

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: P457752

Luminaire Tested: **GALN-SA9A-760-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41112 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

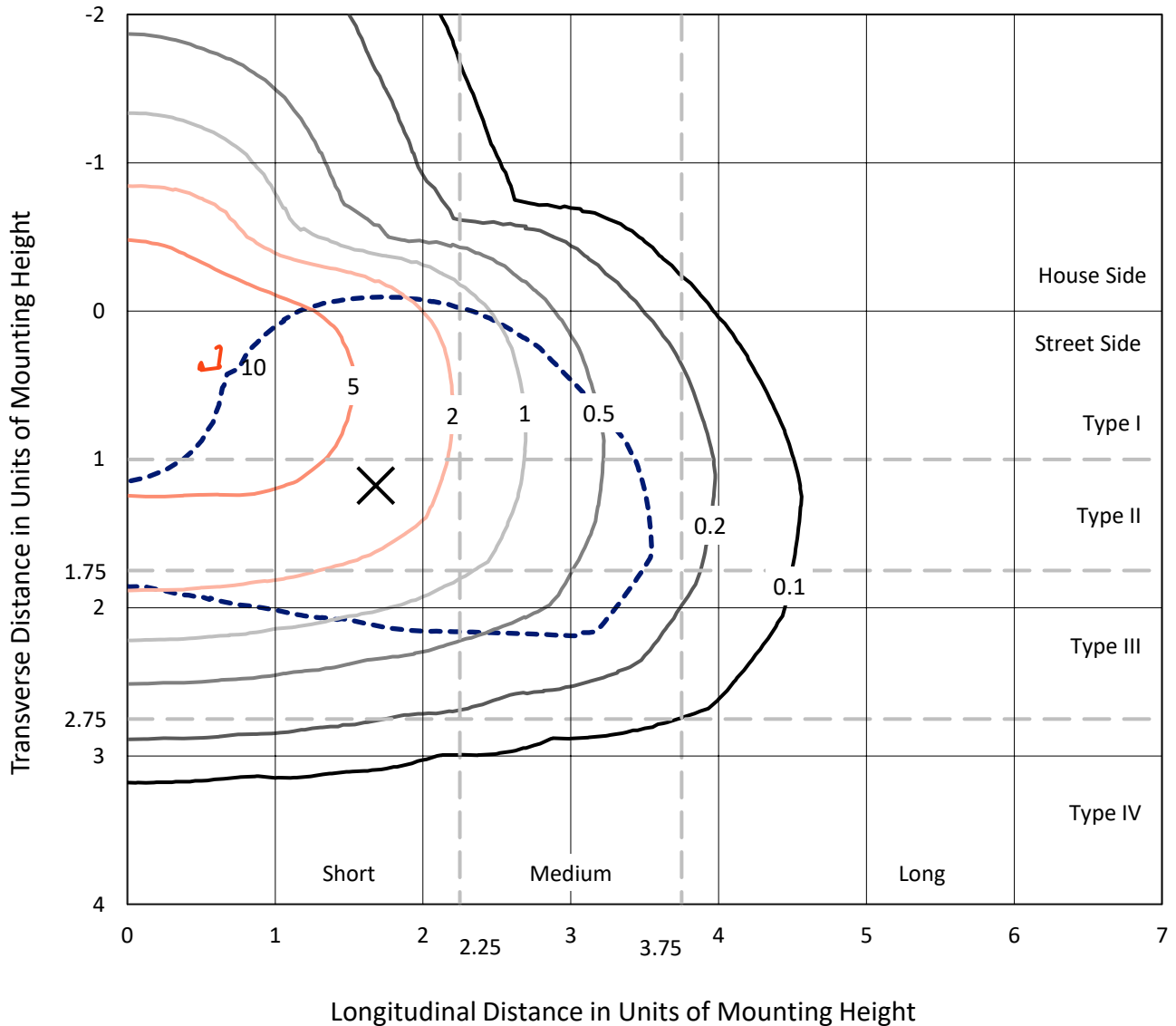
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

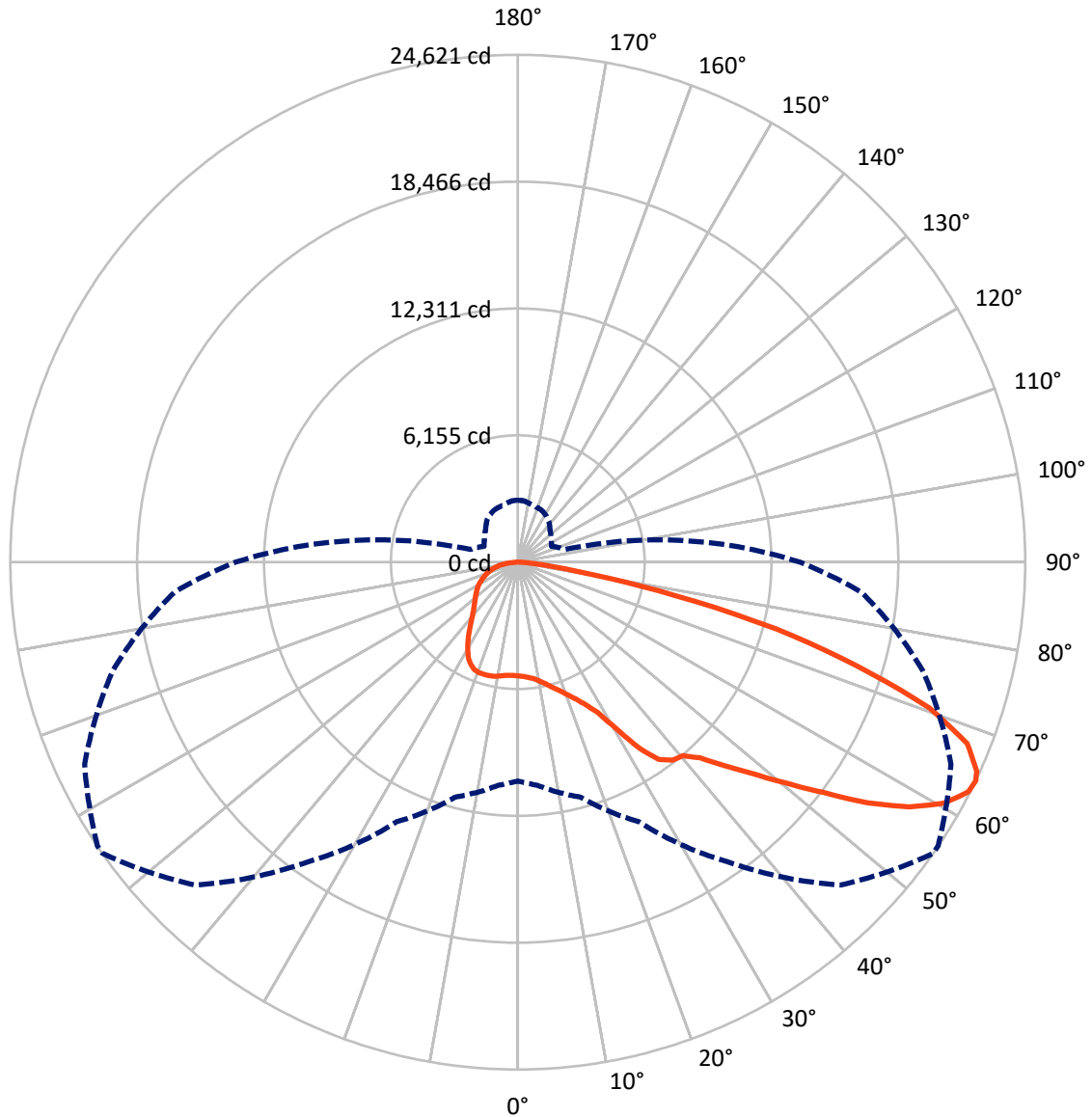
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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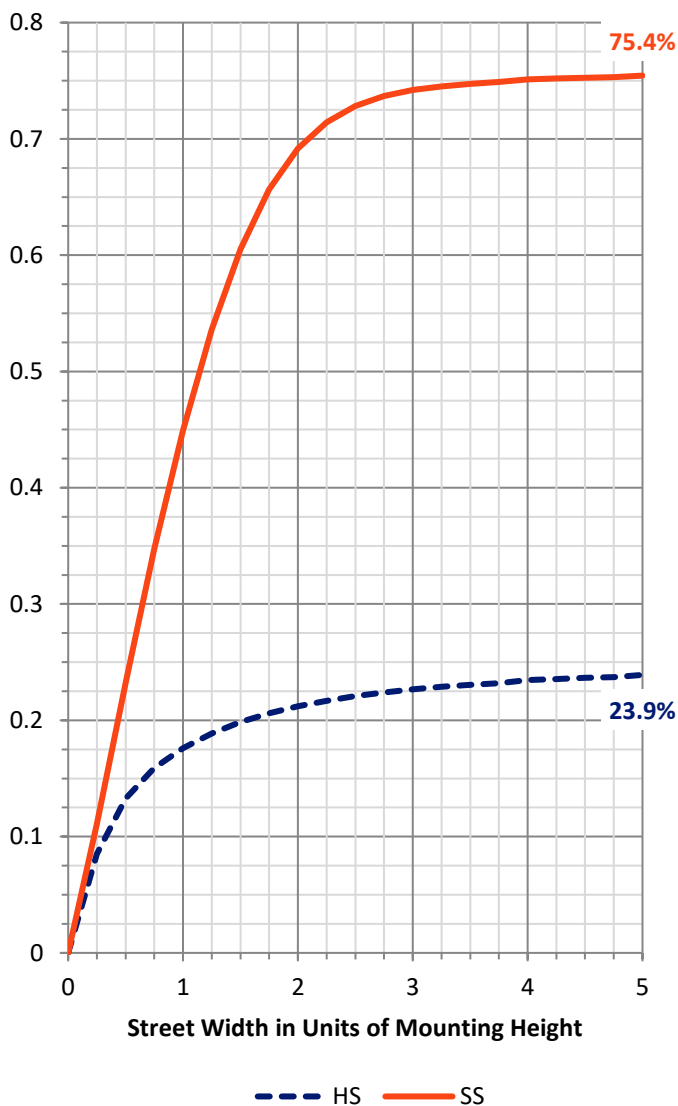
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9986.9 | 0.0 | 9986.9 |
| | % Fixture | 24.3 | 0.0 | 24.3 |
| Street Side | Lumens | 31125.1 | 0.0 | 31125.1 |
| | % Fixture | 75.7 | 0.0 | 75.7 |
| Total | Lumens | 41112.0 | 0.0 | 41112.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 536.6 | 1.3 |
| 10°-20° | 1693.0 | 4.1 |
| 20°-30° | 3014.0 | 7.3 |
| 30°-40° | 4637.4 | 11.3 |
| 40°-50° | 6573.8 | 16.0 |
| 50°-60° | 9515.5 | 23.1 |
| 60°-70° | 9847.5 | 24.0 |
| 70°-80° | 4611.6 | 11.2 |
| 80°-90° | 682.7 | 1.7 |
| 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° | 41112.0 | 100.0 |
| 0°-180° | 41112.0 | 100.0 |

Coefficient of Utilization



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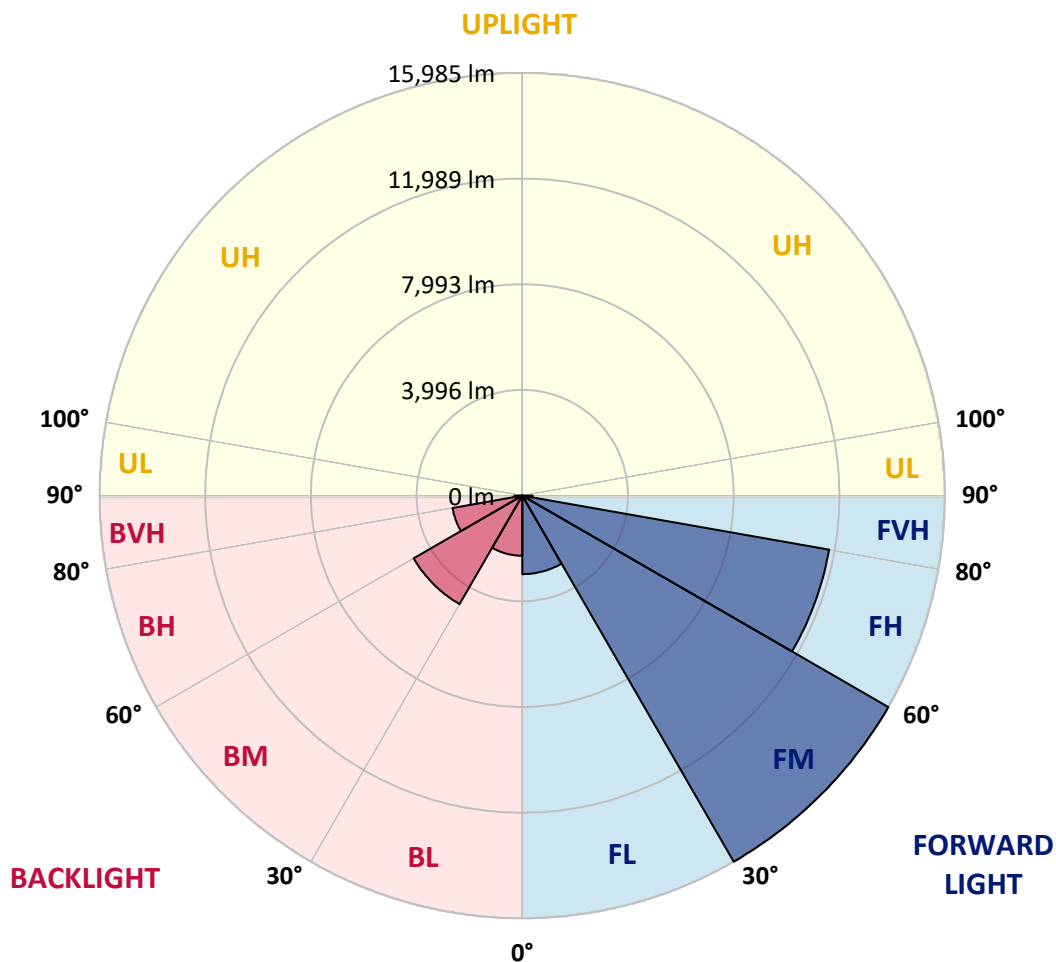
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2968.9 | 7.2 | | | |
| FM | (30°-60°) | 15985.5 | 38.9 | | | |
