

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: P457843

Luminaire Tested: **GALN-SA9B-722-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457843
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-SA9B-722-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 800mA 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: 37837 lumens
Efficiency: N/A
Efficacy: 103.9 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

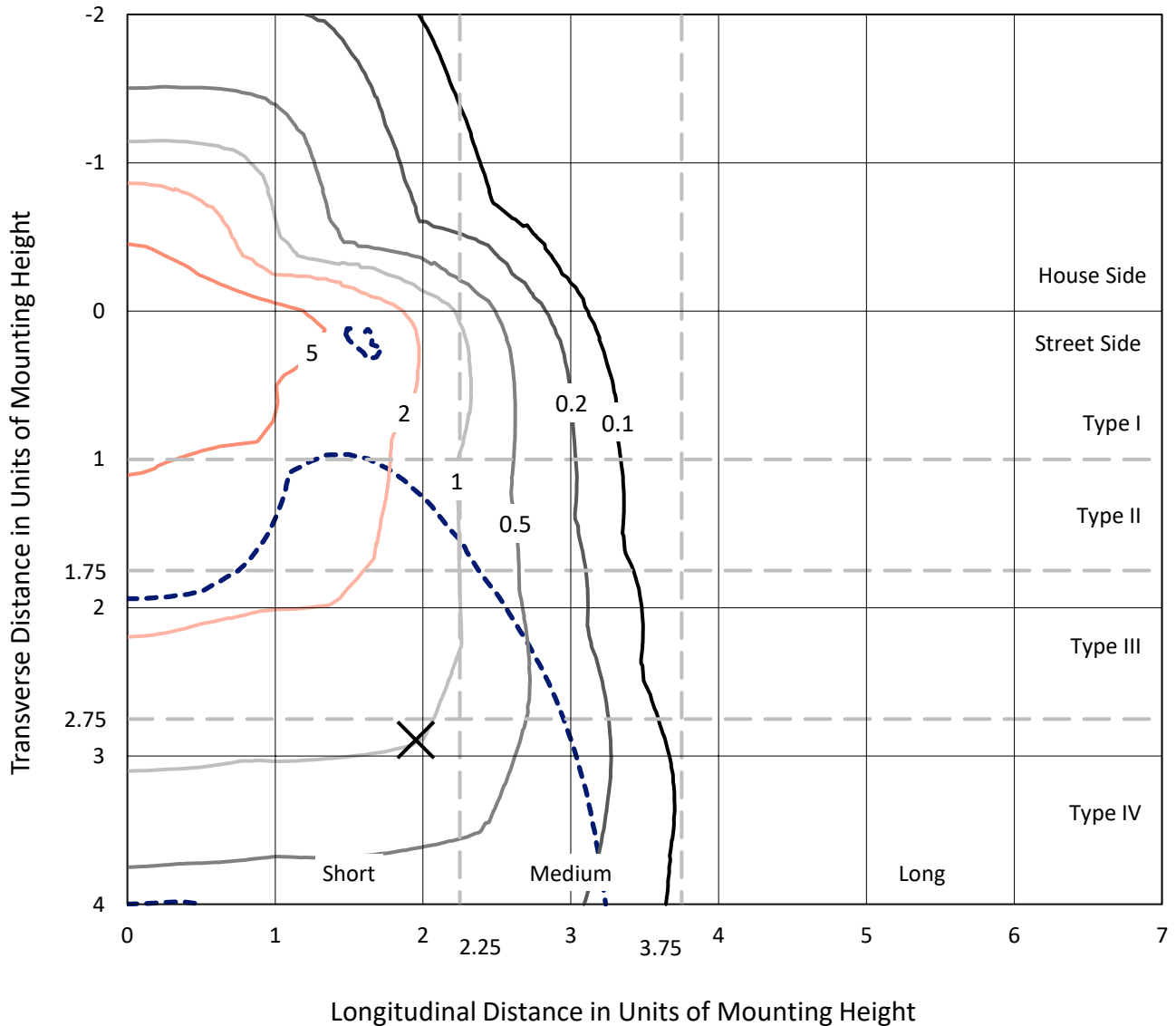
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

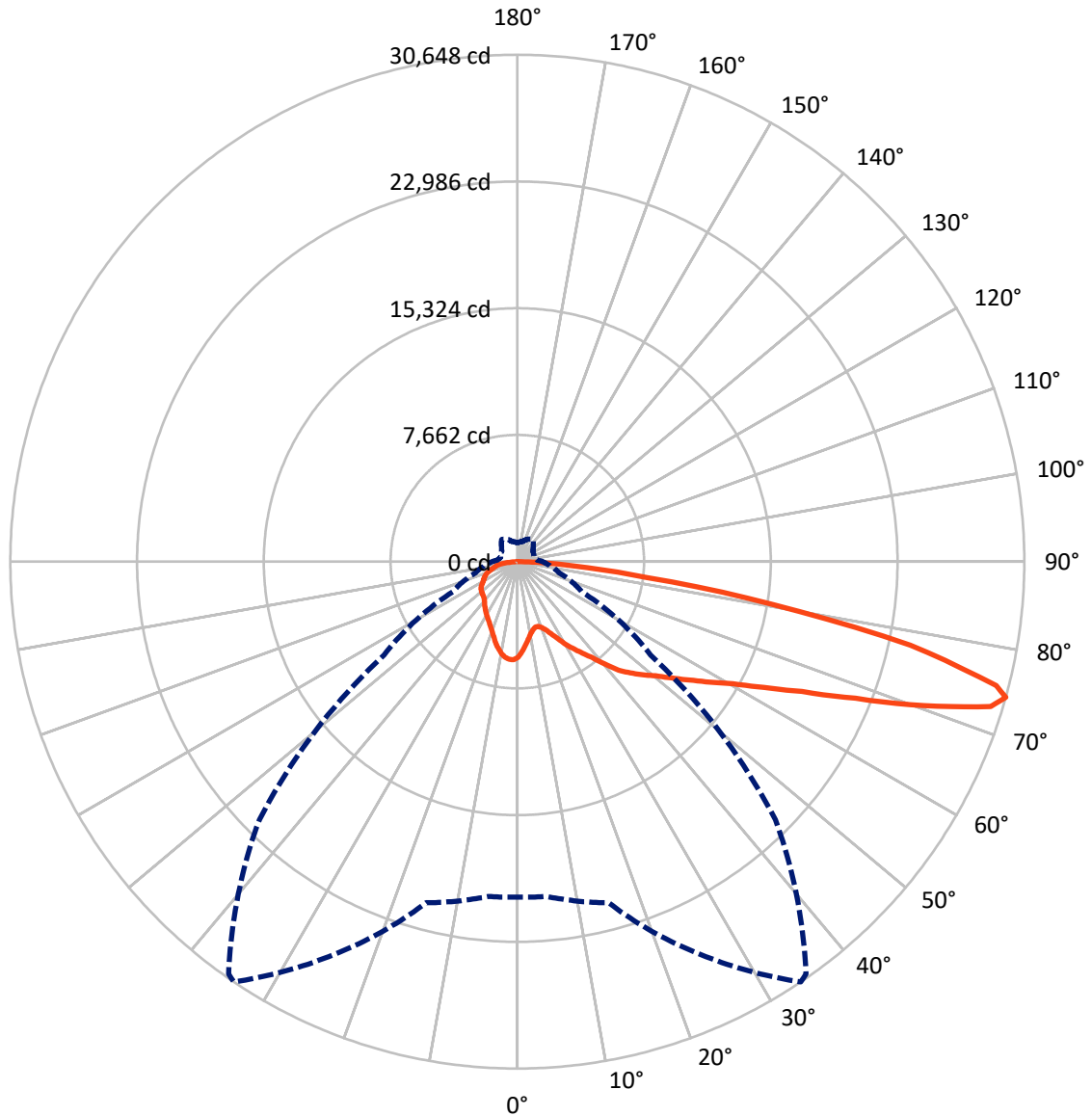
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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 | 8052.0 | 0.0 | 8052.0 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 29785.0 | 0.0 | 29785.0 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 37837.0 | 0.0 | 37837.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 525.4 | 1.4 |
| 10°-20° | 1438.2 | 3.8 |
| 20°-30° | 2371.3 | 6.3 |
| 30°-40° | 3551.9 | 9.4 |
| 40°-50° | 5163.5 | 13.6 |
| 50°-60° | 7212.2 | 19.1 |
| 60°-70° | 9029.2 | 23.9 |
| 70°-80° | 7466.5 | 19.7 |
| 80°-90° | 1078.8 | 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° | 37837.0 | 100.0 |
| 0°-180° | 37837.0 | 100.0 |

Coefficient of Utilization



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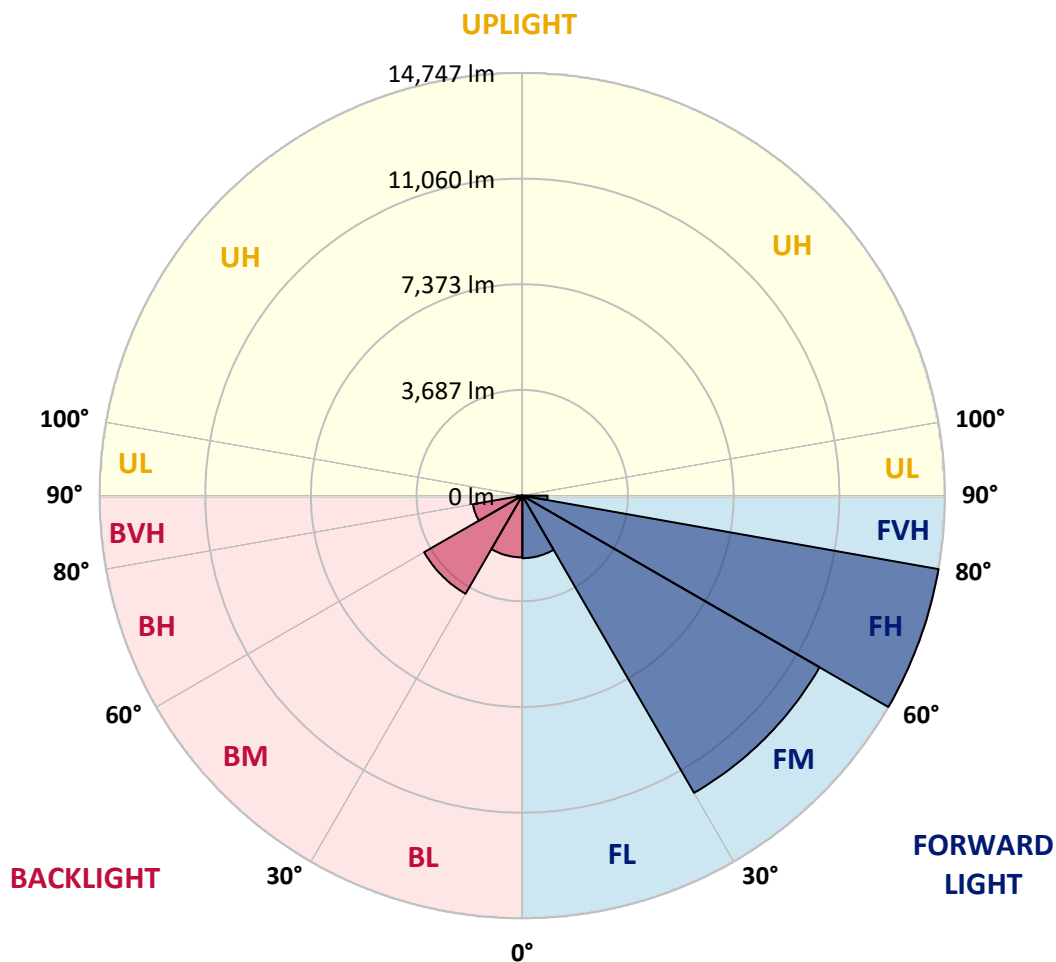
