

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: P529572

Luminaire Tested: **GALN-SA4D-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529572
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-SA4D-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 22342 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

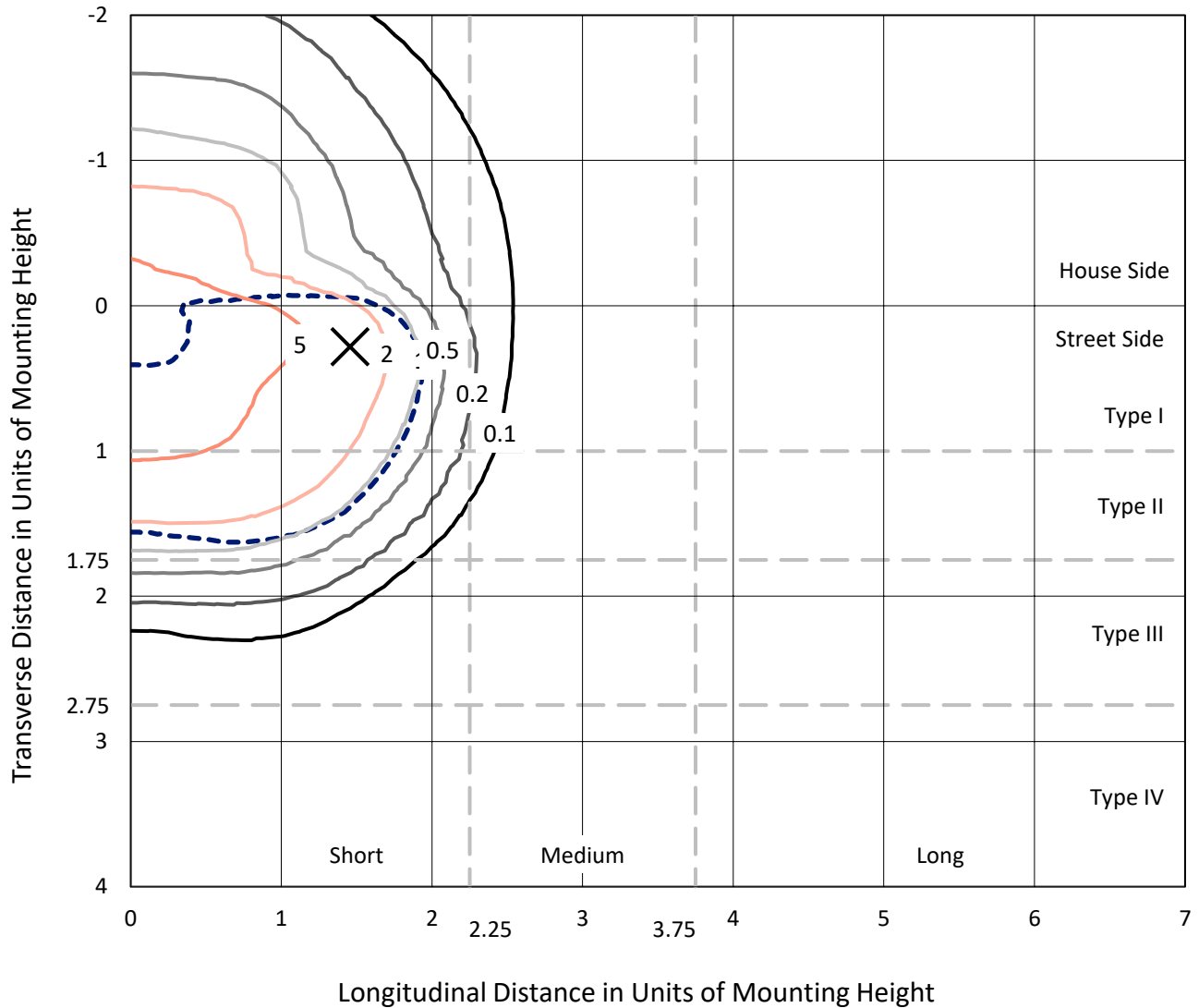
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

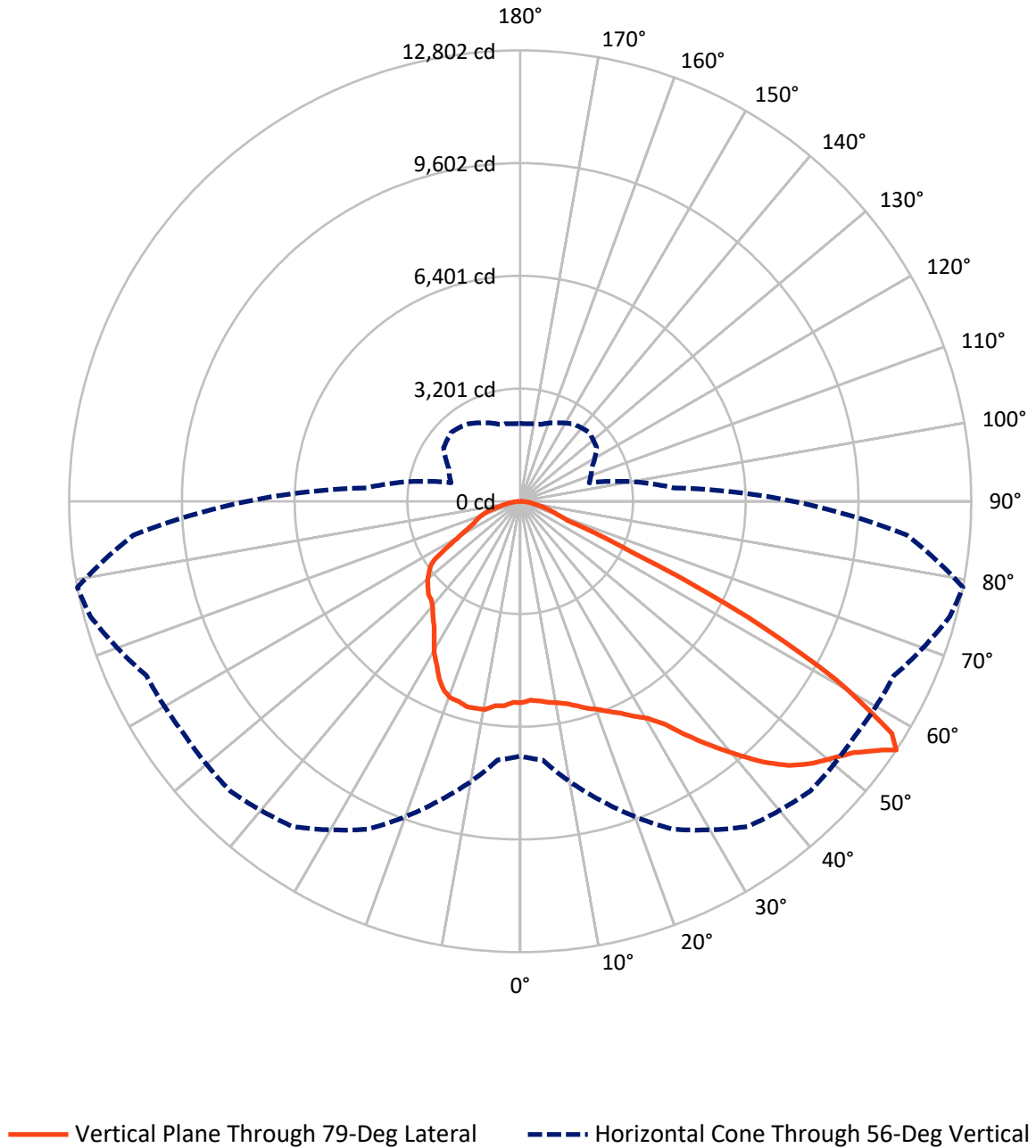
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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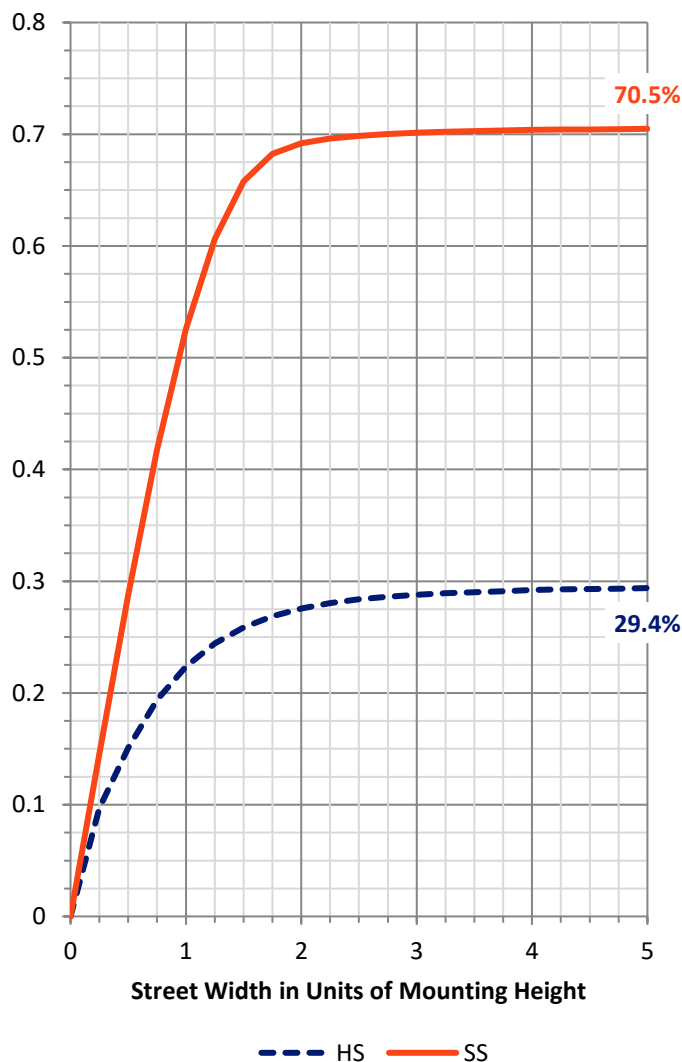
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6598.1 | 0.0 | 6598.1 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 15743.9 | 0.0 | 15743.9 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 22342.0 | 0.0 | 22342.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 519.7 | 2.3 |
| 10°-20° | 1422.4 | 6.4 |
| 20°-30° | 2433.4 | 10.9 |
| 30°-40° | 3729.5 | 16.7 |
| 40°-50° | 5040.4 | 22.6 |
| 50°-60° | 5789.0 | 25.9 |
| 60°-70° | 2638.8 | 11.8 |
| 70°-80° | 650.6 | 2.9 |
| 80°-90° | 118.2 | 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° | 22342.0 | 100.0 |
| 0°-180° | 22342.0 | 100.0 |

Coefficient of Utilization

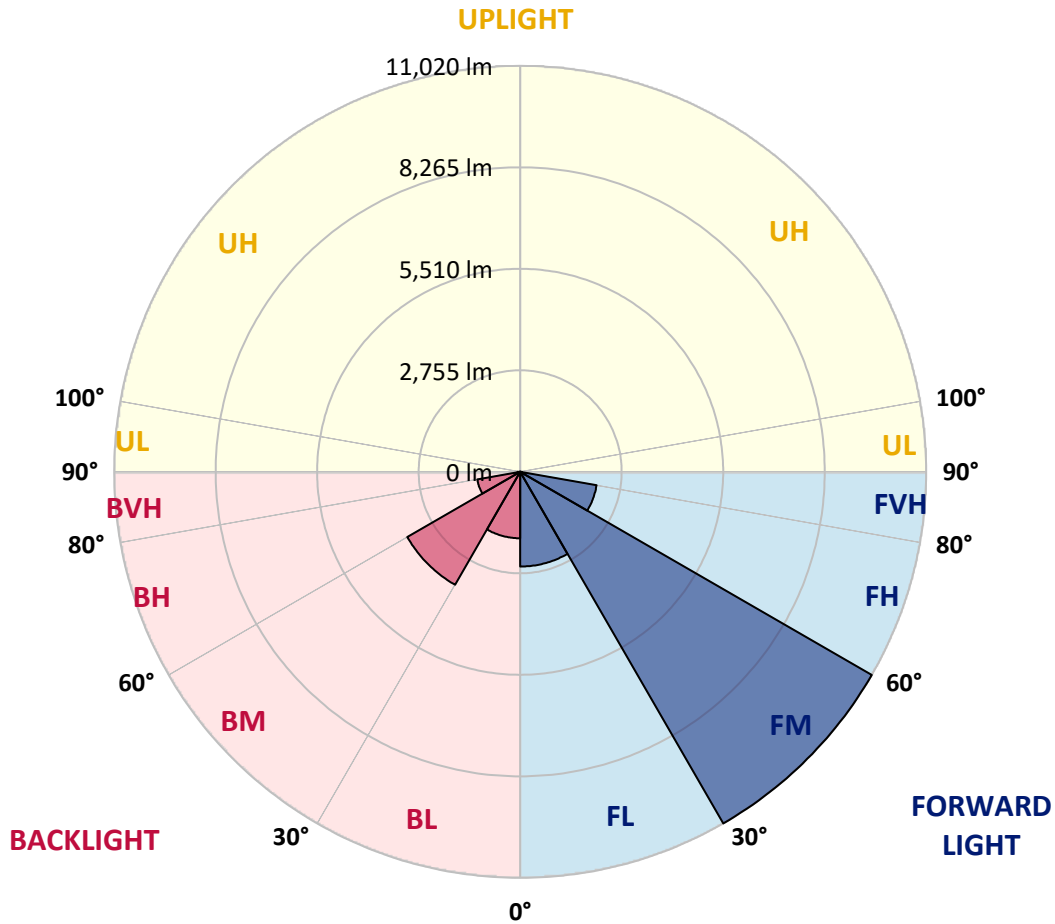


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2570.6 | 11.5 | | | |
