

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: P534222

Luminaire Tested: **GALN-SA9D-722-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534222
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-SA9D-722-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 1200mA 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: 45303 lumens
Efficiency: N/A
Efficacy: 82.1 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

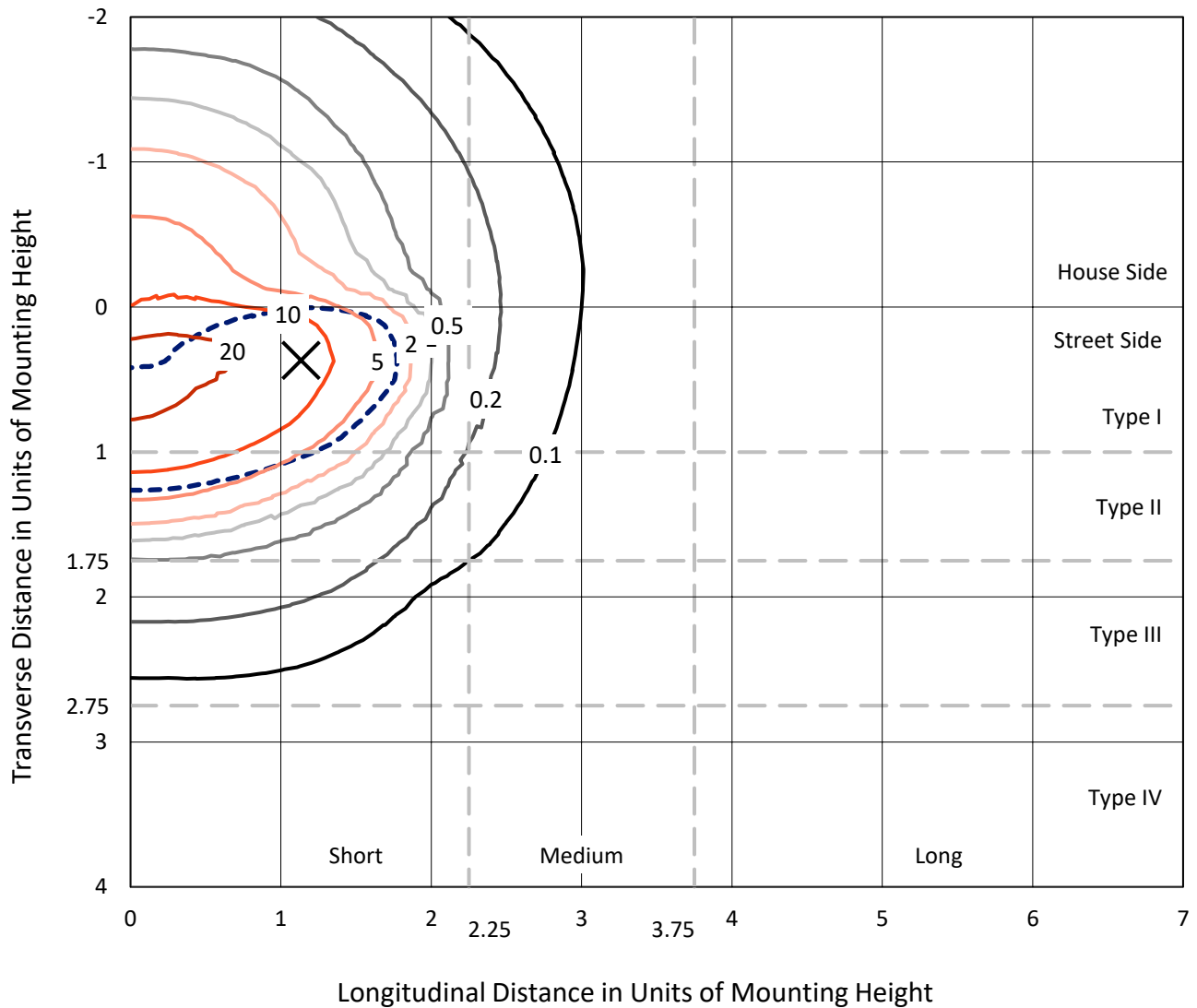
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534222
 CATALOG NUMBER: GALN-SA9D-722-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

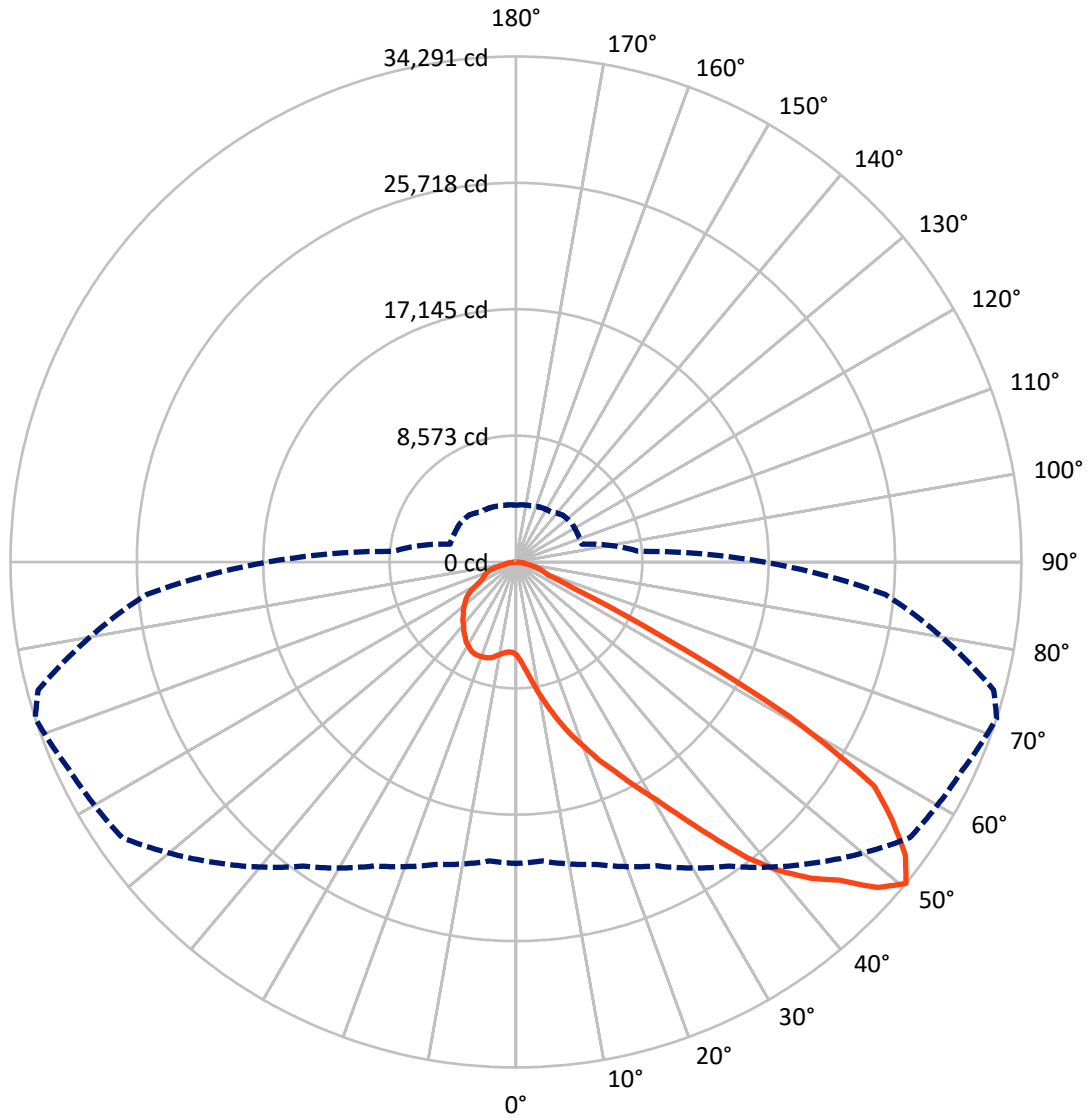
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P534222
CATALOG NUMBER: GALN-SA9D-722-U-T2R-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA9D-722-U-T2R-GRSWH

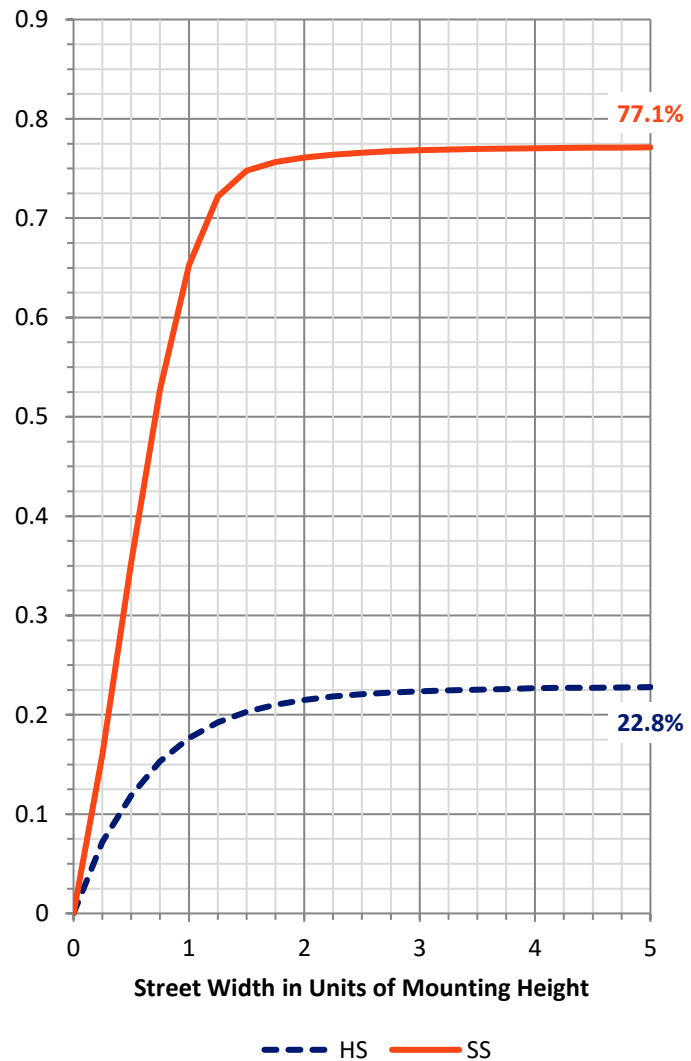
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10379.2 | 0.0 | 10379.2 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 34923.8 | 0.0 | 34923.8 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 45303.0 | 0.0 | 45303.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 741.8 | 1.6 |
| 10°-20° | 2773.1 | 6.1 |
| 20°-30° | 5376.9 | 11.9 |
| 30°-40° | 8907.7 | 19.7 |
| 40°-50° | 12463.8 | 27.5 |
| 50°-60° | 10514.8 | 23.2 |
| 60°-70° | 3204.9 | 7.1 |
| 70°-80° | 1124.4 | 2.5 |
| 80°-90° | 195.5 | 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° | 45303.0 | 100.0 |