| FH | (60°-80°) | 11779.8 | 28.7 | | | G4/12000 |
| FVH | (80°-90°) | 390.9 | 1.0 | | | G3/500 |
| BL | (0°-30°) | 2274.6 | 5.5 | B3/2500 | | |
| BM | (30°-60°) | 4741.2 | 11.5 | B3/5000 | | |
| BH | (60°-80°) | 2679.3 | 6.5 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 291.8 | 0.7 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 |
| 2.5° | 5577.9 | 5575.6 | 5582.4 | 5575.6 | 5580.2 | 5564.1 | 5557.2 | 5561.8 | 5554.9 | 5543.5 | 5522.9 |
| 5° | 5646.6 | 5644.3 | 5646.6 | 5637.4 | 5642.0 | 5632.9 | 5616.8 | 5621.4 | 5609.9 | 5584.7 | 5554.9 |
| 7.5° | 5763.5 | 5754.3 | 5754.3 | 5752.0 | 5742.9 | 5729.1 | 5717.7 | 5713.1 | 5701.6 | 5669.5 | 5623.7 |
| 10° | 5914.7 | 5914.7 | 5917.0 | 5898.7 | 5910.2 | 5884.9 | 5873.5 | 5871.2 | 5832.2 | 5791.0 | 5726.8 |
| 12.5° | 6114.1 | 6125.6 | 6118.7 | 6109.5 | 6104.9 | 6095.8 | 6056.8 | 6066.0 | 6022.4 | 5951.4 | 5873.5 |
| 15° | 6361.6 | 6379.9 | 6368.5 | 6363.9 | 6352.4 | 6318.1 | 6302.0 | 6295.1 | 6237.9 | 6134.7 | 6031.6 |
| 17.5° | 6689.3 | 6666.4 | 6657.2 | 6645.8 | 6597.6 | 6572.4 | 6544.9 | 6540.4 | 6489.9 | 6368.5 | 6208.1 |
| 20° | 6975.8 | 7007.9 | 6989.5 | 6978.1 | 6929.9 | 6881.8 | 6861.2 | 6854.3 | 6810.8 | 6677.9 | 6421.2 |
| 22.5° | 7317.2 | 7324.1 | 7331.0 | 7303.5 | 7280.6 | 7243.9 | 7207.2 | 7195.8 | 7179.7 | 7042.2 | 6728.3 |
| 25° | 7681.6 | 7709.1 | 7686.2 | 7658.7 | 7631.2 | 7628.9 | 7663.3 | 7658.7 | 7651.8 | 7518.9 | 7136.2 |