| FM (30°-60°) | 11019.7 | 49.3 | | | |
| FH (60°-80°) | 2106.3 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 47.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1804.9 | 8.1 | B3/2500 | | |
| BM (30°-60°) | 3539.1 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 1183.1 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 71.0 | 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° | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 |
| 2.5° | 5438.1 | 5424.2 | 5457.6 | 5482.7 | 5513.3 | 5552.2 | 5571.7 | 5582.8 | 5680.3 | 5655.2 | 5730.3 |
| 5° | 5321.2 | 5285.1 | 5310.1 | 5329.6 | 5382.5 | 5429.8 | 5482.7 | 5566.1 | 5655.2 | 5694.2 | 5786.0 |
| 7.5° | 5218.3 | 5198.8 | 5193.2 | 5207.1 | 5279.5 | 5340.7 | 5432.6 | 5555.0 | 5699.7 | 5763.7 | 5816.6 |
| 10° | 5048.5 | 5020.7 | 5062.4 | 5154.3 | 5173.7 | 5301.8 | 5407.5 | 5582.8 | 5708.1 | 5819.4 | 5975.3 |
| 12.5° | 4973.4 | 4945.5 | 4953.9 | 5006.7 | 5143.1 | 5265.6 | 5390.8 | 5588.4 | 5852.8 | 5897.3 | 6106.1 |
| 15° | 5093.0 | 5065.2 | 5073.5 | 5059.6 | 5190.4 | 5254.4 | 5452.0 | 5699.7 | 5953.0 | 6028.1 | 6250.8 |
| 17.5° | 5365.8 | 5368.5 | 5332.4 | 5301.8 | 5271.1 | 5407.5 | 5543.9 | 5766.5 | 5992.0 | 6181.2 | 6348.2 |
| 20° | 5886.2 | 5794.4 | 5722.0 | 5549.4 | 5502.1 | 5560.6 | 5733.1 | 5947.4 | 6150.6 | 6306.4 | 6495.7 |
| 22.5° | 6287.0 | 6295.3 | 6192.3 | 5908.5 | 5805.5 | 5830.5 | 5978.0 | 6153.4 | 6376.0 | 6487.3 | 6704.4 |
