

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: P533104

Luminaire Tested: **GALN-SA8C-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45433 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

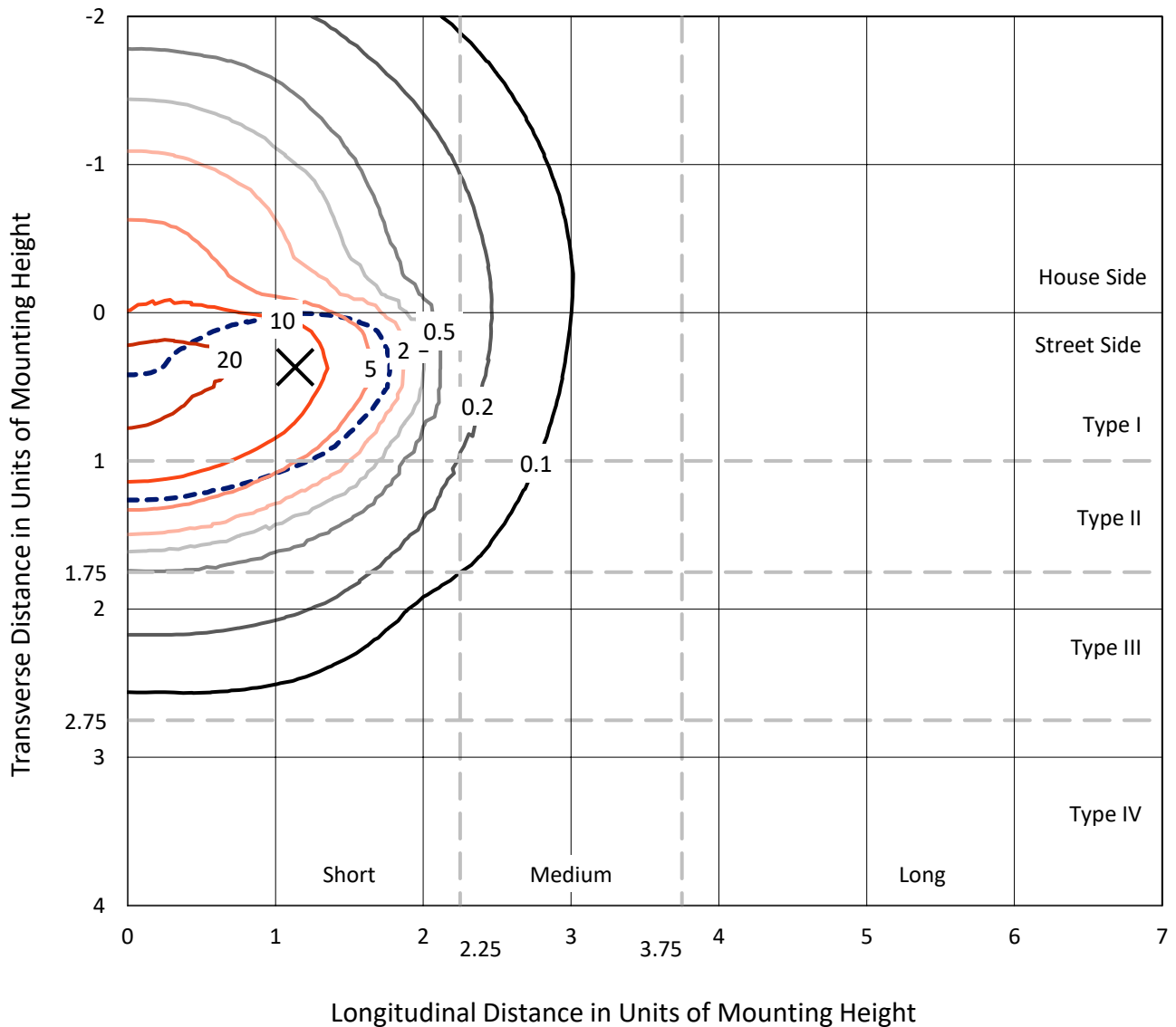
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

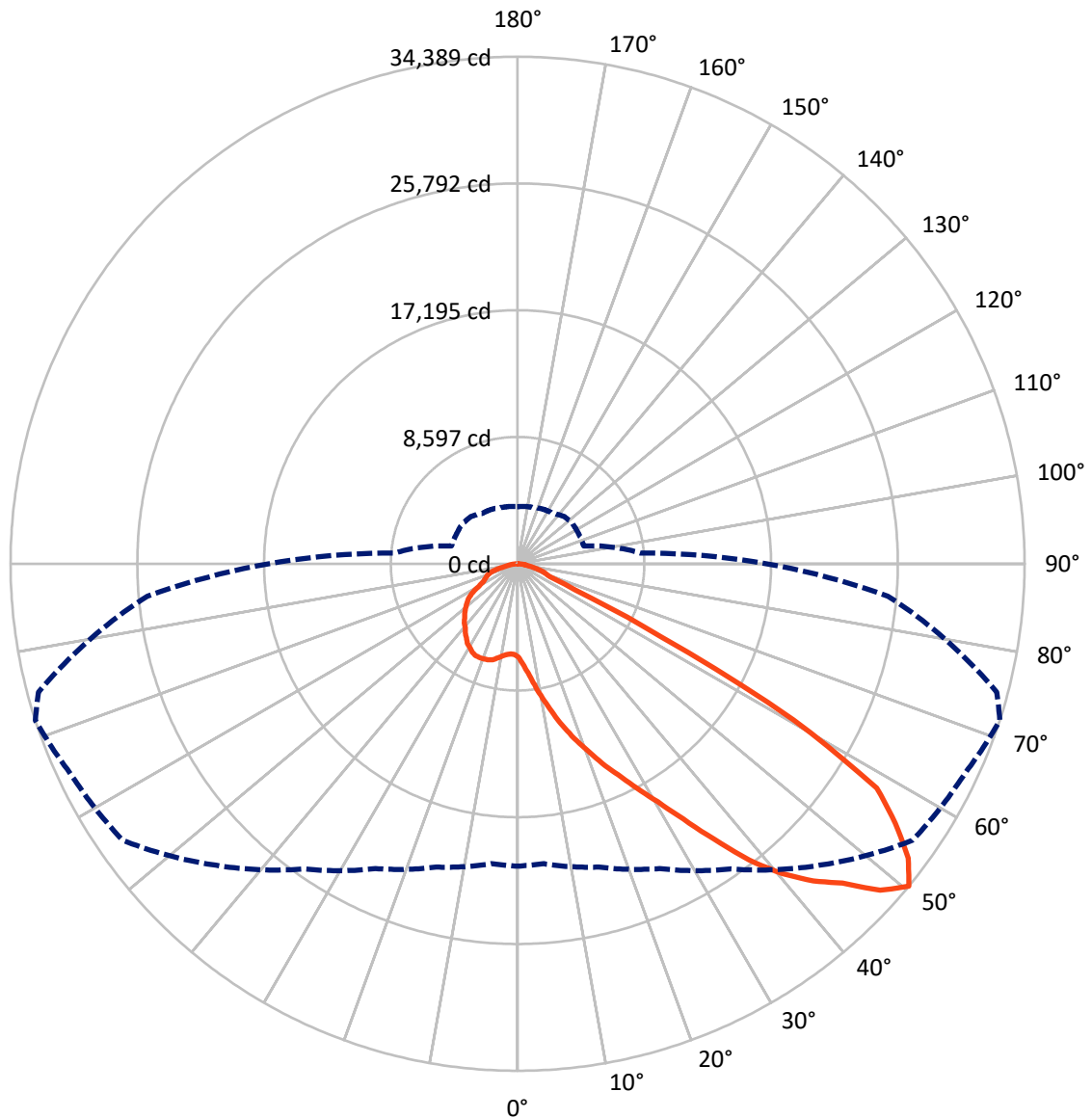
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA8C-730-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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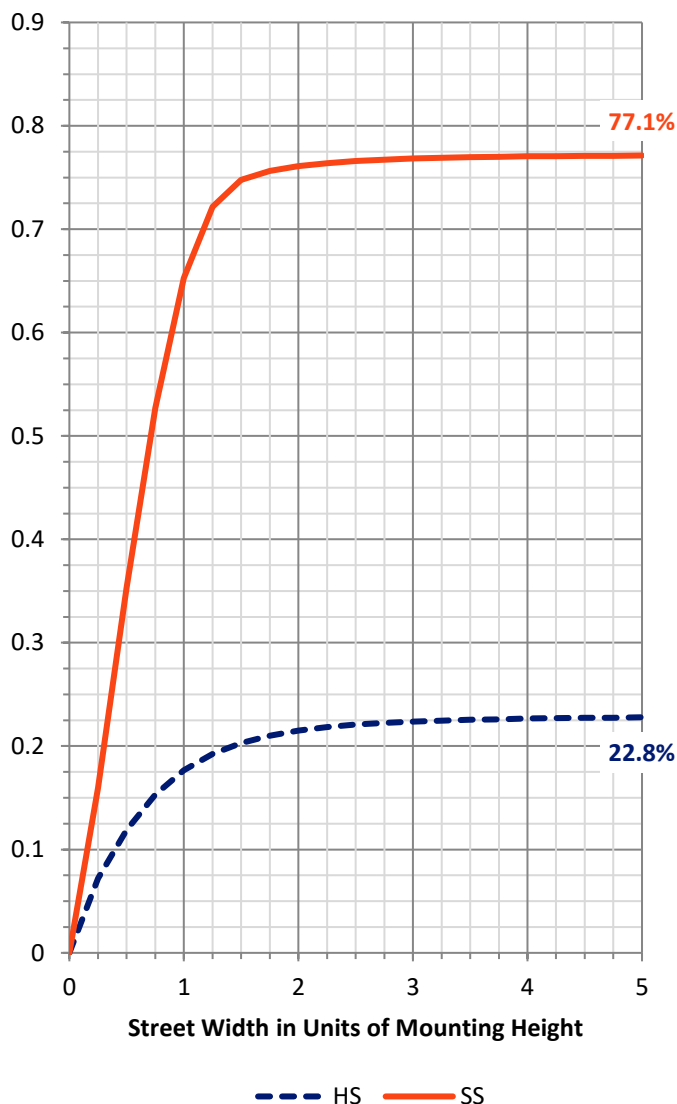
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10409.0 | 0.0 | 10409.0 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 35024.0 | 0.0 | 35024.0 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 45433.0 | 0.0 | 45433.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 743.9 | 1.6 |
| 10°-20° | 2781.1 | 6.1 |
| 20°-30° | 5392.4 | 11.9 |
| 30°-40° | 8933.3 | 19.7 |
| 40°-50° | 12499.6 | 27.5 |
| 50°-60° | 10545.0 | 23.2 |
| 60°-70° | 3214.1 | 7.1 |
| 70°-80° | 1127.6 | 2.5 |
| 80°-90° | 196.0 | 0.4 |
| 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° | 45433.0 | 100.0 |
| 0°-180° | 45433.0 | 100.0 |

Coefficient of Utilization

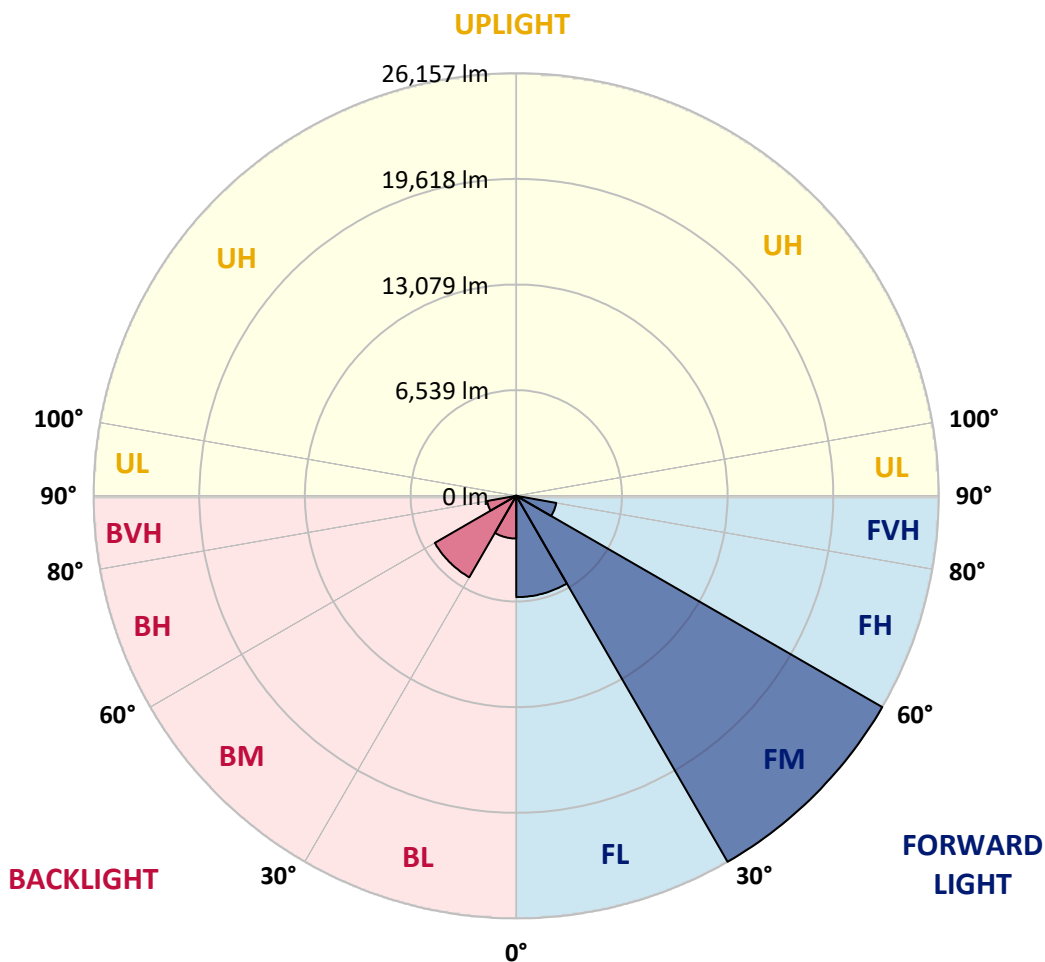


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6271.4 | 13.8 | | | |
| FM (30°-60°) | 26157.0 | 57.6 | | | |
