

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: P522816

Luminaire Tested: **GALN-SA6C-750-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522816
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-SA6C-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41720 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

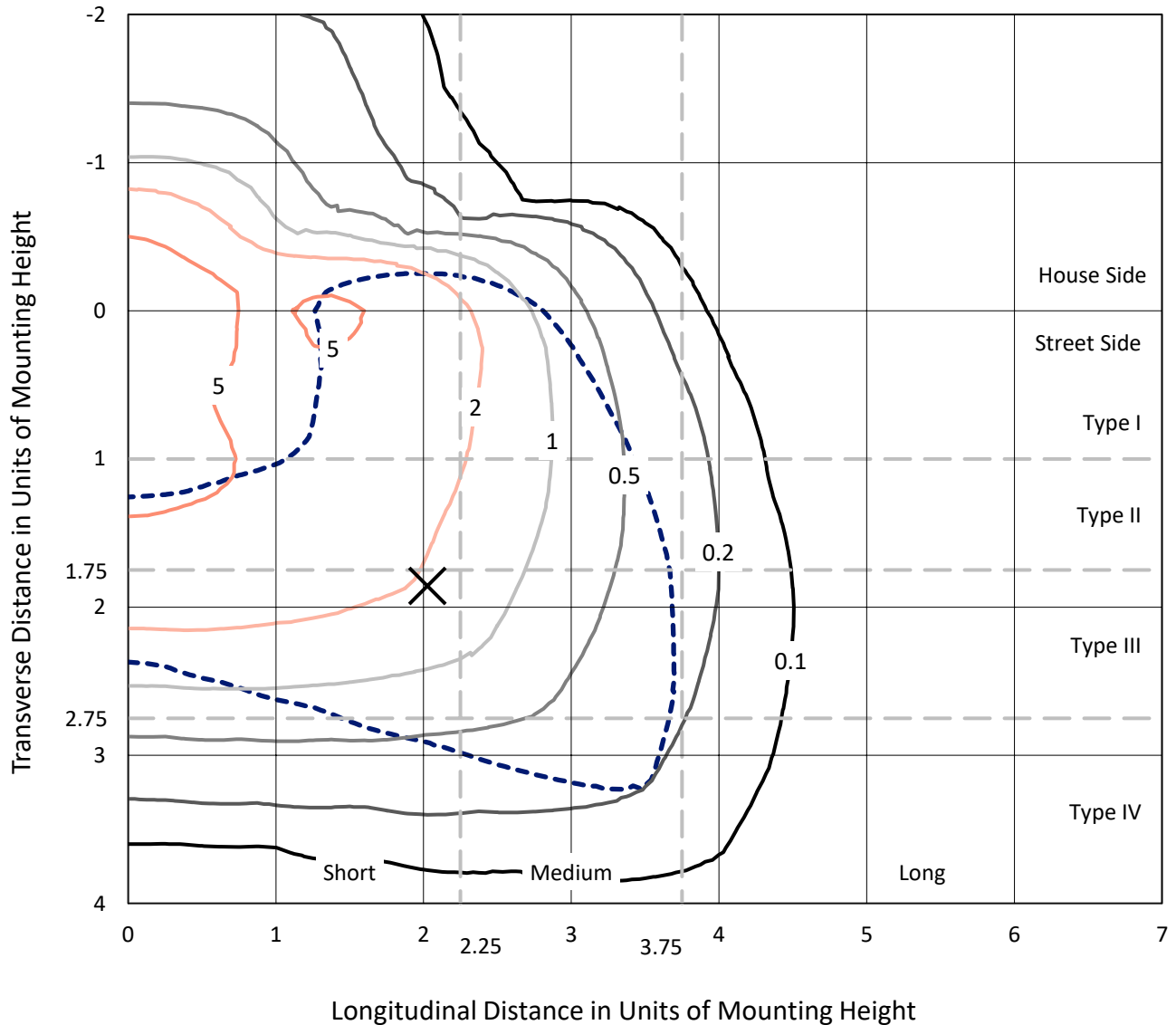
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

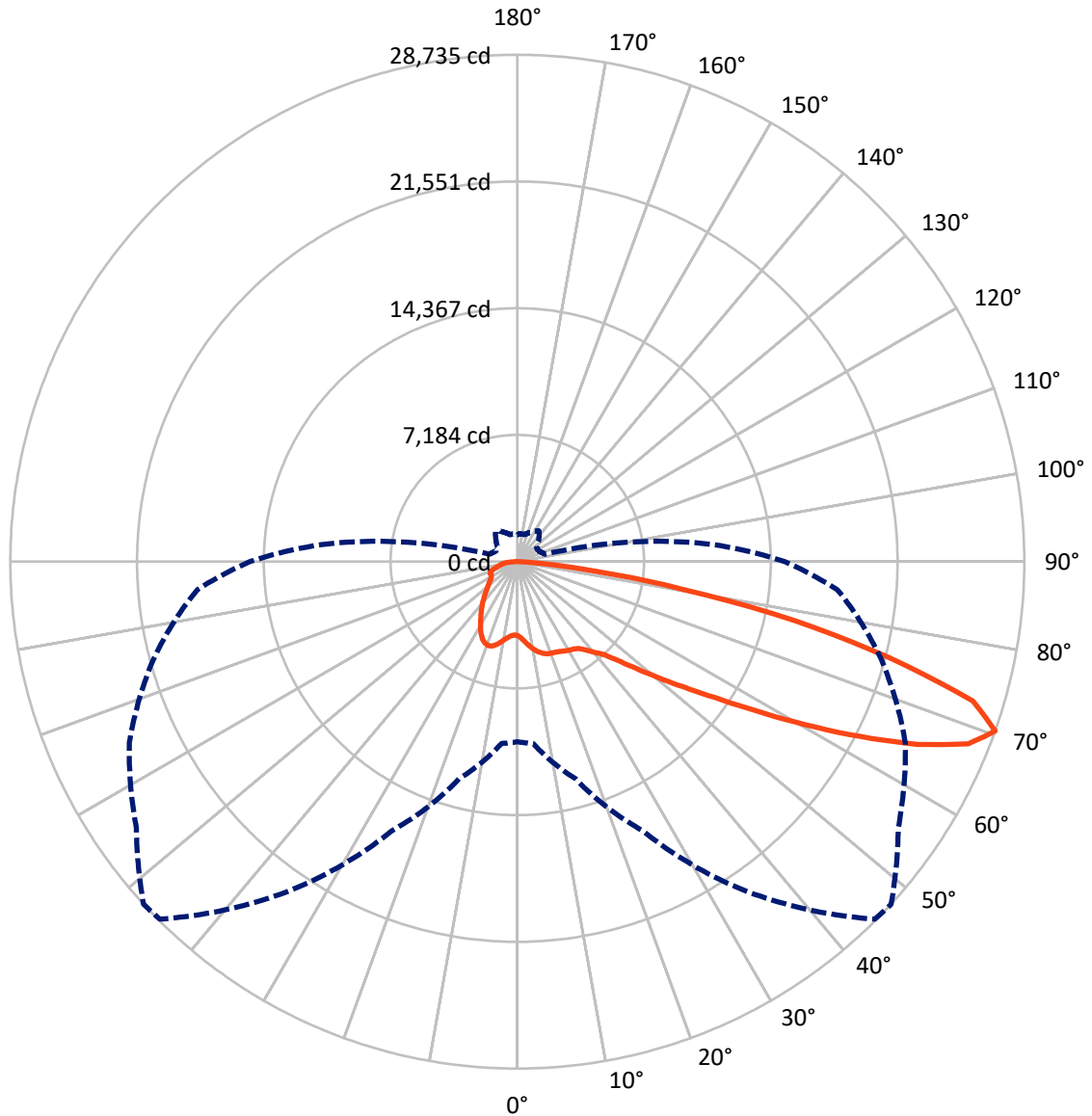
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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 | 9446.2 | 0.0 | 9446.2 |
| | % Fixture | 22.6 | 0.0 | 22.6 |
| Street Side | Lumens | 32273.8 | 0.0 | 32273.8 |
| | % Fixture | 77.4 | 0.0 | 77.4 |
| Total | Lumens | 41720.0 | 0.0 | 41720.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 431.7 | 1.0 |
| 10°-20° | 1443.3 | 3.5 |
| 20°-30° | 2400.1 | 5.8 |
| 30°-40° | 3401.8 | 8.2 |
| 40°-50° | 5021.8 | 12.0 |
| 50°-60° | 8698.0 | 20.8 |
| 60°-70° | 12286.1 | 29.4 |
| 70°-80° | 7062.7 | 16.9 |
| 80°-90° | 974.5 | 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° | 41720.0 | 100.0 |
| 0°-180° | 41720.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P522816

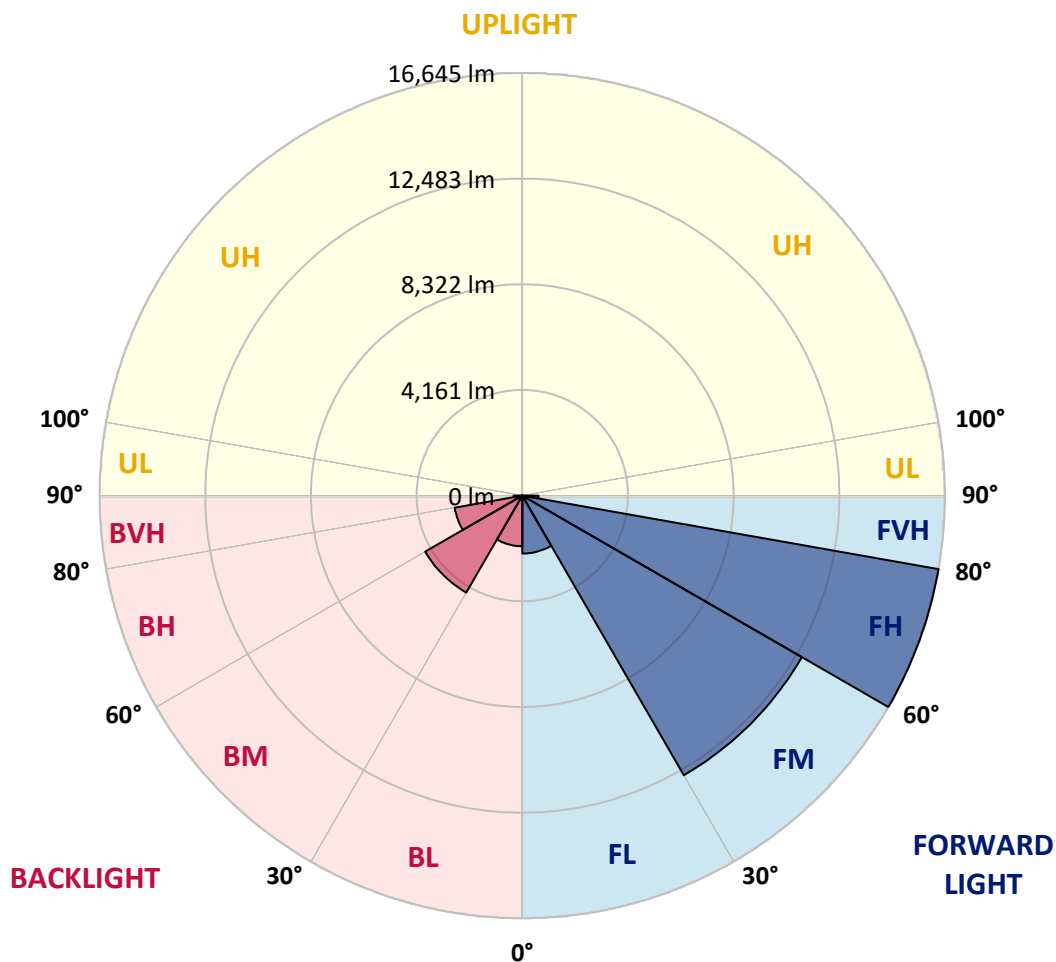
CATALOG NUMBER: GALN-SA6C-750-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2281.4 | 5.5 | | | |
| FM | (30°-60°) | 12711.3 | 30.5 | | | |