CATALOG NUMBER: GALN-SA9B-722-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2181.1 | 5.8 | | | |
| FM | (30°-60°) | 11973.2 | 31.6 | | | |
| FH | (60°-80°) | 14746.9 | 39.0 | | | G5 |
| FVH | (80°-90°) | 883.8 | 2.3 | | | G5 |
| BL | (0°-30°) | 2153.8 | 5.7 | B3/2500 | | |
| BM | (30°-60°) | 3954.3 | 10.5 | B3/5000 | | |
| BH | (60°-80°) | 1748.8 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 195.0 | 0.5 | | | 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° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 |
| 2.5° | 5338.9 | 5366.1 | 5380.8 | 5433.2 | 5445.8 | 5462.5 | 5506.6 | 5565.3 | 5640.7 | 5707.8 | 5766.5 |
| 5° | 4894.5 | 4936.4 | 4961.6 | 5007.7 | 5097.8 | 5106.2 | 5223.6 | 5357.7 | 5510.8 | 5653.3 | 5770.7 |
| 7.5° | 4473.2 | 4519.3 | 4540.2 | 4624.1 | 4743.6 | 4762.4 | 4934.3 | 5146.0 | 5401.8 | 5617.7 | 5797.9 |
| 10° | 4156.6 | 4179.7 | 4225.8 | 4288.7 | 4431.2 | 4443.8 | 4668.1 | 4951.1 | 5282.3 | 5600.9 | 5844.0 |
| 12.5° | 3984.8 | 3997.3 | 4007.8 | 4074.9 | 4215.3 | 4234.2 | 4469.0 | 4789.7 | 5187.9 | 5613.5 | 5919.5 |
| 15° | 4009.9 | 4014.1 | 3968.0 | 3980.6 | 4093.8 | 4121.0 | 4353.7 | 4682.8 | 5129.3 | 5644.9 | 6032.7 |
| 17.5° | 4221.6 | 4207.0 | 4093.8 | 4035.1 | 4114.7 | 4127.3 | 4330.6 | 4640.9 | 5102.0 | 5703.6 | 6150.1 |
| 20° | 4554.9 | 4534.0 | 4339.0 | 4209.0 | 4255.2 | 4265.6 | 4406.1 | 4672.3 | 5129.3 | 5800.0 | 6332.4 |
| 22.5° | 4969.9 | 4961.6 | 4666.0 | 4508.8 | 4506.7 | 4506.7 | 4580.1 | 4785.5 | 5211.0 | 5932.1 | 6523.2 |
