

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: P522877

Luminaire Tested: **GALN-SA8B-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522877
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-SA8B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 42834 lumens
Efficiency: N/A
Efficacy: 131.8 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

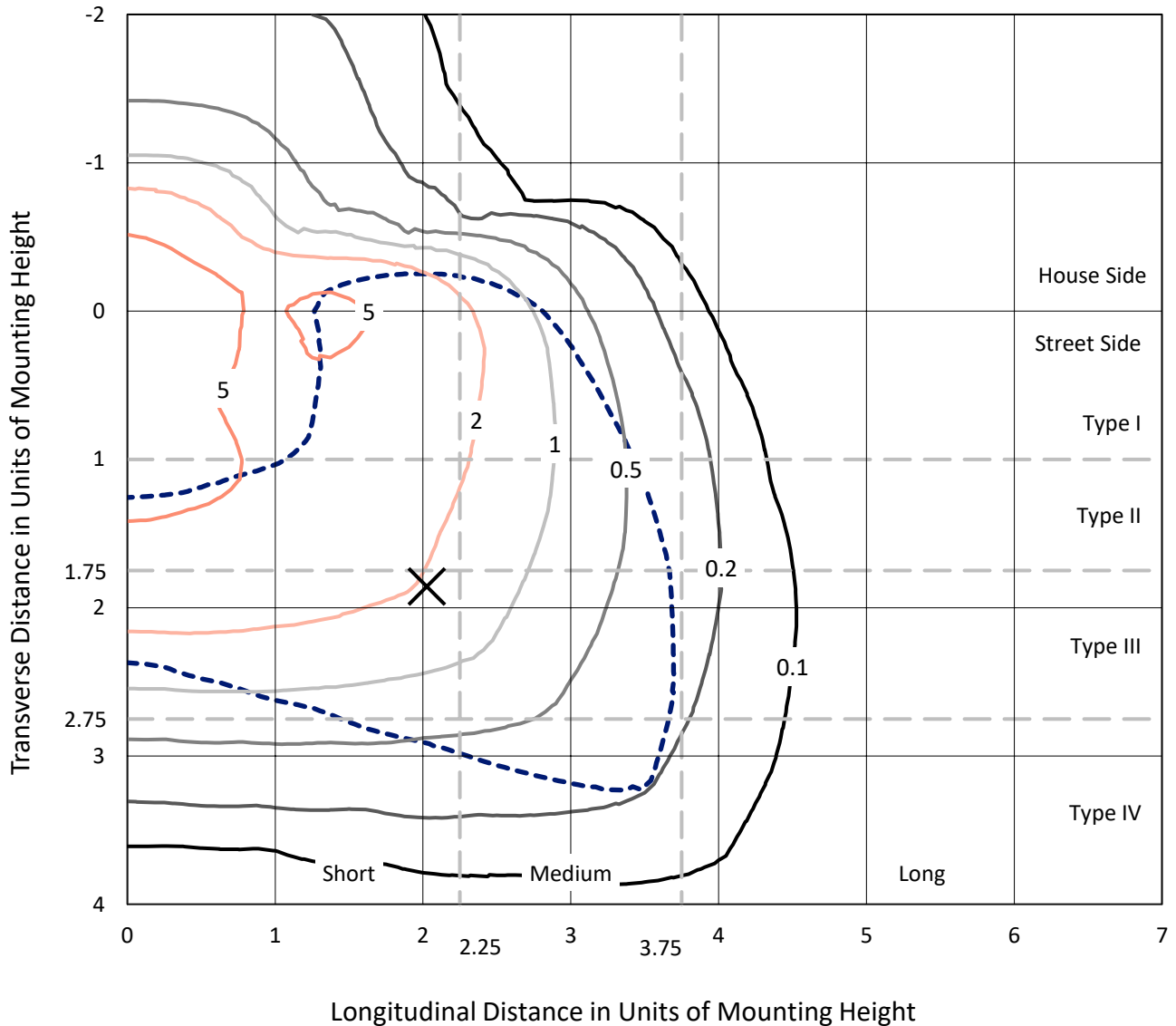
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

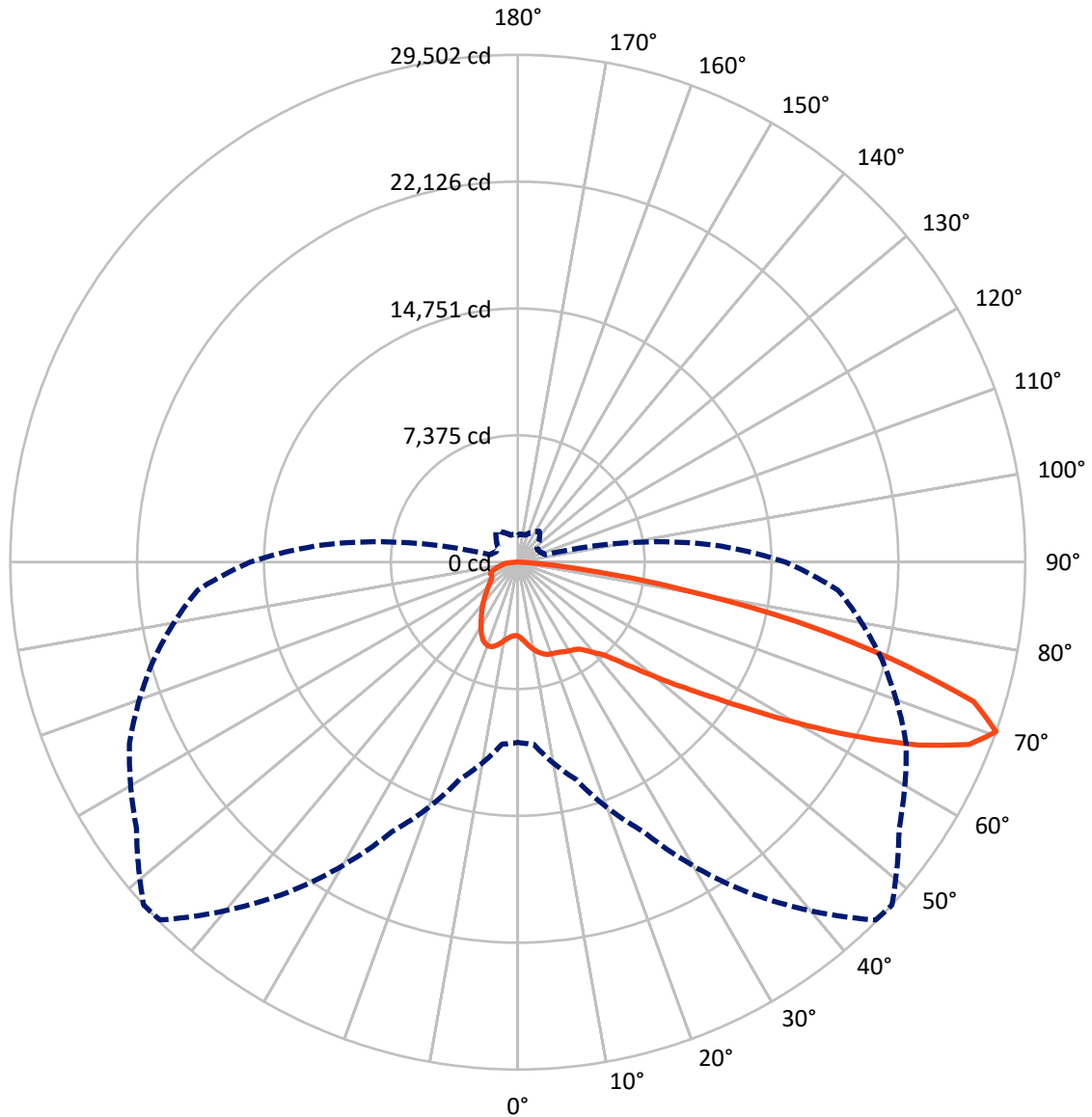
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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 | 9698.5 | 0.0 | 9698.5 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 33135.6 | 0.0 | 33135.6 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 42834.0 | 0.0 | 42834.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 443.2 | 1.0 |
| 10°-20° | 1481.8 | 3.5 |
| 20°-30° | 2464.2 | 5.8 |
| 30°-40° | 3492.6 | 8.2 |
| 40°-50° | 5155.9 | 12.0 |
| 50°-60° | 8930.2 | 20.8 |
| 60°-70° | 12614.2 | 29.4 |
| 70°-80° | 7251.3 | 16.9 |
| 80°-90° | 1000.5 | 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° | 42834.0 | 100.0 |
| 0°-180° | 42834.0 | 100.0 |

Coefficient of Utilization



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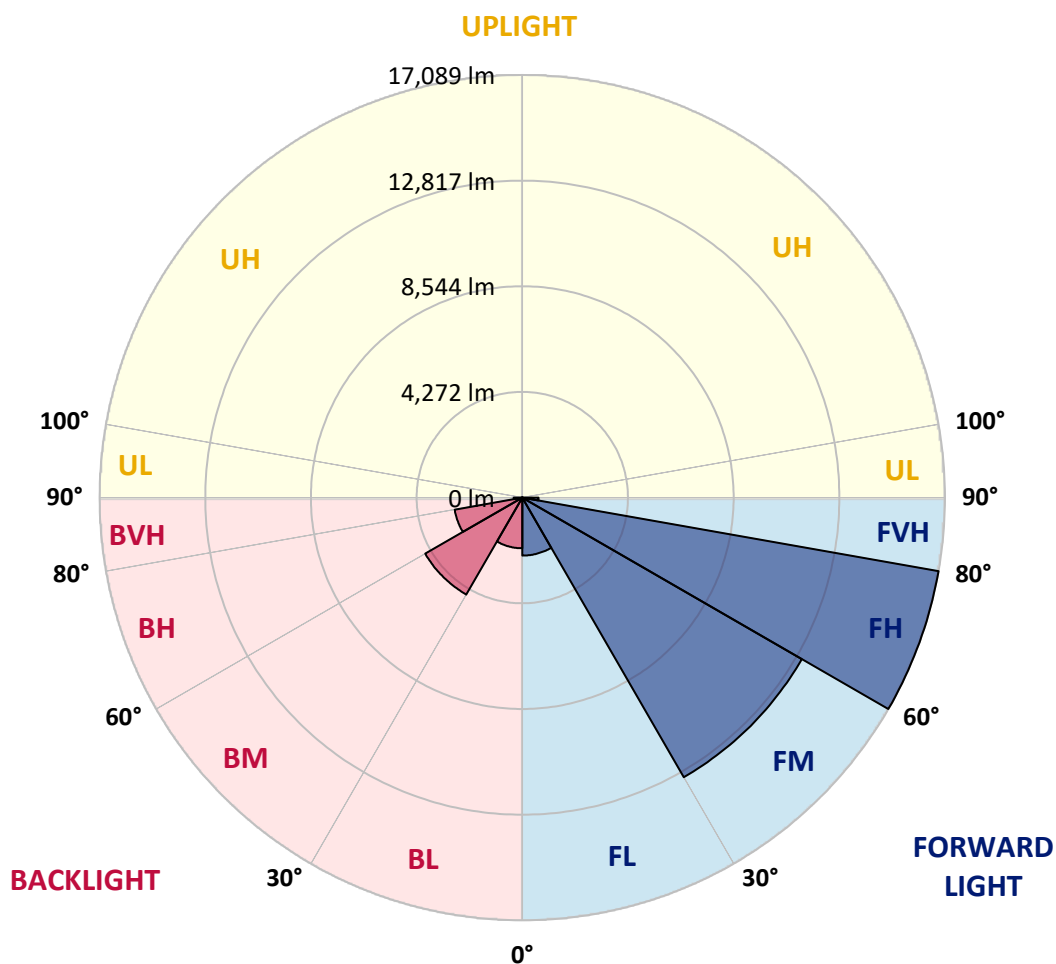
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2342.3 | 5.5 | | | |
