

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: P457727

Luminaire Tested: **GALN-SA9A-750-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41366 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

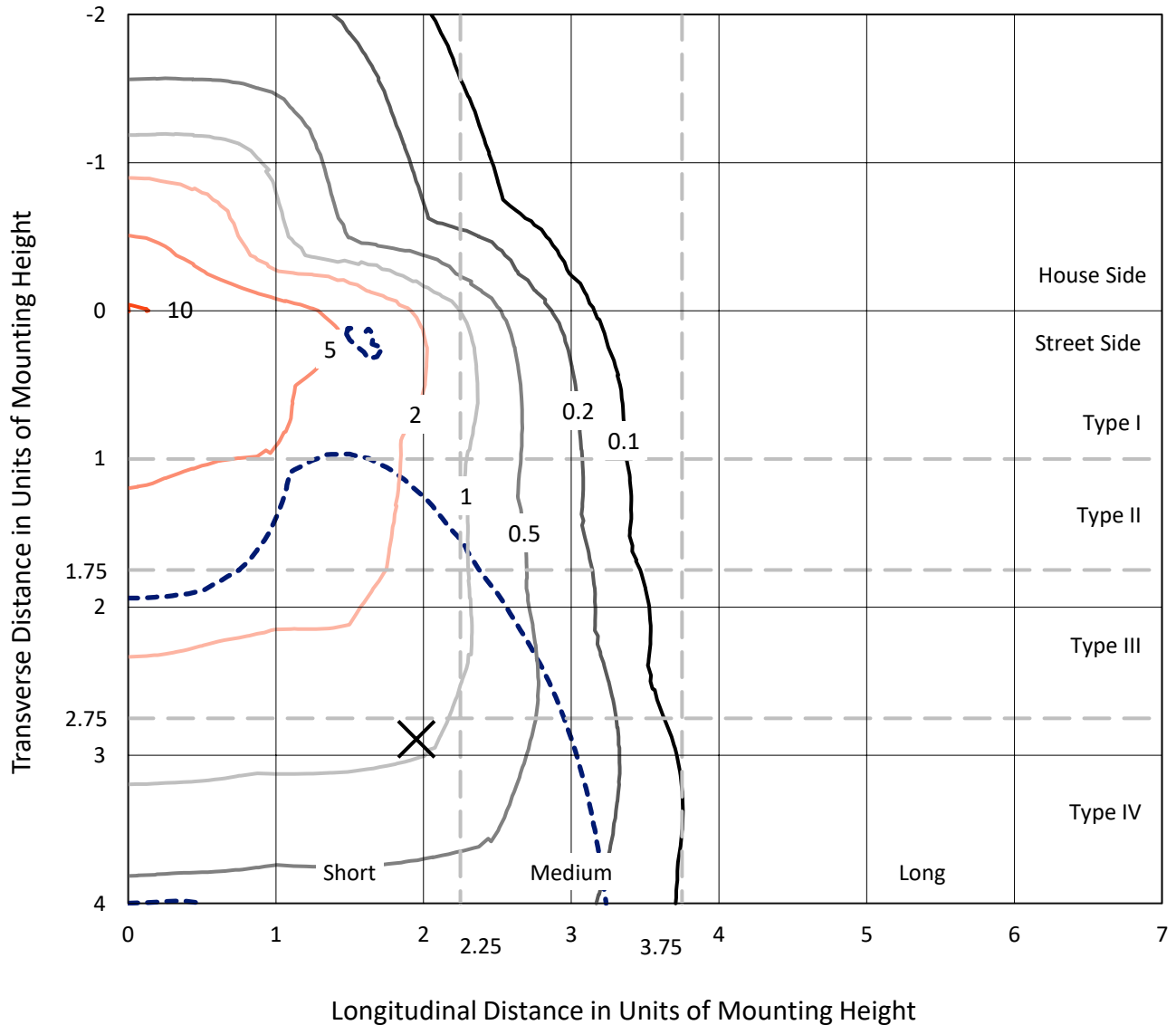
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

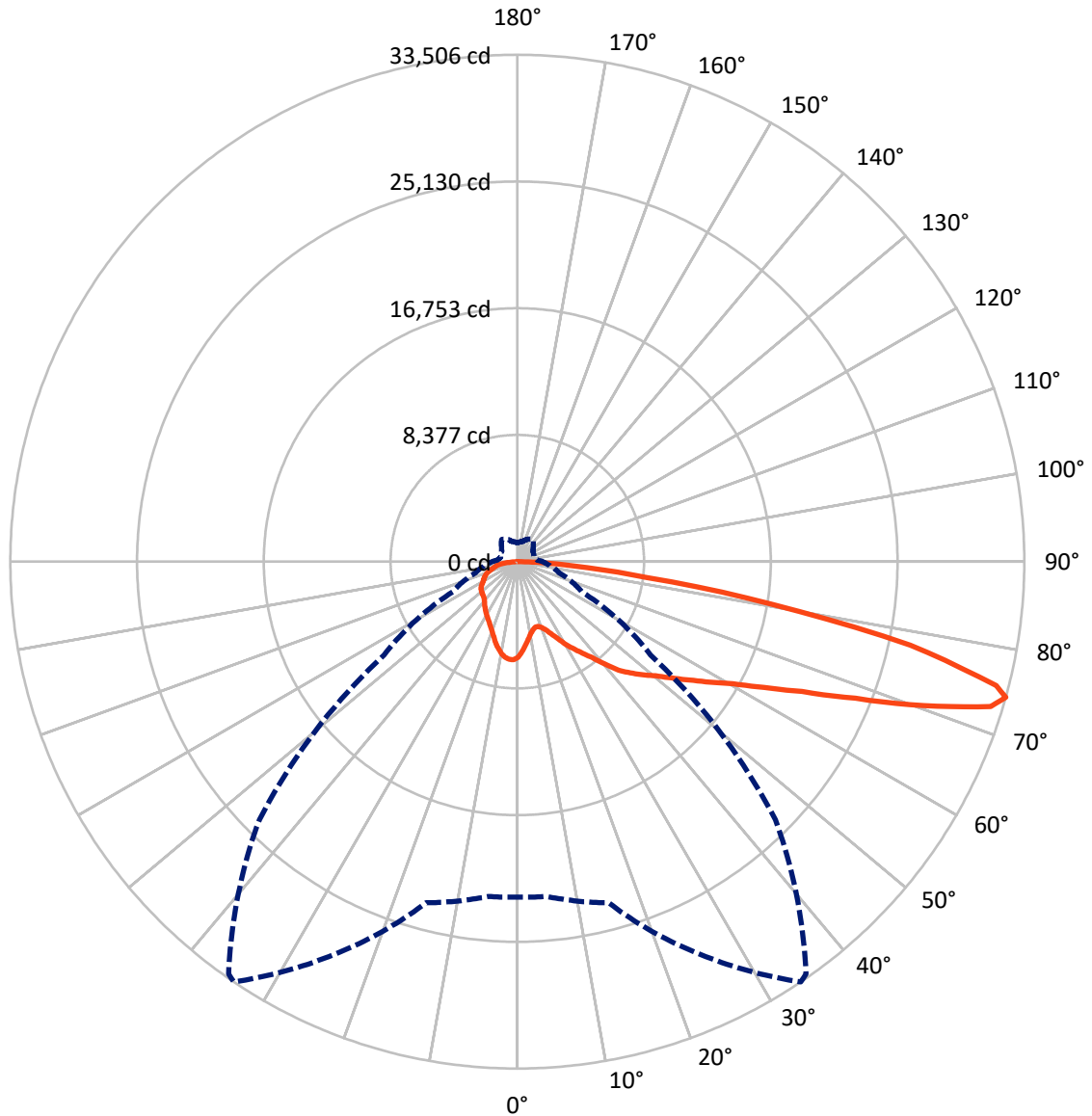
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8803.0 | 0.0 | 8803.0 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 32563.0 | 0.0 | 32563.0 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 41366.0 | 0.0 | 41366.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 574.4 | 1.4 |
| 10°-20° | 1572.4 | 3.8 |
| 20°-30° | 2592.4 | 6.3 |
| 30°-40° | 3883.2 | 9.4 |
| 40°-50° | 5645.1 | 13.6 |
| 50°-60° | 7884.8 | 19.1 |
| 60°-70° | 9871.4 | 23.9 |
| 70°-80° | 8162.8 | 19.7 |
| 80°-90° | 1179.5 | 2.9 |
| 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° | 41366.0 | 100.0 |
| 0°-180° | 41366.0 | 100.0 |

Coefficient of Utilization



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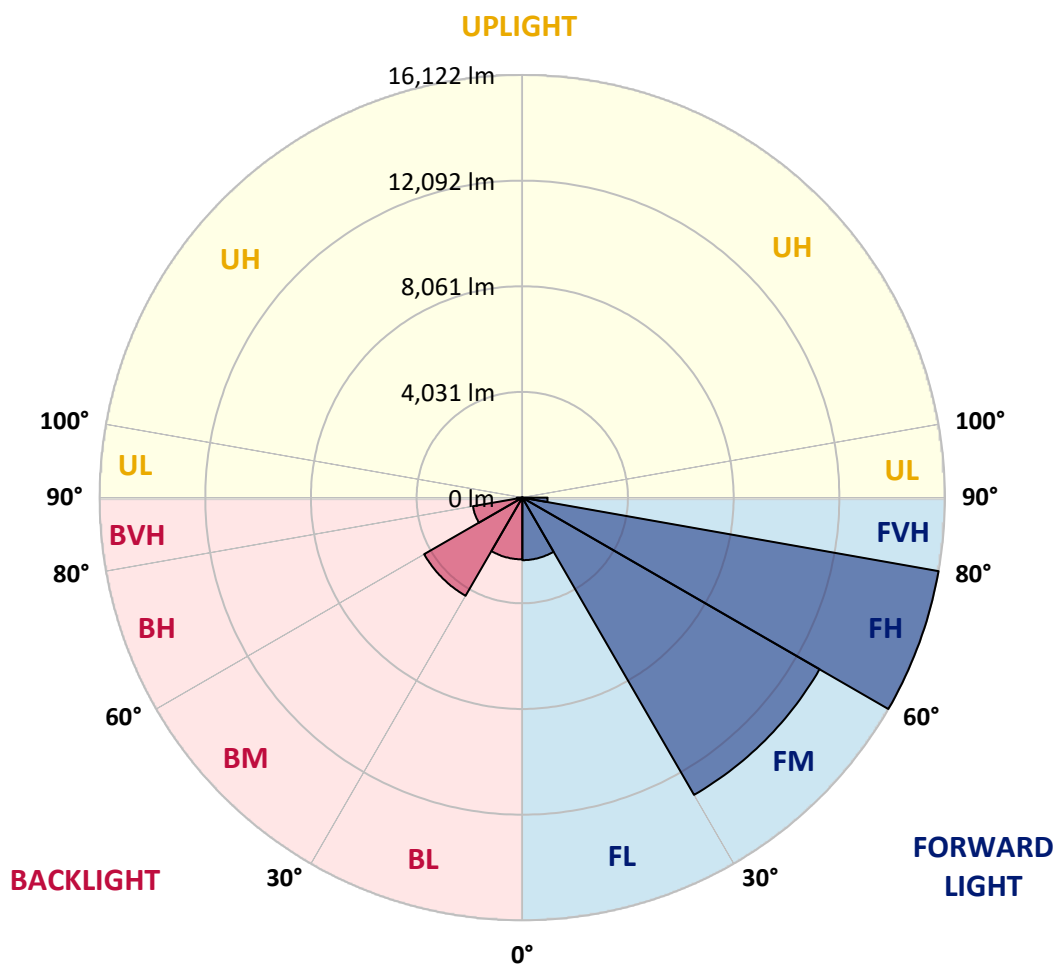
CATALOG NUMBER: GALN-SA9A-750-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2384.6 | 5.8 | | | |
| FM | (30°-60°) | 13089.9 | 31.6 | | | |
| FH | (60°-80°) | 16122.3 | 39.0 | | | G5 |
| FVH | (80°-90°) | 966.3 | 2.3 | | | G5 |
| BL | (0°-30°) | 2354.7 | 5.7 | B3/2500 | | |
