

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: P530482

Luminaire Tested: **GALN-SA5D-722-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-722-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24861 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

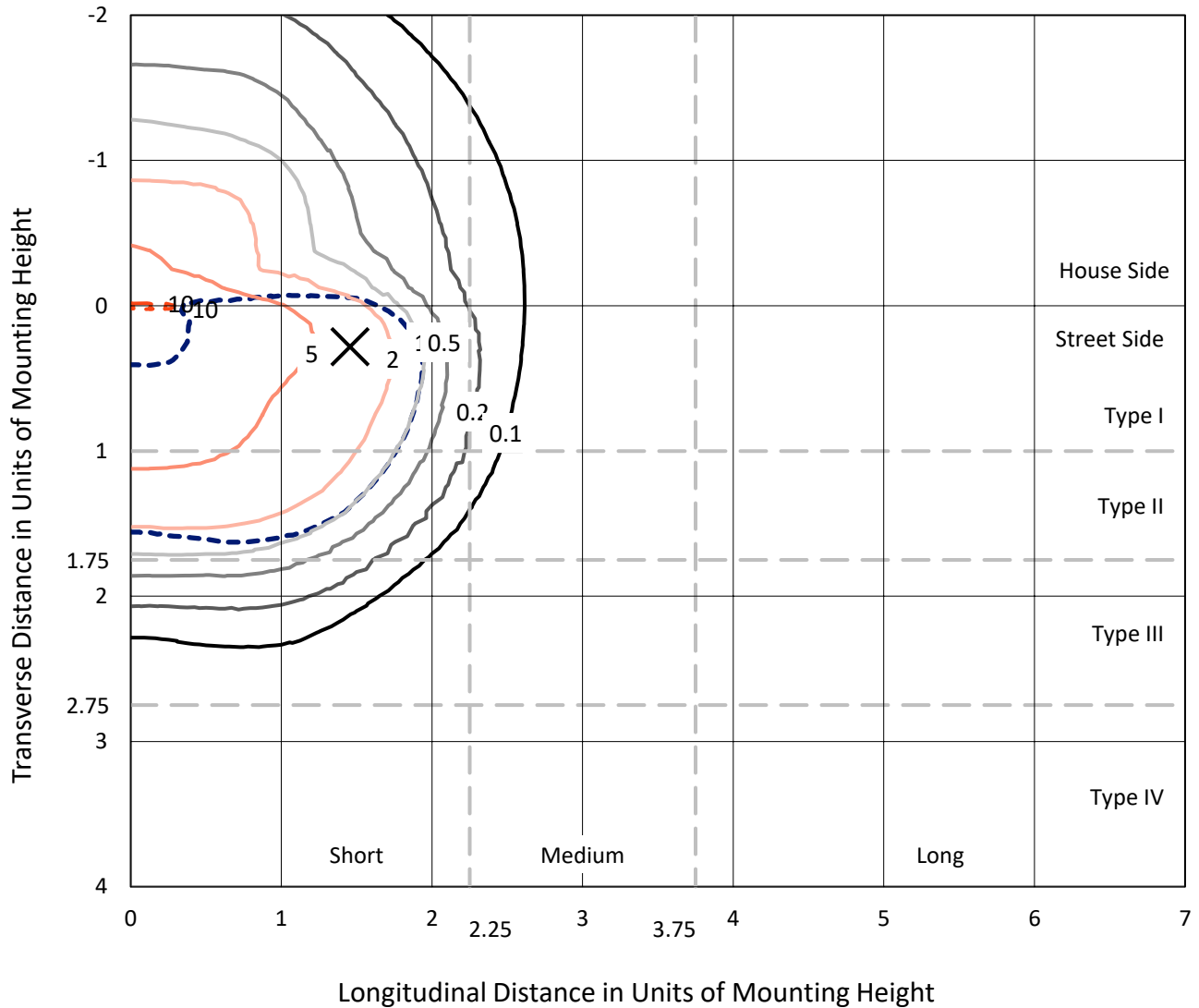
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

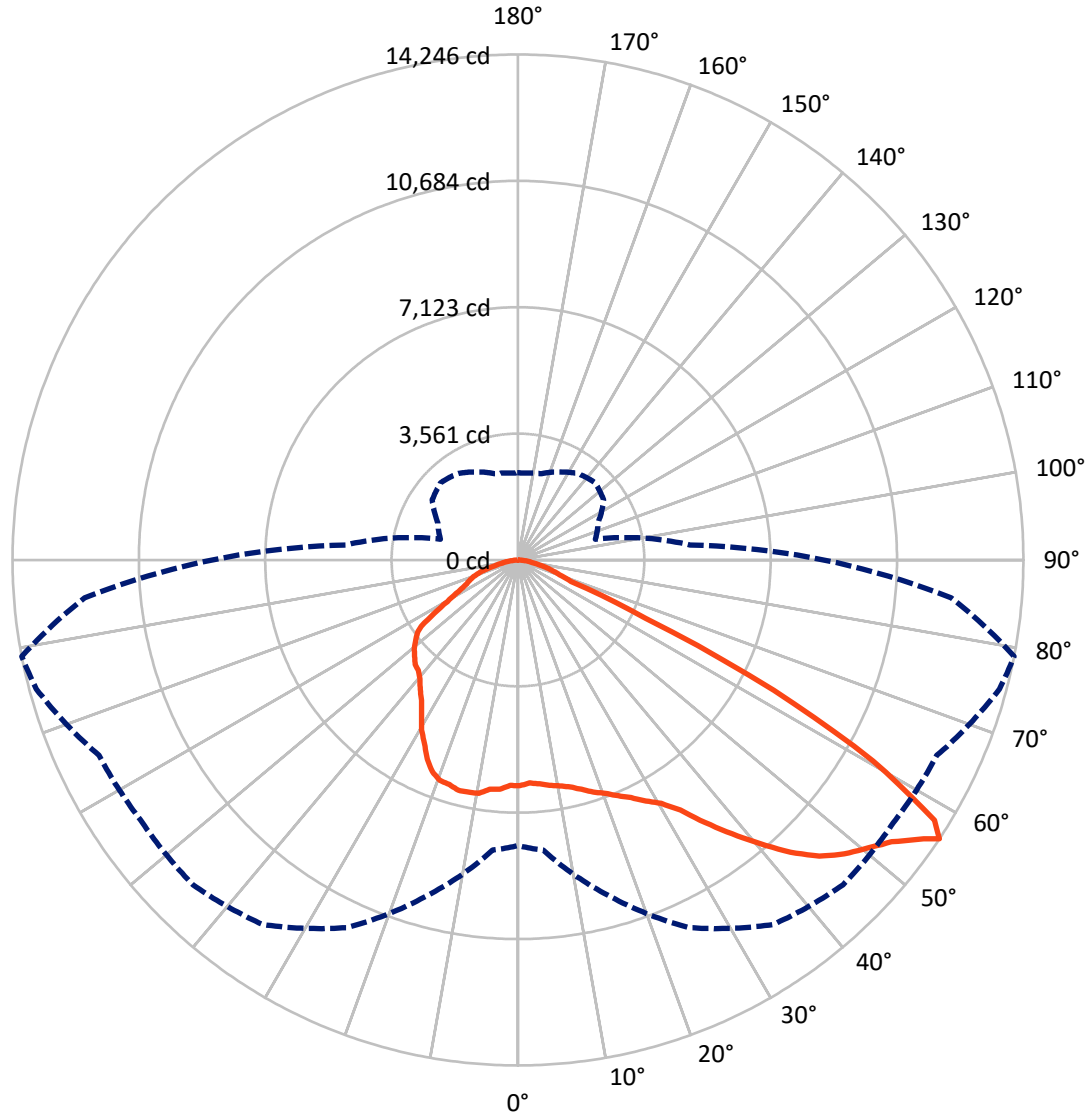
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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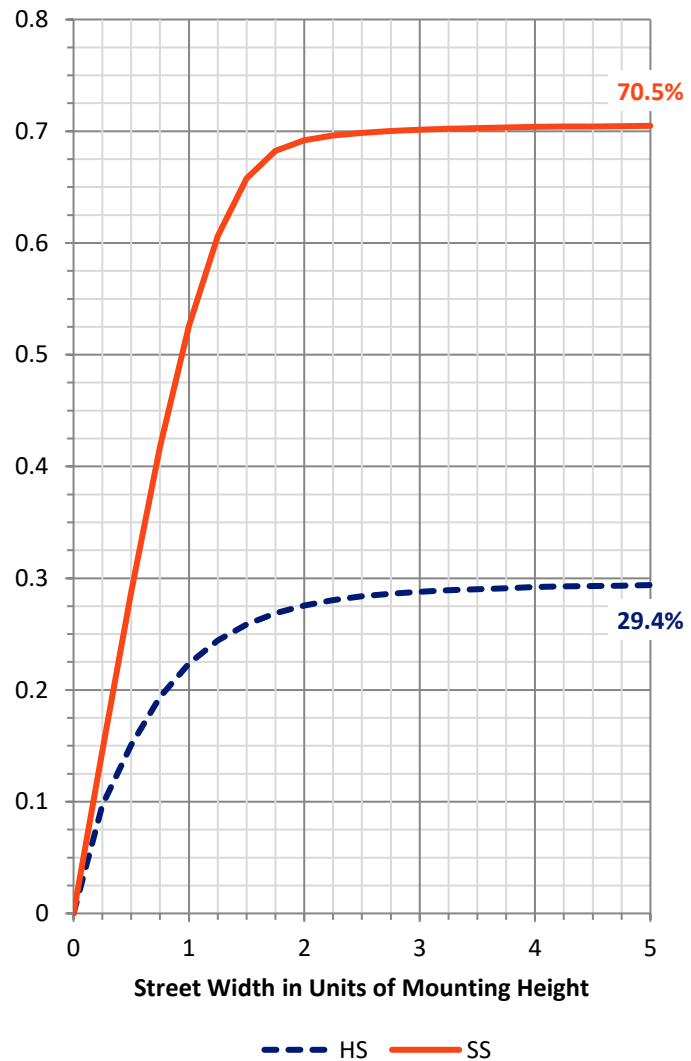
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7342.0 | 0.0 | 7342.0 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 17519.0 | 0.0 | 17519.0 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 24861.0 | 0.0 | 24861.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 578.3 | 2.3 |
| 10°-20° | 1582.7 | 6.4 |
| 20°-30° | 2707.7 | 10.9 |
| 30°-40° | 4150.0 | 16.7 |
| 40°-50° | 5608.6 | 22.6 |
| 50°-60° | 6441.7 | 25.9 |
| 60°-70° | 2936.3 | 11.8 |
| 70°-80° | 723.9 | 2.9 |
| 80°-90° | 131.6 | 0.5 |
| 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° | 24861.0 | 100.0 |
| 0°-180° | 24861.0 | 100.0 |



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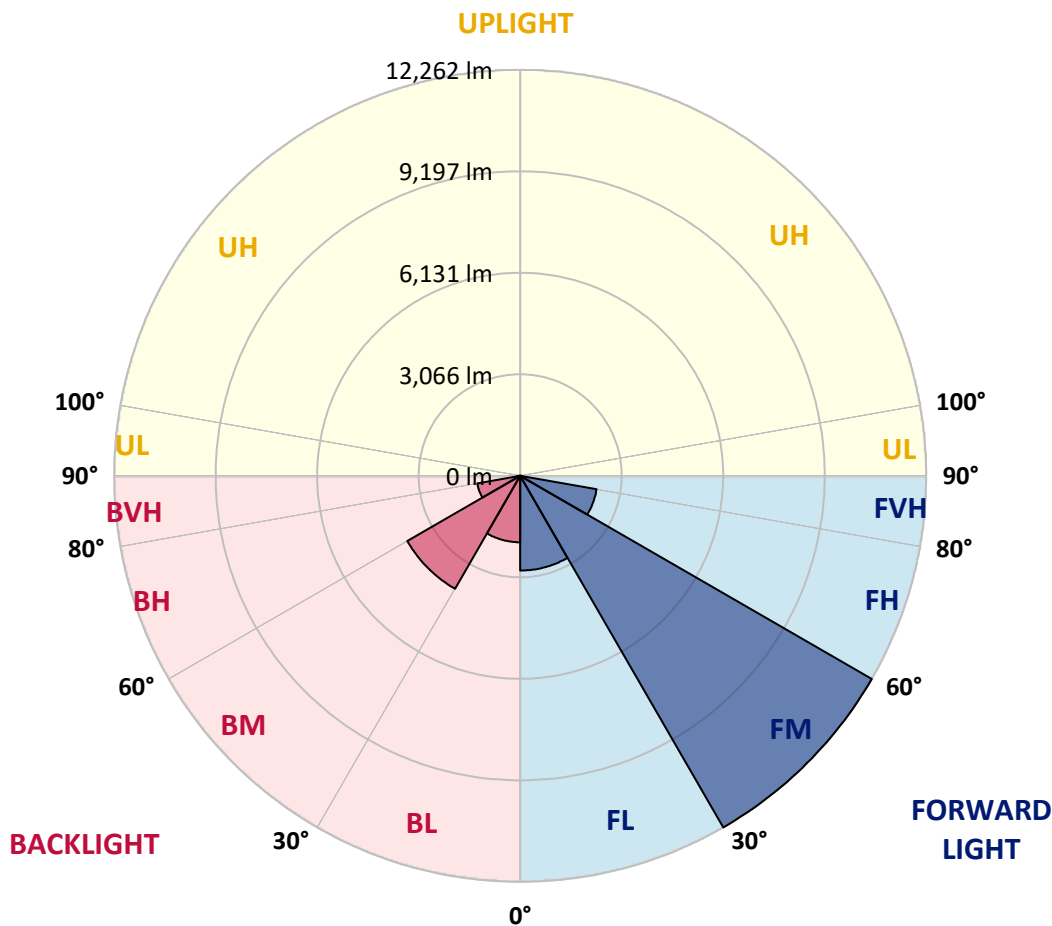
CATALOG NUMBER: GALN-SA5D-722-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2860.5 | 11.5 | | | |
