

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: P456799

Luminaire Tested: **GALN-SA8A-750-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456799
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-SA8A-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 36847 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

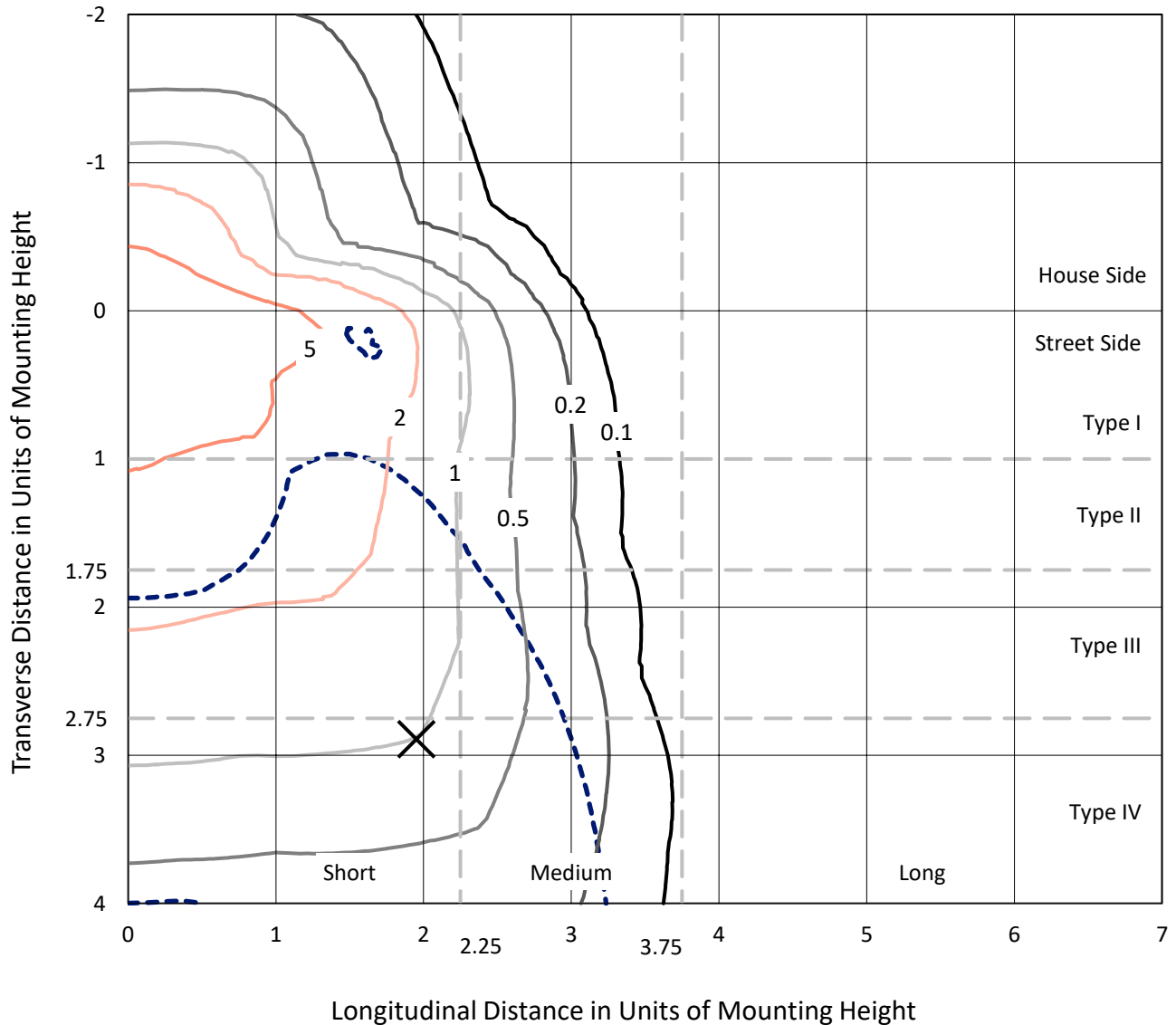
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

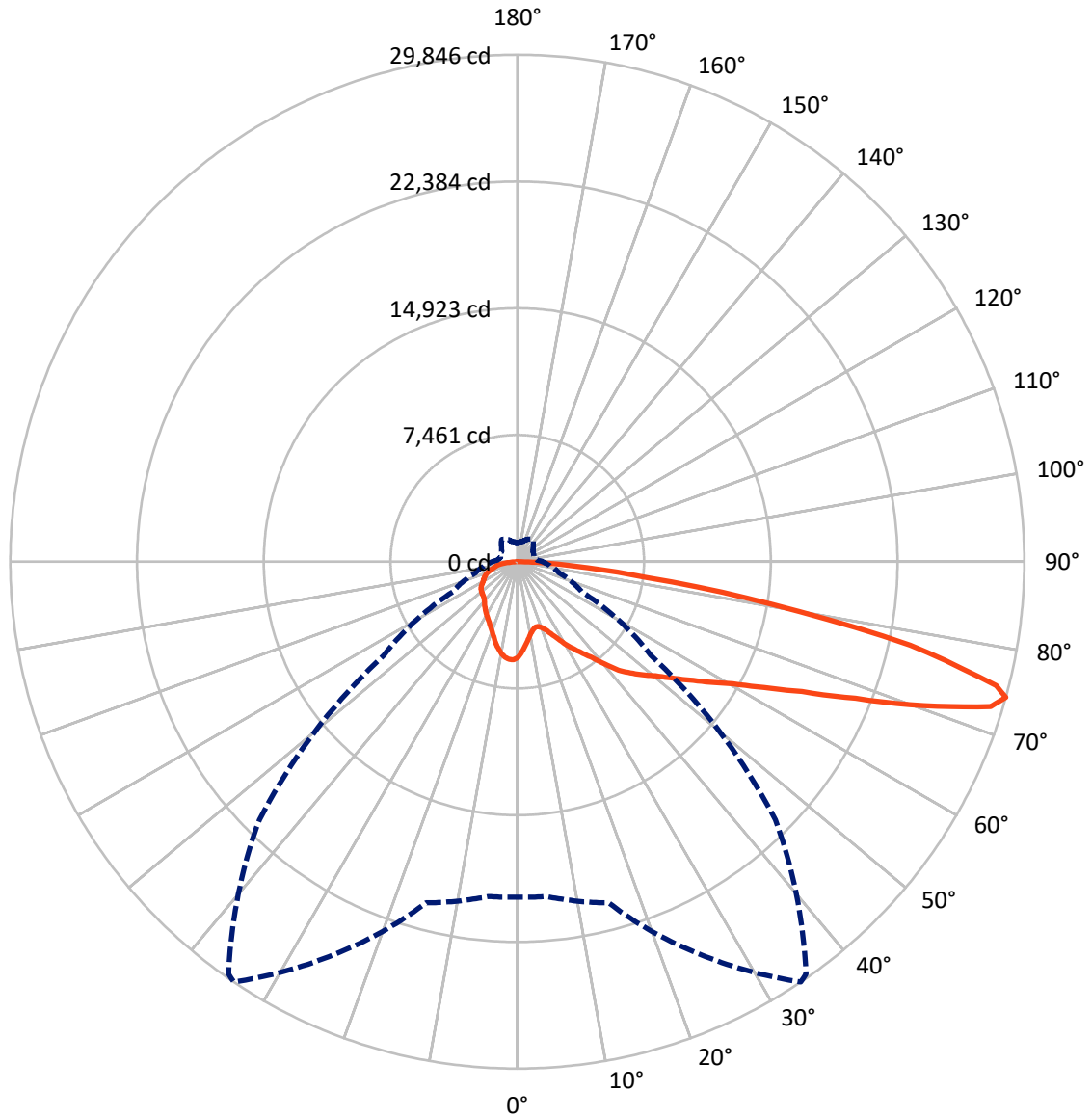
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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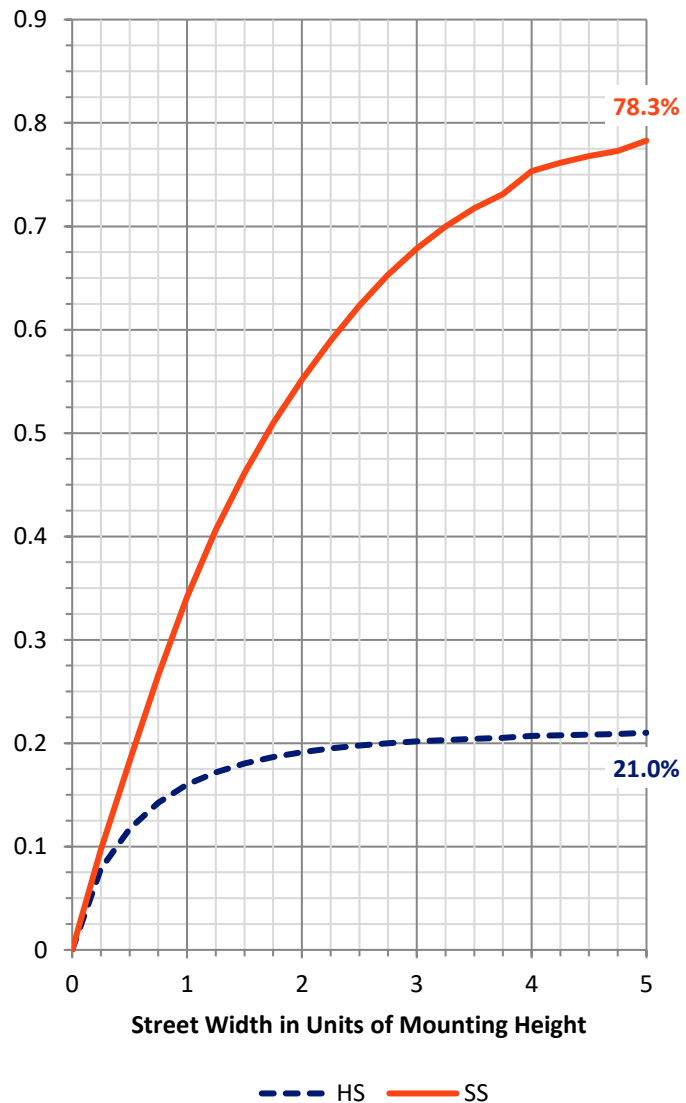
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7841.3 | 0.0 | 7841.3 |
| | % Fixture | 21.3 | 0.0 | 21.3 |
| Street Side | Lumens | 29005.7 | 0.0 | 29005.7 |
| | % Fixture | 78.7 | 0.0 | 78.7 |
| Total | Lumens | 36847.0 | 0.0 | 36847.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 511.6 | 1.4 |
| 10°-20° | 1400.6 | 3.8 |
| 20°-30° | 2309.2 | 6.3 |
| 30°-40° | 3459.0 | 9.4 |
| 40°-50° | 5028.4 | 13.6 |
| 50°-60° | 7023.5 | 19.1 |
| 60°-70° | 8793.0 | 23.9 |
| 70°-80° | 7271.1 | 19.7 |
| 80°-90° | 1050.6 | 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° | 36847.0 | 100.0 |
| 0°-180° | 36847.0 | 100.0 |

Coefficient of Utilization



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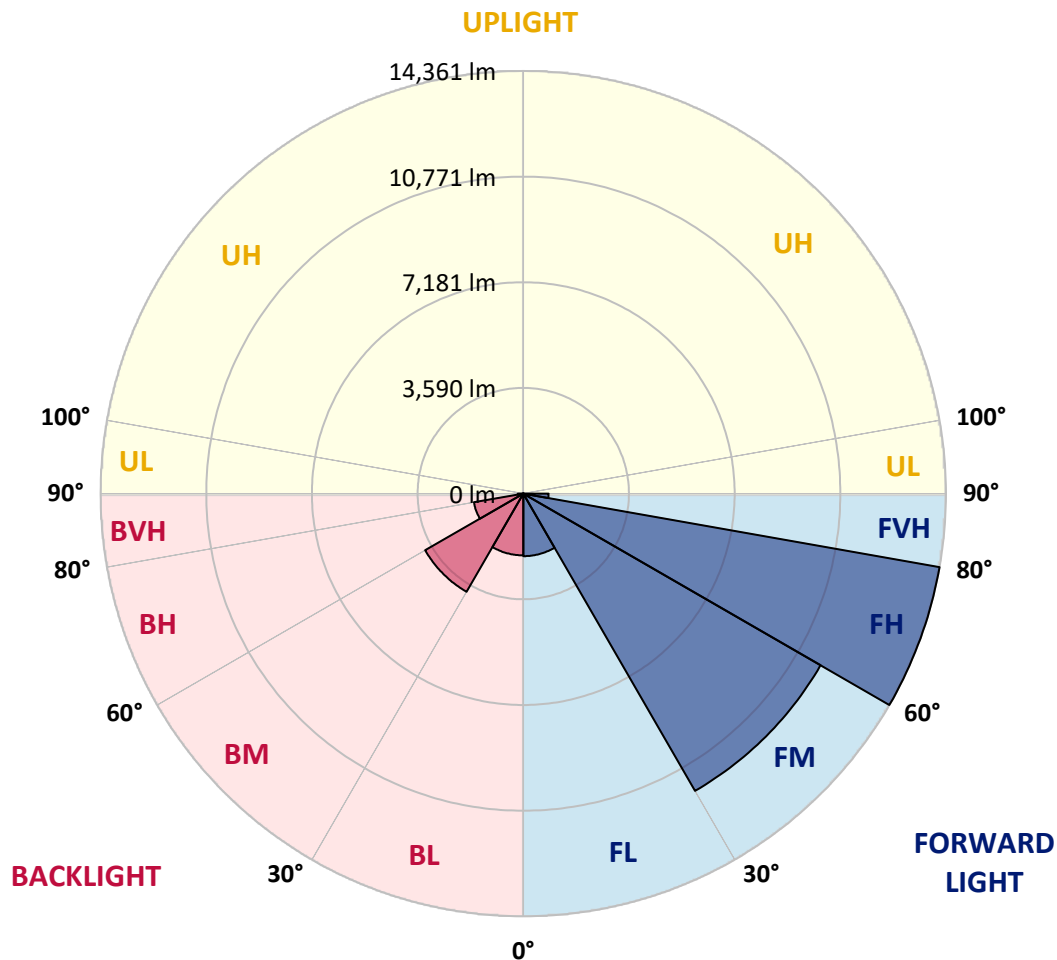
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2124.1 | 5.8 | | | |