| BM | (30°-60°) | 4323.2 | 10.5 | B3/5000 | | |
| BH | (60°-80°) | 1911.9 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 213.2 | 0.5 | | | G2/225 |
| 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° | 34° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 |
| 2.5° | 5836.8 | 5866.6 | 5882.6 | 5939.9 | 5953.7 | 5972.0 | 6020.1 | 6084.3 | 6166.8 | 6240.1 | 6304.3 |
| 5° | 5351.0 | 5396.8 | 5424.3 | 5474.7 | 5573.3 | 5582.4 | 5710.8 | 5857.4 | 6024.7 | 6180.6 | 6308.9 |
| 7.5° | 4890.4 | 4940.8 | 4963.7 | 5055.4 | 5186.0 | 5206.6 | 5394.5 | 5626.0 | 5905.6 | 6141.6 | 6338.7 |
| 10° | 4544.3 | 4569.5 | 4620.0 | 4688.7 | 4844.5 | 4858.3 | 5103.5 | 5412.9 | 5774.9 | 6123.3 | 6389.1 |
| 12.5° | 4356.4 | 4370.2 | 4381.6 | 4455.0 | 4608.5 | 4629.1 | 4885.8 | 5236.4 | 5671.8 | 6137.0 | 6471.6 |
| 15° | 4383.9 | 4388.5 | 4338.1 | 4351.8 | 4475.6 | 4505.4 | 4759.7 | 5119.5 | 5607.7 | 6171.4 | 6595.4 |
| 17.5° | 4615.4 | 4599.3 | 4475.6 | 4411.4 | 4498.5 | 4512.2 | 4734.5 | 5073.7 | 5577.9 | 6235.6 | 6723.7 |
| 20° | 4979.7 | 4956.8 | 4743.7 | 4601.6 | 4652.0 | 4663.5 | 4817.0 | 5108.1 | 5607.7 | 6341.0 | 6923.1 |
| 22.5° | 5433.5 | 5424.3 | 5101.2 | 4929.3 | 4927.0 | 4927.0 | 5007.2 | 5231.8 | 5697.0 | 6485.4 | 7131.6 |
| 25° | 6068.3 | 6020.1 | 5598.5 | 5376.2 | 5314.3 | 5309.7 | 5300.6 | 5435.8 | 5811.6 | 6638.9 | 7379.1 |