| 27.5° | 8275.1 | 8300.3 | 8307.2 | 8277.4 | 8172.0 | 8181.2 | 8259.1 | 8284.3 | 8389.7 | 8169.7 | 7661.0 |
| 30° | 8609.7 | 8634.9 | 8692.2 | 8804.5 | 8971.8 | 9118.5 | 9306.4 | 9363.7 | 9464.5 | 9049.7 | 8284.3 |
| 32.5° | 8816.0 | 8825.1 | 8928.2 | 9136.8 | 9638.7 | 10186.4 | 10697.4 | 10718.0 | 10782.2 | 10200.1 | 8854.9 |
| 35° | 9141.4 | 9148.2 | 9230.7 | 9459.9 | 10048.9 | 10960.9 | 11751.6 | 11776.8 | 11724.1 | 10557.6 | 9120.7 |
| 37.5° | 9542.4 | 9560.7 | 9613.5 | 9803.7 | 10507.2 | 11609.5 | 12189.3 | 12170.9 | 11703.4 | 10841.8 | 9590.5 |
| 40° | 10126.8 | 10126.8 | 10064.9 | 10321.6 | 10990.7 | 11980.7 | 12342.8 | 12310.7 | 12187.0 | 11664.5 | 10305.5 |
| 42.5° | 10642.4 | 10633.2 | 10779.9 | 10954.1 | 11595.7 | 12553.6 | 12986.8 | 13039.5 | 13243.4 | 12698.0 | 11119.1 |
| 45° | 11313.9 | 11355.1 | 11437.6 | 11753.8 | 12624.7 | 13532.2 | 14091.3 | 14141.7 | 14430.5 | 13914.9 | 12070.1 |
| 47.5° | 11992.2 | 12005.9 | 12264.9 | 12686.5 | 13898.8 | 14859.0 | 15317.4 | 15399.9 | 15663.4 | 15338.0 | 13094.5 |
| 50° | 12473.4 | 12604.0 | 13018.8 | 13683.4 | 15211.9 | 16476.9 | 16834.4 | 16933.0 | 17398.2 | 16887.1 | 14288.4 |
| 52.5° | 12982.2 | 13110.5 | 13617.0 | 14629.9 | 16719.8 | 18131.5 | 18571.5 | 18637.9 | 19121.5 | 18454.6 | 15509.9 |
| 55° | 13417.6 | 13536.7 | 14111.9 | 15468.6 | 17920.7 | 19820.4 | 20617.9 | 20540.0 | 20771.5 | 19662.3 | 16451.7 |