| 0°-180° | 45303.0 | 100.0 |



REPORT NUMBER: P534222

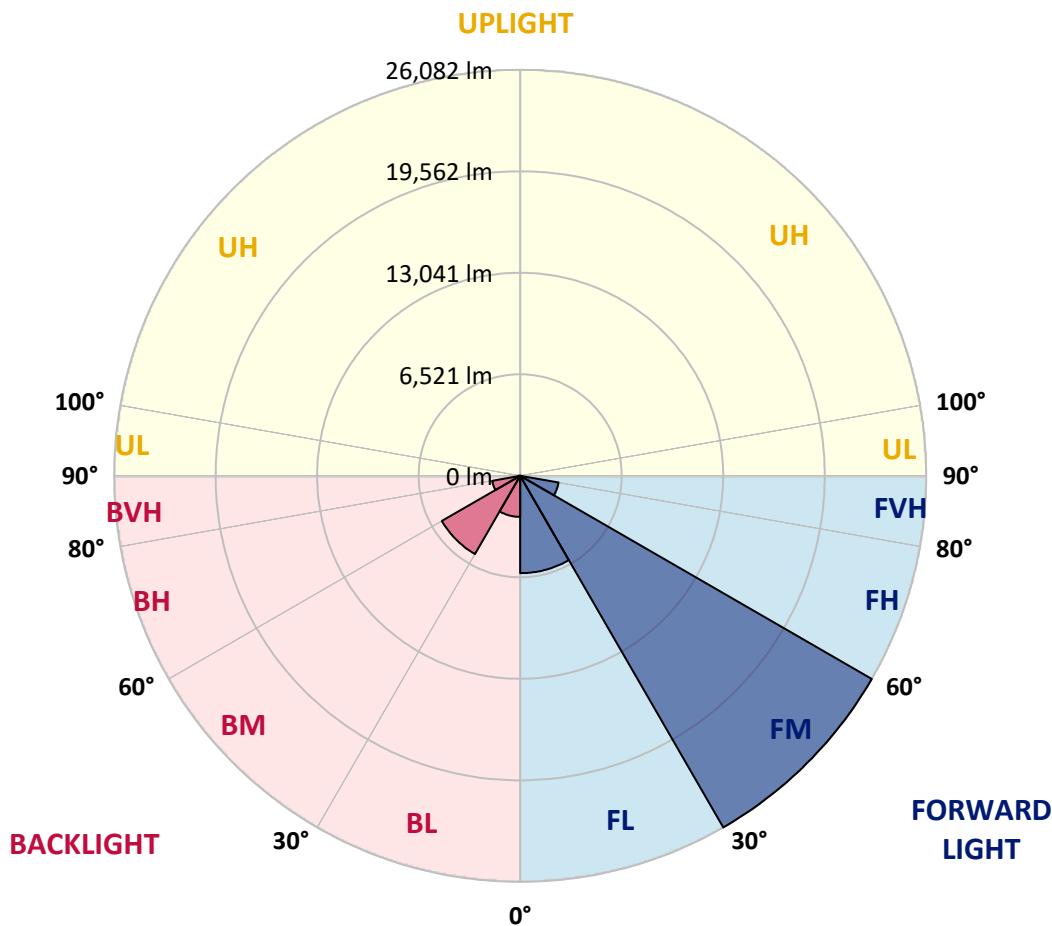
CATALOG NUMBER: GALN-SA9D-722-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 6253.4 | 13.8 | | | |
| FM (30°-60°) | 26082.2 | 57.6 | | | |
| FH (60°-80°) | 2500.7 | 5.5 | | | G2/5000 |
| FVH (80°-90°) | 87.6 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2638.4 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 5804.2 | 12.8 | B4/8500 | | |
| BH (60°-80°) | 1828.6 | 4.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 107.9 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P534222

CATALOG NUMBER: GALN-SA9D-722-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 |
| 2.5° | 8111.6 | 8061.2 | 7909.8 | 7859.4 | 7680.0 | 7354.9 | 7242.7 | 6912.0 | 6771.8 | 6642.9 | 6491.6 |
| 5° | 10258.7 | 10023.2 | 10006.4 | 9720.5 | 9305.7 | 9064.6 | 8347.1 | 7865.0 | 7422.1 | 7197.9 | 6783.1 |
| 7.5° | 11626.5 | 11632.1 | 11632.1 | 11396.7 | 11065.9 | 10454.9 | 9810.2 | 8941.3 | 8274.2 | 7943.5 | 7237.1 |
| 10° | 12927.1 | 12814.9 | 12753.3 | 12730.9 | 12506.6 | 11912.4 | 11222.9 | 10146.6 | 9232.8 | 8846.0 | 7579.1 |
| 12.5° | 13846.4 | 13751.1 | 13891.3 | 13818.4 | 13655.8 | 13269.0 | 12618.7 | 11391.1 | 10247.5 | 9726.1 | 8128.5 |
| 15° | 14283.7 | 14350.9 | 14463.1 | 14664.9 | 14592.0 | 14446.2 | 13728.7 | 12669.2 | 11340.6 | 10752.0 | 8616.2 |