| 27.5° | 6719.1 | 6636.6 | 6260.8 | 5919.3 | 5786.4 | 5770.4 | 5710.8 | 5724.5 | 5958.3 | 6813.1 | 7661.0 |
| 30° | 7303.5 | 7250.8 | 6897.8 | 6519.7 | 6361.6 | 6324.9 | 6159.9 | 6084.3 | 6203.5 | 7127.0 | 8110.1 |
| 32.5° | 7750.3 | 7718.3 | 7443.3 | 7099.5 | 6865.8 | 6858.9 | 6618.3 | 6556.4 | 6586.2 | 7507.4 | 8623.5 |
| 35° | 8112.4 | 8123.9 | 7984.1 | 7686.2 | 7418.1 | 7379.1 | 7218.7 | 7140.8 | 7053.7 | 8057.4 | 9269.7 |
| 37.5° | 8607.4 | 8632.6 | 8623.5 | 8366.8 | 8039.1 | 8048.3 | 8011.6 | 7883.3 | 7651.8 | 8671.6 | 9987.0 |
| 40° | 9152.8 | 9171.2 | 9168.9 | 9070.3 | 8898.5 | 8907.6 | 8893.9 | 8747.2 | 8401.2 | 9453.0 | 10784.5 |
| 42.5° | 9906.8 | 9819.7 | 9592.8 | 9691.4 | 9792.2 | 9835.7 | 9929.7 | 9789.9 | 9315.5 | 10287.2 | 11533.8 |
| 45° | 10750.1 | 10585.1 | 10071.8 | 10117.6 | 10491.1 | 10573.6 | 11091.6 | 10899.1 | 10307.8 | 11245.1 | 12416.1 |
| 47.5° | 11281.8 | 11119.1 | 10685.9 | 10676.8 | 11171.8 | 11252.0 | 12168.6 | 12097.6 | 11210.7 | 12278.6 | 13493.2 |
| 50° | 11756.1 | 11733.2 | 11245.1 | 11362.0 | 11845.5 | 11964.7 | 13341.9 | 13275.5 | 12111.3 | 13497.8 | 14666.5 |
| 52.5° | 12459.7 | 12274.0 | 11884.5 | 12125.1 | 12764.5 | 12920.3 | 14506.1 | 14311.3 | 12938.6 | 14574.9 | 15805.5 |
| 55° | 12775.9 | 12732.4 | 12709.5 | 12918.0 | 13795.7 | 13908.0 | 15638.2 | 15191.3 | 13644.4 | 15486.9 | 16671.7 |
| 57.5° | 13621.5 | 13541.3 | 13768.2 | 13910.3 | 15010.3 | 15182.1 | 16820.7 | 16110.3 | 14263.2 | 16211.1 | 17093.4 |