| 57.5° | 13488.6 | 13584.9 | 14309.0 | 16004.8 | 18823.6 | 21268.8 | 22412.3 | 22458.1 | 22190.0 | 20565.2 | 17228.6 |
| 60° | 12938.6 | 13135.7 | 13967.6 | 15947.6 | 19229.2 | 22277.1 | 23750.6 | 23782.7 | 23021.9 | 21028.1 | 17538.0 |
| 62.5° | 11964.7 | 11944.1 | 12950.1 | 15026.3 | 18660.9 | 22506.2 | 24538.9 | 24504.6 | 23347.3 | 20805.8 | 17237.8 |
| 64° | 10619.5 | 10867.0 | 11806.6 | 13894.2 | 17744.2 | 22153.3 | 24621.4 | 24603.1 | 23191.4 | 20342.9 | 16726.7 |
| 65° | 9799.1 | 9785.3 | 10713.4 | 12968.4 | 16832.1 | 21621.7 | 24474.8 | 24449.6 | 22866.0 | 19928.1 | 16330.3 |
| 67.5° | 7074.3 | 7106.4 | 8023.0 | 10007.6 | 13683.4 | 19543.1 | 23519.2 | 23425.2 | 21582.7 | 18553.2 | 14822.4 |
| 70° | 4285.4 | 4303.7 | 5023.3 | 6638.9 | 9822.0 | 15798.6 | 21200.0 | 21204.6 | 19618.8 | 16499.8 | 12615.5 |
| 72.5° | 2257.3 | 2305.4 | 2594.1 | 3769.8 | 5965.2 | 11084.7 | 17198.8 | 17606.7 | 16843.6 | 14082.2 | 9966.4 |
| 75° | 1255.8 | 1262.7 | 1466.7 | 1858.5 | 3043.3 | 6203.5 | 12927.2 | 13044.0 | 13335.1 | 11334.5 | 7369.9 |
| 77.5° | 957.9 | 971.7 | 1035.8 | 1200.8 | 1656.9 | 2876.0 | 7823.7 | 8410.3 | 9398.0 | 7991.0 | 4205.2 |
| 80° | 776.9 | 790.6 | 845.6 | 944.2 | 1102.3 | 1363.5 | 3634.5 | 3950.8 | 5030.2 | 3547.5 | 1640.8 |
| 82.5° | 605.0 | 595.8 | 666.9 | 731.0 | 802.1 | 806.7 | 1491.9 | 1650.0 | 2048.7 | 1526.2 | 710.4 |