| FH (60°-80°) | 2507.8 | 5.5 | | | G2/5000 |
| FVH (80°-90°) | 87.8 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2646.0 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 5820.9 | 12.8 | B4/8500 | | |
| BH (60°-80°) | 1833.9 | 4.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 108.2 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 |
| 2.5° | 8134.9 | 8084.3 | 7932.5 | 7881.9 | 7702.0 | 7376.0 | 7263.5 | 6931.8 | 6791.3 | 6662.0 | 6510.2 |
| 5° | 10288.1 | 10052.0 | 10035.1 | 9748.4 | 9332.4 | 9090.6 | 8371.0 | 7887.6 | 7443.4 | 7218.5 | 6802.5 |
| 7.5° | 11659.9 | 11665.5 | 11665.5 | 11429.4 | 11097.7 | 10484.9 | 9838.4 | 8967.0 | 8298.0 | 7966.3 | 7257.9 |
| 10° | 12964.1 | 12851.7 | 12789.9 | 12767.4 | 12542.5 | 11946.6 | 11255.1 | 10175.7 | 9259.3 | 8871.4 | 7600.8 |
| 12.5° | 13886.1 | 13790.6 | 13931.1 | 13858.0 | 13695.0 | 13307.1 | 12654.9 | 11423.7 | 10276.9 | 9754.0 | 8151.8 |
| 15° | 14324.7 | 14392.1 | 14504.6 | 14706.9 | 14633.9 | 14487.7 | 13768.1 | 12705.5 | 11373.1 | 10782.8 | 8640.9 |
| 17.5° | 14999.3 | 14813.8 | 14948.7 | 15201.7 | 15404.1 | 15336.6 | 14926.2 | 13633.2 | 12458.2 | 11732.9 | 9298.7 |
| 20° | 15471.5 | 15364.7 | 15432.2 | 15724.5 | 15876.3 | 16258.6 | 16045.0 | 14847.5 | 13498.2 | 12733.7 | 10074.5 |
| 22.5° | 16820.8 | 16663.4 | 16444.1 | 16489.1 | 16545.3 | 16815.2 | 16865.8 | 16179.9 | 14706.9 | 13897.4 | 10811.0 |