| 25° | 6868.6 | 6810.2 | 6698.9 | 6473.4 | 6242.4 | 6261.9 | 6370.5 | 6529.1 | 6590.3 | 6668.2 | 6904.8 |
| 27.5° | 7400.2 | 7416.9 | 7197.0 | 6985.5 | 6698.9 | 6643.2 | 6838.0 | 6865.8 | 6762.9 | 6910.4 | 6991.1 |
| 30° | 7940.1 | 7926.2 | 7781.5 | 7533.8 | 7252.7 | 7263.8 | 7350.1 | 7213.7 | 7071.8 | 7152.5 | 7208.2 |
| 32.5° | 8499.5 | 8340.9 | 8335.3 | 8112.7 | 7898.4 | 7795.4 | 7689.6 | 7756.4 | 7536.6 | 7553.3 | 7500.4 |
| 35° | 8947.6 | 8969.8 | 8841.8 | 8683.2 | 8577.4 | 8396.5 | 8107.1 | 8226.8 | 8185.0 | 8165.5 | 7937.3 |
| 37.5° | 9273.2 | 9186.9 | 9250.9 | 9198.1 | 9097.9 | 8872.4 | 8571.9 | 8686.0 | 8705.5 | 8800.1 | 8535.7 |
| 40° | 9540.4 | 9504.2 | 9674.0 | 9701.8 | 9632.2 | 9145.2 | 8605.3 | 8944.8 | 9237.0 | 9443.0 | 9128.5 |
| 42.5° | 9668.4 | 9746.3 | 9924.4 | 10138.7 | 9982.9 | 9462.5 | 8777.8 | 9142.4 | 9793.6 | 10119.3 | 9690.7 |
| 45° | 9840.9 | 9740.8 | 10005.1 | 10397.6 | 10400.3 | 9729.6 | 8944.8 | 9409.6 | 10227.8 | 10700.9 | 10074.7 |
| 47.5° | 9665.6 | 9715.7 | 9988.5 | 10486.6 | 10614.6 | 10010.7 | 9395.7 | 9788.1 | 10706.5 | 11126.7 | 10431.0 |
| 50° | 9273.2 | 9373.4 | 9871.6 | 10389.2 | 10776.1 | 10308.5 | 9913.3 | 10197.2 | 11149.0 | 11469.0 | 10489.4 |
| 52.5° | 8864.1 | 8919.8 | 9699.0 | 10464.4 | 10848.4 | 10692.6 | 10606.3 | 10762.1 | 11688.9 | 11855.9 | 10561.8 |
