

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: P522827

Luminaire Tested: **GALN-SA6D-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522827
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33747 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

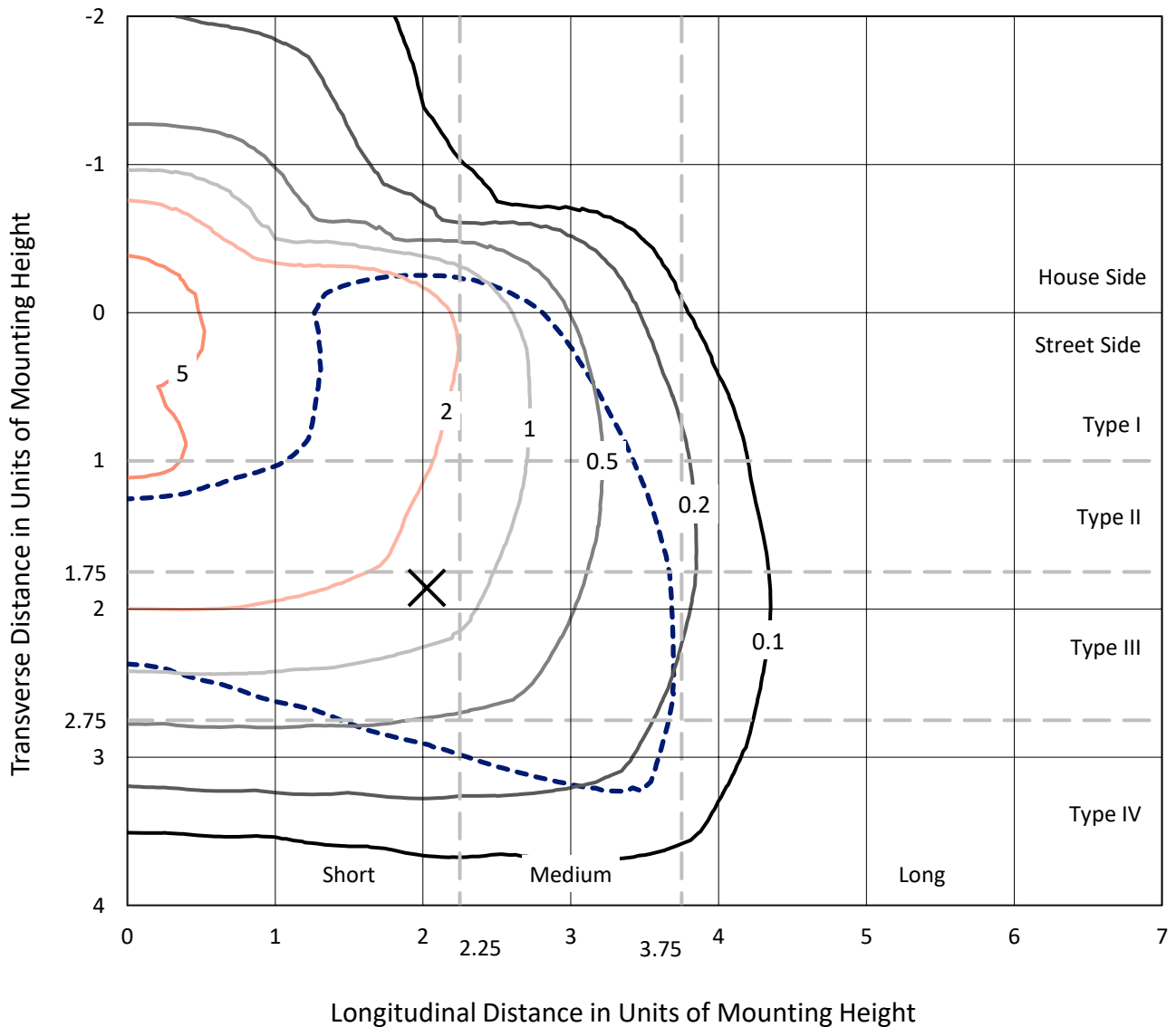
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

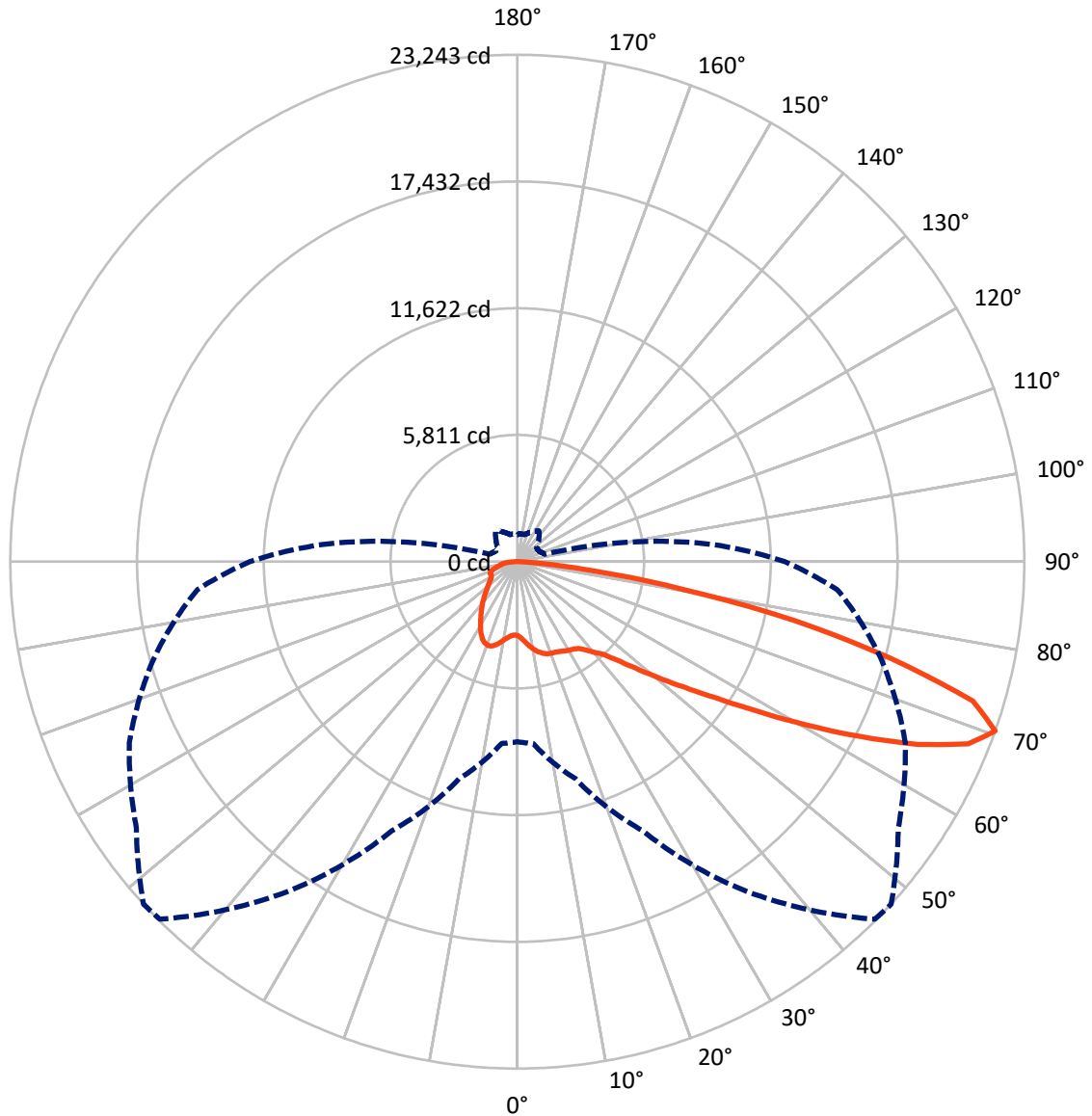
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7641.0 | 0.0 | 7641.0 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 26106.0 | 0.0 | 26106.0 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 33747.0 | 0.0 | 33747.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 349.2 | 1.0 |
| 10°-20° | 1167.4 | 3.5 |
| 20°-30° | 1941.4 | 5.8 |
| 30°-40° | 2751.7 | 8.2 |
| 40°-50° | 4062.1 | 12.0 |
| 50°-60° | 7035.7 | 20.8 |
| 60°-70° | 9938.2 | 29.4 |
| 70°-80° | 5713.0 | 16.9 |
| 80°-90° | 788.3 | 2.3 |
| 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° | 33747.0 | 100.0 |
| 0°-180° | 33747.0 | 100.0 |



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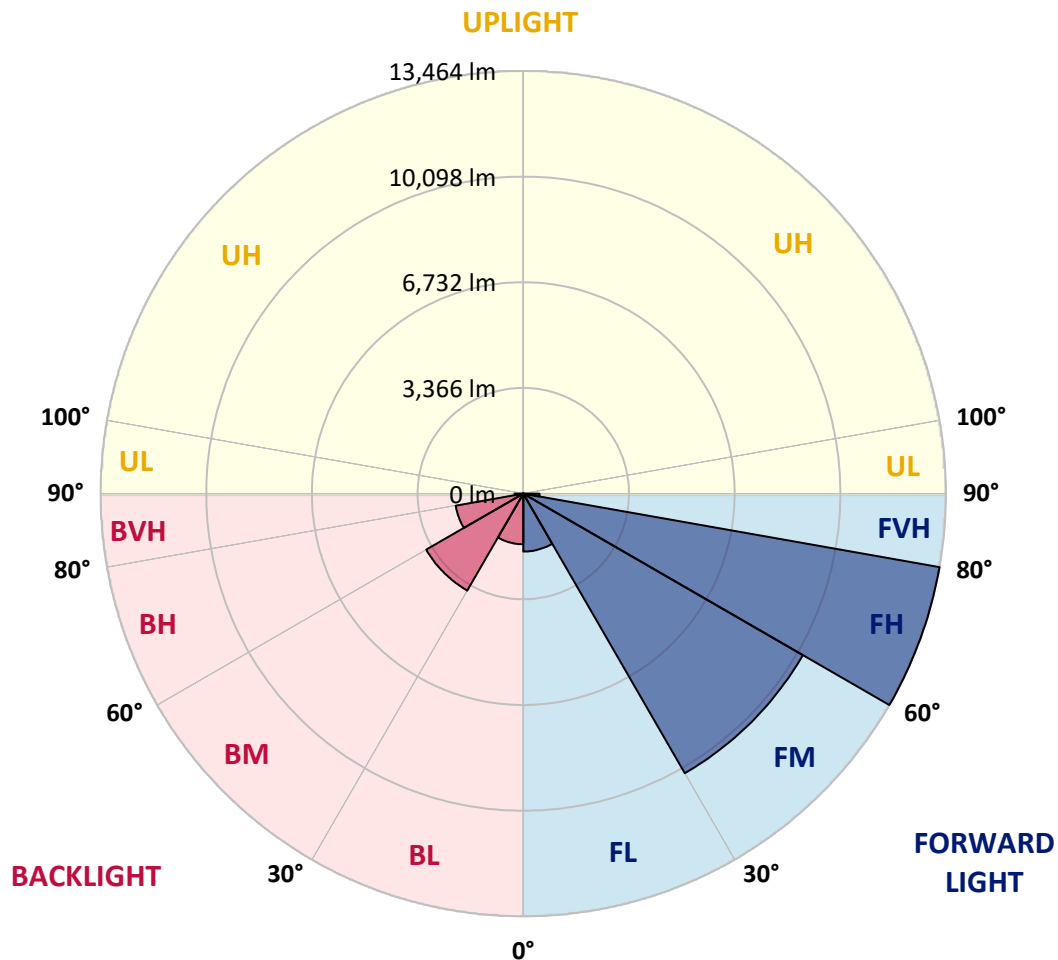
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1845.4 | 5.5 | | | |
| FM | (30°-60°) | 10282.1 | 30.5 | | | |
| FH | (60°-80°) | 13463.6 | 39.9 | | | G5 |
| FVH | (80°-90°) | 514.9 | 1.5 | | | G4/750 |
