

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: P456356

Luminaire Tested: **GALN-SA7C-760-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49247 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

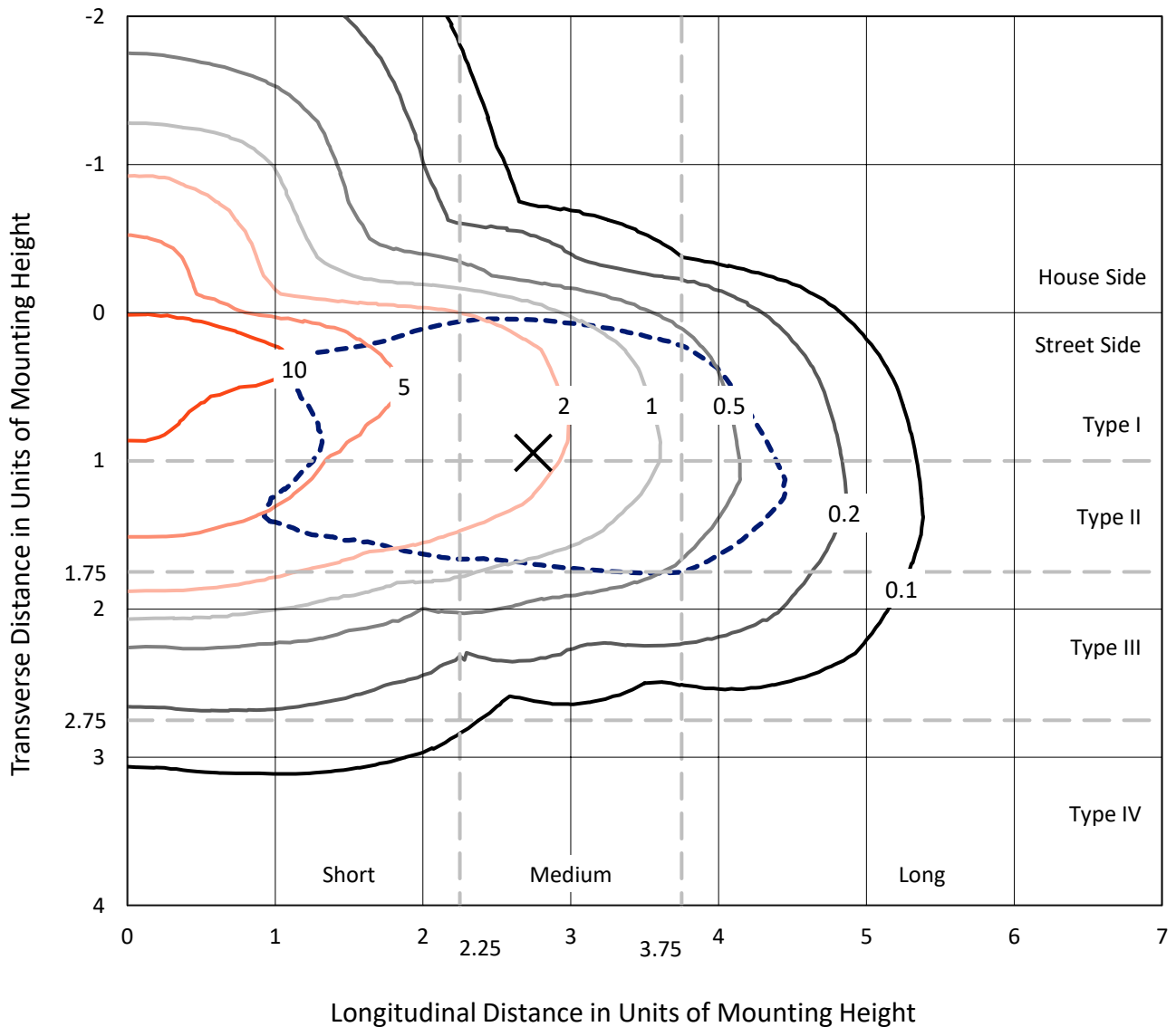
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

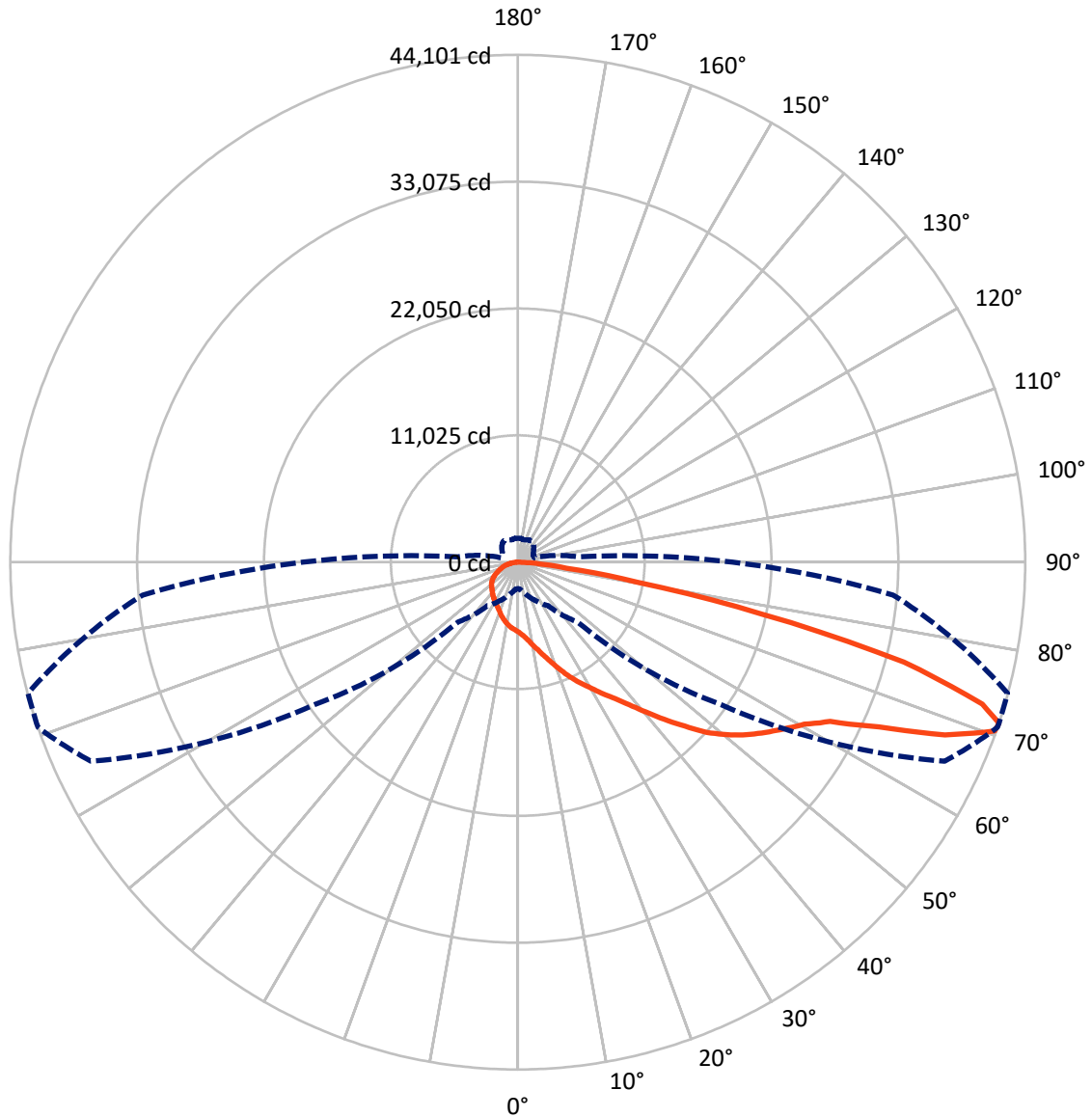
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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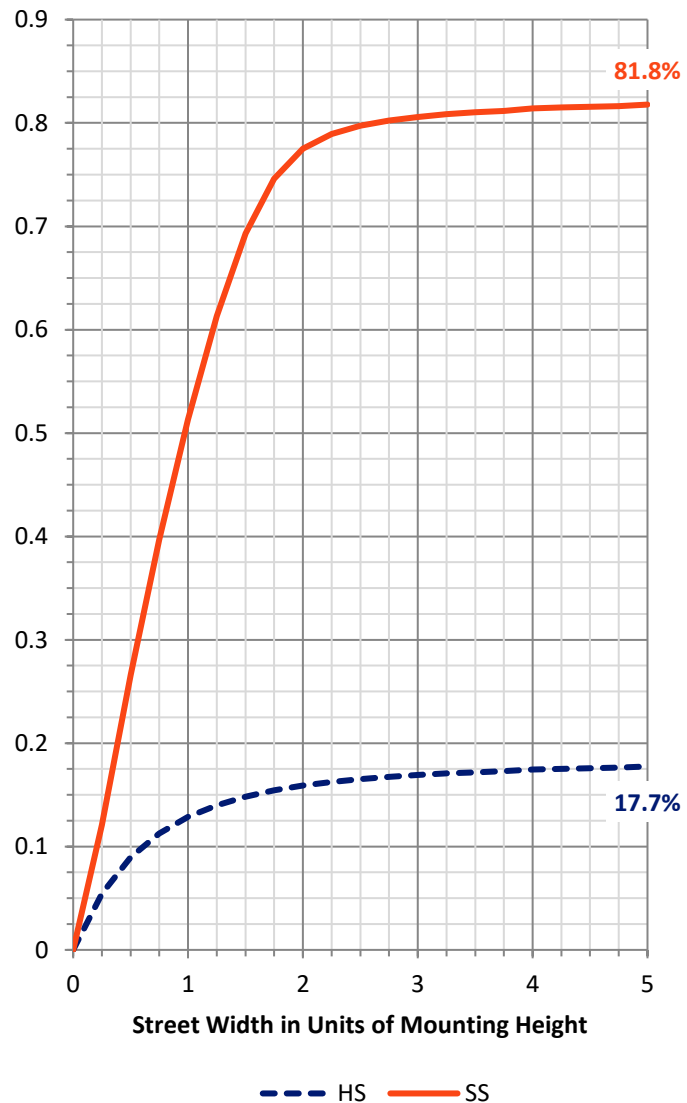
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8857.0 | 0.0 | 8857.0 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 40390.0 | 0.0 | 40390.0 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 49247.0 | 0.0 | 49247.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 606.9 | 1.2 |
| 10°-20° | 1971.7 | 4.0 |
| 20°-30° | 3445.6 | 7.0 |
| 30°-40° | 5125.0 | 10.4 |
| 40°-50° | 7551.0 | 15.3 |
| 50°-60° | 10571.5 | 21.5 |
| 60°-70° | 11823.8 | 24.0 |
| 70°-80° | 7222.5 | 14.7 |
| 80°-90° | 929.1 | 1.9 |
| 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° | 49247.0 | 100.0 |
| 0°-180° | 49247.0 | 100.0 |



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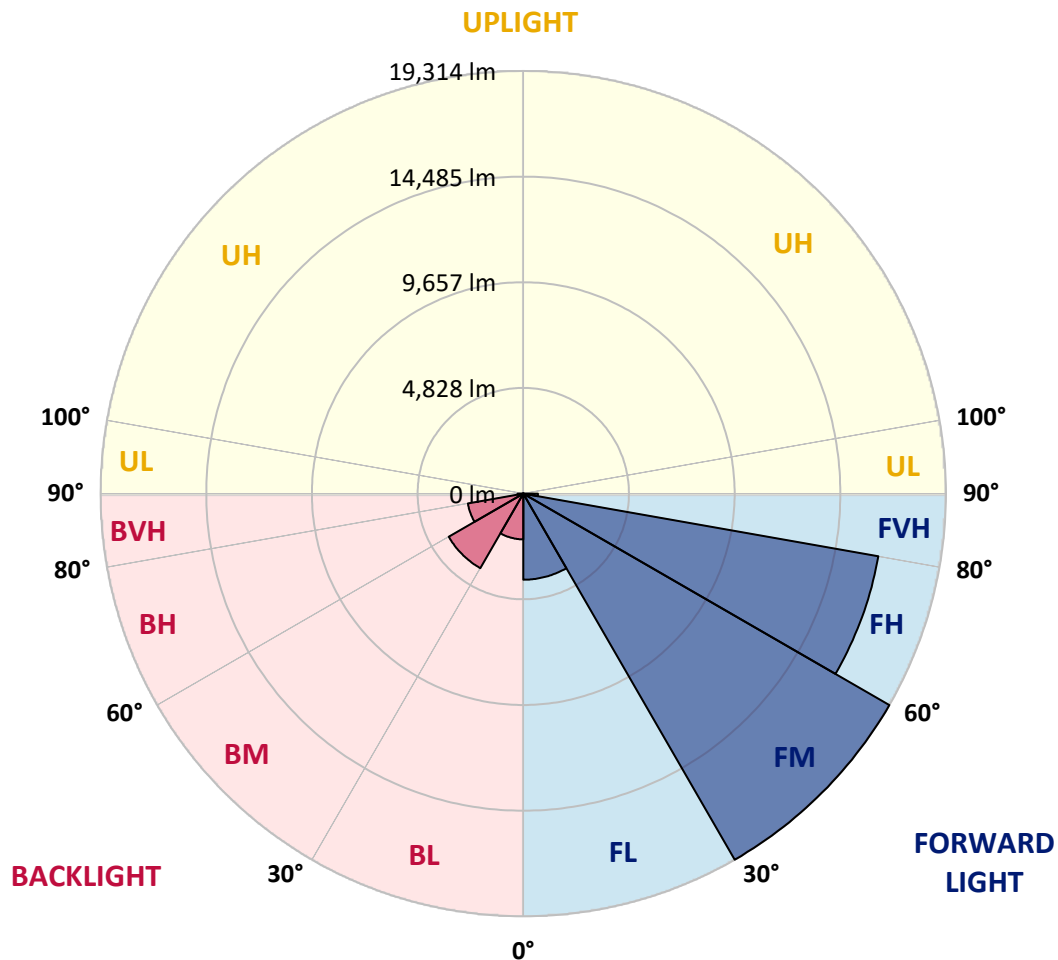
CATALOG NUMBER: GALN-SA7C-760-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3934.9 | 8.0 | | | |
| FM | (30°-60°) | 19313.7 | 39.2 | | | |
| FH | (60°-80°) | 16473.0 | 33.4 | | | G5 |
