

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: P455084

Luminaire Tested: **GALN-SA6B-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27984 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

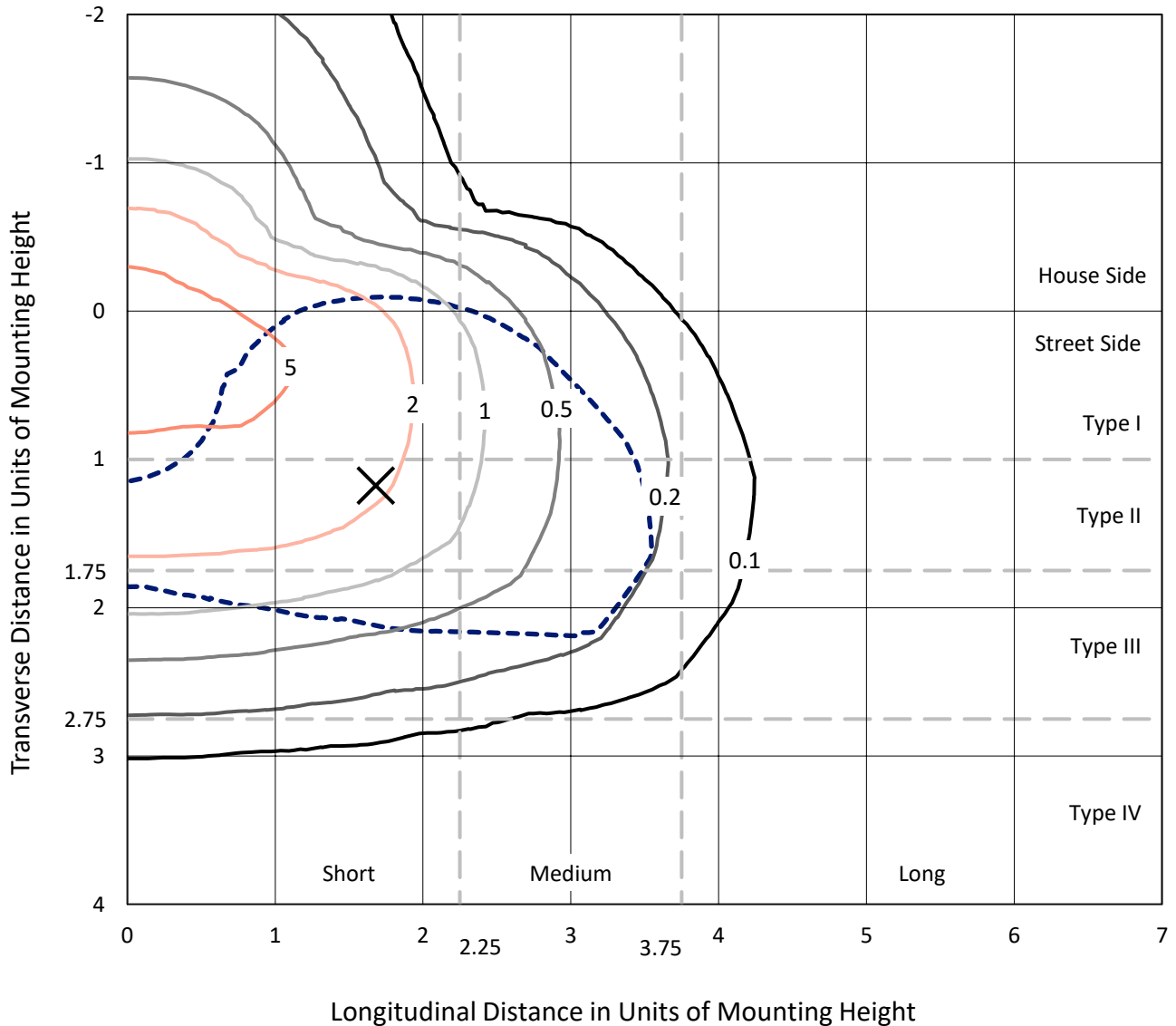
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

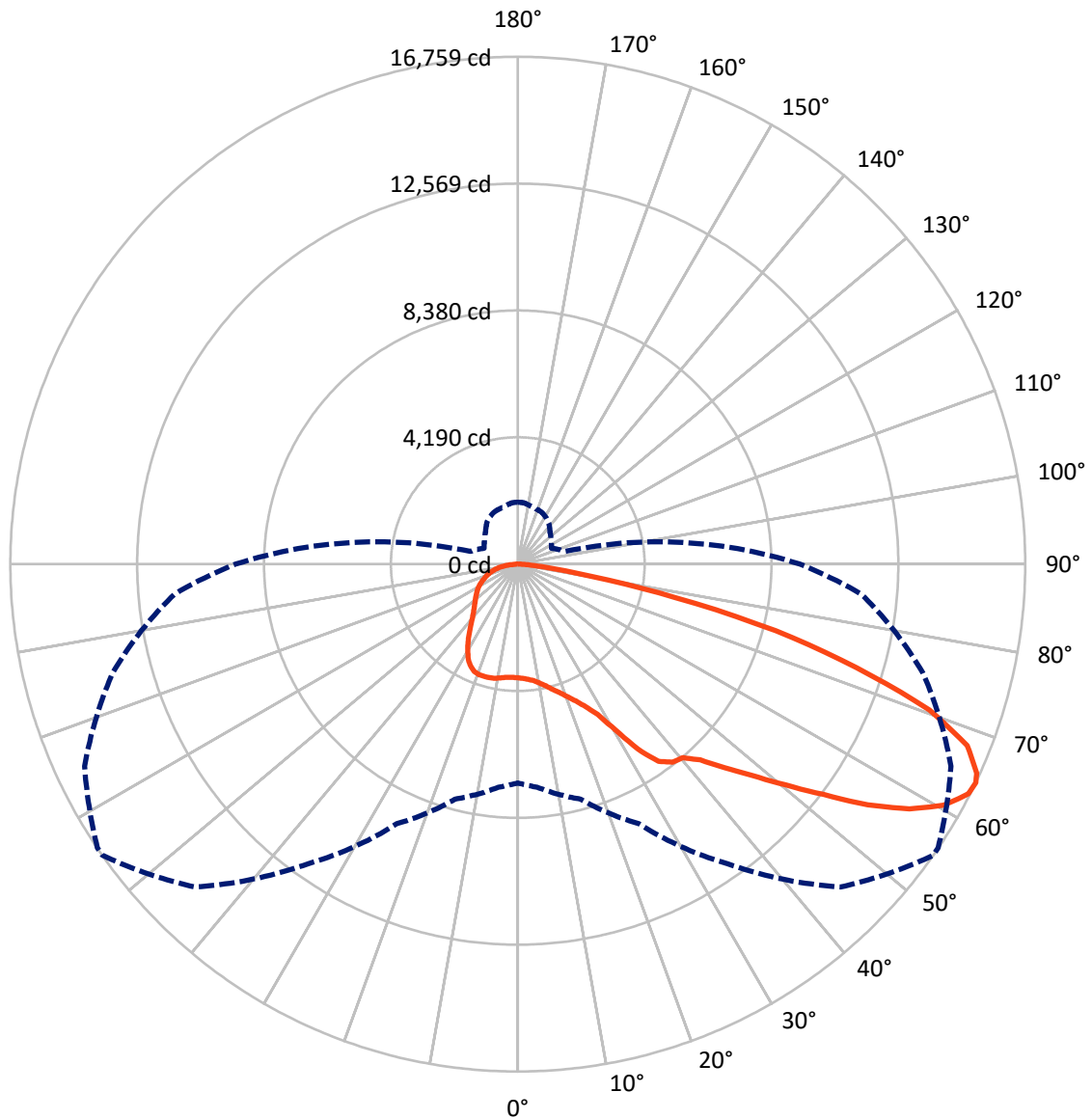
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6797.9 | 0.0 | 6797.9 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 21186.1 | 0.0 | 21186.1 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 27984.0 | 0.0 | 27984.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 365.2 | 1.3 |
| 10°-20° | 1152.4 | 4.1 |
| 20°-30° | 2051.6 | 7.3 |
| 30°-40° | 3156.5 | 11.3 |
| 40°-50° | 4474.6 | 16.0 |
| 50°-60° | 6477.0 | 23.1 |
| 60°-70° | 6703.0 | 24.0 |
| 70°-80° | 3139.0 | 11.2 |
| 80°-90° | 464.7 | 1.7 |
| 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° | 27984.0 | 100.0 |
| 0°-180° | 27984.0 | 100.0 |

Coefficient of Utilization



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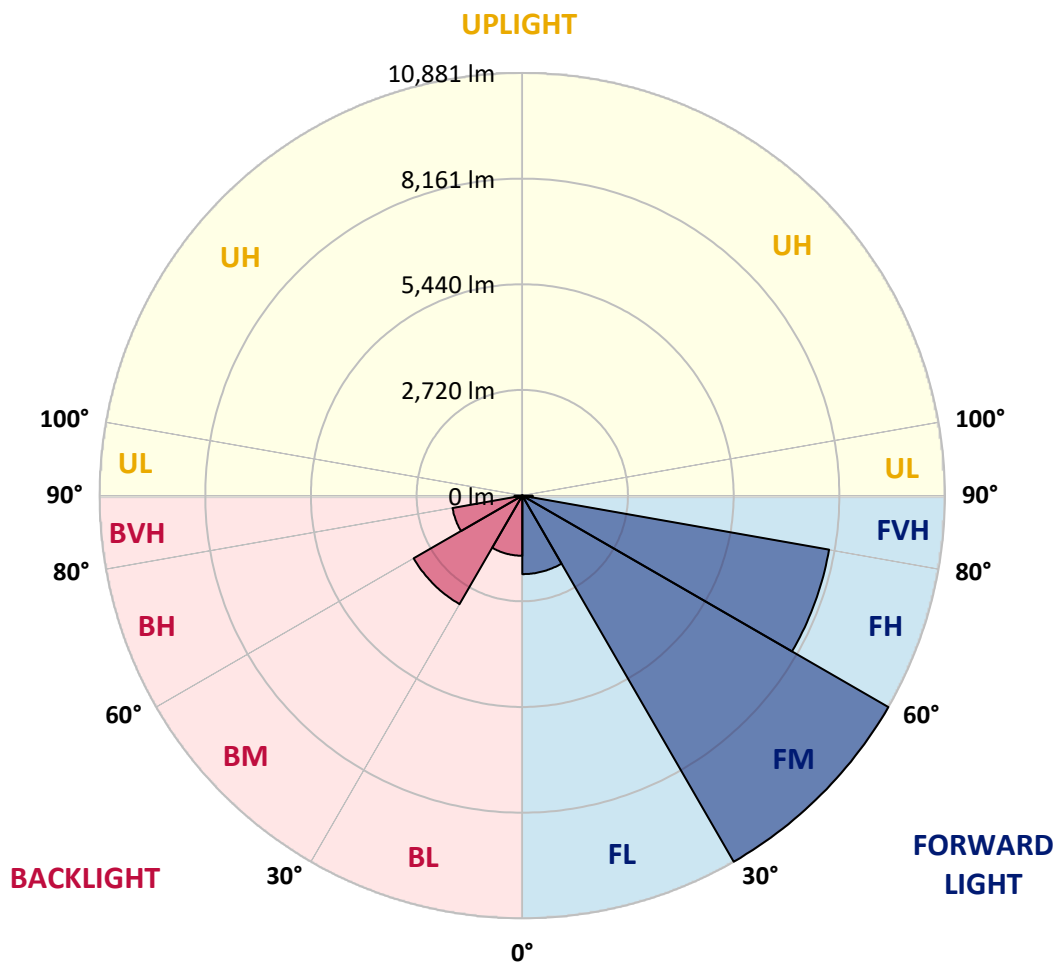
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2020.9 | 7.2 | | | |
| FM | (30°-60°) | 10880.9 | 38.9 | | | |
| FH | (60°-80°) | 8018.2 | 28.7 | | | G4/12000 |
| FVH | (80°-90°) | 266.1 | 1.0 | | | G3/500 |