| 25° | 5550.6 | 5506.6 | 5120.9 | 4917.5 | 4860.9 | 4856.8 | 4848.4 | 4972.0 | 5315.8 | 6072.5 | 6749.6 |
| 27.5° | 6145.9 | 6070.4 | 5726.7 | 5414.3 | 5292.8 | 5278.1 | 5223.6 | 5236.2 | 5450.0 | 6231.8 | 7007.4 |
| 30° | 6680.4 | 6632.2 | 6309.4 | 5963.5 | 5818.9 | 5785.3 | 5634.4 | 5565.3 | 5674.3 | 6519.0 | 7418.2 |
| 32.5° | 7089.1 | 7059.8 | 6808.3 | 6493.8 | 6280.0 | 6273.7 | 6053.7 | 5997.1 | 6024.3 | 6867.0 | 7887.8 |
| 35° | 7420.3 | 7430.8 | 7303.0 | 7030.5 | 6785.2 | 6749.6 | 6602.8 | 6531.6 | 6451.9 | 7370.0 | 8478.9 |
| 37.5° | 7873.1 | 7896.2 | 7887.8 | 7653.0 | 7353.3 | 7361.6 | 7328.1 | 7210.7 | 6999.0 | 7931.8 | 9135.0 |
| 40° | 8372.0 | 8388.8 | 8386.7 | 8296.5 | 8139.3 | 8147.7 | 8135.1 | 8001.0 | 7684.4 | 8646.6 | 9864.4 |
| 42.5° | 9061.6 | 8982.0 | 8774.4 | 8864.6 | 8956.8 | 8996.6 | 9082.6 | 8954.7 | 8520.8 | 9409.6 | 10549.9 |
| 45° | 9833.0 | 9682.1 | 9212.5 | 9254.5 | 9596.1 | 9671.6 | 10145.3 | 9969.2 | 9428.4 | 10285.8 | 11356.9 |
| 47.5° | 10319.3 | 10170.5 | 9774.3 | 9765.9 | 10218.7 | 10292.0 | 11130.5 | 11065.5 | 10254.3 | 11231.1 | 12342.1 |
| 50° | 10753.2 | 10732.2 | 10285.8 | 10392.7 | 10834.9 | 10943.9 | 12203.7 | 12142.9 | 11078.1 | 12346.3 | 13415.3 |
| 52.5° | 11396.7 | 11226.9 | 10870.6 | 11090.7 | 11675.5 | 11818.0 | 13268.6 | 13090.4 | 11834.8 | 13331.4 | 14457.1 |