| FM | (30°-60°) | 13050.7 | 30.5 | | | |
| FH | (60°-80°) | 17089.0 | 39.9 | | | G5 |
| FVH | (80°-90°) | 653.6 | 1.5 | | | G4/750 |
| BL | (0°-30°) | 2046.9 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 4528.0 | 10.6 | B3/5000 | | |
| BH | (60°-80°) | 2776.5 | 6.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 346.9 | 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° | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 |
| 2.5° | 4577.4 | 4561.3 | 4559.0 | 4524.6 | 4506.3 | 4471.9 | 4458.2 | 4426.1 | 4387.1 | 4348.2 | 4311.5 |
| 5° | 4937.2 | 4937.2 | 4921.2 | 4873.0 | 4797.4 | 4719.5 | 4685.1 | 4623.2 | 4513.2 | 4423.8 | 4348.2 |
| 7.5° | 5306.3 | 5310.8 | 5278.8 | 5207.7 | 5100.0 | 4973.9 | 4941.8 | 4850.1 | 4694.3 | 4563.6 | 4451.3 |
| 10° | 5624.9 | 5624.9 | 5581.3 | 5485.0 | 5349.8 | 5212.3 | 5180.2 | 5077.0 | 4902.8 | 4740.1 | 4593.4 |
| 12.5° | 5867.8 | 5867.8 | 5810.5 | 5684.5 | 5537.8 | 5414.0 | 5377.3 | 5278.8 | 5116.0 | 4934.9 | 4749.3 |
| 15° | 6026.0 | 6014.5 | 5950.3 | 5808.2 | 5666.1 | 5558.4 | 5533.2 | 5450.7 | 5301.7 | 5118.3 | 4909.7 |
| 17.5° | 6032.9 | 6028.3 | 5966.4 | 5847.2 | 5723.4 | 5650.1 | 5634.0 | 5579.0 | 5462.1 | 5287.9 | 5067.9 |
| 20° | 5899.9 | 5909.1 | 5867.8 | 5783.0 | 5723.4 | 5691.3 | 5684.5 | 5666.1 | 5583.6 | 5420.9 | 5200.8 |
| 22.5° | 5757.8 | 5773.9 | 5734.9 | 5689.0 | 5684.5 | 5716.5 | 5721.1 | 5725.7 | 5673.0 | 5514.8 | 5313.1 |