| FM | (30°-60°) | 11659.9 | 31.6 | | | |
| FH | (60°-80°) | 14361.0 | 39.0 | | | G5 |
| FVH | (80°-90°) | 860.7 | 2.3 | | | G5 |
| BL | (0°-30°) | 2097.4 | 5.7 | B3/2500 | | |
| BM | (30°-60°) | 3850.9 | 10.5 | B3/5000 | | |
| BH | (60°-80°) | 1703.1 | 4.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 189.9 | 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° | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 |
| 2.5° | 5199.2 | 5225.7 | 5240.0 | 5291.0 | 5303.3 | 5319.6 | 5362.5 | 5419.6 | 5493.1 | 5558.4 | 5615.6 |
| 5° | 4766.4 | 4807.2 | 4831.7 | 4876.7 | 4964.4 | 4972.6 | 5086.9 | 5217.5 | 5366.6 | 5505.4 | 5619.7 |
| 7.5° | 4356.1 | 4401.0 | 4421.4 | 4503.1 | 4619.4 | 4637.8 | 4805.2 | 5011.4 | 5260.4 | 5470.7 | 5646.2 |
| 10° | 4047.9 | 4070.3 | 4115.3 | 4176.5 | 4315.3 | 4327.5 | 4546.0 | 4821.5 | 5144.1 | 5454.3 | 5691.1 |
| 12.5° | 3880.5 | 3892.7 | 3903.0 | 3968.3 | 4105.0 | 4123.4 | 4352.0 | 4664.4 | 5052.2 | 5466.6 | 5764.6 |
| 15° | 3905.0 | 3909.1 | 3864.2 | 3876.4 | 3986.6 | 4013.2 | 4239.8 | 4560.3 | 4995.0 | 5497.2 | 5874.8 |
| 17.5° | 4111.2 | 4096.9 | 3986.6 | 3929.5 | 4007.1 | 4019.3 | 4217.3 | 4519.4 | 4968.5 | 5554.4 | 5989.2 |
| 20° | 4435.7 | 4415.3 | 4225.5 | 4098.9 | 4143.8 | 4154.0 | 4290.8 | 4550.0 | 4995.0 | 5648.3 | 6166.8 |
| 22.5° | 4839.9 | 4831.7 | 4543.9 | 4390.8 | 4388.8 | 4388.8 | 4460.2 | 4660.3 | 5074.7 | 5776.9 | 6352.5 |