| 60° | 14716.9 | 14673.4 | 14881.9 | 15138.6 | 16366.9 | 16628.2 | 18168.2 | 16894.0 | 14760.5 | 16575.5 | 16861.9 |
| 62.5° | 16353.2 | 16348.6 | 16309.6 | 16859.6 | 18289.6 | 18530.2 | 19715.0 | 17657.1 | 14838.4 | 16302.8 | 15665.7 |
| 65° | 18699.8 | 18617.3 | 18278.2 | 18878.6 | 20682.1 | 20964.0 | 21326.0 | 18083.4 | 14368.6 | 14902.6 | 13190.7 |
| 67.5° | 21154.2 | 21149.6 | 20874.6 | 21653.7 | 24117.3 | 24408.3 | 23340.4 | 17989.4 | 13064.7 | 12072.4 | 9368.2 |
| 70° | 23189.1 | 23090.6 | 23441.2 | 25517.5 | 28505.8 | 28842.6 | 25102.7 | 16882.5 | 10406.4 | 7972.6 | 5566.4 |
| 72.5° | 23677.3 | 23681.8 | 24410.6 | 28496.6 | 32720.1 | 32772.8 | 25737.5 | 13683.4 | 6964.3 | 4397.7 | 2784.3 |
| 74° | 22173.9 | 22212.9 | 23342.7 | 28645.5 | 33506.1 | 33267.8 | 24115.0 | 10754.7 | 4709.3 | 2871.4 | 2007.5 |
| 75° | 20239.8 | 19994.6 | 21628.5 | 27653.3 | 32690.3 | 32433.6 | 22215.2 | 8630.3 | 3593.3 | 2293.9 | 1757.7 |
| 77.5° | 10821.1 | 11070.9 | 13591.7 | 20636.3 | 26557.9 | 26262.2 | 15063.0 | 4138.7 | 1941.0 | 1597.3 | 1265.0 |
| 80° | 3852.3 | 4248.7 | 5972.0 | 10798.2 | 17026.9 | 17118.6 | 7188.9 | 1897.5 | 1365.8 | 1177.9 | 893.7 |
| 82.5° | 1572.1 | 1615.6 | 2564.3 | 4791.8 | 8646.4 | 8728.9 | 2935.6 | 1127.5 | 976.2 | 811.2 | 534.0 |
| 85° | 614.2 | 632.5 | 1134.4 | 2154.1 | 3689.5 | 3930.2 | 1015.2 | 595.8 | 600.4 | 465.2 | 272.7 |