| BL | (0°-30°) | 1612.7 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 3567.4 | 10.6 | B3/5000 | | |
| BH | (60°-80°) | 2187.5 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 273.3 | 0.8 | | | G3/500 |
| 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° | 35° | 45° | 47.5° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 |
| 2.5° | 3606.3 | 3593.7 | 3591.9 | 3564.8 | 3550.3 | 3523.2 | 3512.4 | 3487.1 | 3456.4 | 3425.7 | 3396.8 |
| 5° | 3889.8 | 3889.8 | 3877.2 | 3839.3 | 3779.7 | 3718.3 | 3691.2 | 3642.4 | 3555.7 | 3485.3 | 3425.7 |
| 7.5° | 4180.6 | 4184.2 | 4158.9 | 4102.9 | 4018.0 | 3918.7 | 3893.4 | 3821.2 | 3698.4 | 3595.5 | 3507.0 |
| 10° | 4431.6 | 4431.6 | 4397.3 | 4321.4 | 4214.9 | 4106.5 | 4081.2 | 4000.0 | 3862.7 | 3734.5 | 3618.9 |
| 12.5° | 4623.0 | 4623.0 | 4577.9 | 4478.5 | 4363.0 | 4265.4 | 4236.5 | 4158.9 | 4030.7 | 3888.0 | 3741.7 |
| 15° | 4747.6 | 4738.6 | 4688.0 | 4576.0 | 4464.1 | 4379.2 | 4359.3 | 4294.3 | 4177.0 | 4032.5 | 3868.2 |
| 17.5° | 4753.0 | 4749.4 | 4700.7 | 4606.7 | 4509.2 | 4451.4 | 4438.8 | 4395.5 | 4303.4 | 4166.1 | 3992.8 |
| 20° | 4648.3 | 4655.5 | 4623.0 | 4556.2 | 4509.2 | 4483.9 | 4478.5 | 4464.1 | 4399.1 | 4270.9 | 4097.5 |
| 22.5° | 4536.3 | 4549.0 | 4518.3 | 4482.1 | 4478.5 | 4503.8 | 4507.4 | 4511.0 | 4469.5 | 4344.9 | 4186.0 |