| 25° | 5405.3 | 5362.5 | 4986.9 | 4788.9 | 4733.8 | 4729.7 | 4721.5 | 4842.0 | 5176.7 | 5913.6 | 6573.0 |
| 27.5° | 5985.1 | 5911.6 | 5576.8 | 5272.7 | 5154.3 | 5140.0 | 5086.9 | 5099.2 | 5307.4 | 6068.8 | 6824.0 |
| 30° | 6505.6 | 6458.7 | 6144.3 | 5807.5 | 5666.6 | 5634.0 | 5487.0 | 5419.6 | 5525.8 | 6348.4 | 7224.1 |
| 32.5° | 6903.7 | 6875.1 | 6630.1 | 6323.9 | 6115.7 | 6109.6 | 5895.3 | 5840.1 | 5866.7 | 6687.3 | 7681.4 |
| 35° | 7226.2 | 7236.4 | 7111.9 | 6846.5 | 6607.7 | 6573.0 | 6430.1 | 6360.7 | 6283.1 | 7177.2 | 8257.0 |
| 37.5° | 7667.1 | 7689.6 | 7681.4 | 7452.8 | 7160.9 | 7169.0 | 7136.4 | 7022.1 | 6815.9 | 7724.3 | 8896.0 |
| 40° | 8152.9 | 8169.3 | 8167.2 | 8079.4 | 7926.3 | 7934.5 | 7922.3 | 7791.6 | 7483.4 | 8420.3 | 9606.3 |
| 42.5° | 8824.5 | 8746.9 | 8544.9 | 8632.6 | 8722.5 | 8761.2 | 8844.9 | 8720.4 | 8297.9 | 9163.4 | 10273.8 |
| 45° | 9575.7 | 9428.7 | 8971.5 | 9012.3 | 9345.0 | 9418.5 | 9879.9 | 9708.4 | 9181.7 | 10016.6 | 11059.7 |
| 47.5° | 10049.3 | 9904.4 | 9518.6 | 9510.4 | 9951.3 | 10022.8 | 10839.3 | 10776.0 | 9986.0 | 10937.3 | 12019.1 |
| 50° | 10471.8 | 10451.4 | 10016.6 | 10120.7 | 10551.5 | 10657.6 | 11884.4 | 11825.2 | 10788.2 | 12023.2 | 13064.3 |
| 52.5° | 11098.5 | 10933.2 | 10586.2 | 10800.5 | 11370.0 | 11508.8 | 12921.4 | 12747.9 | 11525.1 | 12982.6 | 14078.8 |