| FM (30°-60°) | 12262.2 | 49.3 | | | |
| FH (60°-80°) | 2343.8 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 52.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2008.4 | 8.1 | B3/2500 | | |
| BM (30°-60°) | 3938.1 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 1316.4 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 79.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 |
| 2.5° | 6051.3 | 6035.8 | 6072.9 | 6100.8 | 6134.9 | 6178.2 | 6199.9 | 6212.3 | 6320.7 | 6292.8 | 6376.4 |
| 5° | 5921.2 | 5880.9 | 5908.8 | 5930.5 | 5989.3 | 6042.0 | 6100.8 | 6193.7 | 6292.8 | 6336.2 | 6438.4 |
| 7.5° | 5806.6 | 5784.9 | 5778.7 | 5794.2 | 5874.7 | 5942.9 | 6045.1 | 6181.3 | 6342.4 | 6413.6 | 6472.4 |
| 10° | 5617.7 | 5586.7 | 5633.2 | 5735.4 | 5757.1 | 5899.5 | 6017.2 | 6212.3 | 6351.7 | 6475.5 | 6649.0 |
| 12.5° | 5534.1 | 5503.1 | 5512.4 | 5571.2 | 5723.0 | 5859.3 | 5998.6 | 6218.5 | 6512.7 | 6562.2 | 6794.5 |
| 15° | 5667.2 | 5636.3 | 5645.6 | 5630.1 | 5775.6 | 5846.9 | 6066.7 | 6342.4 | 6624.2 | 6707.8 | 6955.5 |
| 17.5° | 5970.7 | 5973.8 | 5933.6 | 5899.5 | 5865.4 | 6017.2 | 6168.9 | 6416.7 | 6667.5 | 6878.1 | 7063.9 |
| 20° | 6549.9 | 6447.7 | 6367.1 | 6175.1 | 6122.5 | 6187.5 | 6379.5 | 6618.0 | 6844.1 | 7017.5 | 7228.1 |
| 22.5° | 6995.8 | 7005.1 | 6890.5 | 6574.6 | 6460.0 | 6487.9 | 6652.1 | 6847.2 | 7094.9 | 7218.8 | 7460.3 |