| 17.5° | 14956.4 | 14771.4 | 14905.9 | 15158.2 | 15360.0 | 15292.7 | 14883.5 | 13594.1 | 12422.5 | 11699.4 | 9272.1 |
| 20° | 15427.3 | 15320.7 | 15388.0 | 15679.5 | 15830.9 | 16212.1 | 15999.1 | 14805.0 | 13459.6 | 12697.2 | 10045.7 |
| 22.5° | 16772.7 | 16615.7 | 16397.1 | 16441.9 | 16498.0 | 16767.1 | 16817.5 | 16133.6 | 14664.9 | 13857.6 | 10780.0 |
| 25° | 18432.0 | 18286.2 | 18028.4 | 17764.9 | 17602.3 | 17551.9 | 17725.6 | 17176.3 | 15819.7 | 14984.4 | 11570.4 |
| 27.5° | 20259.5 | 20012.8 | 19850.3 | 19306.5 | 18869.2 | 18802.0 | 18717.9 | 18420.8 | 17187.5 | 16284.9 | 12461.8 |
| 30° | 22036.5 | 21840.3 | 21621.7 | 20752.8 | 20298.7 | 20225.9 | 19811.0 | 19895.1 | 18673.0 | 17669.6 | 13470.8 |
| 32.5° | 23381.9 | 23398.8 | 22899.8 | 22244.0 | 21817.9 | 21431.1 | 21279.7 | 21520.8 | 20579.0 | 19771.8 | 14597.6 |
| 35° | 24469.5 | 24519.9 | 24043.4 | 23449.2 | 22989.5 | 23258.6 | 23191.3 | 23303.5 | 22855.0 | 21868.4 | 15909.4 |
| 37.5° | 25529.0 | 25276.7 | 24766.6 | 24480.7 | 24239.6 | 24682.5 | 25254.3 | 25349.6 | 25433.7 | 24273.3 | 17434.1 |
| 40° | 25702.8 | 25725.2 | 25428.1 | 25629.9 | 25327.2 | 25994.3 | 27322.8 | 27199.5 | 27541.5 | 26526.8 | 19087.9 |
| 42.5° | 25456.1 | 25506.5 | 25624.3 | 25910.2 | 26638.9 | 27440.6 | 29413.8 | 28909.3 | 29324.1 | 28421.6 | 20696.7 |
| 45° | 25052.5 | 24845.1 | 24990.8 | 26078.3 | 27339.7 | 29122.3 | 31325.4 | 30933.0 | 30798.5 | 30041.7 | 22613.9 |