| 25° | 4509.2 | 4518.3 | 4487.6 | 4455.1 | 4474.9 | 4541.7 | 4556.2 | 4570.6 | 4538.1 | 4433.4 | 4290.7 |
| 27.5° | 4646.5 | 4639.3 | 4579.7 | 4509.2 | 4521.9 | 4612.2 | 4632.0 | 4648.3 | 4632.0 | 4541.7 | 4420.7 |
| 30° | 5034.7 | 5011.3 | 4892.1 | 4686.2 | 4621.2 | 4684.4 | 4704.3 | 4749.4 | 4749.4 | 4682.6 | 4561.6 |
| 32.5° | 5684.8 | 5639.7 | 5421.2 | 5016.7 | 4790.9 | 4753.0 | 4772.9 | 4846.9 | 4884.9 | 4832.5 | 4700.7 |
| 35° | 6474.0 | 6427.1 | 6114.6 | 5571.1 | 5101.6 | 4890.3 | 4884.9 | 4967.9 | 5069.0 | 4951.7 | 4780.1 |
| 37.5° | 7266.8 | 7218.0 | 6842.4 | 6232.0 | 5554.8 | 5179.2 | 5146.7 | 5175.6 | 5218.9 | 5004.0 | 4890.3 |
| 40° | 8059.6 | 8001.8 | 7673.1 | 6970.6 | 6109.2 | 5562.0 | 5477.2 | 5347.2 | 5329.1 | 5175.6 | 5103.4 |
| 42.5° | 8845.1 | 8792.7 | 8626.6 | 7799.5 | 6773.8 | 5935.9 | 5805.8 | 5581.9 | 5650.5 | 5558.4 | 5495.2 |
| 45° | 9637.9 | 9641.5 | 9464.5 | 8729.5 | 7575.6 | 6625.7 | 6450.5 | 6100.2 | 6262.7 | 6228.4 | 6264.5 |
| 47.5° | 10340.4 | 10331.3 | 10268.1 | 9632.5 | 8570.6 | 7514.2 | 7288.4 | 6882.1 | 7160.2 | 7286.6 | 7562.9 |
| 50° | 11021.2 | 11015.7 | 11019.4 | 10656.4 | 9726.4 | 8570.6 | 8321.4 | 7895.2 | 8521.9 | 8960.7 | 9455.5 |
| 52.5° | 11996.3 | 12027.0 | 11808.5 | 11712.8 | 11131.3 | 9818.5 | 9544.0 | 9103.3 | 10130.9 | 10822.5 | 11788.7 |
| 55° | 12975.1 | 12949.8 | 12778.3 | 12877.6 | 12601.3 | 11295.7 | 11008.5 | 10658.2 | 11922.3 | 12678.9 | 14130.9 |
