

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: P522842

Luminaire Tested: **GALN-SA7B-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522842
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-SA7B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39662 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

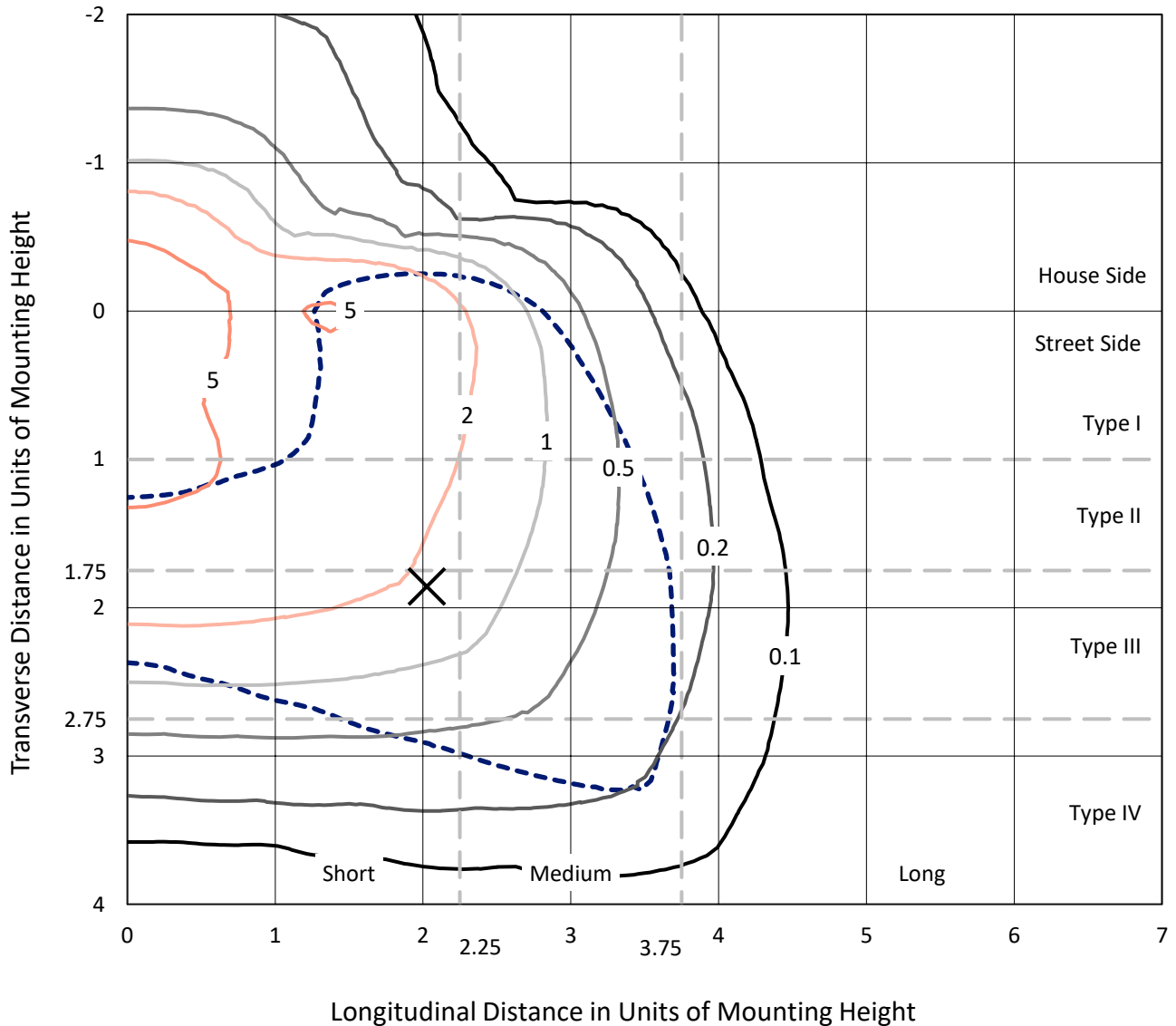
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

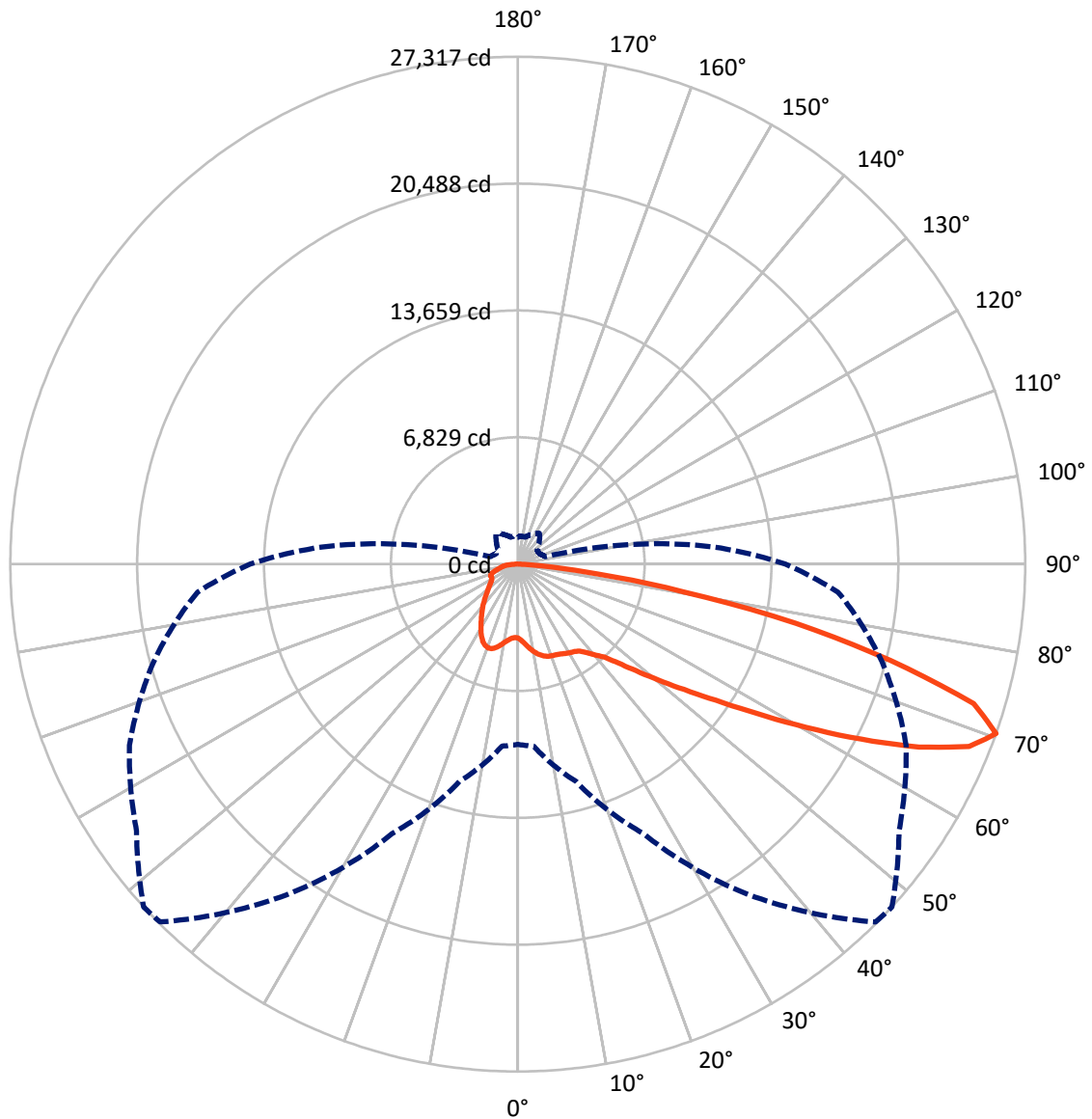
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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 | 8980.2 | 0.0 | 8980.2 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 30681.8 | 0.0 | 30681.8 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 39662.0 | 0.0 | 39662.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 410.4 | 1.0 |
| 10°-20° | 1372.1 | 3.5 |
| 20°-30° | 2281.7 | 5.8 |
| 30°-40° | 3234.0 | 8.2 |
| 40°-50° | 4774.1 | 12.0 |
| 50°-60° | 8268.9 | 20.8 |
| 60°-70° | 11680.1 | 29.4 |
| 70°-80° | 6714.3 | 16.9 |
| 80°-90° | 926.4 | 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° | 39662.0 | 100.0 |
| 0°-180° | 39662.0 | 100.0 |

Coefficient of Utilization



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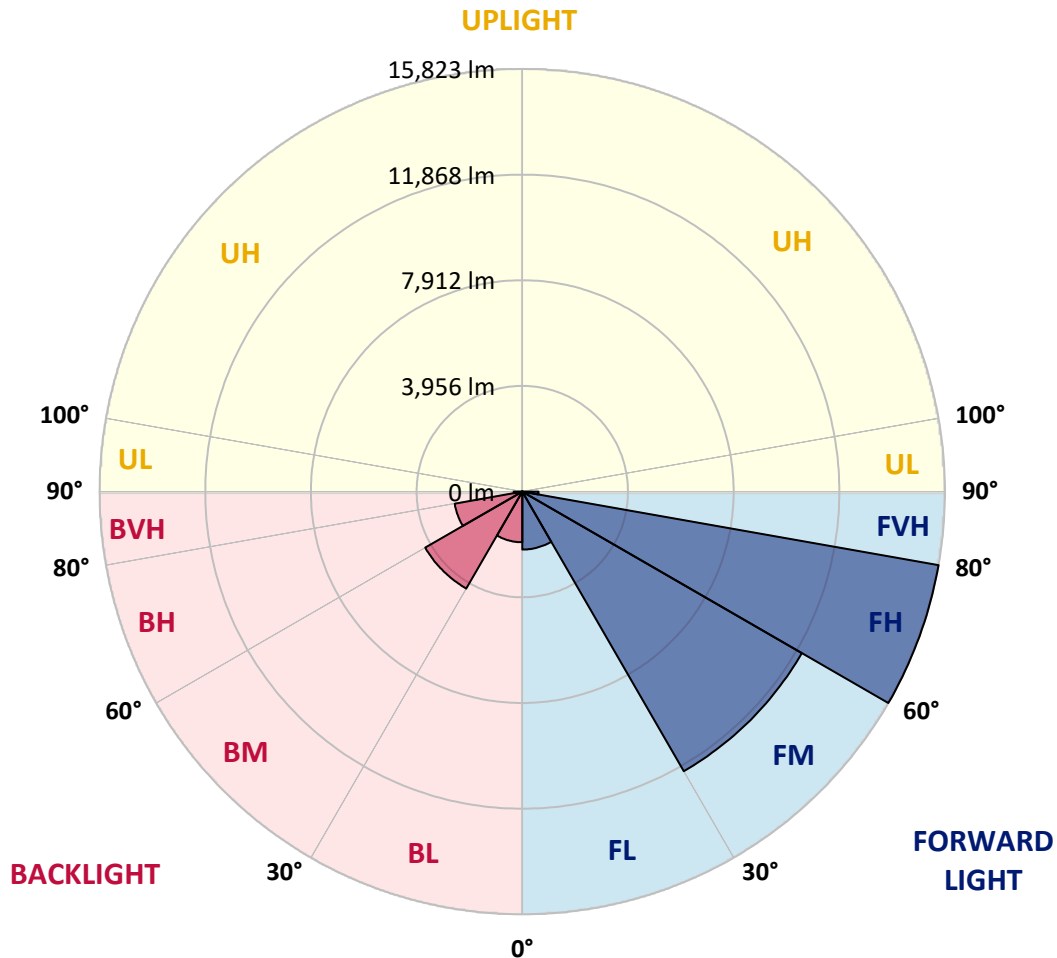
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2168.9 | 5.5 | | | |
| FM | (30°-60°) | 12084.2 | 30.5 | | | |