| 25° | 18484.9 | 18338.7 | 18080.1 | 17815.9 | 17652.8 | 17602.2 | 17776.5 | 17225.6 | 15865.1 | 15027.4 | 11603.6 |
| 27.5° | 20317.6 | 20070.3 | 19907.2 | 19361.9 | 18923.4 | 18855.9 | 18771.6 | 18473.6 | 17236.8 | 16331.7 | 12497.5 |
| 30° | 22099.8 | 21903.0 | 21683.7 | 20812.4 | 20357.0 | 20283.9 | 19867.9 | 19952.2 | 18726.6 | 17720.3 | 13509.5 |
| 32.5° | 23449.0 | 23465.9 | 22965.5 | 22307.8 | 21880.5 | 21492.6 | 21340.8 | 21582.6 | 20638.1 | 19828.5 | 14639.5 |
| 35° | 24539.7 | 24590.3 | 24112.4 | 23516.5 | 23055.5 | 23325.3 | 23257.9 | 23370.3 | 22920.6 | 21931.1 | 15955.0 |
| 37.5° | 25602.2 | 25349.2 | 24837.6 | 24550.9 | 24309.2 | 24753.3 | 25326.8 | 25422.3 | 25506.7 | 24342.9 | 17484.2 |
| 40° | 25776.5 | 25799.0 | 25501.0 | 25703.4 | 25399.8 | 26068.8 | 27401.2 | 27277.6 | 27620.5 | 26602.9 | 19142.6 |
| 42.5° | 25529.1 | 25579.7 | 25697.8 | 25984.5 | 26715.4 | 27519.3 | 29498.2 | 28992.2 | 29408.3 | 28503.1 | 20756.1 |
| 45° | 25124.4 | 24916.4 | 25062.5 | 26153.2 | 27418.1 | 29205.9 | 31415.3 | 31021.8 | 30886.8 | 30127.9 | 22678.8 |
| 47.5° | 23190.4 | 23404.1 | 23859.4 | 25203.1 | 27103.3 | 29498.2 | 32775.8 | 32685.8 | 33090.6 | 32556.5 | 24427.2 |
| 50° | 20508.8 | 20424.4 | 21301.5 | 22813.8 | 25264.9 | 28924.8 | 32702.7 | 33517.9 | 34389.3 | 33647.2 | 25208.7 |