| BL | (0°-30°) | 1548.3 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 3227.2 | 11.5 | B3/5000 | | |
| BH | (60°-80°) | 1823.7 | 6.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 198.6 | 0.7 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 |
| 2.5° | 3796.7 | 3795.2 | 3799.8 | 3795.2 | 3798.3 | 3787.4 | 3782.7 | 3785.8 | 3781.1 | 3773.3 | 3759.3 |
| 5° | 3843.5 | 3842.0 | 3843.5 | 3837.3 | 3840.4 | 3834.2 | 3823.2 | 3826.4 | 3818.6 | 3801.4 | 3781.1 |
| 7.5° | 3923.1 | 3916.8 | 3916.8 | 3915.3 | 3909.0 | 3899.7 | 3891.9 | 3888.8 | 3881.0 | 3859.1 | 3827.9 |
| 10° | 4026.0 | 4026.0 | 4027.6 | 4015.1 | 4022.9 | 4005.7 | 3997.9 | 3996.4 | 3969.9 | 3941.8 | 3898.1 |
| 12.5° | 4161.7 | 4169.5 | 4164.9 | 4158.6 | 4155.5 | 4149.3 | 4122.7 | 4129.0 | 4099.3 | 4051.0 | 3997.9 |
| 15° | 4330.2 | 4342.7 | 4334.9 | 4331.8 | 4324.0 | 4300.6 | 4289.6 | 4285.0 | 4246.0 | 4175.8 | 4105.6 |
| 17.5° | 4553.3 | 4537.7 | 4531.4 | 4523.6 | 4490.9 | 4473.7 | 4455.0 | 4451.9 | 4417.6 | 4334.9 | 4225.7 |
| 20° | 4748.2 | 4770.1 | 4757.6 | 4749.8 | 4717.0 | 4684.3 | 4670.3 | 4665.6 | 4635.9 | 4545.5 | 4370.8 |
| 22.5° | 4980.7 | 4985.3 | 4990.0 | 4971.3 | 4955.7 | 4930.8 | 4905.8 | 4898.0 | 4887.1 | 4793.5 | 4579.8 |
| 25° | 5228.7 | 5247.4 | 5231.8 | 5213.1 | 5194.4 | 5192.8 | 5216.2 | 5213.1 | 5208.4 | 5117.9 | 4857.4 |
| 27.5° | 5632.7 | 5649.9 | 5654.5 | 5634.3 | 5562.5 | 5568.7 | 5621.8 | 5638.9 | 5710.7 | 5560.9 | 5214.6 |