| 55° | 11686.0 | 11646.2 | 11625.2 | 11815.9 | 12618.8 | 12721.5 | 14304.1 | 13895.3 | 12480.4 | 14165.7 | 15249.4 |
| 57.5° | 12459.5 | 12386.1 | 12593.6 | 12723.6 | 13729.7 | 13886.9 | 15385.7 | 14735.9 | 13046.4 | 14828.1 | 15635.1 |
| 60° | 13461.4 | 13421.6 | 13612.3 | 13847.1 | 14970.6 | 15209.6 | 16618.2 | 15452.7 | 13501.2 | 15161.4 | 15423.4 |
| 62.5° | 14958.1 | 14953.9 | 14918.2 | 15421.3 | 16729.3 | 16949.4 | 18033.1 | 16150.8 | 13572.5 | 14911.9 | 14329.2 |
| 65° | 17104.5 | 17029.0 | 16718.8 | 17268.0 | 18917.7 | 19175.5 | 19506.7 | 16540.6 | 13142.8 | 13631.2 | 12065.4 |
| 67.5° | 19349.5 | 19345.3 | 19093.7 | 19806.4 | 22059.8 | 22326.0 | 21349.2 | 16454.7 | 11950.1 | 11042.5 | 8569.0 |
| 70° | 21210.8 | 21120.7 | 21441.4 | 23340.5 | 26073.9 | 26382.0 | 22961.1 | 15442.3 | 9518.6 | 7292.5 | 5091.5 |
| 72.5° | 21657.3 | 21661.5 | 22328.1 | 26065.5 | 29928.7 | 29976.9 | 23541.7 | 12516.1 | 6370.2 | 4022.5 | 2546.8 |
| 74° | 20282.2 | 20317.9 | 21351.3 | 26201.7 | 30647.7 | 30429.7 | 22057.7 | 9837.2 | 4307.6 | 2626.5 | 1836.2 |
| 75° | 18513.1 | 18288.8 | 19783.4 | 25294.1 | 29901.4 | 29666.7 | 20320.0 | 7894.1 | 3286.7 | 2098.2 | 1607.7 |
| 77.5° | 9898.0 | 10126.5 | 12432.2 | 18875.7 | 24292.2 | 24021.8 | 13777.9 | 3785.6 | 1775.4 | 1461.0 | 1157.1 |
| 80° | 3523.6 | 3886.2 | 5462.5 | 9877.0 | 15574.3 | 15658.2 | 6575.6 | 1735.6 | 1249.3 | 1077.4 | 817.5 |
| 82.5° | 1438.0 | 1477.8 | 2345.6 | 4383.0 | 7908.7 | 7984.2 | 2685.2 | 1031.3 | 893.0 | 742.0 | 488.4 |