| 25° | 7643.0 | 7578.0 | 7454.1 | 7203.3 | 6946.3 | 6967.9 | 7088.7 | 7265.2 | 7333.4 | 7420.1 | 7683.3 |
| 27.5° | 8234.5 | 8253.1 | 8008.5 | 7773.1 | 7454.1 | 7392.2 | 7609.0 | 7639.9 | 7525.4 | 7689.5 | 7779.3 |
| 30° | 8835.3 | 8819.9 | 8658.8 | 8383.2 | 8070.4 | 8082.8 | 8178.8 | 8027.1 | 7869.1 | 7958.9 | 8020.9 |
| 32.5° | 9457.8 | 9281.3 | 9275.1 | 9027.3 | 8788.9 | 8674.3 | 8556.6 | 8630.9 | 8386.3 | 8404.9 | 8346.0 |
| 35° | 9956.4 | 9981.2 | 9838.7 | 9662.2 | 9544.5 | 9343.2 | 9021.1 | 9154.3 | 9107.9 | 9086.2 | 8832.2 |
| 37.5° | 10318.7 | 10222.7 | 10294.0 | 10235.1 | 10123.6 | 9872.8 | 9538.3 | 9665.3 | 9687.0 | 9792.3 | 9498.1 |
| 40° | 10616.0 | 10575.8 | 10764.7 | 10795.6 | 10718.2 | 10176.3 | 9575.5 | 9953.3 | 10278.5 | 10507.6 | 10157.7 |
| 42.5° | 10758.5 | 10845.2 | 11043.4 | 11281.9 | 11108.4 | 10529.3 | 9767.5 | 10173.2 | 10897.8 | 11260.2 | 10783.3 |
| 45° | 10950.5 | 10839.0 | 11133.2 | 11569.9 | 11573.0 | 10826.6 | 9953.3 | 10470.5 | 11381.0 | 11907.4 | 11210.6 |
| 47.5° | 10755.4 | 10811.1 | 11114.6 | 11669.0 | 11811.4 | 11139.4 | 10455.0 | 10891.6 | 11913.6 | 12381.2 | 11607.0 |
| 50° | 10318.7 | 10430.2 | 10984.6 | 11560.6 | 11991.0 | 11470.8 | 11031.0 | 11346.9 | 12406.0 | 12762.1 | 11672.1 |
| 52.5° | 9863.5 | 9925.4 | 10792.5 | 11644.2 | 12071.6 | 11898.1 | 11802.1 | 11975.5 | 13006.8 | 13192.6 | 11752.6 |