| 55° | 7750.9 | 8015.3 | 9128.5 | 10431.0 | 11201.9 | 11385.6 | 11318.8 | 11547.0 | 12301.2 | 12468.2 | 10957.0 |
| 56° | 7236.0 | 7375.1 | 8786.2 | 10275.1 | 11271.4 | 11638.8 | 11605.4 | 11708.4 | 12626.8 | 12802.1 | 11018.2 |
| 57.5° | 6284.2 | 6295.3 | 7492.0 | 9584.9 | 11009.8 | 11714.0 | 11680.6 | 11761.3 | 12562.8 | 12443.1 | 10481.1 |
| 60° | 3932.5 | 4105.0 | 5098.6 | 7372.4 | 9362.3 | 10867.9 | 11057.2 | 10408.7 | 10592.4 | 10339.1 | 8154.4 |
| 62.5° | 2037.2 | 2012.2 | 2671.8 | 4311.0 | 6214.6 | 7781.5 | 7956.8 | 7926.2 | 7642.3 | 7272.2 | 5326.8 |
| 65° | 1015.8 | 1021.4 | 1397.1 | 2134.6 | 3183.8 | 4074.4 | 4564.2 | 4617.1 | 3862.9 | 3554.0 | 2527.0 |
| 67.5° | 737.5 | 765.3 | 1004.7 | 1305.3 | 1500.1 | 1678.2 | 2056.7 | 2017.7 | 1527.9 | 1452.8 | 1347.0 |
| 70° | 573.3 | 598.4 | 815.4 | 996.3 | 904.5 | 904.5 | 985.2 | 1018.6 | 1088.2 | 1118.8 | 1155.0 |
| 72.5° | 417.5 | 436.9 | 623.4 | 687.4 | 592.8 | 637.3 | 737.5 | 815.4 | 887.8 | 898.9 | 940.7 |
| 75° | 286.7 | 303.4 | 409.1 | 378.5 | 356.2 | 439.7 | 539.9 | 612.3 | 665.2 | 693.0 | 718.0 |
| 77.5° | 186.5 | 192.0 | 233.8 | 197.6 | 228.2 | 283.9 | 350.7 | 411.9 | 464.8 | 487.0 | 492.6 |
| 80° | 83.5 | 91.8 | 100.2 | 125.2 | 158.6 | 203.2 | 250.5 | 300.6 | 334.0 | 342.3 | 359.0 |
| 82.5° | 47.3 | 47.3 | 61.2 | 89.1 | 116.9 | 147.5 | 180.9 | 217.1 | 256.0 | 264.4 | 261.6 |