| 30° | 5860.4 | 5877.6 | 5916.6 | 5993.0 | 6106.9 | 6206.7 | 6334.6 | 6373.6 | 6442.3 | 6159.9 | 5638.9 |
| 32.5° | 6000.8 | 6007.1 | 6077.3 | 6219.2 | 6560.8 | 6933.6 | 7281.5 | 7295.5 | 7339.2 | 6943.0 | 6027.3 |
| 35° | 6222.3 | 6227.0 | 6283.2 | 6439.1 | 6840.0 | 7460.9 | 7999.0 | 8016.2 | 7980.3 | 7186.3 | 6208.3 |
| 37.5° | 6495.3 | 6507.8 | 6543.7 | 6673.1 | 7152.0 | 7902.3 | 8297.0 | 8284.5 | 7966.3 | 7379.7 | 6528.1 |
| 40° | 6893.1 | 6893.1 | 6851.0 | 7025.7 | 7481.1 | 8155.0 | 8401.5 | 8379.6 | 8295.4 | 7939.7 | 7014.7 |
| 42.5° | 7244.0 | 7237.8 | 7337.6 | 7456.2 | 7892.9 | 8545.0 | 8839.8 | 8875.7 | 9014.5 | 8643.2 | 7568.5 |
| 45° | 7701.1 | 7729.2 | 7785.3 | 8000.6 | 8593.3 | 9211.0 | 9591.6 | 9626.0 | 9822.5 | 9471.5 | 8215.8 |
| 47.5° | 8162.8 | 8172.2 | 8348.4 | 8635.4 | 9460.6 | 10114.2 | 10426.2 | 10482.3 | 10661.7 | 10440.2 | 8913.1 |
| 50° | 8490.4 | 8579.3 | 8861.6 | 9314.0 | 10354.4 | 11215.5 | 11458.8 | 11525.9 | 11842.5 | 11494.7 | 9725.8 |
| 52.5° | 8836.7 | 8924.0 | 9268.8 | 9958.2 | 11380.8 | 12341.7 | 12641.2 | 12686.4 | 13015.6 | 12561.6 | 10557.2 |
| 55° | 9133.0 | 9214.2 | 9605.7 | 10529.1 | 12198.2 | 13491.3 | 14034.2 | 13981.1 | 14138.7 | 13383.7 | 11198.3 |
| 57.5° | 9181.4 | 9246.9 | 9739.8 | 10894.1 | 12812.8 | 14477.2 | 15255.5 | 15286.7 | 15104.2 | 13998.3 | 11727.1 |