| FH | (60°-80°) | 15823.5 | 39.9 | | | G5 |
| FVH | (80°-90°) | 605.2 | 1.5 | | | G4/750 |
| BL | (0°-30°) | 1895.3 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 4192.7 | 10.6 | B3/5000 | | |
| BH | (60°-80°) | 2570.9 | 6.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 321.3 | 0.8 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-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° | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 |
| 2.5° | 4238.4 | 4223.5 | 4221.4 | 4189.6 | 4172.6 | 4140.8 | 4128.0 | 4098.3 | 4062.2 | 4026.2 | 3992.2 |
| 5° | 4571.6 | 4571.6 | 4556.8 | 4512.2 | 4442.1 | 4370.0 | 4338.1 | 4280.8 | 4179.0 | 4096.2 | 4026.2 |
| 7.5° | 4913.3 | 4917.6 | 4887.8 | 4822.1 | 4722.3 | 4605.6 | 4575.9 | 4491.0 | 4346.6 | 4225.7 | 4121.7 |
| 10° | 5208.3 | 5208.3 | 5168.0 | 5078.9 | 4953.6 | 4826.3 | 4796.6 | 4701.1 | 4539.8 | 4389.1 | 4253.3 |
| 12.5° | 5433.3 | 5433.3 | 5380.2 | 5263.5 | 5127.7 | 5013.1 | 4979.1 | 4887.8 | 4737.2 | 4569.5 | 4397.6 |
| 15° | 5579.7 | 5569.1 | 5509.7 | 5378.1 | 5246.5 | 5146.8 | 5123.4 | 5047.0 | 4909.1 | 4739.3 | 4546.1 |
| 17.5° | 5586.1 | 5581.9 | 5524.6 | 5414.2 | 5299.6 | 5231.7 | 5216.8 | 5165.9 | 5057.6 | 4896.3 | 4692.6 |
| 20° | 5463.0 | 5471.5 | 5433.3 | 5354.8 | 5299.6 | 5269.9 | 5263.5 | 5246.5 | 5170.1 | 5019.4 | 4815.7 |
| 22.5° | 5331.4 | 5346.3 | 5310.2 | 5267.8 | 5263.5 | 5293.2 | 5297.5 | 5301.7 | 5252.9 | 5106.4 | 4919.7 |