| 25° | 5723.4 | 5734.9 | 5695.9 | 5654.7 | 5679.9 | 5764.7 | 5783.0 | 5801.4 | 5760.1 | 5627.2 | 5446.1 |
| 27.5° | 5897.6 | 5888.5 | 5812.8 | 5723.4 | 5739.5 | 5854.1 | 5879.3 | 5899.9 | 5879.3 | 5764.7 | 5611.1 |
| 30° | 6390.4 | 6360.6 | 6209.4 | 5948.1 | 5865.5 | 5945.8 | 5971.0 | 6028.3 | 6028.3 | 5943.5 | 5789.9 |
| 32.5° | 7215.6 | 7158.3 | 6880.9 | 6367.5 | 6081.0 | 6032.9 | 6058.1 | 6152.1 | 6200.2 | 6133.7 | 5966.4 |
| 35° | 8217.3 | 8157.7 | 7761.1 | 7071.2 | 6475.2 | 6207.1 | 6200.2 | 6305.6 | 6434.0 | 6285.0 | 6067.2 |
| 37.5° | 9223.5 | 9161.6 | 8684.8 | 7910.1 | 7050.6 | 6573.8 | 6532.5 | 6569.2 | 6624.2 | 6351.5 | 6207.1 |
| 40° | 10229.7 | 10156.4 | 9739.2 | 8847.6 | 7754.2 | 7059.7 | 6952.0 | 6787.0 | 6764.0 | 6569.2 | 6477.5 |
| 42.5° | 11226.8 | 11160.3 | 10949.5 | 9899.7 | 8597.7 | 7534.2 | 7369.2 | 7084.9 | 7172.0 | 7055.1 | 6974.9 |
| 45° | 12233.0 | 12237.6 | 12013.0 | 11080.1 | 9615.4 | 8409.8 | 8187.5 | 7742.8 | 7949.1 | 7905.5 | 7951.4 |
| 47.5° | 13124.7 | 13113.2 | 13033.0 | 12226.2 | 10878.4 | 9537.5 | 9251.0 | 8735.3 | 9088.3 | 9248.7 | 9599.4 |
| 50° | 13988.8 | 13981.9 | 13986.5 | 13525.8 | 12345.4 | 10878.4 | 10562.1 | 10021.2 | 10816.5 | 11373.5 | 12001.5 |
| 52.5° | 15226.6 | 15265.5 | 14988.2 | 14866.7 | 14128.6 | 12462.3 | 12113.9 | 11554.6 | 12858.8 | 13736.7 | 14963.0 |