| 55° | 8624.7 | 8918.9 | 10157.7 | 11607.0 | 12464.9 | 12669.2 | 12594.9 | 12848.9 | 13688.1 | 13873.9 | 12192.3 |
| 56° | 8051.8 | 8206.7 | 9776.8 | 11433.6 | 12542.3 | 12951.1 | 12913.9 | 13028.5 | 14050.4 | 14245.5 | 12260.5 |
| 57.5° | 6992.7 | 7005.1 | 8336.7 | 10665.6 | 12251.2 | 13034.7 | 12997.5 | 13087.3 | 13979.2 | 13846.1 | 11662.8 |
| 60° | 4375.9 | 4567.9 | 5673.4 | 8203.6 | 10417.8 | 12093.2 | 12303.8 | 11582.2 | 11786.6 | 11504.8 | 9073.8 |
| 62.5° | 2266.9 | 2239.0 | 2973.0 | 4797.0 | 6915.3 | 8658.8 | 8853.9 | 8819.9 | 8504.0 | 8092.1 | 5927.4 |
| 65° | 1130.4 | 1136.5 | 1554.6 | 2375.3 | 3542.8 | 4533.8 | 5078.8 | 5137.7 | 4298.4 | 3954.7 | 2811.9 |
| 67.5° | 820.7 | 851.6 | 1118.0 | 1452.4 | 1669.2 | 1867.4 | 2288.6 | 2245.2 | 1700.2 | 1616.6 | 1498.9 |
| 70° | 638.0 | 665.8 | 907.4 | 1108.7 | 1006.5 | 1006.5 | 1096.3 | 1133.4 | 1210.9 | 1244.9 | 1285.2 |
| 72.5° | 464.5 | 486.2 | 693.7 | 764.9 | 659.6 | 709.2 | 820.7 | 907.4 | 987.9 | 1000.3 | 1046.7 |
| 75° | 319.0 | 337.6 | 455.2 | 421.2 | 396.4 | 489.3 | 600.8 | 681.3 | 740.1 | 771.1 | 799.0 |
| 77.5° | 207.5 | 213.7 | 260.1 | 219.9 | 253.9 | 315.9 | 390.2 | 458.3 | 517.2 | 542.0 | 548.1 |
| 80° | 92.9 | 102.2 | 111.5 | 139.4 | 176.5 | 226.1 | 278.7 | 334.5 | 371.6 | 380.9 | 399.5 |
| 82.5° | 52.6 | 52.6 | 68.1 | 99.1 | 130.1 | 164.1 | 201.3 | 241.6 | 284.9 | 294.2 | 291.1 |