| 87.5° | 206.2 | 233.7 | 465.2 | 717.3 | 1253.5 | 1228.3 | 295.6 | 176.5 | 215.4 | 201.7 | 84.8 |
| 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° | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 | 6315.8 |
| 2.5° | 6336.4 | 6379.9 | 6409.7 | 6441.8 | 6471.6 | 6480.8 | 6473.9 | 6494.5 | 6496.8 | 6499.1 | 6501.4 |
| 5° | 6373.1 | 6432.6 | 6489.9 | 6522.0 | 6535.8 | 6524.3 | 6485.4 | 6464.7 | 6446.4 | 6432.6 | 6437.2 |
| 7.5° | 6423.5 | 6508.3 | 6561.0 | 6574.7 | 6538.1 | 6485.4 | 6389.1 | 6313.5 | 6265.4 | 6233.3 | 6231.0 |
| 10° | 6501.4 | 6583.9 | 6627.4 | 6588.5 | 6487.6 | 6359.3 | 6208.1 | 6066.0 | 5958.3 | 5926.2 | 5923.9 |
| 12.5° | 6599.9 | 6693.9 | 6691.6 | 6577.0 | 6400.6 | 6171.4 | 5926.2 | 5761.2 | 5614.5 | 5541.2 | 5571.0 |
| 15° | 6728.3 | 6799.3 | 6732.8 | 6526.6 | 6247.0 | 5933.1 | 5630.6 | 5406.0 | 5241.0 | 5163.1 | 5167.7 |
| 17.5° | 6877.2 | 6939.1 | 6762.6 | 6437.2 | 6031.6 | 5628.3 | 5277.7 | 5064.5 | 4933.9 | 4876.6 | 4872.0 |
| 20° | 7062.8 | 7081.2 | 6762.6 | 6281.4 | 5754.3 | 5273.1 | 4938.5 | 4789.5 | 4716.2 | 4686.4 | 4695.6 |
| 22.5° | 7262.2 | 7225.6 | 6726.0 | 6061.4 | 5389.9 | 4901.8 | 4677.2 | 4610.8 | 4574.1 | 4569.5 | 4574.1 |
| 25° | 7486.8 | 7383.7 | 6650.4 | 5763.5 | 5009.5 | 4581.0 | 4450.4 | 4461.8 | 4468.7 | 4468.7 | 4484.7 |