| 55° | 16468.9 | 16436.8 | 16219.0 | 16345.1 | 15994.4 | 14337.2 | 13972.8 | 13528.1 | 15132.6 | 16093.0 | 17935.8 |
| 57.5° | 17200.1 | 17211.5 | 17433.9 | 18050.4 | 18298.0 | 16675.2 | 16345.1 | 16001.3 | 17688.3 | 18369.1 | 20581.0 |
| 60° | 17857.9 | 17910.6 | 18550.1 | 19714.5 | 20386.1 | 19547.2 | 19253.8 | 18919.2 | 20033.1 | 20303.6 | 22877.7 |
| 62.5° | 18064.2 | 18226.9 | 19343.2 | 21085.2 | 22421.5 | 22788.3 | 22423.8 | 21685.8 | 22265.7 | 22160.2 | 24434.0 |
| 65° | 17035.0 | 17257.4 | 19258.4 | 21598.7 | 24239.2 | 25864.3 | 25632.8 | 24262.1 | 24168.1 | 23533.2 | 24688.4 |
| 67.5° | 14325.8 | 14548.1 | 17117.6 | 20521.4 | 24991.0 | 28527.7 | 28296.2 | 26141.6 | 25323.3 | 23661.6 | 22763.0 |
| 70° | 10481.9 | 10621.7 | 13078.8 | 17278.0 | 23480.5 | 29421.7 | 29501.9 | 27058.5 | 24910.8 | 21917.3 | 18690.0 |
| 72.5° | 6039.7 | 6349.2 | 8070.6 | 12155.1 | 19182.8 | 27161.6 | 27718.6 | 25151.4 | 22302.3 | 18284.2 | 13067.4 |
| 75° | 2597.0 | 2603.8 | 3731.6 | 6704.5 | 12991.7 | 21832.4 | 22371.1 | 20849.1 | 17514.1 | 12643.3 | 6977.2 |
| 77.5° | 1235.5 | 1258.4 | 1641.2 | 2993.5 | 7151.4 | 15084.4 | 16537.6 | 14729.2 | 11201.6 | 6074.1 | 2635.9 |
| 80° | 802.2 | 818.3 | 1003.9 | 1485.3 | 3506.9 | 8746.7 | 9759.8 | 8496.9 | 4941.8 | 2170.6 | 1136.9 |
| 82.5° | 485.9 | 490.5 | 671.6 | 907.7 | 1930.0 | 3960.8 | 4669.0 | 3688.0 | 2108.8 | 1299.6 | 669.3 |
