6 | 6549.8 | 6402.7 | 6385.0 | 6319.0 | 6334.3 | 6592.9 | 7538.7 | 8477.0 |
| 30° | 8081.4 | 8023.1 | 7632.6 | 7214.2 | 7039.2 | 6998.6 | 6816.0 | 6732.4 | 6864.2 | 7886.1 | 8974.0 |
| 32.5° | 8575.8 | 8540.3 | 8236.1 | 7855.7 | 7597.1 | 7589.4 | 7323.2 | 7254.7 | 7287.7 | 8307.1 | 9542.0 |
| 35° | 8976.5 | 8989.2 | 8834.5 | 8504.8 | 8208.2 | 8165.1 | 7987.6 | 7901.3 | 7805.0 | 8915.6 | 10257.0 |
| 37.5° | 9524.2 | 9552.1 | 9542.0 | 9258.0 | 8895.4 | 8905.5 | 8864.9 | 8722.9 | 8466.8 | 9595.2 | 11050.7 |
| 40° | 10127.7 | 10148.0 | 10145.5 | 10036.4 | 9846.2 | 9856.4 | 9841.2 | 9678.9 | 9296.0 | 10459.9 | 11933.2 |
| 42.5° | 10962.0 | 10865.6 | 10614.6 | 10723.6 | 10835.2 | 10883.4 | 10987.3 | 10832.6 | 10307.8 | 11382.9 | 12762.3 |
| 45° | 11895.1 | 11712.5 | 11144.5 | 11195.3 | 11608.6 | 11699.9 | 12272.9 | 12059.9 | 11405.7 | 12442.8 | 13738.6 |
| 47.5° | 12483.4 | 12303.4 | 11824.1 | 11814.0 | 12361.7 | 12450.4 | 13464.7 | 13386.1 | 12404.8 | 13586.5 | 14930.4 |
| 50° | 13008.3 | 12983.0 | 12442.8 | 12572.2 | 13107.2 | 13239.1 | 14763.0 | 14689.5 | 13401.3 | 14935.5 | 16228.7 |
| 52.5° | 13786.8 | 13581.4 | 13150.3 | 13416.6 | 14124.0 | 14296.5 | 16051.2 | 15835.7 | 14316.7 | 16127.3 | 17488.9 |
| 55° | 14136.7 | 14088.5 | 14063.2 | 14293.9 | 15265.1 | 15389.4 | 17303.8 | 16809.4 | 15097.8 | 17136.5 | 18447.5 |
| 57.5° | 15072.4 | 14983.6 | 15234.7 | 15391.9 | 16609.0 | 16799.2 | 18612.3 | 17826.2 | 15782.4 | 17937.8 | 18914.0 |
| 60° | 16284.5 | 16236.3 | 16467.0 | 16751.0 | 18110.2 | 18399.3 | 20103.3 | 18693.4 | 16332.7 | 18341.0 | 18657.9 |
| 62.5° | 18095.0 | 18089.9 | 18046.8 | 18655.4 | 20237.7 | 20503.9 | 21814.9 | 19537.8 | 16418.9 | 18039.2 | 17334.3 |
| 65° | 20691.6 | 20600.3 | 20225.0 | 20889.4 | 22885.0 | 23196.9 | 23597.5 | 20009.5 | 15899.0 | 16489.9 | 14595.7 |
| 67.5° | 23407.3 | 23402.3 | 23098.0 | 23960.1 | 26686.1 | 27008.1 | 25826.4 | 19905.5 | 14456.2 | 13358.2 | 10366.1 |
| 70° | 25659.1 | 25550.0 | 25938.0 | 28235.4 | 31542.0 | 31914.7 | 27776.4 | 18680.7 | 11514.8 | 8821.8 | 6159.3 |
| 72.5° | 26199.2 | 26204.3 | 27010.6 | 31531.8 | 36205.2 | 36263.5 | 28478.8 | 15140.9 | 7706.1 | 4866.1 | 3080.9 |
| 74° | 24535.7 | 24578.9 | 25829.0 | 31696.7 | 37074.9 | 36811.2 | 26683.5 | 11900.2 | 5210.9 | 3177.3 | 2221.3 |
