

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: P454964

Luminaire Tested: **GALN-SA6A-760-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454964
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-SA6A-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27273 lumens
Efficiency: N/A
Efficacy: 149.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

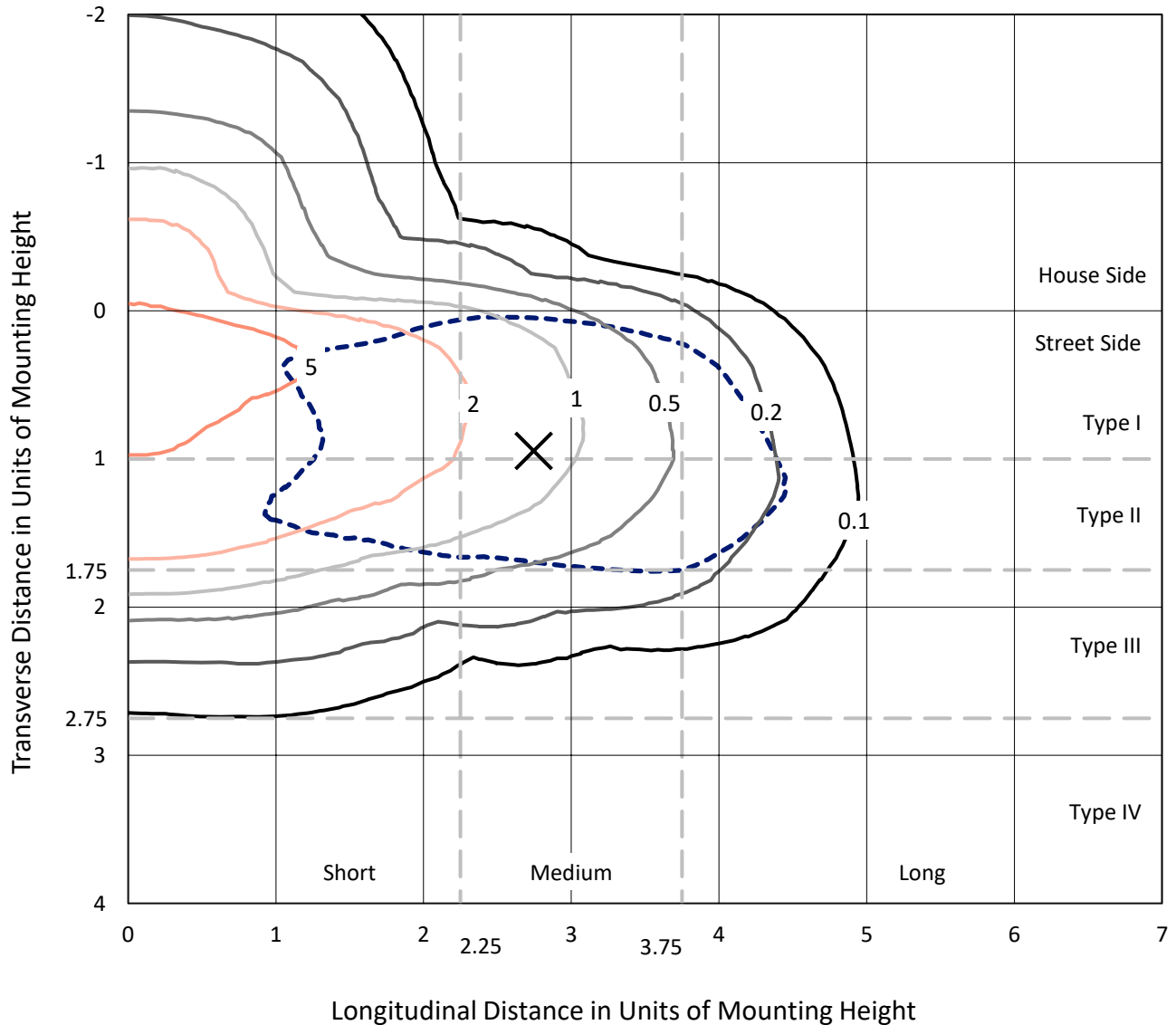
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