| 85° | 25.0 | 25.0 | 36.2 | 52.9 | 72.4 | 86.3 | 83.5 | 86.3 | 91.8 | 105.8 | 103.0 |
| 87.5° | 8.3 | 8.3 | 11.1 | 11.1 | 13.9 | 16.7 | 13.9 | 19.5 | 25.0 | 25.0 | 25.0 |
| 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° | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 | 5716.4 |
| 2.5° | 5708.1 | 5733.1 | 5699.7 | 5772.1 | 5772.1 | 5758.2 | 5688.6 | 5710.9 | 5727.6 | 5727.6 | 5741.5 |
| 5° | 5816.6 | 5808.3 | 5830.5 | 5744.3 | 5691.4 | 5671.9 | 5557.8 | 5502.1 | 5454.8 | 5452.0 | 5410.3 |
| 7.5° | 5877.9 | 5855.6 | 5847.2 | 5783.2 | 5549.4 | 5407.5 | 5162.6 | 5020.7 | 4990.1 | 4881.5 | 4923.3 |
| 10° | 5975.3 | 6017.0 | 5975.3 | 5627.4 | 5301.8 | 4976.1 | 4736.8 | 4516.9 | 4430.7 | 4361.1 | 4319.3 |
| 12.5° | 6175.6 | 6156.2 | 5914.0 | 5443.7 | 4987.3 | 4600.4 | 4244.2 | 4013.2 | 3926.9 | 3865.7 | 3860.1 |
| 15° | 6345.4 | 6248.0 | 5877.9 | 5154.3 | 4497.4 | 4085.6 | 3793.3 | 3629.1 | 3590.2 | 3595.7 | 3620.8 |
| 17.5° | 6403.9 | 6337.1 | 5688.6 | 4853.7 | 4132.9 | 3648.6 | 3512.2 | 3487.2 | 3523.4 | 3565.1 | 3576.2 |
| 20° | 6495.7 | 6389.9 | 5610.7 | 4444.6 | 3682.0 | 3375.9 | 3367.5 | 3456.6 | 3523.4 | 3584.6 | 3592.9 |
| 22.5° | 6687.7 | 6420.6 | 5357.4 | 4057.7 | 3373.1 | 3295.2 | 3375.9 | 3451.0 | 3554.0 | 3604.1 | 3559.6 |
| 25° | 6743.4 | 6353.8 | 5001.2 | 3592.9 | 3178.3 | 3245.1 | 3331.3 | 3434.3 | 3506.7 | 3534.5 | 3554.0 |