| 75° | 22395.6 | 22124.3 | 23932.2 | 30598.7 | 36172.2 | 35888.2 | 24581.4 | 9549.6 | 3976.0 | 2538.3 | 1944.9 |
| 77.5° | 11973.7 | 12250.1 | 15039.4 | 22834.3 | 29386.6 | 29059.5 | 16667.4 | 4579.5 | 2147.8 | 1767.4 | 1399.7 |
| 80° | 4262.6 | 4701.2 | 6608.1 | 11948.4 | 18840.5 | 18941.9 | 7954.6 | 2099.6 | 1511.3 | 1303.4 | 988.9 |
| 82.5° | 1739.5 | 1787.7 | 2837.5 | 5302.2 | 9567.3 | 9658.6 | 3248.3 | 1247.6 | 1080.2 | 897.6 | 590.8 |
| 85° | 679.6 | 699.9 | 1255.2 | 2383.6 | 4082.5 | 4348.8 | 1123.3 | 659.3 | 664.4 | 514.8 | 301.8 |
| 87.5° | 228.2 | 258.6 | 514.8 | 793.7 | 1387.0 | 1359.2 | 327.1 | 195.3 | 238.4 | 223.1 | 93.8 |
| 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° | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 | 6988.5 |
| 2.5° | 7011.3 | 7059.5 | 7092.4 | 7127.9 | 7160.9 | 7171.1 | 7163.4 | 7186.3 | 7188.8 | 7191.3 | 7193.9 |
| 5° | 7051.9 | 7117.8 | 7181.2 | 7216.7 | 7231.9 | 7219.2 | 7176.1 | 7153.3 | 7133.0 | 7117.8 | 7122.9 |
| 7.5° | 7107.7 | 7201.5 | 7259.8 | 7275.0 | 7234.4 | 7176.1 | 7069.6 | 6985.9 | 6932.7 | 6897.2 | 6894.7 |
| 10° | 7193.9 | 7285.2 | 7333.3 | 7290.2 | 7178.7 | 7036.7 | 6869.3 | 6712.1 | 6592.9 | 6557.4 | 6554.9 |
| 12.5° | 7302.9 | 7406.9 | 7404.3 | 7277.6 | 7082.3 | 6828.7 | 6557.4 | 6374.8 | 6212.5 | 6131.4 | 6164.4 |
| 15° | 7444.9 | 7523.5 | 7450.0 | 7221.8 | 6912.4 | 6565.0 | 6230.3 | 5981.8 | 5799.2 | 5713.0 | 5718.1 |
| 17.5° | 7609.7 | 7678.2 | 7482.9 | 7122.9 | 6674.0 | 6227.8 | 5839.8 | 5604.0 | 5459.4 | 5396.0 | 5391.0 |
| 20° | 7815.1 | 7835.4 | 7482.9 | 6950.4 | 6367.2 | 5834.7 | 5464.5 | 5299.7 | 5218.5 | 5185.6 | 5195.7 |
| 22.5° | 8035.7 | 7995.2 | 7442.4 | 6707.0 | 5964.0 | 5423.9 | 5175.4 | 5101.9 | 5061.3 | 5056.3 | 5061.3 |
| 25° | 8284.2 | 8170.1 | 7358.7 | 6377.4 | 5543.1 | 5068.9 | 4924.4 | 4937.1 | 4944.7 | 4944.7 | 4962.4 |
| 27.5° | 8588.5 | 8360.3 | 7219.2 | 5961.5 | 5051.2 | 4739.3 | 4698.7 | 4787.5 | 4828.0 | 4835.6 | 4848.3 |
| 30° | 8989.2 | 8568.2 | 6988.5 | 5441.7 | 4632.8 | 4442.6 | 4513.6 | 4632.8 | 4678.4 | 4706.3 | 4701.2 |
| 32.5° | 9465.9 | 8796.5 | 6676.6 | 4921.9 | 4295.5 | 4234.7 | 4320.9 | 4442.6 | 4493.3 | 4508.5 | 4488.2 |
| 35° | 10026.3 | 9055.1 | 6265.8 | 4435.0 | 4001.4 | 4036.9 | 4138.3 | 4176.4 | 4222.0 | 4222.0 | 4232.1 |
| 37.5° | 10629.8 | 9263.0 | 5763.7 | 3988.7 | 3773.2 | 3902.5 | 3976.0 | 3940.5 | 3920.2 | 3894.9 | 3907.6 |