| FVH | (80°-90°) | 668.5 | 1.4 | | | G4/750 |
| BL | (0°-30°) | 2089.3 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 3933.7 | 8.0 | B3/5000 | | |
| BH | (60°-80°) | 2573.3 | 5.2 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 260.6 | 0.5 | | | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 |
| 2.5° | 6710.0 | 6677.5 | 6680.2 | 6634.2 | 6574.6 | 6509.7 | 6417.6 | 6336.4 | 6271.5 | 6233.6 | 6122.6 |
| 5° | 7435.4 | 7402.9 | 7362.3 | 7262.1 | 7218.8 | 7059.1 | 6856.1 | 6672.1 | 6531.3 | 6452.8 | 6230.9 |
| 7.5° | 8022.7 | 8014.6 | 8003.8 | 7946.9 | 7835.9 | 7614.0 | 7440.8 | 7121.4 | 6913.0 | 6764.1 | 6385.1 |
| 10° | 8385.4 | 8398.9 | 8407.1 | 8417.9 | 8371.9 | 8255.5 | 8017.3 | 7614.0 | 7348.7 | 7159.3 | 6585.4 |
| 12.5° | 8569.5 | 8583.0 | 8629.0 | 8729.2 | 8791.4 | 8777.9 | 8583.0 | 8187.8 | 7822.4 | 7573.4 | 6799.3 |
| 15° | 8683.1 | 8704.8 | 8786.0 | 8918.6 | 9127.0 | 9259.7 | 9164.9 | 8799.5 | 8398.9 | 8103.9 | 7053.7 |
| 17.5° | 8807.7 | 8832.0 | 8921.3 | 9110.8 | 9384.2 | 9671.1 | 9774.0 | 9460.0 | 9024.2 | 8672.3 | 7337.9 |
| 20° | 8878.0 | 8910.5 | 9037.7 | 9286.7 | 9606.1 | 10023.0 | 10364.0 | 10198.9 | 9722.5 | 9332.8 | 7665.4 |
| 22.5° | 8991.7 | 9018.8 | 9127.0 | 9392.3 | 9774.0 | 10296.3 | 10954.1 | 10918.9 | 10499.4 | 9995.9 | 8025.4 |
| 25° | 9300.3 | 9343.6 | 9397.7 | 9557.4 | 9925.5 | 10575.1 | 11444.0 | 11687.6 | 11251.8 | 10688.8 | 8355.6 |