| 85° | 561.8 | 578.5 | 1037.6 | 1970.4 | 3374.8 | 3594.9 | 928.6 | 545.0 | 549.2 | 425.5 | 249.4 |
| 87.5° | 188.7 | 213.8 | 425.5 | 656.1 | 1146.6 | 1123.5 | 270.4 | 161.4 | 197.0 | 184.5 | 77.6 |
| 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° | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 | 5777.0 |
| 2.5° | 5795.8 | 5835.7 | 5862.9 | 5892.2 | 5919.5 | 5927.9 | 5921.6 | 5940.5 | 5942.6 | 5944.7 | 5946.7 |
| 5° | 5829.4 | 5883.9 | 5936.3 | 5965.6 | 5978.2 | 5967.7 | 5932.1 | 5913.2 | 5896.4 | 5883.9 | 5888.1 |
| 7.5° | 5875.5 | 5953.0 | 6001.2 | 6013.8 | 5980.3 | 5932.1 | 5844.0 | 5774.9 | 5730.8 | 5701.5 | 5699.4 |
| 10° | 5946.7 | 6022.2 | 6062.0 | 6026.4 | 5934.2 | 5816.8 | 5678.4 | 5548.5 | 5450.0 | 5420.6 | 5418.5 |
| 12.5° | 6036.9 | 6122.8 | 6120.7 | 6015.9 | 5854.5 | 5644.9 | 5420.6 | 5269.7 | 5135.5 | 5068.5 | 5095.7 |
| 15° | 6154.3 | 6219.2 | 6158.5 | 5969.8 | 5714.1 | 5426.9 | 5150.2 | 4944.8 | 4793.9 | 4722.6 | 4726.8 |
| 17.5° | 6290.5 | 6347.1 | 6185.7 | 5888.1 | 5517.0 | 5148.1 | 4827.4 | 4632.5 | 4513.0 | 4460.6 | 4456.4 |
| 20° | 6460.3 | 6477.1 | 6185.7 | 5745.5 | 5263.4 | 4823.2 | 4517.2 | 4380.9 | 4313.9 | 4286.6 | 4295.0 |
| 22.5° | 6642.7 | 6609.1 | 6152.2 | 5544.3 | 4930.1 | 4483.6 | 4278.2 | 4217.4 | 4183.9 | 4179.7 | 4183.9 |
| 25° | 6848.1 | 6753.8 | 6083.0 | 5271.8 | 4582.2 | 4190.2 | 4070.7 | 4081.2 | 4087.5 | 4087.5 | 4102.1 |