| 47.5° | 23124.1 | 23337.1 | 23791.2 | 25131.0 | 27025.7 | 29413.8 | 32682.0 | 32592.3 | 32995.9 | 32463.4 | 24357.4 |
| 50° | 20450.1 | 20366.0 | 21240.5 | 22748.5 | 25192.6 | 28842.0 | 32609.1 | 33422.0 | 34290.9 | 33550.9 | 25136.6 |
| 52.5° | 15315.1 | 15763.6 | 16514.8 | 18387.1 | 21874.0 | 25725.2 | 31017.1 | 32373.7 | 33080.0 | 32923.1 | 24508.7 |
| 55° | 9681.3 | 9815.8 | 10269.9 | 12495.4 | 15634.7 | 20646.3 | 26588.5 | 29733.3 | 30994.7 | 31583.3 | 23931.3 |
| 57.5° | 4703.3 | 4451.0 | 5006.0 | 6794.3 | 9031.0 | 13885.7 | 20506.1 | 25899.0 | 28640.2 | 29705.3 | 22675.6 |
| 60° | 2455.4 | 2550.7 | 2769.3 | 3408.3 | 4669.7 | 7209.1 | 12781.3 | 17260.4 | 21447.9 | 23084.8 | 17187.5 |
| 62.5° | 2034.9 | 2068.6 | 2214.3 | 2533.8 | 3105.6 | 4148.3 | 6525.2 | 8414.4 | 10937.0 | 12411.3 | 9776.6 |
| 65° | 1726.6 | 1743.4 | 1900.4 | 2113.4 | 2477.8 | 2920.6 | 3357.9 | 3514.9 | 4254.8 | 4366.9 | 3475.6 |
| 67.5° | 1440.7 | 1457.5 | 1625.7 | 1827.5 | 2062.9 | 2180.7 | 2292.8 | 2281.6 | 2365.7 | 2332.0 | 2326.4 |
| 70° | 1110.0 | 1126.8 | 1300.6 | 1513.6 | 1631.3 | 1564.0 | 1911.6 | 1990.1 | 2023.7 | 2051.7 | 2096.6 |
| 72.5° | 801.6 | 835.3 | 969.8 | 1121.2 | 1059.5 | 1216.5 | 1575.2 | 1693.0 | 1737.8 | 1754.6 | 1810.7 |
| 75° | 583.0 | 594.2 | 627.9 | 583.0 | 672.7 | 846.5 | 1110.0 | 1255.7 | 1311.8 | 1328.6 | 1412.7 |
| 77.5° | 257.9 | 263.5 | 269.1 | 336.4 | 431.6 | 526.9 | 661.5 | 779.2 | 857.7 | 880.1 | 902.5 |