| 85° | 449.2 | 449.2 | 506.5 | 492.7 | 517.9 | 472.1 | 657.7 | 726.5 | 820.4 | 648.5 | 330.0 |
| 87.5° | 178.7 | 197.1 | 332.3 | 297.9 | 231.5 | 185.6 | 242.9 | 256.7 | 284.2 | 254.4 | 137.5 |
| 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° | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 | 5516.0 |
| 2.5° | 5525.2 | 5532.0 | 5516.0 | 5504.5 | 5499.9 | 5493.1 | 5486.2 | 5488.5 | 5497.7 | 5506.8 | 5504.5 |
| 5° | 5552.7 | 5554.9 | 5527.4 | 5513.7 | 5504.5 | 5495.4 | 5495.4 | 5502.2 | 5520.6 | 5534.3 | 5534.3 |
| 7.5° | 5621.4 | 5621.4 | 5582.4 | 5557.2 | 5543.5 | 5527.4 | 5522.9 | 5525.2 | 5538.9 | 5557.2 | 5559.5 |
| 10° | 5729.1 | 5719.9 | 5669.5 | 5630.6 | 5605.4 | 5566.4 | 5532.0 | 5513.7 | 5520.6 | 5532.0 | 5532.0 |
| 12.5° | 5859.7 | 5834.5 | 5770.4 | 5717.7 | 5655.8 | 5582.4 | 5511.4 | 5474.7 | 5472.4 | 5483.9 | 5479.3 |
| 15° | 5999.5 | 5972.0 | 5882.7 | 5786.4 | 5678.7 | 5571.0 | 5486.2 | 5433.5 | 5392.2 | 5380.8 | 5406.0 |
| 17.5° | 6162.2 | 6104.9 | 5981.2 | 5848.3 | 5687.9 | 5548.1 | 5415.2 | 5307.4 | 5234.1 | 5213.5 | 5220.4 |
| 20° | 6359.3 | 6283.7 | 6116.4 | 5907.9 | 5681.0 | 5465.6 | 5259.3 | 5115.0 | 4995.8 | 4959.1 | 4963.7 |
| 22.5° | 6632.0 | 6501.4 | 6256.2 | 5937.7 | 5623.7 | 5309.7 | 5023.3 | 4835.4 | 4691.0 | 4633.7 | 4668.1 |
| 25° | 6941.4 | 6799.3 | 6389.1 | 5930.8 | 5474.7 | 5060.0 | 4743.7 | 4498.5 | 4367.9 | 4283.1 | 4301.4 |