| 85° | 295.7 | 298.0 | 408.0 | 561.6 | 1171.3 | 1368.4 | 1405.1 | 1393.6 | 1237.7 | 850.4 | 357.6 |
| 87.5° | 142.1 | 146.7 | 210.9 | 265.9 | 460.7 | 424.0 | 401.1 | 465.3 | 584.5 | 458.4 | 153.6 |
| 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° | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 | 4300.0 |
| 2.5° | 4295.4 | 4288.6 | 4272.5 | 4265.6 | 4261.1 | 4263.3 | 4261.1 | 4261.1 | 4263.3 | 4263.3 | 4263.3 |
| 5° | 4316.1 | 4304.6 | 4279.4 | 4279.4 | 4293.1 | 4325.2 | 4355.0 | 4378.0 | 4403.2 | 4400.9 | 4400.9 |
| 7.5° | 4405.5 | 4384.8 | 4355.0 | 4364.2 | 4398.6 | 4449.0 | 4501.7 | 4552.2 | 4602.6 | 4607.2 | 4604.9 |
| 10° | 4536.1 | 4515.5 | 4483.4 | 4494.8 | 4549.9 | 4625.5 | 4692.0 | 4765.3 | 4820.3 | 4836.4 | 4831.8 |
| 12.5° | 4685.1 | 4643.8 | 4616.3 | 4648.4 | 4735.5 | 4836.4 | 4900.6 | 4955.6 | 4994.5 | 5017.5 | 5008.3 |
| 15° | 4836.4 | 4797.4 | 4765.3 | 4831.8 | 4937.2 | 5031.2 | 5063.3 | 5072.5 | 5079.3 | 5102.3 | 5097.7 |
| 17.5° | 4983.1 | 4930.4 | 4918.9 | 5006.0 | 5106.8 | 5148.1 | 5129.8 | 5090.8 | 5061.0 | 5079.3 | 5077.0 |
| 20° | 5113.7 | 5072.5 | 5067.9 | 5155.0 | 5193.9 | 5155.0 | 5077.0 | 5008.3 | 4955.6 | 4960.1 | 4957.9 |
| 22.5° | 5237.5 | 5205.4 | 5210.0 | 5246.7 | 5184.8 | 5051.8 | 4923.5 | 4829.5 | 4772.2 | 4783.7 | 4790.5 |
| 25° | 5375.0 | 5342.9 | 5354.4 | 5294.8 | 5090.8 | 4859.3 | 4673.6 | 4593.4 | 4570.5 | 4593.4 | 4609.5 |