| 25° | 5299.6 | 5310.2 | 5274.1 | 5235.9 | 5259.3 | 5337.8 | 5354.8 | 5371.7 | 5333.5 | 5210.4 | 5042.8 |
| 27.5° | 5460.9 | 5452.4 | 5382.4 | 5299.6 | 5314.4 | 5420.6 | 5443.9 | 5463.0 | 5443.9 | 5337.8 | 5195.6 |
| 30° | 5917.2 | 5889.6 | 5749.5 | 5507.6 | 5431.2 | 5505.5 | 5528.8 | 5581.9 | 5581.9 | 5503.3 | 5361.1 |
| 32.5° | 6681.3 | 6628.2 | 6371.4 | 5896.0 | 5630.7 | 5586.1 | 5609.5 | 5696.5 | 5741.0 | 5679.5 | 5524.6 |
| 35° | 7608.7 | 7553.6 | 7186.4 | 6547.5 | 5995.7 | 5747.4 | 5741.0 | 5838.7 | 5957.5 | 5819.6 | 5617.9 |
| 37.5° | 8540.5 | 8483.2 | 8041.7 | 7324.3 | 6528.4 | 6087.0 | 6048.8 | 6082.7 | 6133.7 | 5881.1 | 5747.4 |
| 40° | 9472.2 | 9404.3 | 9018.0 | 8192.4 | 7180.0 | 6536.9 | 6437.2 | 6284.4 | 6263.1 | 6082.7 | 5997.8 |
| 42.5° | 10395.4 | 10333.9 | 10138.6 | 9166.6 | 7961.1 | 6976.3 | 6823.5 | 6560.3 | 6640.9 | 6532.7 | 6458.4 |
| 45° | 11327.1 | 11331.4 | 11123.4 | 10259.6 | 8903.4 | 7787.0 | 7581.1 | 7169.4 | 7360.4 | 7320.1 | 7362.5 |
| 47.5° | 12152.8 | 12142.1 | 12067.9 | 11320.8 | 10072.8 | 8831.2 | 8565.9 | 8088.4 | 8415.2 | 8563.8 | 8888.5 |
| 50° | 12952.9 | 12946.5 | 12950.8 | 12524.2 | 11431.1 | 10072.8 | 9779.9 | 9279.1 | 10015.5 | 10531.3 | 11112.8 |
| 52.5° | 14099.0 | 14135.1 | 13878.3 | 13765.8 | 13082.4 | 11539.4 | 11216.8 | 10698.9 | 11906.6 | 12719.4 | 13854.9 |