| 40° | 11243.4 | 9417.7 | 5112.0 | 3547.5 | 3545.0 | 3763.0 | 3783.3 | 3681.9 | 3600.7 | 3575.4 | 3562.7 |
| 42.5° | 11778.5 | 9514.1 | 4523.7 | 3205.2 | 3329.4 | 3626.1 | 3641.3 | 3479.0 | 3349.7 | 3273.6 | 3248.3 |
| 45° | 12409.9 | 9625.6 | 3948.1 | 2921.2 | 3129.1 | 3517.1 | 3555.1 | 3337.0 | 3146.8 | 2987.1 | 2946.5 |
| 47.5° | 13274.6 | 9879.2 | 3494.2 | 2700.6 | 2984.6 | 3448.6 | 3501.8 | 3220.4 | 2969.3 | 2761.4 | 2728.4 |
| 50° | 14250.8 | 10226.6 | 3141.8 | 2550.9 | 2873.0 | 3387.7 | 3453.7 | 3101.2 | 2804.5 | 2573.8 | 2548.4 |
| 52.5° | 15145.9 | 10414.3 | 2837.5 | 2416.6 | 2763.9 | 3276.2 | 3390.3 | 3015.0 | 2642.2 | 2386.1 | 2363.3 |
| 55° | 15635.3 | 10110.0 | 2538.3 | 2284.7 | 2614.3 | 3131.6 | 3301.5 | 2895.8 | 2485.0 | 2287.2 | 2254.3 |
| 57.5° | 15701.3 | 9481.1 | 2266.9 | 2142.7 | 2457.1 | 2954.1 | 3136.7 | 2751.3 | 2383.6 | 2218.8 | 2190.9 |
| 60° | 15191.6 | 8542.9 | 2056.5 | 2026.1 | 2297.4 | 2753.8 | 2951.6 | 2624.5 | 2279.6 | 2142.7 | 2114.8 |
| 62.5° | 13923.7 | 7523.5 | 1909.4 | 1919.5 | 2135.1 | 2543.3 | 2814.7 | 2502.8 | 2180.7 | 2059.0 | 2033.7 |
| 65° | 11743.0 | 6210.0 | 1767.4 | 1810.5 | 1990.6 | 2378.5 | 2690.4 | 2401.3 | 2081.8 | 1995.6 | 1972.8 |
| 67.5° | 8157.5 | 4483.2 | 1650.8 | 1696.4 | 1853.6 | 2211.2 | 2545.9 | 2292.3 | 1970.3 | 1924.6 | 1889.1 |
| 70° | 4516.1 | 2758.9 | 1513.8 | 1567.1 | 1711.6 | 2023.5 | 2383.6 | 2127.5 | 1808.0 | 1787.7 | 1737.0 |
| 72.5° | 2373.4 | 1757.3 | 1359.2 | 1417.5 | 1518.9 | 1782.6 | 2135.1 | 1947.4 | 1648.2 | 1562.0 | 1496.1 |
| 74° | 1853.6 | 1440.3 | 1255.2 | 1316.0 | 1384.5 | 1640.6 | 1988.0 | 1818.1 | 1534.1 | 1432.7 | 1382.0 |
| 75° | 1615.3 | 1283.1 | 1166.4 | 1245.0 | 1305.9 | 1544.3 | 1873.9 | 1726.8 | 1470.7 | 1374.4 | 1328.7 |
| 77.5° | 1141.1 | 961.0 | 953.4 | 1047.3 | 1080.2 | 1354.1 | 1688.8 | 1572.2 | 1311.0 | 1209.5 | 1166.4 |
| 80° | 801.3 | 720.1 | 755.6 | 814.0 | 859.6 | 1196.9 | 1567.1 | 1359.2 | 1075.2 | 956.0 | 940.8 |
| 82.5° | 522.4 | 471.6 | 540.1 | 593.4 | 608.6 | 882.4 | 1265.3 | 1032.0 | 783.5 | 636.5 | 590.8 |
| 85° | 240.9 | 235.8 | 309.4 | 301.8 | 299.2 | 431.1 | 750.6 | 603.5 | 451.4 | 337.3 | 317.0 |
| 87.5° | 60.9 | 58.3 | 76.1 | 63.4 | 76.1 | 65.9 | 68.5 | 17.8 | 2.5 | 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)