| 27.5° | 5553.8 | 5533.2 | 5526.3 | 5297.1 | 4923.5 | 4575.1 | 4364.2 | 4334.4 | 4355.0 | 4405.5 | 4430.7 |
| 30° | 5746.3 | 5746.3 | 5709.7 | 5258.1 | 4694.3 | 4233.5 | 4050.2 | 4054.8 | 4125.8 | 4196.9 | 4222.1 |
| 32.5° | 5932.0 | 5971.0 | 5856.4 | 5152.7 | 4398.6 | 3901.2 | 3761.4 | 3766.0 | 3827.8 | 3914.9 | 3937.9 |
| 35° | 6085.6 | 6197.9 | 5982.4 | 4960.1 | 4050.2 | 3621.6 | 3516.1 | 3454.2 | 3456.5 | 3523.0 | 3541.3 |
| 37.5° | 6296.5 | 6505.0 | 6055.8 | 4673.6 | 3678.9 | 3383.2 | 3264.0 | 3156.3 | 3085.2 | 3057.7 | 3057.7 |
| 40° | 6663.2 | 6970.3 | 6074.1 | 4249.6 | 3328.2 | 3156.3 | 2986.6 | 2858.3 | 2720.7 | 2597.0 | 2574.1 |
| 42.5° | 7284.4 | 7671.7 | 6037.4 | 3761.4 | 3011.8 | 2906.4 | 2741.4 | 2583.2 | 2393.0 | 2218.8 | 2205.0 |
| 45° | 8384.6 | 8584.0 | 5938.9 | 3254.8 | 2729.9 | 2665.7 | 2505.3 | 2333.4 | 2131.7 | 1975.8 | 1964.3 |
| 47.5° | 10147.2 | 9865.3 | 5808.2 | 2805.6 | 2473.2 | 2454.9 | 2331.1 | 2131.7 | 1930.0 | 1822.2 | 1810.8 |
| 50° | 12721.3 | 11882.4 | 5789.9 | 2480.1 | 2266.9 | 2276.1 | 2175.2 | 1991.9 | 1815.4 | 1726.0 | 1712.2 |
| 52.5° | 15820.2 | 14318.9 | 5911.4 | 2250.9 | 2085.8 | 2120.2 | 2069.8 | 1900.2 | 1744.3 | 1668.7 | 1654.9 |
| 55° | 18827.5 | 16510.1 | 5984.7 | 2072.1 | 1916.2 | 1980.4 | 1987.3 | 1845.2 | 1703.0 | 1627.4 | 1618.2 |
| 57.5° | 21268.6 | 18160.5 | 5659.2 | 1909.3 | 1769.5 | 1868.1 | 1918.5 | 1813.1 | 1682.4 | 1625.1 | 1615.9 |