| 85° | 27.9 | 27.9 | 40.3 | 58.8 | 80.5 | 96.0 | 92.9 | 96.0 | 102.2 | 117.7 | 114.6 |
| 87.5° | 9.3 | 9.3 | 12.4 | 12.4 | 15.5 | 18.6 | 15.5 | 21.7 | 27.9 | 27.9 | 27.9 |
| 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° | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 | 6360.9 |
| 2.5° | 6351.7 | 6379.5 | 6342.4 | 6422.9 | 6422.9 | 6407.4 | 6330.0 | 6354.8 | 6373.3 | 6373.3 | 6388.8 |
| 5° | 6472.4 | 6463.1 | 6487.9 | 6391.9 | 6333.1 | 6311.4 | 6184.4 | 6122.5 | 6069.8 | 6066.7 | 6020.3 |
| 7.5° | 6540.6 | 6515.8 | 6506.5 | 6435.3 | 6175.1 | 6017.2 | 5744.7 | 5586.7 | 5552.7 | 5431.9 | 5478.3 |
| 10° | 6649.0 | 6695.4 | 6649.0 | 6261.8 | 5899.5 | 5537.2 | 5270.9 | 5026.2 | 4930.2 | 4852.8 | 4806.3 |
| 12.5° | 6871.9 | 6850.2 | 6580.8 | 6057.5 | 5549.6 | 5119.1 | 4722.7 | 4465.7 | 4369.7 | 4301.5 | 4295.3 |
| 15° | 7060.8 | 6952.4 | 6540.6 | 5735.4 | 5004.5 | 4546.2 | 4221.0 | 4038.3 | 3994.9 | 4001.1 | 4029.0 |
| 17.5° | 7125.9 | 7051.5 | 6330.0 | 5400.9 | 4598.8 | 4060.0 | 3908.2 | 3880.4 | 3920.6 | 3967.1 | 3979.5 |
| 20° | 7228.1 | 7110.4 | 6243.3 | 4945.7 | 4097.1 | 3756.5 | 3747.2 | 3846.3 | 3920.6 | 3988.8 | 3998.0 |
| 22.5° | 7441.7 | 7144.5 | 5961.5 | 4515.2 | 3753.4 | 3666.7 | 3756.5 | 3840.1 | 3954.7 | 4010.4 | 3960.9 |
| 25° | 7503.7 | 7070.1 | 5565.1 | 3998.0 | 3536.6 | 3610.9 | 3706.9 | 3821.5 | 3902.0 | 3933.0 | 3954.7 |