| 80° | 134.5 | 140.1 | 173.8 | 229.8 | 308.3 | 386.8 | 482.1 | 549.4 | 599.8 | 605.4 | 627.9 |
| 82.5° | 84.1 | 89.7 | 123.3 | 162.6 | 218.6 | 285.9 | 353.2 | 409.2 | 448.5 | 454.1 | 459.7 |
| 85° | 39.2 | 50.5 | 72.9 | 100.9 | 145.8 | 185.0 | 190.6 | 162.6 | 173.8 | 179.4 | 168.2 |
| 87.5° | 11.2 | 16.8 | 22.4 | 16.8 | 22.4 | 22.4 | 28.0 | 33.6 | 33.6 | 33.6 | 39.2 |
| 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° | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 | 6306.6 |
| 2.5° | 6407.5 | 6357.0 | 6160.8 | 6087.9 | 5897.3 | 5931.0 | 5830.1 | 5824.5 | 5802.0 | 5796.4 | 5790.8 |
| 5° | 6564.4 | 6407.5 | 6172.0 | 5992.6 | 5886.1 | 5874.9 | 5802.0 | 5802.0 | 5824.5 | 5841.3 | 5802.0 |
| 7.5° | 6822.3 | 6642.9 | 6244.9 | 6076.7 | 5981.4 | 5964.6 | 5914.2 | 5874.9 | 5925.4 | 5908.5 | 5863.7 |
| 10° | 7119.4 | 6805.5 | 6385.0 | 6239.3 | 6082.3 | 6043.1 | 6043.1 | 6059.9 | 5975.8 | 6003.8 | 5959.0 |
| 12.5° | 7450.2 | 7029.7 | 6564.4 | 6396.3 | 6211.3 | 6188.8 | 6177.6 | 6054.3 | 6099.1 | 6076.7 | 5964.6 |
| 15° | 7870.6 | 7287.6 | 6794.3 | 6508.4 | 6351.4 | 6250.5 | 6104.8 | 6082.3 | 6054.3 | 5998.2 | 5947.8 |
| 17.5° | 8324.7 | 7567.9 | 6900.8 | 6542.0 | 6306.6 | 6233.7 | 6121.6 | 6003.8 | 5919.8 | 5931.0 | 5891.7 |
| 20° | 8711.5 | 7825.7 | 6940.0 | 6575.6 | 6272.9 | 6132.8 | 5959.0 | 5886.1 | 5796.4 | 5790.8 | 5785.2 |
| 22.5° | 9171.1 | 8173.3 | 6996.1 | 6486.0 | 6172.0 | 6026.3 | 5908.5 | 5779.6 | 5718.0 | 5639.5 | 5678.7 |