| 55° | 15249.3 | 15219.6 | 15018.0 | 15134.7 | 14810.0 | 13275.5 | 12938.0 | 12526.3 | 14012.0 | 14901.2 | 16607.6 |
| 57.5° | 15926.4 | 15937.0 | 16142.8 | 16713.8 | 16943.0 | 15440.3 | 15134.7 | 14816.3 | 16378.4 | 17008.8 | 19056.9 |
| 60° | 16535.5 | 16584.3 | 17176.4 | 18254.6 | 18876.5 | 18099.7 | 17828.0 | 17518.1 | 18549.6 | 18800.1 | 21183.5 |
| 62.5° | 16726.5 | 16877.2 | 17910.8 | 19523.8 | 20761.1 | 21100.7 | 20763.3 | 20079.9 | 20616.8 | 20519.2 | 22624.6 |
| 65° | 15773.5 | 15979.4 | 17832.2 | 19999.2 | 22444.2 | 23949.0 | 23734.6 | 22465.4 | 22378.4 | 21790.5 | 22860.2 |
| 67.5° | 13264.9 | 13470.8 | 15849.9 | 19001.7 | 23140.3 | 26415.2 | 26200.8 | 24205.8 | 23448.1 | 21909.3 | 21077.4 |
| 70° | 9705.7 | 9835.1 | 12110.3 | 15998.5 | 21741.7 | 27242.9 | 27317.2 | 25054.7 | 23066.0 | 20294.2 | 17305.9 |
| 72.5° | 5592.5 | 5879.0 | 7472.9 | 11255.0 | 17762.2 | 25150.2 | 25666.0 | 23288.9 | 20650.8 | 16930.2 | 12099.7 |
| 75° | 2404.7 | 2411.0 | 3455.2 | 6208.0 | 12029.7 | 20215.7 | 20714.4 | 19305.2 | 16217.1 | 11707.1 | 6460.5 |
| 77.5° | 1144.0 | 1165.2 | 1519.6 | 2771.8 | 6621.8 | 13967.4 | 15313.0 | 13638.4 | 10372.1 | 5624.3 | 2440.7 |
| 80° | 742.8 | 757.7 | 929.6 | 1375.3 | 3247.2 | 8099.0 | 9037.1 | 7867.7 | 4575.9 | 2009.9 | 1052.7 |
| 82.5° | 449.9 | 454.2 | 621.9 | 840.5 | 1787.0 | 3667.5 | 4323.3 | 3414.9 | 1952.6 | 1203.4 | 619.7 |