| 27.5° | 9882.2 | 9917.4 | 9914.7 | 9936.4 | 10144.8 | 10816.0 | 11869.0 | 12448.2 | 11998.9 | 11389.9 | 8675.0 |
| 30° | 10545.4 | 10558.9 | 10569.7 | 10521.0 | 10567.0 | 11062.4 | 12258.7 | 13200.7 | 12751.3 | 12109.8 | 8953.8 |
| 32.5° | 11352.0 | 11379.0 | 11287.0 | 11162.5 | 11124.6 | 11427.8 | 12580.8 | 13953.1 | 13641.9 | 12840.7 | 9229.9 |
| 35° | 12304.7 | 12375.1 | 12188.3 | 11969.1 | 11814.8 | 11952.9 | 13013.9 | 14721.8 | 14554.0 | 13774.5 | 9595.3 |
| 37.5° | 13392.8 | 13479.4 | 13306.2 | 12875.9 | 12656.6 | 12694.5 | 13579.6 | 15671.9 | 15707.1 | 14838.2 | 10139.4 |
| 40° | 14283.3 | 14397.0 | 14402.4 | 13793.4 | 13460.5 | 13503.8 | 14296.9 | 16695.0 | 17098.3 | 16153.7 | 10780.9 |
| 42.5° | 14870.7 | 14981.7 | 15098.1 | 14740.8 | 14391.6 | 14637.9 | 15133.3 | 17804.8 | 18662.8 | 17750.6 | 11676.8 |
| 45° | 15514.9 | 15615.0 | 15680.0 | 15517.6 | 15322.7 | 15961.5 | 16142.9 | 18984.9 | 20330.1 | 19534.4 | 12656.6 |
| 47.5° | 16262.0 | 16372.9 | 16435.2 | 16280.9 | 16207.8 | 17122.7 | 17231.0 | 20086.5 | 22111.2 | 21266.7 | 13739.3 |
| 50° | 17258.0 | 17341.9 | 17309.5 | 17212.0 | 17195.8 | 18013.2 | 18275.7 | 21117.8 | 23580.9 | 23131.6 | 14862.6 |
| 52.5° | 18497.7 | 18597.8 | 18633.0 | 18495.0 | 18432.7 | 18649.3 | 19117.5 | 22057.0 | 24918.0 | 24734.0 | 16061.7 |
| 55° | 19247.5 | 19407.2 | 19943.1 | 20159.6 | 20308.5 | 19472.1 | 20024.3 | 23093.7 | 26117.1 | 26423.0 | 17350.1 |