| 25° | 9720.5 | 8307.8 | 7007.3 | 6435.5 | 6099.1 | 5841.3 | 5779.6 | 5639.5 | 5617.0 | 5504.9 | 5527.4 |
| 27.5° | 10118.5 | 8380.7 | 6917.6 | 6278.5 | 5931.0 | 5734.8 | 5622.7 | 5521.7 | 5482.5 | 5398.4 | 5376.0 |
| 30° | 10651.1 | 8492.8 | 6727.0 | 6082.3 | 5762.8 | 5544.2 | 5476.9 | 5454.5 | 5342.4 | 5252.7 | 5241.5 |
| 32.5° | 11256.5 | 8565.7 | 6603.7 | 5880.5 | 5589.0 | 5420.8 | 5454.5 | 5348.0 | 5207.8 | 5129.3 | 5106.9 |
| 35° | 11738.6 | 8593.7 | 6295.4 | 5650.7 | 5471.3 | 5364.8 | 5325.5 | 5303.1 | 5101.3 | 5028.4 | 4972.4 |
| 37.5° | 12473.0 | 8532.1 | 6037.5 | 5488.1 | 5342.4 | 5303.1 | 5269.5 | 5118.1 | 4888.3 | 4781.8 | 4703.3 |
| 40° | 13330.7 | 8515.3 | 5706.7 | 5258.3 | 5219.0 | 5263.9 | 5163.0 | 4927.5 | 4608.0 | 4490.3 | 4434.2 |
| 42.5° | 14154.7 | 8633.0 | 5499.3 | 5134.9 | 5084.5 | 5101.3 | 4961.2 | 4608.0 | 4451.0 | 4383.8 | 4294.1 |
| 45° | 15533.8 | 8879.6 | 5157.4 | 4944.3 | 4921.9 | 4910.7 | 4742.5 | 4372.6 | 4282.9 | 4198.8 | 4182.0 |
| 47.5° | 16778.3 | 8717.1 | 4938.7 | 4748.1 | 4770.6 | 4708.9 | 4350.1 | 4232.4 | 4131.5 | 4047.4 | 4019.4 |
| 50° | 16851.1 | 8330.3 | 4630.4 | 4596.8 | 4602.4 | 4495.9 | 4153.9 | 4075.4 | 3946.5 | 3890.4 | 3851.2 |
| 52.5° | 16469.9 | 7696.8 | 4344.5 | 4355.7 | 4372.6 | 4198.8 | 3912.9 | 3856.8 | 3750.3 | 3671.8 | 3649.4 |
| 55° | 15399.2 | 6710.2 | 4064.2 | 4109.1 | 4153.9 | 3823.2 | 3733.5 | 3593.3 | 3509.3 | 3397.1 | 3402.7 |