| 85° | 273.8 | 275.9 | 377.8 | 520.0 | 1084.5 | 1267.1 | 1301.0 | 1290.4 | 1146.1 | 787.4 | 331.1 |
| 87.5° | 131.6 | 135.8 | 195.3 | 246.2 | 426.6 | 392.6 | 371.4 | 430.8 | 541.2 | 424.5 | 142.2 |
| 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° | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 | 3981.6 |
| 2.5° | 3977.3 | 3971.0 | 3956.1 | 3949.8 | 3945.5 | 3947.6 | 3945.5 | 3945.5 | 3947.6 | 3947.6 | 3947.6 |
| 5° | 3996.4 | 3985.8 | 3962.5 | 3962.5 | 3975.2 | 4004.9 | 4032.5 | 4053.7 | 4077.1 | 4075.0 | 4075.0 |
| 7.5° | 4079.2 | 4060.1 | 4032.5 | 4041.0 | 4072.8 | 4119.5 | 4168.4 | 4215.0 | 4261.7 | 4266.0 | 4263.9 |
| 10° | 4200.2 | 4181.1 | 4151.4 | 4162.0 | 4212.9 | 4283.0 | 4344.5 | 4412.4 | 4463.4 | 4478.2 | 4474.0 |
| 12.5° | 4338.1 | 4299.9 | 4274.5 | 4304.2 | 4384.8 | 4478.2 | 4537.7 | 4588.6 | 4624.7 | 4645.9 | 4637.4 |
| 15° | 4478.2 | 4442.1 | 4412.4 | 4474.0 | 4571.6 | 4658.6 | 4688.3 | 4696.8 | 4703.2 | 4724.4 | 4720.2 |
| 17.5° | 4614.1 | 4565.2 | 4554.6 | 4635.3 | 4728.7 | 4766.9 | 4749.9 | 4713.8 | 4686.2 | 4703.2 | 4701.1 |
| 20° | 4735.0 | 4696.8 | 4692.6 | 4773.2 | 4809.3 | 4773.2 | 4701.1 | 4637.4 | 4588.6 | 4592.8 | 4590.7 |
| 22.5° | 4849.6 | 4819.9 | 4824.2 | 4858.1 | 4800.8 | 4677.7 | 4558.9 | 4471.9 | 4418.8 | 4429.4 | 4435.8 |
| 25° | 4977.0 | 4947.3 | 4957.9 | 4902.7 | 4713.8 | 4499.4 | 4327.5 | 4253.3 | 4232.0 | 4253.3 | 4268.1 |