| 27.5° | 7367.6 | 7115.6 | 6531.2 | 5868.9 | 5261.6 | 4755.2 | 4388.5 | 4157.0 | 4037.9 | 3994.3 | 4015.0 |
| 30° | 7913.1 | 7525.8 | 6684.7 | 5701.6 | 4924.7 | 4370.2 | 4031.0 | 3879.8 | 3808.7 | 3753.7 | 3772.0 |
| 32.5° | 8307.2 | 7814.5 | 6719.1 | 5419.7 | 4560.4 | 4019.5 | 3788.1 | 3675.8 | 3597.9 | 3545.2 | 3556.6 |
| 35° | 8589.1 | 8059.7 | 6703.1 | 5073.7 | 4180.0 | 3730.8 | 3595.6 | 3503.9 | 3377.9 | 3263.3 | 3242.7 |
| 37.5° | 8967.2 | 8366.8 | 6586.2 | 4695.6 | 3804.1 | 3536.0 | 3439.8 | 3270.2 | 3089.1 | 2935.6 | 2928.7 |
| 40° | 9547.0 | 8726.6 | 6336.4 | 4251.0 | 3483.3 | 3391.6 | 3274.8 | 3054.8 | 2860.0 | 2736.2 | 2727.1 |
| 42.5° | 10145.1 | 9058.9 | 5997.2 | 3783.5 | 3219.8 | 3240.4 | 3098.3 | 2880.6 | 2761.4 | 2681.2 | 2672.1 |
| 45° | 10876.1 | 9418.7 | 5630.6 | 3377.9 | 3025.0 | 3098.3 | 2944.8 | 2818.7 | 2747.7 | 2695.0 | 2681.2 |
| 47.5° | 11666.8 | 9787.6 | 5218.1 | 3013.5 | 2860.0 | 2967.7 | 2880.6 | 2823.3 | 2784.3 | 2747.7 | 2731.6 |
| 50° | 12519.3 | 10200.1 | 4830.8 | 2720.2 | 2711.0 | 2832.5 | 2873.7 | 2853.1 | 2830.2 | 2818.7 | 2805.0 |
| 52.5° | 13454.2 | 10621.8 | 4505.4 | 2513.9 | 2580.4 | 2736.2 | 2876.0 | 2892.1 | 2892.1 | 2885.2 | 2876.0 |
| 55° | 14086.7 | 10915.1 | 4175.4 | 2346.6 | 2447.5 | 2658.3 | 2871.4 | 2933.3 | 2956.2 | 2947.1 | 2937.9 |
| 57.5° | 14554.2 | 11075.5 | 3760.6 | 2202.3 | 2335.2 | 2582.7 | 2846.2 | 2937.9 | 2960.8 | 2972.3 | 2967.7 |