| 60° | 8807.0 | 8941.2 | 9507.4 | 10855.1 | 13088.9 | 15163.5 | 16166.5 | 16188.3 | 15670.5 | 14313.4 | 11937.7 |
| 62.5° | 8144.1 | 8130.0 | 8814.8 | 10228.1 | 12702.0 | 15319.5 | 16703.1 | 16679.7 | 15892.0 | 14162.1 | 11733.3 |
| 64° | 7228.4 | 7396.9 | 8036.5 | 9457.5 | 12078.1 | 15079.3 | 16759.2 | 16746.8 | 15785.9 | 13847.0 | 11385.5 |
| 65° | 6670.0 | 6660.6 | 7292.4 | 8827.3 | 11457.2 | 14717.4 | 16659.4 | 16642.3 | 15564.4 | 13564.6 | 11115.6 |
| 67.5° | 4815.3 | 4837.2 | 5461.1 | 6812.0 | 9314.0 | 13302.6 | 16009.0 | 15945.0 | 14690.9 | 12628.7 | 10089.2 |
| 70° | 2917.0 | 2929.4 | 3419.2 | 4518.9 | 6685.6 | 10753.7 | 14430.4 | 14433.5 | 13354.1 | 11231.1 | 8587.1 |
| 72.5° | 1536.5 | 1569.2 | 1765.8 | 2566.0 | 4060.3 | 7545.1 | 11706.8 | 11984.5 | 11465.0 | 9585.4 | 6783.9 |
| 75° | 854.8 | 859.5 | 998.3 | 1265.1 | 2071.5 | 4222.6 | 8799.2 | 8878.8 | 9076.9 | 7715.1 | 5016.5 |
| 77.5° | 652.0 | 661.4 | 705.1 | 817.4 | 1127.8 | 1957.6 | 5325.4 | 5724.7 | 6397.0 | 5439.3 | 2862.4 |
| 80° | 528.8 | 538.2 | 575.6 | 642.7 | 750.3 | 928.1 | 2474.0 | 2689.2 | 3423.9 | 2414.7 | 1116.9 |
| 82.5° | 411.8 | 405.6 | 453.9 | 497.6 | 546.0 | 549.1 | 1015.5 | 1123.1 | 1394.5 | 1038.9 | 483.6 |
| 85° | 305.7 | 305.7 | 344.7 | 335.4 | 352.5 | 321.3 | 447.7 | 494.5 | 558.4 | 441.4 | 224.6 |