| 57.5° | 13566.1 | 5404.0 | 3671.8 | 3744.7 | 3840.0 | 3475.6 | 3408.3 | 3234.6 | 3111.2 | 3021.5 | 3010.3 |
| 60° | 9092.7 | 3845.6 | 3083.2 | 3111.2 | 3324.3 | 3178.5 | 3172.9 | 2999.1 | 2830.9 | 2752.5 | 2707.6 |
| 62.5° | 5364.8 | 2937.5 | 2662.8 | 2634.7 | 2629.1 | 2713.2 | 2853.4 | 2791.7 | 2573.1 | 2421.7 | 2466.6 |
| 65° | 2808.5 | 2539.4 | 2477.8 | 2382.5 | 2326.4 | 2304.0 | 2410.5 | 2438.5 | 2292.8 | 2130.2 | 2119.0 |
| 67.5° | 2360.1 | 2360.1 | 2309.6 | 2276.0 | 2197.5 | 2102.2 | 2034.9 | 1945.2 | 1922.8 | 1878.0 | 1821.9 |
| 70° | 2147.0 | 2203.1 | 2186.3 | 2107.8 | 2040.5 | 1934.0 | 1760.2 | 1614.5 | 1474.3 | 1423.9 | 1457.5 |
| 72.5° | 1872.3 | 1928.4 | 1928.4 | 1889.2 | 1799.5 | 1636.9 | 1468.7 | 1300.6 | 1182.8 | 1093.1 | 1081.9 |
| 75° | 1440.7 | 1468.7 | 1536.0 | 1491.2 | 1373.4 | 1272.5 | 1098.7 | 925.0 | 812.8 | 728.8 | 711.9 |
| 77.5° | 919.4 | 964.2 | 964.2 | 958.6 | 874.5 | 779.2 | 667.1 | 543.8 | 459.7 | 398.0 | 381.2 |
| 80° | 611.0 | 639.1 | 661.5 | 639.1 | 583.0 | 510.1 | 426.0 | 342.0 | 280.3 | 229.8 | 218.6 |
| 82.5° | 448.5 | 482.1 | 498.9 | 476.5 | 420.4 | 364.4 | 302.7 | 241.1 | 179.4 | 140.1 | 128.9 |
| 85° | 173.8 | 179.4 | 201.8 | 241.1 | 235.4 | 229.8 | 185.0 | 134.5 | 100.9 | 72.9 | 67.3 |
| 87.5° | 44.8 | 39.2 | 44.8 | 44.8 | 39.2 | 33.6 | 33.6 | 33.6 | 33.6 | 16.8 | 22.4 |
| 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)