| 57.5° | 13551.2 | 13560.2 | 13735.4 | 14221.1 | 14416.2 | 13137.6 | 12877.6 | 12606.7 | 13935.8 | 14472.2 | 16214.8 |
| 60° | 14069.5 | 14111.0 | 14614.8 | 15532.2 | 16061.3 | 15400.4 | 15169.2 | 14905.6 | 15783.2 | 15996.3 | 18024.3 |
| 62.5° | 14232.0 | 14360.2 | 15239.6 | 16612.1 | 17664.9 | 17953.9 | 17666.7 | 17085.2 | 17542.1 | 17459.1 | 19250.5 |
| 65° | 13421.1 | 13596.3 | 15172.8 | 17016.6 | 19097.0 | 20377.3 | 20194.9 | 19115.0 | 19041.0 | 18540.8 | 19450.9 |
| 67.5° | 11286.6 | 11461.8 | 13486.2 | 16167.9 | 19689.3 | 22475.7 | 22293.3 | 20595.8 | 19951.1 | 18641.9 | 17934.0 |
| 70° | 8258.2 | 8368.4 | 10304.2 | 13612.6 | 18499.2 | 23180.0 | 23243.2 | 21318.2 | 19626.1 | 17267.6 | 14725.0 |
| 72.5° | 4758.4 | 5002.2 | 6358.4 | 9576.5 | 15113.2 | 21399.4 | 21838.3 | 19815.7 | 17571.0 | 14405.3 | 10295.2 |
| 75° | 2046.0 | 2051.5 | 2939.9 | 5282.1 | 10235.6 | 17200.8 | 17625.2 | 16426.1 | 13798.6 | 9961.1 | 5497.0 |
| 77.5° | 973.4 | 991.4 | 1293.0 | 2358.5 | 5634.3 | 11884.4 | 13029.3 | 11604.5 | 8825.2 | 4785.5 | 2076.7 |
| 80° | 632.1 | 644.7 | 791.0 | 1170.2 | 2763.0 | 6891.2 | 7689.4 | 6694.3 | 3893.4 | 1710.1 | 895.7 |
| 82.5° | 382.8 | 386.5 | 529.1 | 715.1 | 1520.5 | 3120.5 | 3678.5 | 2905.6 | 1661.4 | 1023.9 | 527.3 |
| 85° | 233.0 | 234.8 | 321.4 | 442.4 | 922.8 | 1078.1 | 1107.0 | 1098.0 | 975.2 | 670.0 | 281.7 |