| 55° | 11380.2 | 11341.4 | 11321.0 | 11506.8 | 12288.6 | 12388.6 | 13929.8 | 13531.7 | 12153.9 | 13795.1 | 14850.4 |
| 57.5° | 12133.5 | 12062.0 | 12264.1 | 12390.7 | 13370.5 | 13523.6 | 14983.1 | 14350.3 | 12705.0 | 14440.1 | 15226.0 |
| 60° | 13109.2 | 13070.4 | 13256.2 | 13484.8 | 14578.9 | 14811.6 | 16183.4 | 15048.4 | 13148.0 | 14764.7 | 15019.8 |
| 62.5° | 14566.7 | 14562.6 | 14527.9 | 15017.8 | 16291.6 | 16505.9 | 17561.3 | 15728.2 | 13217.4 | 14521.8 | 13954.3 |
| 65° | 16657.0 | 16583.5 | 16281.4 | 16816.2 | 18422.7 | 18673.8 | 18996.3 | 16107.9 | 12798.9 | 13274.5 | 11749.7 |
| 67.5° | 18843.2 | 18839.1 | 18594.2 | 19288.2 | 21482.6 | 21741.8 | 20790.6 | 16024.2 | 11637.4 | 10753.5 | 8344.8 |
| 70° | 20655.9 | 20568.1 | 20880.4 | 22729.8 | 25391.7 | 25691.7 | 22360.3 | 15038.2 | 9269.5 | 7101.7 | 4958.3 |
| 72.5° | 21090.7 | 21094.7 | 21743.9 | 25383.5 | 29145.6 | 29192.6 | 22925.8 | 12188.6 | 6203.5 | 3917.2 | 2480.2 |
| 74° | 19751.6 | 19786.3 | 20792.6 | 25516.2 | 29845.8 | 29633.5 | 21480.5 | 9579.8 | 4194.9 | 2557.7 | 1788.2 |
| 75° | 18028.7 | 17810.3 | 19265.7 | 24632.3 | 29119.1 | 28890.4 | 19788.3 | 7687.5 | 3200.8 | 2043.3 | 1565.7 |
| 77.5° | 9639.0 | 9861.5 | 12106.9 | 18381.9 | 23656.6 | 23393.2 | 13417.4 | 3686.6 | 1729.0 | 1422.8 | 1126.8 |
| 80° | 3431.4 | 3784.6 | 5319.6 | 9618.6 | 15166.8 | 15248.5 | 6403.5 | 1690.2 | 1216.6 | 1049.2 | 796.1 |
| 82.5° | 1400.3 | 1439.1 | 2284.2 | 4268.3 | 7701.8 | 7775.3 | 2614.9 | 1004.3 | 869.6 | 722.6 | 475.6 |