| 57.5° | 18286.6 | 18492.3 | 19691.4 | 20774.0 | 22173.4 | 21529.2 | 21310.0 | 24176.4 | 27316.2 | 28060.5 | 18892.9 |
| 60° | 15942.6 | 15988.6 | 17534.1 | 19529.0 | 22343.9 | 24173.7 | 23992.3 | 25897.9 | 28615.4 | 29711.6 | 20925.6 |
| 62.5° | 11059.6 | 11157.1 | 12984.1 | 16167.2 | 20238.1 | 25126.4 | 28555.9 | 28869.8 | 30477.6 | 32182.9 | 23905.7 |
| 65° | 5703.1 | 5575.8 | 7240.5 | 10161.0 | 15257.8 | 22863.6 | 32253.2 | 34334.7 | 34516.0 | 36048.0 | 28101.1 |
| 67.5° | 3510.6 | 3567.5 | 4347.0 | 5933.1 | 9021.5 | 16616.5 | 31866.2 | 41012.2 | 40056.7 | 40792.9 | 31996.1 |
| 70° | 2636.3 | 2706.7 | 3242.6 | 4060.1 | 5500.0 | 9500.6 | 25627.2 | 42630.8 | 43965.2 | 43775.7 | 33181.6 |
| 71° | 2292.6 | 2365.7 | 2923.3 | 3694.7 | 4620.4 | 7332.5 | 21591.5 | 40936.4 | 44100.5 | 44068.1 | 32735.0 |
| 72.5° | 1954.2 | 2000.3 | 2436.0 | 3129.0 | 3895.0 | 5140.1 | 16221.4 | 36713.9 | 42219.4 | 43299.3 | 31140.8 |
| 75° | 1534.7 | 1569.9 | 1764.8 | 2387.3 | 3066.7 | 3156.0 | 8704.8 | 27524.6 | 34675.7 | 36732.8 | 25924.9 |
| 77.5° | 1250.5 | 1274.9 | 1375.0 | 1772.9 | 2365.7 | 2235.7 | 4566.2 | 17915.8 | 21724.1 | 23794.7 | 15271.3 |
| 80° | 993.4 | 1020.4 | 1080.0 | 1201.8 | 1772.9 | 1594.3 | 2178.9 | 9078.3 | 10493.9 | 10472.3 | 6095.5 |
| 82.5° | 771.4 | 779.5 | 849.9 | 882.4 | 1212.6 | 1131.4 | 1180.1 | 3843.5 | 4257.7 | 4398.4 | 2200.6 |