| 27.5° | 7761.8 | 7555.5 | 6524.3 | 5387.7 | 4565.0 | 4283.1 | 4246.4 | 4326.6 | 4363.3 | 4370.2 | 4381.6 |
| 30° | 8123.9 | 7743.5 | 6315.8 | 4917.9 | 4186.8 | 4015.0 | 4079.1 | 4186.8 | 4228.1 | 4253.3 | 4248.7 |
| 32.5° | 8554.7 | 7949.7 | 6033.9 | 4448.1 | 3882.0 | 3827.0 | 3905.0 | 4015.0 | 4060.8 | 4074.5 | 4056.2 |
| 35° | 9061.2 | 8183.5 | 5662.7 | 4008.1 | 3616.2 | 3648.3 | 3740.0 | 3774.3 | 3815.6 | 3815.6 | 3824.8 |
| 37.5° | 9606.6 | 8371.4 | 5208.9 | 3604.8 | 3410.0 | 3526.8 | 3593.3 | 3561.2 | 3542.9 | 3520.0 | 3531.4 |
| 40° | 10161.1 | 8511.2 | 4620.0 | 3206.0 | 3203.7 | 3400.8 | 3419.1 | 3327.5 | 3254.1 | 3231.2 | 3219.8 |
| 42.5° | 10644.7 | 8598.2 | 4088.3 | 2896.6 | 3008.9 | 3277.1 | 3290.8 | 3144.1 | 3027.3 | 2958.5 | 2935.6 |
| 45° | 11215.3 | 8699.1 | 3568.1 | 2640.0 | 2827.9 | 3178.5 | 3212.9 | 3015.8 | 2843.9 | 2699.6 | 2662.9 |
| 47.5° | 11996.8 | 8928.2 | 3157.9 | 2440.6 | 2697.3 | 3116.6 | 3164.8 | 2910.4 | 2683.5 | 2495.6 | 2465.8 |
| 50° | 12879.0 | 9242.2 | 2839.3 | 2305.4 | 2596.4 | 3061.6 | 3121.2 | 2802.7 | 2534.6 | 2326.0 | 2303.1 |
| 52.5° | 13688.0 | 9411.8 | 2564.3 | 2183.9 | 2497.9 | 2960.8 | 3063.9 | 2724.8 | 2387.9 | 2156.4 | 2135.8 |
| 55° | 14130.3 | 9136.8 | 2293.9 | 2064.8 | 2362.7 | 2830.2 | 2983.7 | 2617.1 | 2245.8 | 2067.1 | 2037.3 |
| 57.5° | 14189.9 | 8568.5 | 2048.7 | 1936.4 | 2220.6 | 2669.8 | 2834.8 | 2486.4 | 2154.1 | 2005.2 | 1980.0 |