| 85° | 547.1 | 563.4 | 1010.4 | 1918.8 | 3286.5 | 3500.8 | 904.3 | 530.7 | 534.8 | 414.4 | 242.9 |
| 87.5° | 183.7 | 208.2 | 414.4 | 638.9 | 1116.6 | 1094.1 | 263.3 | 157.2 | 191.9 | 179.6 | 75.5 |
| 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° | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 | 5625.8 |
| 2.5° | 5644.2 | 5683.0 | 5709.5 | 5738.1 | 5764.6 | 5772.8 | 5766.7 | 5785.0 | 5787.1 | 5789.1 | 5791.2 |
| 5° | 5676.8 | 5729.9 | 5780.9 | 5809.5 | 5821.8 | 5811.6 | 5776.9 | 5758.5 | 5742.2 | 5729.9 | 5734.0 |
| 7.5° | 5721.7 | 5797.3 | 5844.2 | 5856.5 | 5823.8 | 5776.9 | 5691.1 | 5623.8 | 5580.9 | 5552.3 | 5550.3 |
| 10° | 5791.2 | 5864.6 | 5903.4 | 5868.7 | 5778.9 | 5664.6 | 5529.9 | 5403.3 | 5307.4 | 5278.8 | 5276.7 |
| 12.5° | 5878.9 | 5962.6 | 5960.6 | 5858.5 | 5701.3 | 5497.2 | 5278.8 | 5131.8 | 5001.2 | 4935.9 | 4962.4 |
| 15° | 5993.2 | 6056.5 | 5997.3 | 5813.6 | 5564.6 | 5284.9 | 5015.5 | 4815.4 | 4668.4 | 4599.0 | 4603.1 |
| 17.5° | 6125.9 | 6181.0 | 6023.9 | 5734.0 | 5372.7 | 5013.4 | 4701.1 | 4511.3 | 4394.9 | 4343.9 | 4339.8 |
| 20° | 6291.3 | 6307.6 | 6023.9 | 5595.2 | 5125.7 | 4697.0 | 4399.0 | 4266.3 | 4201.0 | 4174.4 | 4182.6 |
| 22.5° | 6468.9 | 6436.2 | 5991.2 | 5399.2 | 4801.1 | 4366.3 | 4166.3 | 4107.1 | 4074.4 | 4070.3 | 4074.4 |
| 25° | 6668.9 | 6577.1 | 5923.8 | 5133.9 | 4462.3 | 4080.5 | 3964.2 | 3974.4 | 3980.5 | 3980.5 | 3994.8 |