| 60° | 22967.0 | 18939.8 | 4733.2 | 1764.9 | 1661.8 | 1778.7 | 1893.3 | 1815.4 | 1732.8 | 1739.7 | 1744.3 |
| 62.5° | 23508.0 | 18593.7 | 3550.5 | 1657.2 | 1588.4 | 1748.9 | 1934.5 | 1909.3 | 1824.5 | 1877.2 | 1886.4 |
| 65° | 22611.8 | 17163.4 | 2574.1 | 1572.4 | 1524.3 | 1769.5 | 2058.3 | 1978.1 | 1792.4 | 1831.4 | 1831.4 |
| 67.5° | 19611.4 | 14786.5 | 2003.3 | 1494.5 | 1450.9 | 1808.5 | 2182.1 | 1971.2 | 1716.8 | 1762.6 | 1721.4 |
| 70° | 15556.6 | 11437.7 | 1668.7 | 1407.4 | 1373.0 | 1751.2 | 2193.6 | 1900.2 | 1627.4 | 1636.6 | 1558.6 |
| 72.5° | 10323.7 | 7520.4 | 1434.9 | 1324.8 | 1253.8 | 1574.7 | 2099.6 | 1808.5 | 1540.3 | 1487.6 | 1409.7 |
| 75° | 5058.7 | 3749.9 | 1251.5 | 1221.7 | 1097.9 | 1370.7 | 1971.2 | 1721.4 | 1446.3 | 1363.8 | 1320.3 |
| 77.5° | 1959.8 | 1595.3 | 1068.1 | 1091.0 | 955.8 | 1207.9 | 1801.6 | 1597.6 | 1322.6 | 1210.2 | 1175.9 |
| 80° | 951.2 | 905.4 | 875.6 | 910.0 | 786.2 | 1029.2 | 1645.7 | 1489.9 | 1207.9 | 1084.2 | 1033.7 |
| 82.5° | 591.4 | 559.3 | 671.6 | 708.3 | 605.1 | 939.8 | 1560.9 | 1398.2 | 1063.5 | 898.5 | 857.3 |
| 85° | 300.3 | 320.9 | 449.3 | 483.6 | 433.2 | 747.2 | 1285.9 | 1049.8 | 767.9 | 637.2 | 641.8 |
| 87.5° | 114.6 | 153.6 | 236.1 | 254.4 | 231.5 | 394.2 | 708.3 | 612.0 | 492.8 | 334.6 | 309.4 |
| 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)