| 87.5° | 112.0 | 115.6 | 166.1 | 209.5 | 363.0 | 334.1 | 316.0 | 366.6 | 460.5 | 361.2 | 121.0 |
| 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° | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 | 3387.8 |
| 2.5° | 3384.2 | 3378.8 | 3366.1 | 3360.7 | 3357.1 | 3358.9 | 3357.1 | 3357.1 | 3358.9 | 3358.9 | 3358.9 |
| 5° | 3400.4 | 3391.4 | 3371.5 | 3371.5 | 3382.4 | 3407.7 | 3431.1 | 3449.2 | 3469.1 | 3467.3 | 3467.3 |
| 7.5° | 3470.9 | 3454.6 | 3431.1 | 3438.4 | 3465.4 | 3505.2 | 3546.7 | 3586.4 | 3626.2 | 3629.8 | 3628.0 |
| 10° | 3573.8 | 3557.5 | 3532.3 | 3541.3 | 3584.6 | 3644.2 | 3696.6 | 3754.4 | 3797.7 | 3810.4 | 3806.8 |
| 12.5° | 3691.2 | 3658.7 | 3637.0 | 3662.3 | 3730.9 | 3810.4 | 3860.9 | 3904.3 | 3935.0 | 3953.0 | 3945.8 |
| 15° | 3810.4 | 3779.7 | 3754.4 | 3806.8 | 3889.8 | 3963.9 | 3989.1 | 3996.4 | 4001.8 | 4019.8 | 4016.2 |
| 17.5° | 3925.9 | 3884.4 | 3875.4 | 3944.0 | 4023.5 | 4056.0 | 4041.5 | 4010.8 | 3987.3 | 4001.8 | 4000.0 |
| 20° | 4028.9 | 3996.4 | 3992.8 | 4061.4 | 4092.1 | 4061.4 | 4000.0 | 3945.8 | 3904.3 | 3907.9 | 3906.1 |
| 22.5° | 4126.4 | 4101.1 | 4104.7 | 4133.6 | 4084.9 | 3980.1 | 3879.0 | 3804.9 | 3759.8 | 3768.8 | 3774.2 |
| 25° | 4234.7 | 4209.5 | 4218.5 | 4171.5 | 4010.8 | 3828.4 | 3682.1 | 3618.9 | 3600.9 | 3618.9 | 3631.6 |