| 27.5° | 6913.9 | 6730.1 | 5811.6 | 4799.1 | 4066.3 | 3815.2 | 3782.5 | 3854.0 | 3886.6 | 3892.7 | 3903.0 |
| 30° | 7236.4 | 6897.5 | 5625.8 | 4380.6 | 3729.4 | 3576.3 | 3633.5 | 3729.4 | 3766.2 | 3788.6 | 3784.6 |
| 32.5° | 7620.2 | 7081.3 | 5374.7 | 3962.2 | 3458.0 | 3409.0 | 3478.4 | 3576.3 | 3617.2 | 3629.4 | 3613.1 |
| 35° | 8071.3 | 7289.5 | 5044.0 | 3570.2 | 3221.2 | 3249.7 | 3331.4 | 3362.0 | 3398.8 | 3398.8 | 3406.9 |
| 37.5° | 8557.1 | 7456.8 | 4639.9 | 3211.0 | 3037.4 | 3141.6 | 3200.8 | 3172.2 | 3155.8 | 3135.4 | 3145.6 |
| 40° | 9051.1 | 7581.4 | 4115.3 | 2855.8 | 2853.7 | 3029.3 | 3045.6 | 2964.0 | 2898.6 | 2878.2 | 2868.0 |
| 42.5° | 9481.8 | 7658.9 | 3641.7 | 2580.2 | 2680.2 | 2919.1 | 2931.3 | 2800.7 | 2696.6 | 2635.3 | 2614.9 |
| 45° | 9990.1 | 7748.8 | 3178.3 | 2351.6 | 2519.0 | 2831.3 | 2861.9 | 2686.3 | 2533.2 | 2404.6 | 2372.0 |
| 47.5° | 10686.2 | 7952.9 | 2812.9 | 2174.0 | 2402.6 | 2776.2 | 2819.0 | 2592.4 | 2390.4 | 2223.0 | 2196.4 |
| 50° | 11472.1 | 8232.5 | 2529.2 | 2053.5 | 2312.8 | 2727.2 | 2780.2 | 2496.5 | 2257.7 | 2071.9 | 2051.5 |
| 52.5° | 12192.7 | 8383.6 | 2284.2 | 1945.4 | 2225.0 | 2637.4 | 2729.2 | 2427.1 | 2127.0 | 1920.9 | 1902.5 |
| 55° | 12586.6 | 8138.6 | 2043.3 | 1839.2 | 2104.6 | 2521.0 | 2657.8 | 2331.2 | 2000.5 | 1841.2 | 1814.7 |
| 57.5° | 12639.7 | 7632.4 | 1824.9 | 1724.9 | 1978.0 | 2378.1 | 2525.1 | 2214.8 | 1918.8 | 1786.1 | 1763.7 |