| 27.5° | 7556.3 | 6955.5 | 5029.3 | 3654.3 | 3468.5 | 3607.8 | 3706.9 | 3802.9 | 3846.3 | 3874.2 | 3898.9 |
| 30° | 7705.0 | 6921.5 | 4564.8 | 3425.1 | 3425.1 | 3545.9 | 3672.9 | 3697.6 | 3756.5 | 3790.6 | 3833.9 |
| 32.5° | 7779.3 | 6686.1 | 4087.9 | 3279.6 | 3381.8 | 3576.9 | 3586.2 | 3632.6 | 3635.7 | 3663.6 | 3617.1 |
| 35° | 7974.4 | 6518.9 | 3645.0 | 3174.3 | 3400.3 | 3545.9 | 3592.4 | 3564.5 | 3412.7 | 3338.4 | 3353.9 |
| 37.5° | 8116.9 | 6435.3 | 3326.0 | 3161.9 | 3403.4 | 3580.0 | 3604.7 | 3394.2 | 3236.2 | 3112.3 | 3143.3 |
| 40° | 8500.9 | 6227.8 | 3084.5 | 3140.2 | 3431.3 | 3617.1 | 3549.0 | 3319.8 | 3034.9 | 2907.9 | 2886.3 |
| 42.5° | 8795.1 | 6079.1 | 2932.7 | 3115.4 | 3453.0 | 3669.8 | 3521.1 | 3171.2 | 2880.1 | 2762.4 | 2793.4 |
| 45° | 9135.7 | 6045.1 | 2852.2 | 3121.6 | 3490.2 | 3697.6 | 3487.1 | 3056.6 | 2746.9 | 2700.5 | 2691.2 |
| 47.5° | 9256.5 | 5800.4 | 2765.5 | 3069.0 | 3480.9 | 3688.4 | 3372.5 | 2969.9 | 2697.4 | 2703.6 | 2728.3 |
| 50° | 9055.2 | 5549.6 | 2700.5 | 2960.6 | 3418.9 | 3604.7 | 3192.9 | 2855.3 | 2669.5 | 2746.9 | 2790.3 |
| 52.5° | 8798.2 | 5292.5 | 2567.3 | 2815.0 | 3292.0 | 3474.7 | 3109.2 | 2849.1 | 2641.6 | 2616.8 | 2626.1 |
| 55° | 8875.6 | 5081.9 | 2381.5 | 2616.8 | 3087.6 | 3233.1 | 3016.3 | 2790.3 | 2573.5 | 2480.6 | 2511.6 |
| 56° | 8624.7 | 4865.2 | 2260.7 | 2493.0 | 2948.2 | 3078.3 | 2969.9 | 2737.6 | 2517.7 | 2455.8 | 2455.8 |