| FH | (60°-80°) | 16644.5 | 39.9 | | | G5 |
| FVH | (80°-90°) | 636.6 | 1.5 | | | G4/750 |
| BL | (0°-30°) | 1993.7 | 4.8 | B3/2500 | | |
| BM | (30°-60°) | 4410.3 | 10.6 | B3/5000 | | |
| BH | (60°-80°) | 2704.3 | 6.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 337.9 | 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° | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 |
| 2.5° | 4458.3 | 4442.7 | 4440.5 | 4407.0 | 4389.1 | 4355.6 | 4342.2 | 4311.0 | 4273.0 | 4235.1 | 4199.3 |
| 5° | 4808.8 | 4808.8 | 4793.2 | 4746.3 | 4672.6 | 4596.7 | 4563.2 | 4503.0 | 4395.8 | 4308.7 | 4235.1 |
| 7.5° | 5168.3 | 5172.7 | 5141.5 | 5072.3 | 4967.3 | 4844.5 | 4813.3 | 4724.0 | 4572.2 | 4444.9 | 4335.5 |
| 10° | 5478.6 | 5478.6 | 5436.2 | 5342.4 | 5210.7 | 5076.7 | 5045.5 | 4945.0 | 4775.3 | 4616.8 | 4473.9 |
| 12.5° | 5715.2 | 5715.2 | 5659.4 | 5536.6 | 5393.7 | 5273.2 | 5237.5 | 5141.5 | 4983.0 | 4806.6 | 4625.8 |
| 15° | 5869.3 | 5858.1 | 5795.6 | 5657.2 | 5518.8 | 5413.8 | 5389.3 | 5308.9 | 5163.8 | 4985.2 | 4782.0 |
| 17.5° | 5876.0 | 5871.5 | 5811.2 | 5695.1 | 5574.6 | 5503.1 | 5487.5 | 5433.9 | 5320.1 | 5150.4 | 4936.1 |
| 20° | 5746.5 | 5755.4 | 5715.2 | 5632.6 | 5574.6 | 5543.3 | 5536.6 | 5518.8 | 5438.4 | 5279.9 | 5065.6 |
| 22.5° | 5608.1 | 5623.7 | 5585.7 | 5541.1 | 5536.6 | 5567.9 | 5572.3 | 5576.8 | 5525.5 | 5371.4 | 5175.0 |