| 85° | 487.2 | 511.6 | 752.5 | 676.7 | 725.4 | 663.1 | 581.9 | 1526.6 | 1881.2 | 1854.1 | 879.7 |
| 87.5° | 148.9 | 157.0 | 254.4 | 286.9 | 322.1 | 289.6 | 213.8 | 449.3 | 549.5 | 595.5 | 219.2 |
| 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° | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 | 6044.1 |
| 2.5° | 6079.3 | 6049.5 | 5943.9 | 5857.3 | 5776.1 | 5686.8 | 5611.0 | 5589.4 | 5570.4 | 5562.3 | 5559.6 |
| 5° | 6136.1 | 6046.8 | 5838.4 | 5667.9 | 5532.5 | 5408.0 | 5329.5 | 5294.3 | 5259.2 | 5259.2 | 5270.0 |
| 7.5° | 6217.3 | 6054.9 | 5732.8 | 5478.4 | 5307.9 | 5191.5 | 5134.6 | 5129.2 | 5137.3 | 5145.5 | 5148.2 |
| 10° | 6306.6 | 6049.5 | 5578.5 | 5261.9 | 5110.3 | 5056.1 | 5058.9 | 5104.9 | 5148.2 | 5180.7 | 5186.1 |
| 12.5° | 6393.3 | 6017.0 | 5397.2 | 5058.9 | 4961.4 | 4972.2 | 5048.0 | 5150.9 | 5234.8 | 5280.8 | 5283.5 |
| 15° | 6490.7 | 5965.6 | 5177.9 | 4866.7 | 4834.2 | 4918.1 | 5058.9 | 5215.8 | 5343.1 | 5418.8 | 5427.0 |
| 17.5° | 6571.9 | 5879.0 | 4947.9 | 4679.9 | 4720.5 | 4874.8 | 5069.7 | 5272.7 | 5427.0 | 5521.7 | 5537.9 |
| 20° | 6663.9 | 5768.0 | 4709.7 | 4501.3 | 4617.7 | 4826.1 | 5048.0 | 5267.3 | 5427.0 | 5519.0 | 5540.6 |
| 22.5° | 6737.0 | 5611.0 | 4482.3 | 4355.1 | 4525.6 | 4766.5 | 4974.9 | 5150.9 | 5280.8 | 5329.5 | 5362.0 |
| 25° | 6766.8 | 5413.4 | 4268.5 | 4236.0 | 4452.5 | 4669.1 | 4809.8 | 4910.0 | 4950.6 | 4945.2 | 4958.7 |