| 27.5° | 6790.7 | 6250.8 | 4519.7 | 3284.0 | 3117.0 | 3242.3 | 3331.3 | 3417.6 | 3456.6 | 3481.6 | 3503.9 |
| 30° | 6924.3 | 6220.2 | 4102.3 | 3078.1 | 3078.1 | 3186.6 | 3300.7 | 3323.0 | 3375.9 | 3406.5 | 3445.4 |
| 32.5° | 6991.1 | 6008.7 | 3673.7 | 2947.3 | 3039.1 | 3214.4 | 3222.8 | 3264.5 | 3267.3 | 3292.4 | 3250.6 |
| 35° | 7166.4 | 5858.4 | 3275.7 | 2852.7 | 3055.8 | 3186.6 | 3228.4 | 3203.3 | 3066.9 | 3000.2 | 3014.1 |
| 37.5° | 7294.4 | 5783.2 | 2989.0 | 2841.5 | 3058.6 | 3217.2 | 3239.5 | 3050.2 | 2908.3 | 2797.0 | 2824.8 |
| 40° | 7639.5 | 5596.8 | 2771.9 | 2822.0 | 3083.6 | 3250.6 | 3189.4 | 2983.5 | 2727.4 | 2613.3 | 2593.8 |
| 42.5° | 7903.9 | 5463.2 | 2635.6 | 2799.8 | 3103.1 | 3297.9 | 3164.4 | 2849.9 | 2588.3 | 2482.5 | 2510.3 |
| 45° | 8210.1 | 5432.6 | 2563.2 | 2805.3 | 3136.5 | 3323.0 | 3133.7 | 2746.9 | 2468.6 | 2426.8 | 2418.5 |
| 47.5° | 8318.6 | 5212.7 | 2485.3 | 2758.0 | 3128.2 | 3314.6 | 3030.8 | 2669.0 | 2424.1 | 2429.6 | 2451.9 |
| 50° | 8137.7 | 4987.3 | 2426.8 | 2660.6 | 3072.5 | 3239.5 | 2869.3 | 2566.0 | 2399.0 | 2468.6 | 2507.5 |
| 52.5° | 7906.7 | 4756.3 | 2307.2 | 2529.8 | 2958.4 | 3122.6 | 2794.2 | 2560.4 | 2374.0 | 2351.7 | 2360.0 |
| 55° | 7976.3 | 4567.0 | 2140.2 | 2351.7 | 2774.7 | 2905.5 | 2710.7 | 2507.5 | 2312.7 | 2229.2 | 2257.1 |
| 56° | 7750.9 | 4372.2 | 2031.6 | 2240.4 | 2649.5 | 2766.4 | 2669.0 | 2460.2 | 2262.6 | 2207.0 | 2207.0 |