| 25° | 5574.6 | 5585.7 | 5547.8 | 5507.6 | 5532.2 | 5614.8 | 5632.6 | 5650.5 | 5610.3 | 5480.8 | 5304.4 |
| 27.5° | 5744.2 | 5735.3 | 5661.6 | 5574.6 | 5590.2 | 5701.8 | 5726.4 | 5746.5 | 5726.4 | 5614.8 | 5465.2 |
| 30° | 6224.2 | 6195.2 | 6047.9 | 5793.4 | 5713.0 | 5791.1 | 5815.7 | 5871.5 | 5871.5 | 5788.9 | 5639.3 |
| 32.5° | 7027.9 | 6972.1 | 6702.0 | 6201.9 | 5922.8 | 5876.0 | 5900.5 | 5992.1 | 6038.9 | 5974.2 | 5811.2 |
| 35° | 8003.5 | 7945.5 | 7559.3 | 6887.3 | 6306.8 | 6045.6 | 6038.9 | 6141.6 | 6266.7 | 6121.5 | 5909.5 |
| 37.5° | 8983.6 | 8923.3 | 8459.0 | 7704.4 | 6867.2 | 6402.8 | 6362.6 | 6398.4 | 6451.9 | 6186.3 | 6045.6 |
| 40° | 9963.7 | 9892.2 | 9485.9 | 8617.5 | 7552.6 | 6876.1 | 6771.2 | 6610.5 | 6588.1 | 6398.4 | 6309.1 |
| 42.5° | 10934.8 | 10870.1 | 10664.7 | 9642.2 | 8374.1 | 7338.3 | 7177.5 | 6900.7 | 6985.5 | 6871.7 | 6793.5 |
| 45° | 11914.9 | 11919.4 | 11700.6 | 10791.9 | 9365.4 | 8191.1 | 7974.5 | 7541.4 | 7742.3 | 7699.9 | 7744.6 |
| 47.5° | 12783.3 | 12772.2 | 12694.0 | 11908.2 | 10595.5 | 9289.5 | 9010.4 | 8508.1 | 8851.9 | 9008.2 | 9349.7 |
| 50° | 13625.0 | 13618.3 | 13622.8 | 13174.0 | 12024.3 | 10595.5 | 10287.4 | 9760.5 | 10535.2 | 11077.7 | 11689.4 |
| 52.5° | 14830.6 | 14868.5 | 14598.4 | 14480.1 | 13761.2 | 12138.1 | 11798.8 | 11254.1 | 12524.4 | 13379.4 | 14573.8 |