| 52.5° | 15359.1 | 15808.8 | 16562.2 | 18439.9 | 21936.7 | 25799.0 | 31106.1 | 32466.6 | 33175.0 | 33017.5 | 24579.0 |
| 55° | 9709.1 | 9844.0 | 10299.4 | 12531.3 | 15679.5 | 20705.5 | 26664.8 | 29818.7 | 31083.6 | 31673.9 | 24000.0 |
| 57.5° | 4716.8 | 4463.8 | 5020.4 | 6813.8 | 9056.9 | 13925.5 | 20565.0 | 25973.3 | 28722.4 | 29790.6 | 22740.7 |
| 60° | 2462.4 | 2558.0 | 2777.2 | 3418.1 | 4683.1 | 7229.8 | 12818.0 | 17309.9 | 21509.5 | 23151.1 | 17236.8 |
| 62.5° | 2040.8 | 2074.5 | 2220.7 | 2541.1 | 3114.5 | 4160.2 | 6543.9 | 8438.5 | 10968.4 | 12446.9 | 9804.6 |
| 65° | 1731.6 | 1748.4 | 1905.8 | 2119.5 | 2484.9 | 2929.0 | 3367.5 | 3524.9 | 4267.0 | 4379.5 | 3485.6 |
| 67.5° | 1444.8 | 1461.7 | 1630.4 | 1832.7 | 2068.9 | 2186.9 | 2299.4 | 2288.1 | 2372.5 | 2338.7 | 2333.1 |
| 70° | 1113.1 | 1130.0 | 1304.3 | 1517.9 | 1636.0 | 1568.5 | 1917.1 | 1995.8 | 2029.5 | 2057.6 | 2102.6 |
| 72.5° | 803.9 | 837.7 | 972.6 | 1124.4 | 1062.5 | 1220.0 | 1579.8 | 1697.8 | 1742.8 | 1759.7 | 1815.9 |
| 75° | 584.7 | 595.9 | 629.7 | 584.7 | 674.6 | 848.9 | 1113.1 | 1259.3 | 1315.5 | 1332.4 | 1416.7 |
| 77.5° | 258.6 | 264.2 | 269.9 | 337.3 | 432.9 | 528.5 | 663.4 | 781.4 | 860.2 | 882.6 | 905.1 |
| 80° | 134.9 | 140.5 | 174.3 | 230.5 | 309.2 | 387.9 | 483.5 | 550.9 | 601.5 | 607.2 | 629.7 |
| 82.5° | 84.3 | 90.0 | 123.7 | 163.0 | 219.3 | 286.7 | 354.2 | 410.4 | 449.8 | 455.4 | 461.0 |