| 60° | 13729.2 | 7720.5 | 1858.5 | 1831.0 | 2076.2 | 2488.7 | 2667.5 | 2371.9 | 2060.2 | 1936.4 | 1911.2 |
| 62.5° | 12583.4 | 6799.3 | 1725.6 | 1734.8 | 1929.6 | 2298.5 | 2543.7 | 2261.9 | 1970.8 | 1860.8 | 1837.9 |
| 65° | 10612.6 | 5612.2 | 1597.3 | 1636.2 | 1798.9 | 2149.6 | 2431.4 | 2170.2 | 1881.4 | 1803.5 | 1782.9 |
| 67.5° | 7372.2 | 4051.6 | 1491.9 | 1533.1 | 1675.2 | 1998.3 | 2300.8 | 2071.6 | 1780.6 | 1739.4 | 1707.3 |
| 70° | 4081.4 | 2493.3 | 1368.1 | 1416.2 | 1546.9 | 1828.7 | 2154.1 | 1922.7 | 1633.9 | 1615.6 | 1569.8 |
| 72.5° | 2145.0 | 1588.1 | 1228.3 | 1281.0 | 1372.7 | 1611.0 | 1929.6 | 1760.0 | 1489.6 | 1411.7 | 1352.1 |
| 74° | 1675.2 | 1301.7 | 1134.4 | 1189.4 | 1251.2 | 1482.7 | 1796.6 | 1643.1 | 1386.4 | 1294.8 | 1248.9 |
| 75° | 1459.8 | 1159.6 | 1054.2 | 1125.2 | 1180.2 | 1395.6 | 1693.5 | 1560.6 | 1329.2 | 1242.1 | 1200.8 |
| 77.5° | 1031.2 | 868.5 | 861.7 | 946.4 | 976.2 | 1223.7 | 1526.2 | 1420.8 | 1184.8 | 1093.1 | 1054.2 |
| 80° | 724.2 | 650.8 | 682.9 | 735.6 | 776.9 | 1081.7 | 1416.2 | 1228.3 | 971.7 | 863.9 | 850.2 |
| 82.5° | 472.1 | 426.2 | 488.1 | 536.2 | 550.0 | 797.5 | 1143.5 | 932.7 | 708.1 | 575.2 | 534.0 |
| 85° | 217.7 | 213.1 | 279.6 | 272.7 | 270.4 | 389.6 | 678.3 | 545.4 | 407.9 | 304.8 | 286.5 |
| 87.5° | 55.0 | 52.7 | 68.7 | 57.3 | 68.7 | 59.6 | 61.9 | 16.0 | 2.3 | 0.0 | 0.0 |
| 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)