| 27.5° | 4375.6 | 4359.3 | 4353.9 | 4173.3 | 3879.0 | 3604.5 | 3438.4 | 3414.9 | 3431.1 | 3470.9 | 3490.7 |
| 30° | 4527.3 | 4527.3 | 4498.4 | 4142.6 | 3698.4 | 3335.4 | 3191.0 | 3194.6 | 3250.5 | 3306.5 | 3326.4 |
| 32.5° | 4673.6 | 4704.3 | 4614.0 | 4059.6 | 3465.4 | 3073.6 | 2963.4 | 2967.0 | 3015.8 | 3084.4 | 3102.5 |
| 35° | 4794.6 | 4883.0 | 4713.3 | 3907.9 | 3191.0 | 2853.3 | 2770.2 | 2721.4 | 2723.2 | 2775.6 | 2790.1 |
| 37.5° | 4960.7 | 5125.0 | 4771.1 | 3682.1 | 2898.4 | 2665.4 | 2571.5 | 2486.7 | 2430.7 | 2409.0 | 2409.0 |
| 40° | 5249.6 | 5491.6 | 4785.5 | 3348.1 | 2622.1 | 2486.7 | 2353.0 | 2251.9 | 2143.6 | 2046.0 | 2028.0 |
| 42.5° | 5739.0 | 6044.2 | 4756.6 | 2963.4 | 2372.9 | 2289.8 | 2159.8 | 2035.2 | 1885.3 | 1748.1 | 1737.2 |
| 45° | 6605.8 | 6762.9 | 4679.0 | 2564.3 | 2150.8 | 2100.2 | 1973.8 | 1838.4 | 1679.4 | 1556.7 | 1547.6 |
| 47.5° | 7994.5 | 7772.4 | 4576.0 | 2210.4 | 1948.5 | 1934.1 | 1836.6 | 1679.4 | 1520.5 | 1435.7 | 1426.6 |
| 50° | 10022.5 | 9361.6 | 4561.6 | 1953.9 | 1786.0 | 1793.2 | 1713.8 | 1569.3 | 1430.2 | 1359.8 | 1349.0 |
| 52.5° | 12464.0 | 11281.2 | 4657.3 | 1773.4 | 1643.3 | 1670.4 | 1630.7 | 1497.1 | 1374.3 | 1314.7 | 1303.8 |
| 55° | 14833.3 | 13007.6 | 4715.1 | 1632.5 | 1509.7 | 1560.3 | 1565.7 | 1453.7 | 1341.8 | 1282.2 | 1274.9 |
| 57.5° | 16756.6 | 14307.8 | 4458.7 | 1504.3 | 1394.1 | 1471.8 | 1511.5 | 1428.4 | 1325.5 | 1280.4 | 1273.1 |