| 27.5° | 6750.6 | 5186.1 | 4084.4 | 4141.3 | 4360.5 | 4517.5 | 4587.9 | 4579.8 | 4506.7 | 4439.0 | 4471.5 |
| 30° | 6682.9 | 4915.4 | 3930.2 | 4043.8 | 4241.4 | 4328.0 | 4317.2 | 4211.7 | 4073.6 | 3946.4 | 3954.5 |
| 32.5° | 6561.1 | 4623.1 | 3786.7 | 3932.9 | 4073.6 | 4111.5 | 4038.4 | 3900.4 | 3702.8 | 3537.7 | 3513.3 |
| 35° | 6458.2 | 4344.3 | 3659.5 | 3805.6 | 3905.8 | 3886.8 | 3816.5 | 3637.8 | 3459.2 | 3313.0 | 3288.7 |
| 37.5° | 6442.0 | 4106.1 | 3537.7 | 3662.2 | 3719.0 | 3692.0 | 3605.3 | 3453.8 | 3388.8 | 3277.8 | 3264.3 |
| 40° | 6528.6 | 3938.3 | 3413.2 | 3510.6 | 3537.7 | 3516.0 | 3421.3 | 3334.7 | 3394.2 | 3367.2 | 3367.2 |
| 42.5° | 6764.1 | 3849.0 | 3302.2 | 3359.0 | 3380.7 | 3396.9 | 3329.3 | 3256.2 | 3329.3 | 3204.8 | 3164.2 |
| 45° | 7137.6 | 3851.7 | 3202.0 | 3210.2 | 3275.1 | 3332.0 | 3286.0 | 3177.7 | 3139.8 | 2890.8 | 2842.1 |
| 47.5° | 7687.1 | 3943.7 | 3120.8 | 3069.4 | 3185.8 | 3280.5 | 3215.6 | 3058.6 | 2890.8 | 2725.7 | 2695.9 |
| 50° | 8328.6 | 4108.8 | 3047.8 | 2923.3 | 3066.7 | 3215.6 | 3166.9 | 2982.8 | 2809.6 | 2709.4 | 2690.5 |
| 52.5° | 9040.4 | 4317.2 | 2958.4 | 2760.9 | 2920.5 | 3185.8 | 3177.7 | 2972.0 | 2733.8 | 2666.1 | 2649.9 |
| 55° | 9920.1 | 4522.9 | 2847.5 | 2571.4 | 2790.6 | 3161.4 | 3147.9 | 2882.7 | 2717.5 | 2668.8 | 2663.4 |
| 57.5° | 10943.3 | 4820.7 | 2687.8 | 2379.2 | 2641.8 | 3061.3 | 3031.5 | 2828.5 | 2663.4 | 2628.2 | 2625.5 |