| 27.5° | 5142.5 | 5123.4 | 5117.1 | 4904.8 | 4558.9 | 4236.3 | 4041.0 | 4013.4 | 4032.5 | 4079.2 | 4102.6 |
| 30° | 5320.8 | 5320.8 | 5286.9 | 4868.7 | 4346.6 | 3920.0 | 3750.2 | 3754.5 | 3820.3 | 3886.1 | 3909.4 |
| 32.5° | 5492.7 | 5528.8 | 5422.7 | 4771.1 | 4072.8 | 3612.3 | 3482.8 | 3487.1 | 3544.4 | 3625.0 | 3646.3 |
| 35° | 5634.9 | 5738.9 | 5539.4 | 4592.8 | 3750.2 | 3353.4 | 3255.7 | 3198.4 | 3200.6 | 3262.1 | 3279.1 |
| 37.5° | 5830.2 | 6023.3 | 5607.3 | 4327.5 | 3406.4 | 3132.6 | 3022.3 | 2922.5 | 2856.7 | 2831.3 | 2831.3 |
| 40° | 6169.8 | 6454.2 | 5624.3 | 3934.9 | 3081.7 | 2922.5 | 2765.5 | 2646.6 | 2519.3 | 2404.7 | 2383.4 |
| 42.5° | 6744.9 | 7103.6 | 5590.4 | 3482.8 | 2788.8 | 2691.2 | 2538.4 | 2391.9 | 2215.8 | 2054.5 | 2041.7 |
| 45° | 7763.7 | 7948.3 | 5499.1 | 3013.8 | 2527.8 | 2468.3 | 2319.8 | 2160.6 | 1973.8 | 1829.5 | 1818.9 |
| 47.5° | 9395.8 | 9134.7 | 5378.1 | 2597.8 | 2290.0 | 2273.1 | 2158.5 | 1973.8 | 1787.0 | 1687.3 | 1676.7 |
| 50° | 11779.2 | 11002.4 | 5361.1 | 2296.4 | 2099.0 | 2107.5 | 2014.1 | 1844.3 | 1680.9 | 1598.2 | 1585.4 |
| 52.5° | 14648.7 | 13258.5 | 5473.6 | 2084.2 | 1931.4 | 1963.2 | 1916.5 | 1759.5 | 1615.1 | 1545.1 | 1532.4 |
| 55° | 17433.2 | 15287.5 | 5541.5 | 1918.6 | 1774.3 | 1833.7 | 1840.1 | 1708.5 | 1576.9 | 1506.9 | 1498.4 |