| 87.5° | 121.7 | 134.1 | 226.2 | 202.8 | 157.5 | 126.3 | 165.3 | 174.7 | 193.4 | 173.1 | 93.6 |
| 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° | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 | 3754.6 |
| 2.5° | 3760.8 | 3765.5 | 3754.6 | 3746.8 | 3743.7 | 3739.0 | 3734.3 | 3735.9 | 3742.1 | 3748.4 | 3746.8 |
| 5° | 3779.6 | 3781.1 | 3762.4 | 3753.0 | 3746.8 | 3740.6 | 3740.6 | 3745.2 | 3757.7 | 3767.1 | 3767.1 |
| 7.5° | 3826.4 | 3826.4 | 3799.8 | 3782.7 | 3773.3 | 3762.4 | 3759.3 | 3760.8 | 3770.2 | 3782.7 | 3784.2 |
| 10° | 3899.7 | 3893.4 | 3859.1 | 3832.6 | 3815.4 | 3788.9 | 3765.5 | 3753.0 | 3757.7 | 3765.5 | 3765.5 |
| 12.5° | 3988.6 | 3971.4 | 3927.8 | 3891.9 | 3849.8 | 3799.8 | 3751.5 | 3726.5 | 3725.0 | 3732.8 | 3729.7 |
| 15° | 4083.7 | 4065.0 | 4004.2 | 3938.7 | 3865.4 | 3792.0 | 3734.3 | 3698.5 | 3670.4 | 3662.6 | 3679.7 |
| 17.5° | 4194.5 | 4155.5 | 4071.3 | 3980.8 | 3871.6 | 3776.4 | 3686.0 | 3612.7 | 3562.7 | 3548.7 | 3553.4 |
| 20° | 4328.6 | 4277.2 | 4163.3 | 4021.3 | 3866.9 | 3720.3 | 3579.9 | 3481.6 | 3400.5 | 3375.6 | 3378.7 |
| 22.5° | 4514.3 | 4425.4 | 4258.4 | 4041.6 | 3827.9 | 3614.2 | 3419.2 | 3291.3 | 3193.1 | 3154.1 | 3177.5 |
| 25° | 4724.8 | 4628.1 | 4348.9 | 4036.9 | 3726.5 | 3444.2 | 3228.9 | 3062.0 | 2973.1 | 2915.4 | 2927.9 |
| 27.5° | 5015.0 | 4843.4 | 4445.6 | 3994.8 | 3581.5 | 3236.7 | 2987.2 | 2829.6 | 2748.5 | 2718.9 | 2732.9 |