| 55° | 16040.6 | 16009.3 | 15797.2 | 15920.0 | 15578.4 | 13964.3 | 13609.4 | 13176.3 | 14739.0 | 15674.4 | 17469.4 |
| 57.5° | 16752.7 | 16763.9 | 16980.5 | 17581.0 | 17822.1 | 16241.5 | 15920.0 | 15585.1 | 17228.3 | 17891.3 | 20045.7 |
| 60° | 17393.5 | 17444.8 | 18067.7 | 19201.8 | 19855.9 | 19038.8 | 18753.1 | 18427.1 | 19512.1 | 19775.6 | 22282.7 |
| 62.5° | 17594.4 | 17752.9 | 18840.1 | 20536.8 | 21838.4 | 22195.6 | 21840.6 | 21121.8 | 21686.6 | 21583.9 | 23798.5 |
| 65° | 16592.0 | 16808.6 | 18757.5 | 21036.9 | 23608.8 | 25191.6 | 24966.1 | 23631.1 | 23539.6 | 22921.2 | 24046.3 |
| 67.5° | 13953.2 | 14169.7 | 16672.4 | 19987.6 | 24341.0 | 27785.8 | 27560.3 | 25461.8 | 24664.8 | 23046.2 | 22171.0 |
| 70° | 10209.3 | 10345.4 | 12738.7 | 16828.6 | 22869.8 | 28656.5 | 28734.6 | 26354.8 | 24262.9 | 21347.2 | 18203.9 |
| 72.5° | 5882.7 | 6184.0 | 7860.7 | 11839.0 | 18683.9 | 26455.2 | 26997.7 | 24497.3 | 21722.3 | 17808.7 | 12727.5 |
| 75° | 2529.4 | 2536.1 | 3634.5 | 6530.1 | 12653.9 | 21264.6 | 21789.3 | 20306.9 | 17058.6 | 12314.5 | 6795.8 |
| 77.5° | 1203.3 | 1225.6 | 1598.5 | 2915.7 | 6965.4 | 14692.1 | 16107.5 | 14346.1 | 10910.3 | 5916.1 | 2567.4 |
| 80° | 781.4 | 797.0 | 977.8 | 1446.7 | 3415.7 | 8519.3 | 9506.0 | 8275.9 | 4813.3 | 2114.2 | 1107.3 |
| 82.5° | 473.3 | 477.8 | 654.1 | 884.1 | 1879.8 | 3857.8 | 4547.6 | 3592.1 | 2053.9 | 1265.8 | 651.9 |