| 60° | 18094.7 | 14921.8 | 3729.1 | 1390.5 | 1309.2 | 1401.3 | 1491.6 | 1430.2 | 1365.2 | 1370.6 | 1374.3 |
| 62.5° | 18520.9 | 14649.1 | 2797.3 | 1305.6 | 1251.5 | 1377.9 | 1524.1 | 1504.3 | 1437.5 | 1479.0 | 1486.2 |
| 65° | 17814.8 | 13522.3 | 2028.0 | 1238.8 | 1200.9 | 1394.1 | 1621.7 | 1558.5 | 1412.2 | 1442.9 | 1442.9 |
| 67.5° | 15450.9 | 11649.6 | 1578.3 | 1177.4 | 1143.1 | 1424.8 | 1719.2 | 1553.0 | 1352.6 | 1388.7 | 1356.2 |
| 70° | 12256.4 | 9011.2 | 1314.7 | 1108.8 | 1081.7 | 1379.7 | 1728.2 | 1497.1 | 1282.2 | 1289.4 | 1228.0 |
| 72.5° | 8133.6 | 5925.0 | 1130.5 | 1043.8 | 987.8 | 1240.6 | 1654.2 | 1424.8 | 1213.5 | 1172.0 | 1110.6 |
| 75° | 3985.5 | 2954.4 | 986.0 | 962.5 | 865.0 | 1079.9 | 1553.0 | 1356.2 | 1139.5 | 1074.5 | 1040.2 |
| 77.5° | 1544.0 | 1256.9 | 841.5 | 859.6 | 753.0 | 951.7 | 1419.4 | 1258.7 | 1042.0 | 953.5 | 926.4 |
| 80° | 749.4 | 713.3 | 689.8 | 716.9 | 619.4 | 810.8 | 1296.6 | 1173.8 | 951.7 | 854.2 | 814.4 |
| 82.5° | 465.9 | 440.6 | 529.1 | 558.0 | 476.7 | 740.4 | 1229.8 | 1101.6 | 837.9 | 707.9 | 675.4 |
| 85° | 236.6 | 252.8 | 353.9 | 381.0 | 341.3 | 588.7 | 1013.1 | 827.1 | 605.0 | 502.0 | 505.6 |
| 87.5° | 90.3 | 121.0 | 186.0 | 200.5 | 182.4 | 310.6 | 558.0 | 482.2 | 388.3 | 263.7 | 243.8 |
| 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)