| 30° | 5386.2 | 5122.6 | 4550.1 | 3881.0 | 3352.2 | 2974.7 | 2743.8 | 2640.9 | 2592.5 | 2555.1 | 2567.5 |
| 32.5° | 5654.5 | 5319.2 | 4573.5 | 3689.1 | 3104.1 | 2736.0 | 2578.5 | 2502.0 | 2449.0 | 2413.1 | 2420.9 |
| 35° | 5846.4 | 5486.1 | 4562.6 | 3453.6 | 2845.2 | 2539.5 | 2447.4 | 2385.0 | 2299.2 | 2221.3 | 2207.2 |
| 37.5° | 6103.8 | 5695.1 | 4483.1 | 3196.2 | 2589.4 | 2406.9 | 2341.4 | 2225.9 | 2102.7 | 1998.2 | 1993.5 |
| 40° | 6498.4 | 5940.0 | 4313.0 | 2893.6 | 2371.0 | 2308.6 | 2229.1 | 2079.3 | 1946.7 | 1862.5 | 1856.2 |
| 42.5° | 6905.5 | 6166.2 | 4082.2 | 2575.3 | 2191.6 | 2205.7 | 2108.9 | 1960.8 | 1879.6 | 1825.0 | 1818.8 |
| 45° | 7403.1 | 6411.1 | 3832.6 | 2299.2 | 2059.0 | 2108.9 | 2004.4 | 1918.6 | 1870.3 | 1834.4 | 1825.0 |
| 47.5° | 7941.3 | 6662.2 | 3551.8 | 2051.2 | 1946.7 | 2020.0 | 1960.8 | 1921.8 | 1895.2 | 1870.3 | 1859.4 |
| 50° | 8521.6 | 6943.0 | 3288.2 | 1851.6 | 1845.3 | 1928.0 | 1956.1 | 1942.0 | 1926.4 | 1918.6 | 1909.3 |
| 52.5° | 9158.0 | 7230.0 | 3066.7 | 1711.2 | 1756.4 | 1862.5 | 1957.6 | 1968.6 | 1968.6 | 1963.9 | 1957.6 |
| 55° | 9588.5 | 7429.7 | 2842.1 | 1597.3 | 1665.9 | 1809.4 | 1954.5 | 1996.6 | 2012.2 | 2006.0 | 1999.8 |
| 57.5° | 9906.7 | 7538.9 | 2559.7 | 1499.0 | 1589.5 | 1758.0 | 1937.4 | 1999.8 | 2015.4 | 2023.2 | 2020.0 |