| 57.5° | 7915.6 | 4137.4 | 2102.8 | 2294.8 | 2654.0 | 2808.8 | 2880.1 | 2706.7 | 2455.8 | 2347.4 | 2350.5 |
| 60° | 5837.6 | 2942.0 | 1886.0 | 2022.2 | 2198.8 | 2322.6 | 2654.0 | 2619.9 | 2301.0 | 2226.6 | 2198.8 |
| 62.5° | 3598.5 | 2149.2 | 1731.1 | 1783.8 | 1873.6 | 1975.8 | 2316.4 | 2372.2 | 2136.8 | 2056.3 | 2037.7 |
| 65° | 2016.1 | 1644.4 | 1613.5 | 1635.1 | 1678.5 | 1731.1 | 1923.1 | 2047.0 | 1886.0 | 1762.1 | 1755.9 |
| 67.5° | 1474.1 | 1471.0 | 1495.8 | 1514.4 | 1532.9 | 1532.9 | 1579.4 | 1628.9 | 1607.3 | 1508.2 | 1498.9 |
| 70° | 1310.0 | 1319.3 | 1337.8 | 1340.9 | 1347.1 | 1325.5 | 1288.3 | 1272.8 | 1297.6 | 1235.6 | 1223.3 |
| 72.5° | 1080.8 | 1111.8 | 1133.4 | 1136.5 | 1102.5 | 1074.6 | 1025.1 | 972.4 | 953.8 | 941.4 | 938.3 |
| 75° | 830.0 | 851.6 | 860.9 | 857.8 | 845.4 | 805.2 | 746.3 | 693.7 | 659.6 | 622.5 | 641.0 |
| 77.5° | 560.5 | 591.5 | 607.0 | 607.0 | 588.4 | 526.5 | 498.6 | 458.3 | 424.3 | 384.0 | 390.2 |
| 80° | 393.3 | 415.0 | 439.8 | 436.7 | 405.7 | 374.7 | 334.5 | 297.3 | 269.4 | 238.5 | 235.4 |
| 82.5° | 294.2 | 306.6 | 319.0 | 312.8 | 291.1 | 260.1 | 232.3 | 198.2 | 167.2 | 145.6 | 145.6 |
| 85° | 105.3 | 114.6 | 139.4 | 145.6 | 157.9 | 157.9 | 133.2 | 111.5 | 89.8 | 74.3 | 74.3 |
| 87.5° | 31.0 | 31.0 | 34.1 | 34.1 | 31.0 | 34.1 | 27.9 | 31.0 | 34.1 | 21.7 | 21.7 |
| 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)