| 85° | 39.4 | 50.6 | 73.1 | 101.2 | 146.2 | 185.5 | 191.1 | 163.0 | 174.3 | 179.9 | 168.7 |
| 87.5° | 11.2 | 16.9 | 22.5 | 16.9 | 22.5 | 22.5 | 28.1 | 33.7 | 33.7 | 33.7 | 39.4 |
| 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° | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 | 6324.7 |
| 2.5° | 6425.9 | 6375.3 | 6178.5 | 6105.4 | 5914.3 | 5948.0 | 5846.8 | 5841.2 | 5818.7 | 5813.1 | 5807.4 |
| 5° | 6583.3 | 6425.9 | 6189.7 | 6009.8 | 5903.0 | 5891.8 | 5818.7 | 5818.7 | 5841.2 | 5858.0 | 5818.7 |
| 7.5° | 6841.9 | 6662.0 | 6262.8 | 6094.2 | 5998.6 | 5981.7 | 5931.1 | 5891.8 | 5942.4 | 5925.5 | 5880.5 |
| 10° | 7139.8 | 6825.0 | 6403.4 | 6257.2 | 6099.8 | 6060.4 | 6060.4 | 6077.3 | 5993.0 | 6021.1 | 5976.1 |
| 12.5° | 7471.5 | 7049.9 | 6583.3 | 6414.6 | 6229.1 | 6206.6 | 6195.4 | 6071.7 | 6116.6 | 6094.2 | 5981.7 |
| 15° | 7893.2 | 7308.5 | 6813.8 | 6527.1 | 6369.6 | 6268.4 | 6122.3 | 6099.8 | 6071.7 | 6015.5 | 5964.9 |
| 17.5° | 8348.6 | 7589.6 | 6920.6 | 6560.8 | 6324.7 | 6251.6 | 6139.1 | 6021.1 | 5936.7 | 5948.0 | 5908.6 |
| 20° | 8736.5 | 7848.2 | 6959.9 | 6594.5 | 6290.9 | 6150.4 | 5976.1 | 5903.0 | 5813.1 | 5807.4 | 5801.8 |
| 22.5° | 9197.5 | 8196.8 | 7016.2 | 6504.6 | 6189.7 | 6043.6 | 5925.5 | 5796.2 | 5734.4 | 5655.7 | 5695.0 |
| 25° | 9748.4 | 8331.7 | 7027.4 | 6454.0 | 6116.6 | 5858.0 | 5796.2 | 5655.7 | 5633.2 | 5520.7 | 5543.2 |