| 85° | 288.0 | 290.2 | 397.4 | 547.0 | 1140.8 | 1332.8 | 1368.5 | 1357.4 | 1205.6 | 828.3 | 348.3 |
| 87.5° | 138.4 | 142.9 | 205.4 | 259.0 | 448.7 | 413.0 | 390.7 | 453.2 | 569.3 | 446.5 | 149.6 |
| 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° | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 | 4188.2 |
| 2.5° | 4183.7 | 4177.0 | 4161.4 | 4154.7 | 4150.2 | 4152.5 | 4150.2 | 4150.2 | 4152.5 | 4152.5 | 4152.5 |
| 5° | 4203.8 | 4192.7 | 4168.1 | 4168.1 | 4181.5 | 4212.7 | 4241.8 | 4264.1 | 4288.6 | 4286.4 | 4286.4 |
| 7.5° | 4290.9 | 4270.8 | 4241.8 | 4250.7 | 4284.2 | 4333.3 | 4384.6 | 4433.8 | 4482.9 | 4487.3 | 4485.1 |
| 10° | 4418.1 | 4398.0 | 4366.8 | 4377.9 | 4431.5 | 4505.2 | 4569.9 | 4641.4 | 4695.0 | 4710.6 | 4706.1 |
| 12.5° | 4563.2 | 4523.1 | 4496.3 | 4527.5 | 4612.4 | 4710.6 | 4773.1 | 4826.7 | 4864.6 | 4887.0 | 4878.0 |
| 15° | 4710.6 | 4672.6 | 4641.4 | 4706.1 | 4808.8 | 4900.4 | 4931.6 | 4940.5 | 4947.2 | 4969.6 | 4965.1 |
| 17.5° | 4853.5 | 4802.1 | 4791.0 | 4875.8 | 4974.0 | 5014.2 | 4996.4 | 4958.4 | 4929.4 | 4947.2 | 4945.0 |
| 20° | 4980.7 | 4940.5 | 4936.1 | 5020.9 | 5058.9 | 5020.9 | 4945.0 | 4878.0 | 4826.7 | 4831.1 | 4828.9 |
| 22.5° | 5101.3 | 5070.0 | 5074.5 | 5110.2 | 5049.9 | 4920.4 | 4795.4 | 4703.9 | 4648.1 | 4659.2 | 4665.9 |
| 25° | 5235.2 | 5204.0 | 5215.1 | 5157.1 | 4958.4 | 4732.9 | 4552.1 | 4473.9 | 4451.6 | 4473.9 | 4489.6 |