| 60° | 14650.5 | 10926.6 | 3217.5 | 2051.0 | 2213.7 | 2472.7 | 2754.6 | 2869.1 | 2898.9 | 2970.0 | 2976.8 |
| 62.5° | 14217.4 | 10468.2 | 2676.6 | 1902.1 | 2064.8 | 2305.4 | 2630.8 | 2791.2 | 2850.8 | 2960.8 | 2972.3 |
| 64° | 13685.7 | 9954.9 | 2376.4 | 1808.1 | 1968.5 | 2211.4 | 2568.9 | 2770.6 | 2848.5 | 2995.2 | 3004.3 |
| 65° | 13296.1 | 9581.4 | 2188.5 | 1748.5 | 1906.6 | 2149.6 | 2534.6 | 2777.5 | 2869.1 | 3047.9 | 3061.6 |
| 67.5° | 11861.6 | 8295.8 | 1810.4 | 1608.7 | 1760.0 | 2044.1 | 2541.4 | 2834.8 | 2864.6 | 3068.5 | 3066.2 |
| 70° | 9815.1 | 6604.5 | 1517.1 | 1480.4 | 1617.9 | 1959.4 | 2513.9 | 2743.1 | 2745.4 | 2880.6 | 2848.5 |
| 72.5° | 7349.3 | 4881.2 | 1315.4 | 1347.5 | 1459.8 | 1757.7 | 2374.1 | 2619.4 | 2580.4 | 2598.7 | 2566.6 |
| 75° | 5048.5 | 3228.9 | 1132.1 | 1205.4 | 1294.8 | 1553.7 | 2177.1 | 2378.7 | 2316.9 | 2293.9 | 2271.0 |
| 77.5° | 2695.0 | 1785.2 | 941.9 | 1065.6 | 1125.2 | 1342.9 | 1899.8 | 2094.6 | 2030.4 | 1941.0 | 1911.2 |
| 80° | 1090.8 | 841.0 | 758.5 | 882.3 | 916.7 | 1081.7 | 1581.2 | 1702.7 | 1654.6 | 1498.7 | 1448.3 |
| 82.5° | 547.7 | 504.2 | 595.8 | 694.4 | 696.7 | 772.3 | 1175.6 | 1290.2 | 1182.5 | 992.3 | 948.7 |
| 85° | 286.5 | 295.6 | 410.2 | 488.1 | 430.8 | 417.1 | 705.8 | 781.5 | 717.3 | 623.3 | 561.5 |
| 87.5° | 103.1 | 119.2 | 215.4 | 213.1 | 151.2 | 80.2 | 155.8 | 75.6 | 41.2 | 25.2 | 32.1 |
| 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)