| 27.5° | 10147.6 | 8404.8 | 6937.5 | 6296.6 | 5948.0 | 5751.2 | 5638.8 | 5537.6 | 5498.2 | 5413.9 | 5391.4 |
| 30° | 10681.6 | 8517.2 | 6746.3 | 6099.8 | 5779.3 | 5560.1 | 5492.6 | 5470.1 | 5357.7 | 5267.7 | 5256.5 |
| 32.5° | 11288.8 | 8590.3 | 6622.6 | 5897.4 | 5605.1 | 5436.4 | 5470.1 | 5363.3 | 5222.8 | 5144.1 | 5121.6 |
| 35° | 11772.3 | 8618.4 | 6313.4 | 5666.9 | 5487.0 | 5380.2 | 5340.8 | 5318.3 | 5115.9 | 5042.9 | 4986.6 |
| 37.5° | 12508.8 | 8556.6 | 6054.8 | 5503.9 | 5357.7 | 5318.3 | 5284.6 | 5132.8 | 4902.3 | 4795.5 | 4716.8 |
| 40° | 13368.9 | 8539.7 | 5723.1 | 5273.4 | 5234.0 | 5279.0 | 5177.8 | 4941.7 | 4621.2 | 4503.2 | 4446.9 |
| 42.5° | 14195.4 | 8657.8 | 5515.1 | 5149.7 | 5099.1 | 5115.9 | 4975.4 | 4621.2 | 4463.8 | 4396.3 | 4306.4 |
| 45° | 15578.3 | 8905.1 | 5172.2 | 4958.5 | 4936.0 | 4924.8 | 4756.1 | 4385.1 | 4295.1 | 4210.8 | 4194.0 |
| 47.5° | 16826.4 | 8742.1 | 4952.9 | 4761.8 | 4784.3 | 4722.4 | 4362.6 | 4244.6 | 4143.4 | 4059.0 | 4030.9 |
| 50° | 16899.5 | 8354.2 | 4643.7 | 4610.0 | 4615.6 | 4508.8 | 4165.8 | 4087.1 | 3957.8 | 3901.6 | 3862.3 |
| 52.5° | 16517.2 | 7718.9 | 4357.0 | 4368.2 | 4385.1 | 4210.8 | 3924.1 | 3867.9 | 3761.1 | 3682.4 | 3659.9 |
| 55° | 15443.4 | 6729.4 | 4075.9 | 4120.9 | 4165.8 | 3834.2 | 3744.2 | 3603.7 | 3519.3 | 3406.9 | 3412.5 |