| 27.5° | 5409.4 | 5389.3 | 5382.6 | 5159.3 | 4795.4 | 4456.1 | 4250.7 | 4221.7 | 4241.8 | 4290.9 | 4315.4 |
| 30° | 5596.9 | 5596.9 | 5561.2 | 5121.4 | 4572.2 | 4123.4 | 3944.8 | 3949.3 | 4018.5 | 4087.7 | 4112.3 |
| 32.5° | 5777.7 | 5815.7 | 5704.1 | 5018.7 | 4284.2 | 3799.7 | 3663.5 | 3668.0 | 3728.3 | 3813.1 | 3835.4 |
| 35° | 5927.3 | 6036.7 | 5826.8 | 4831.1 | 3944.8 | 3527.4 | 3424.7 | 3364.4 | 3366.6 | 3431.4 | 3449.2 |
| 37.5° | 6132.7 | 6335.9 | 5898.3 | 4552.1 | 3583.2 | 3295.2 | 3179.1 | 3074.2 | 3005.0 | 2978.2 | 2978.2 |
| 40° | 6489.9 | 6789.1 | 5916.1 | 4139.1 | 3241.6 | 3074.2 | 2909.0 | 2783.9 | 2650.0 | 2529.4 | 2507.1 |
| 42.5° | 7094.9 | 7472.2 | 5880.4 | 3663.5 | 2933.5 | 2830.8 | 2670.1 | 2516.0 | 2330.7 | 2161.1 | 2147.7 |
| 45° | 8166.5 | 8360.7 | 5784.4 | 3170.2 | 2658.9 | 2596.4 | 2440.1 | 2272.7 | 2076.2 | 1924.4 | 1913.3 |
| 47.5° | 9883.3 | 9608.7 | 5657.2 | 2732.6 | 2408.9 | 2391.0 | 2270.5 | 2076.2 | 1879.8 | 1774.8 | 1763.7 |
| 50° | 12390.4 | 11573.3 | 5639.3 | 2415.6 | 2208.0 | 2216.9 | 2118.7 | 1940.0 | 1768.1 | 1681.1 | 1667.7 |
| 52.5° | 15408.8 | 13946.5 | 5757.6 | 2192.3 | 2031.6 | 2065.1 | 2016.0 | 1850.7 | 1698.9 | 1625.3 | 1611.9 |
| 55° | 18337.8 | 16080.8 | 5829.1 | 2018.2 | 1866.4 | 1928.9 | 1935.6 | 1797.2 | 1658.8 | 1585.1 | 1576.2 |
| 57.5° | 20715.4 | 17688.2 | 5512.1 | 1859.7 | 1723.5 | 1819.5 | 1868.6 | 1765.9 | 1638.7 | 1582.8 | 1573.9 |