| 60° | 12591.6 | 5283.5 | 2460.4 | 2203.3 | 2490.2 | 2885.4 | 2923.3 | 2736.5 | 2576.8 | 2568.7 | 2566.0 |
| 62.5° | 14759.7 | 5933.1 | 2224.9 | 2021.9 | 2314.2 | 2658.0 | 2766.3 | 2612.0 | 2484.8 | 2525.4 | 2530.8 |
| 65° | 17753.4 | 6479.9 | 1981.3 | 1867.6 | 2119.4 | 2438.8 | 2617.4 | 2495.6 | 2381.9 | 2460.4 | 2460.4 |
| 67.5° | 19704.9 | 6490.7 | 1759.4 | 1707.9 | 1921.8 | 2254.7 | 2460.4 | 2357.6 | 2249.3 | 2381.9 | 2387.3 |
| 70° | 19298.9 | 5686.8 | 1575.3 | 1540.1 | 1729.6 | 2057.1 | 2287.2 | 2206.0 | 2081.5 | 2200.6 | 2157.3 |
| 71° | 18643.9 | 5240.2 | 1502.2 | 1475.2 | 1653.8 | 1962.4 | 2206.0 | 2138.3 | 2013.8 | 2092.3 | 2067.9 |
| 72.5° | 17599.1 | 4550.0 | 1383.1 | 1388.5 | 1540.1 | 1843.3 | 2092.3 | 2021.9 | 1897.4 | 1940.7 | 1932.6 |
| 75° | 14876.1 | 3973.5 | 1182.8 | 1207.2 | 1323.6 | 1640.3 | 1864.9 | 1810.8 | 1683.6 | 1683.6 | 1675.5 |
| 77.5° | 9300.3 | 2777.1 | 982.5 | 996.1 | 1123.3 | 1404.8 | 1602.4 | 1556.4 | 1434.6 | 1394.0 | 1383.1 |
| 80° | 3470.0 | 1434.6 | 768.7 | 784.9 | 863.4 | 1107.0 | 1326.3 | 1283.0 | 1158.5 | 1112.5 | 1069.2 |
| 82.5° | 1312.8 | 720.0 | 565.7 | 552.2 | 636.1 | 844.5 | 1039.4 | 988.0 | 890.5 | 779.5 | 747.1 |
| 85° | 495.3 | 357.3 | 346.5 | 335.6 | 373.5 | 500.7 | 644.2 | 633.4 | 530.5 | 452.0 | 443.9 |
| 87.5° | 129.9 | 116.4 | 135.3 | 100.1 | 105.6 | 94.7 | 97.4 | 40.6 | 18.9 | 8.1 | 5.4 |
| 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)