| 27.5° | 7099.6 | 6911.0 | 5967.7 | 4928.0 | 4175.5 | 3917.7 | 3884.1 | 3957.5 | 3991.1 | 3997.3 | 4007.8 |
| 30° | 7430.8 | 7082.9 | 5777.0 | 4498.3 | 3829.6 | 3672.4 | 3731.1 | 3829.6 | 3867.4 | 3890.4 | 3886.2 |
| 32.5° | 7824.9 | 7271.5 | 5519.1 | 4068.6 | 3550.9 | 3500.6 | 3571.8 | 3672.4 | 3714.4 | 3726.9 | 3710.2 |
| 35° | 8288.1 | 7485.3 | 5179.6 | 3666.1 | 3307.7 | 3337.1 | 3420.9 | 3452.3 | 3490.1 | 3490.1 | 3498.5 |
| 37.5° | 8787.0 | 7657.2 | 4764.5 | 3297.2 | 3119.1 | 3226.0 | 3286.7 | 3257.4 | 3240.6 | 3219.7 | 3230.2 |
| 40° | 9294.3 | 7785.1 | 4225.8 | 2932.5 | 2930.4 | 3110.7 | 3127.4 | 3043.6 | 2976.5 | 2955.6 | 2945.1 |
| 42.5° | 9736.6 | 7864.7 | 3739.5 | 2649.5 | 2752.2 | 2997.5 | 3010.1 | 2875.9 | 2769.0 | 2706.1 | 2685.2 |
| 45° | 10258.5 | 7956.9 | 3263.7 | 2414.8 | 2586.6 | 2907.3 | 2938.8 | 2758.5 | 2601.3 | 2469.3 | 2435.7 |
| 47.5° | 10973.3 | 8166.6 | 2888.5 | 2232.4 | 2467.2 | 2850.8 | 2894.8 | 2662.1 | 2454.6 | 2282.7 | 2255.4 |
| 50° | 11780.3 | 8453.7 | 2597.1 | 2108.7 | 2374.9 | 2800.4 | 2854.9 | 2563.6 | 2318.3 | 2127.6 | 2106.6 |
| 52.5° | 12520.2 | 8608.8 | 2345.6 | 1997.6 | 2284.8 | 2708.2 | 2802.5 | 2492.3 | 2184.2 | 1972.5 | 1953.6 |
| 55° | 12924.8 | 8357.3 | 2098.2 | 1888.6 | 2161.1 | 2588.7 | 2729.2 | 2393.8 | 2054.2 | 1890.7 | 1863.5 |
| 57.5° | 12979.3 | 7837.5 | 1873.9 | 1771.2 | 2031.2 | 2442.0 | 2592.9 | 2274.3 | 1970.4 | 1834.1 | 1811.1 |