| 57.5° | 19693.6 | 16815.6 | 5240.2 | 1767.9 | 1638.5 | 1729.7 | 1776.4 | 1678.8 | 1557.8 | 1504.8 | 1496.3 |
| 60° | 21266.3 | 17537.2 | 4382.7 | 1634.2 | 1538.7 | 1647.0 | 1753.1 | 1680.9 | 1604.5 | 1610.9 | 1615.1 |
| 62.5° | 21767.1 | 17216.8 | 3287.6 | 1534.5 | 1470.8 | 1619.4 | 1791.3 | 1767.9 | 1689.4 | 1738.2 | 1746.7 |
| 65° | 20937.3 | 15892.4 | 2383.4 | 1456.0 | 1411.4 | 1638.5 | 1905.9 | 1831.6 | 1659.7 | 1695.8 | 1695.8 |
| 67.5° | 18159.1 | 13691.5 | 1855.0 | 1383.8 | 1343.5 | 1674.6 | 2020.5 | 1825.2 | 1589.7 | 1632.1 | 1593.9 |
| 70° | 14404.6 | 10590.7 | 1545.1 | 1303.1 | 1271.3 | 1621.5 | 2031.1 | 1759.5 | 1506.9 | 1515.4 | 1443.2 |
| 72.5° | 9559.2 | 6963.5 | 1328.6 | 1226.7 | 1160.9 | 1458.1 | 1944.1 | 1674.6 | 1426.2 | 1377.4 | 1305.3 |
| 75° | 4684.1 | 3472.2 | 1158.8 | 1131.2 | 1016.6 | 1269.2 | 1825.2 | 1593.9 | 1339.2 | 1262.8 | 1222.5 |
| 77.5° | 1814.6 | 1477.2 | 989.0 | 1010.3 | 885.0 | 1118.5 | 1668.2 | 1479.3 | 1224.6 | 1120.6 | 1088.8 |
| 80° | 880.8 | 838.3 | 810.7 | 842.6 | 728.0 | 952.9 | 1523.9 | 1379.5 | 1118.5 | 1003.9 | 957.2 |
| 82.5° | 547.6 | 517.9 | 621.9 | 655.8 | 560.3 | 870.2 | 1445.3 | 1294.7 | 984.8 | 832.0 | 793.8 |
| 85° | 278.0 | 297.1 | 416.0 | 447.8 | 401.1 | 691.9 | 1190.7 | 972.1 | 711.0 | 590.0 | 594.3 |
| 87.5° | 106.1 | 142.2 | 218.6 | 235.6 | 214.4 | 365.0 | 655.8 | 566.7 | 456.3 | 309.9 | 286.5 |
| 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)