| 60° | 9972.3 | 7437.5 | 2190.1 | 1396.1 | 1506.8 | 1683.1 | 1875.0 | 1953.0 | 1973.2 | 2021.6 | 2026.3 |
| 62.5° | 9677.4 | 7125.5 | 1821.9 | 1294.7 | 1405.4 | 1569.2 | 1790.7 | 1899.9 | 1940.5 | 2015.4 | 2023.2 |
| 64° | 9315.5 | 6776.1 | 1617.6 | 1230.7 | 1339.9 | 1505.3 | 1748.6 | 1885.9 | 1938.9 | 2038.8 | 2045.0 |
| 65° | 9050.4 | 6521.8 | 1489.7 | 1190.2 | 1297.8 | 1463.2 | 1725.2 | 1890.6 | 1953.0 | 2074.6 | 2084.0 |
| 67.5° | 8073.9 | 5646.7 | 1232.3 | 1095.0 | 1198.0 | 1391.4 | 1729.9 | 1929.6 | 1949.8 | 2088.7 | 2087.1 |
| 70° | 6680.9 | 4495.5 | 1032.6 | 1007.7 | 1101.3 | 1333.7 | 1711.2 | 1867.2 | 1868.7 | 1960.8 | 1938.9 |
| 72.5° | 5002.5 | 3322.5 | 895.4 | 917.2 | 993.6 | 1196.4 | 1616.0 | 1782.9 | 1756.4 | 1768.9 | 1747.1 |
| 75° | 3436.4 | 2197.9 | 770.6 | 820.5 | 881.3 | 1057.6 | 1481.9 | 1619.1 | 1577.0 | 1561.4 | 1545.8 |
| 77.5° | 1834.4 | 1215.1 | 641.1 | 725.3 | 765.9 | 914.1 | 1293.1 | 1425.7 | 1382.0 | 1321.2 | 1300.9 |
| 80° | 742.5 | 572.5 | 516.3 | 600.6 | 623.9 | 736.3 | 1076.3 | 1159.0 | 1126.2 | 1020.2 | 985.8 |
| 82.5° | 372.8 | 343.2 | 405.6 | 472.6 | 474.2 | 525.7 | 800.2 | 878.2 | 804.9 | 675.4 | 645.8 |
| 85° | 195.0 | 201.2 | 279.2 | 332.3 | 293.3 | 283.9 | 480.4 | 531.9 | 488.2 | 424.3 | 382.2 |
| 87.5° | 70.2 | 81.1 | 146.6 | 145.1 | 103.0 | 54.6 | 106.1 | 51.5 | 28.1 | 17.2 | 21.8 |
| 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)