| 57.5° | 13605.0 | 5419.5 | 3682.4 | 3755.4 | 3851.0 | 3485.6 | 3418.1 | 3243.8 | 3120.2 | 3030.2 | 3019.0 |
| 60° | 9118.8 | 3856.6 | 3092.1 | 3120.2 | 3333.8 | 3187.6 | 3182.0 | 3007.7 | 2839.1 | 2760.4 | 2715.4 |
| 62.5° | 5380.2 | 2945.9 | 2670.4 | 2642.3 | 2636.7 | 2721.0 | 2861.6 | 2799.7 | 2580.5 | 2428.7 | 2473.6 |
| 65° | 2816.6 | 2546.7 | 2484.9 | 2389.3 | 2333.1 | 2310.6 | 2417.4 | 2445.5 | 2299.4 | 2136.3 | 2125.1 |
| 67.5° | 2366.8 | 2366.8 | 2316.2 | 2282.5 | 2203.8 | 2108.2 | 2040.8 | 1950.8 | 1928.3 | 1883.3 | 1827.1 |
| 70° | 2153.2 | 2209.4 | 2192.5 | 2113.8 | 2046.4 | 1939.6 | 1765.3 | 1619.1 | 1478.6 | 1428.0 | 1461.7 |
| 72.5° | 1877.7 | 1933.9 | 1933.9 | 1894.6 | 1804.6 | 1641.6 | 1472.9 | 1304.3 | 1186.2 | 1096.3 | 1085.0 |
| 75° | 1444.8 | 1472.9 | 1540.4 | 1495.4 | 1377.4 | 1276.2 | 1101.9 | 927.6 | 815.2 | 730.8 | 714.0 |
| 77.5° | 922.0 | 967.0 | 967.0 | 961.3 | 877.0 | 781.4 | 669.0 | 545.3 | 461.0 | 399.2 | 382.3 |
| 80° | 612.8 | 640.9 | 663.4 | 640.9 | 584.7 | 511.6 | 427.3 | 342.9 | 281.1 | 230.5 | 219.3 |
| 82.5° | 449.8 | 483.5 | 500.4 | 477.9 | 421.6 | 365.4 | 303.6 | 241.7 | 179.9 | 140.5 | 129.3 |
| 85° | 174.3 | 179.9 | 202.4 | 241.7 | 236.1 | 230.5 | 185.5 | 134.9 | 101.2 | 73.1 | 67.5 |
| 87.5° | 45.0 | 39.4 | 45.0 | 45.0 | 39.4 | 33.7 | 33.7 | 33.7 | 33.7 | 16.9 | 22.5 |
| 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)