| 60° | 12229.4 | 6877.1 | 1655.5 | 1631.0 | 1849.4 | 2216.8 | 2376.1 | 2112.7 | 1835.1 | 1724.9 | 1702.4 |
| 62.5° | 11208.7 | 6056.5 | 1537.1 | 1545.3 | 1718.8 | 2047.4 | 2265.8 | 2014.8 | 1755.5 | 1657.5 | 1637.1 |
| 65° | 9453.2 | 4999.1 | 1422.8 | 1457.5 | 1602.4 | 1914.7 | 2165.8 | 1933.1 | 1675.9 | 1606.5 | 1588.1 |
| 67.5° | 6566.8 | 3609.0 | 1328.9 | 1365.6 | 1492.2 | 1780.0 | 2049.5 | 1845.3 | 1586.1 | 1549.3 | 1520.8 |
| 70° | 3635.5 | 2220.9 | 1218.7 | 1261.5 | 1377.9 | 1629.0 | 1918.8 | 1712.6 | 1455.4 | 1439.1 | 1398.3 |
| 72.5° | 1910.7 | 1414.6 | 1094.1 | 1141.1 | 1222.7 | 1435.0 | 1718.8 | 1567.7 | 1326.8 | 1257.4 | 1204.4 |
| 74° | 1492.2 | 1159.5 | 1010.4 | 1059.4 | 1114.5 | 1320.7 | 1600.4 | 1463.6 | 1235.0 | 1153.3 | 1112.5 |
| 75° | 1300.3 | 1032.9 | 939.0 | 1002.3 | 1051.3 | 1243.1 | 1508.5 | 1390.1 | 1184.0 | 1106.4 | 1069.6 |
| 77.5° | 918.6 | 773.7 | 767.5 | 843.1 | 869.6 | 1090.1 | 1359.5 | 1265.6 | 1055.3 | 973.7 | 939.0 |
| 80° | 645.0 | 579.7 | 608.3 | 655.3 | 692.0 | 963.5 | 1261.5 | 1094.1 | 865.5 | 769.6 | 757.3 |
| 82.5° | 420.5 | 379.7 | 434.8 | 477.7 | 489.9 | 710.4 | 1018.6 | 830.8 | 630.8 | 512.4 | 475.6 |
| 85° | 193.9 | 189.8 | 249.0 | 242.9 | 240.9 | 347.0 | 604.2 | 485.8 | 363.4 | 271.5 | 255.2 |
| 87.5° | 49.0 | 46.9 | 61.2 | 51.0 | 61.2 | 53.1 | 55.1 | 14.3 | 2.0 | 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)