| 57.5° | 7113.5 | 3718.2 | 1889.7 | 2062.3 | 2385.1 | 2524.2 | 2588.3 | 2432.4 | 2207.0 | 2109.6 | 2112.4 |
| 60° | 5246.1 | 2643.9 | 1694.9 | 1817.3 | 1976.0 | 2087.3 | 2385.1 | 2354.5 | 2067.8 | 2001.0 | 1976.0 |
| 62.5° | 3233.9 | 1931.5 | 1555.7 | 1603.1 | 1683.8 | 1775.6 | 2081.7 | 2131.8 | 1920.3 | 1848.0 | 1831.3 |
| 65° | 1811.8 | 1477.8 | 1450.0 | 1469.5 | 1508.4 | 1555.7 | 1728.3 | 1839.6 | 1694.9 | 1583.6 | 1578.0 |
| 67.5° | 1324.7 | 1322.0 | 1344.2 | 1360.9 | 1377.6 | 1377.6 | 1419.4 | 1463.9 | 1444.4 | 1355.4 | 1347.0 |
| 70° | 1177.2 | 1185.6 | 1202.3 | 1205.1 | 1210.6 | 1191.2 | 1157.8 | 1143.8 | 1166.1 | 1110.4 | 1099.3 |
| 72.5° | 971.3 | 999.1 | 1018.6 | 1021.4 | 990.8 | 965.7 | 921.2 | 873.9 | 857.2 | 846.1 | 843.3 |
| 75° | 745.9 | 765.3 | 773.7 | 770.9 | 759.8 | 723.6 | 670.7 | 623.4 | 592.8 | 559.4 | 576.1 |
| 77.5° | 503.7 | 531.6 | 545.5 | 545.5 | 528.8 | 473.1 | 448.1 | 411.9 | 381.3 | 345.1 | 350.7 |
| 80° | 353.5 | 372.9 | 395.2 | 392.4 | 364.6 | 336.8 | 300.6 | 267.2 | 242.1 | 214.3 | 211.5 |
| 82.5° | 264.4 | 275.5 | 286.7 | 281.1 | 261.6 | 233.8 | 208.7 | 178.1 | 150.3 | 130.8 | 130.8 |
| 85° | 94.6 | 103.0 | 125.2 | 130.8 | 141.9 | 141.9 | 119.7 | 100.2 | 80.7 | 66.8 | 66.8 |
| 87.5° | 27.8 | 27.8 | 30.6 | 30.6 | 27.8 | 30.6 | 25.0 | 27.8 | 30.6 | 19.5 | 19.5 |
| 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)