| 60° | 22369.7 | 18447.2 | 4610.1 | 1719.0 | 1618.6 | 1732.4 | 1844.1 | 1768.1 | 1687.8 | 1694.5 | 1698.9 |
| 62.5° | 22896.6 | 18110.1 | 3458.2 | 1614.1 | 1547.1 | 1703.4 | 1884.2 | 1859.7 | 1777.1 | 1828.4 | 1837.4 |
| 65° | 22023.7 | 16717.0 | 2507.1 | 1531.5 | 1484.6 | 1723.5 | 2004.8 | 1926.7 | 1745.8 | 1783.8 | 1783.8 |
| 67.5° | 19101.3 | 14401.9 | 1951.2 | 1455.6 | 1413.2 | 1761.4 | 2125.3 | 1920.0 | 1672.1 | 1716.8 | 1676.6 |
| 70° | 15152.0 | 11140.2 | 1625.3 | 1370.8 | 1337.3 | 1705.6 | 2136.5 | 1850.7 | 1585.1 | 1594.0 | 1518.1 |
| 72.5° | 10055.2 | 7324.9 | 1397.6 | 1290.4 | 1221.2 | 1533.7 | 2045.0 | 1761.4 | 1500.2 | 1448.9 | 1373.0 |
| 75° | 4927.1 | 3652.4 | 1218.9 | 1189.9 | 1069.4 | 1335.0 | 1920.0 | 1676.6 | 1408.7 | 1328.3 | 1285.9 |
| 77.5° | 1908.8 | 1553.8 | 1040.3 | 1062.7 | 931.0 | 1176.5 | 1754.8 | 1556.1 | 1288.2 | 1178.8 | 1145.3 |
| 80° | 926.5 | 881.8 | 852.8 | 886.3 | 765.8 | 1002.4 | 1602.9 | 1451.1 | 1176.5 | 1056.0 | 1006.9 |
| 82.5° | 576.0 | 544.7 | 654.1 | 689.8 | 589.4 | 915.3 | 1520.3 | 1361.8 | 1035.9 | 875.1 | 835.0 |
| 85° | 292.5 | 312.6 | 437.6 | 471.1 | 421.9 | 727.8 | 1252.4 | 1022.5 | 747.9 | 620.6 | 625.1 |
| 87.5° | 111.6 | 149.6 | 229.9 | 247.8 | 225.5 | 384.0 | 689.8 | 596.1 | 480.0 | 325.9 | 301.4 |
| 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)