| 60° | 12558.0 | 7061.9 | 1700.0 | 1674.8 | 1899.1 | 2276.4 | 2439.9 | 2169.5 | 1884.4 | 1771.2 | 1748.2 |
| 62.5° | 11509.9 | 6219.2 | 1578.4 | 1586.8 | 1764.9 | 2102.4 | 2326.7 | 2068.9 | 1802.7 | 1702.1 | 1681.1 |
| 65° | 9707.2 | 5133.4 | 1461.0 | 1496.6 | 1645.5 | 1966.2 | 2224.0 | 1985.0 | 1720.9 | 1649.7 | 1630.8 |
| 67.5° | 6743.3 | 3706.0 | 1364.6 | 1402.3 | 1532.3 | 1827.8 | 2104.5 | 1894.9 | 1628.7 | 1591.0 | 1561.6 |
| 70° | 3733.2 | 2280.6 | 1251.4 | 1295.4 | 1414.9 | 1672.7 | 1970.4 | 1758.7 | 1494.5 | 1477.8 | 1435.9 |
| 72.5° | 1962.0 | 1452.6 | 1123.5 | 1171.7 | 1255.6 | 1473.6 | 1764.9 | 1609.8 | 1362.5 | 1291.2 | 1236.7 |
| 74° | 1532.3 | 1190.6 | 1037.6 | 1087.9 | 1144.5 | 1356.2 | 1643.4 | 1502.9 | 1268.2 | 1184.3 | 1142.4 |
| 75° | 1335.2 | 1060.6 | 964.2 | 1029.2 | 1079.5 | 1276.5 | 1549.0 | 1427.5 | 1215.8 | 1136.1 | 1098.4 |
| 77.5° | 943.3 | 794.4 | 788.1 | 865.7 | 893.0 | 1119.3 | 1396.0 | 1299.6 | 1083.7 | 999.9 | 964.2 |
| 80° | 662.4 | 595.3 | 624.6 | 672.9 | 710.6 | 989.4 | 1295.4 | 1123.5 | 888.8 | 790.2 | 777.7 |
| 82.5° | 431.8 | 389.9 | 446.5 | 490.5 | 503.1 | 729.5 | 1046.0 | 853.1 | 647.7 | 526.1 | 488.4 |
| 85° | 199.1 | 194.9 | 255.7 | 249.4 | 247.3 | 356.3 | 620.5 | 498.9 | 373.1 | 278.8 | 262.0 |
| 87.5° | 50.3 | 48.2 | 62.9 | 52.4 | 62.9 | 54.5 | 56.6 | 14.7 | 2.1 | 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)