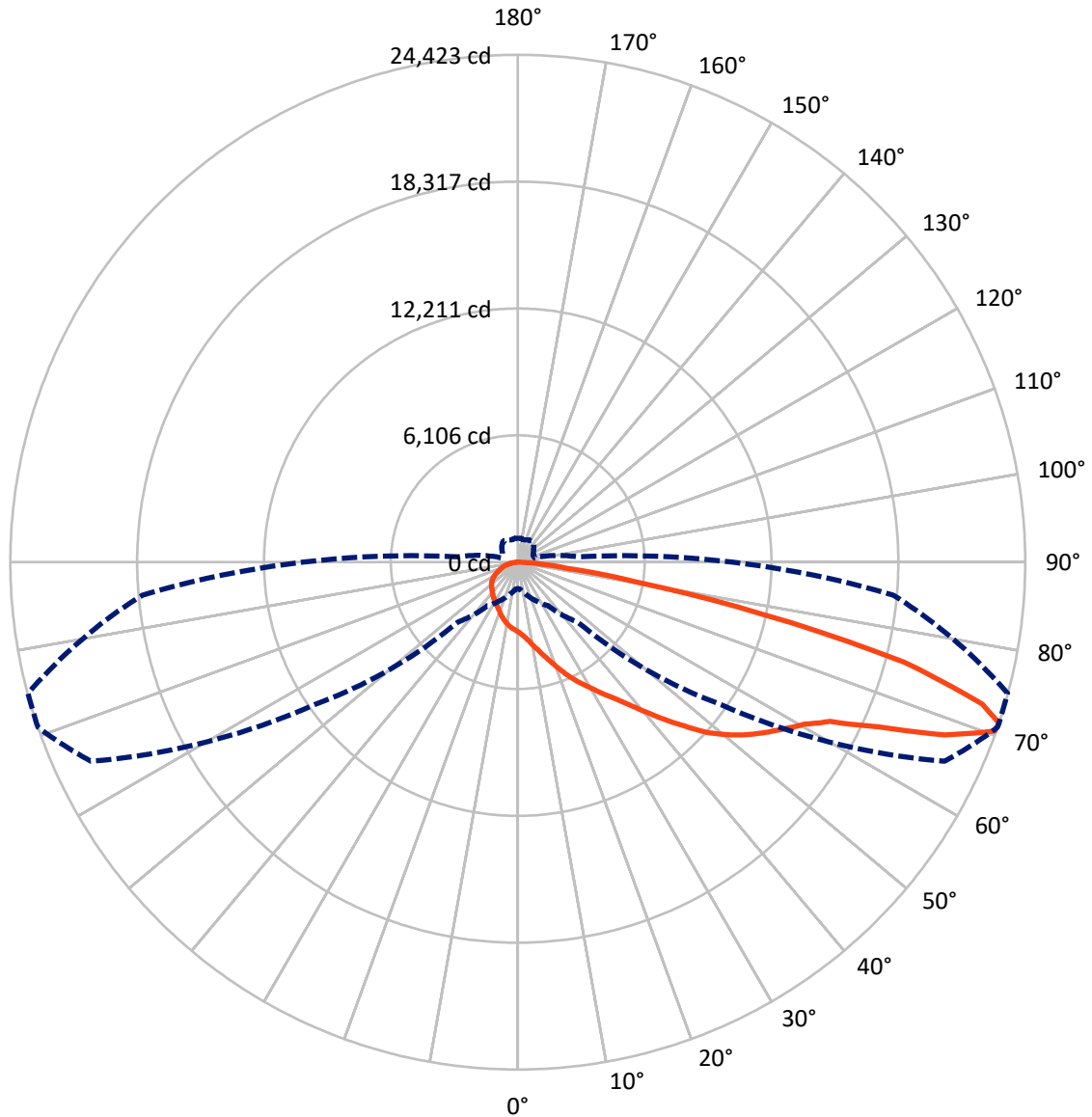
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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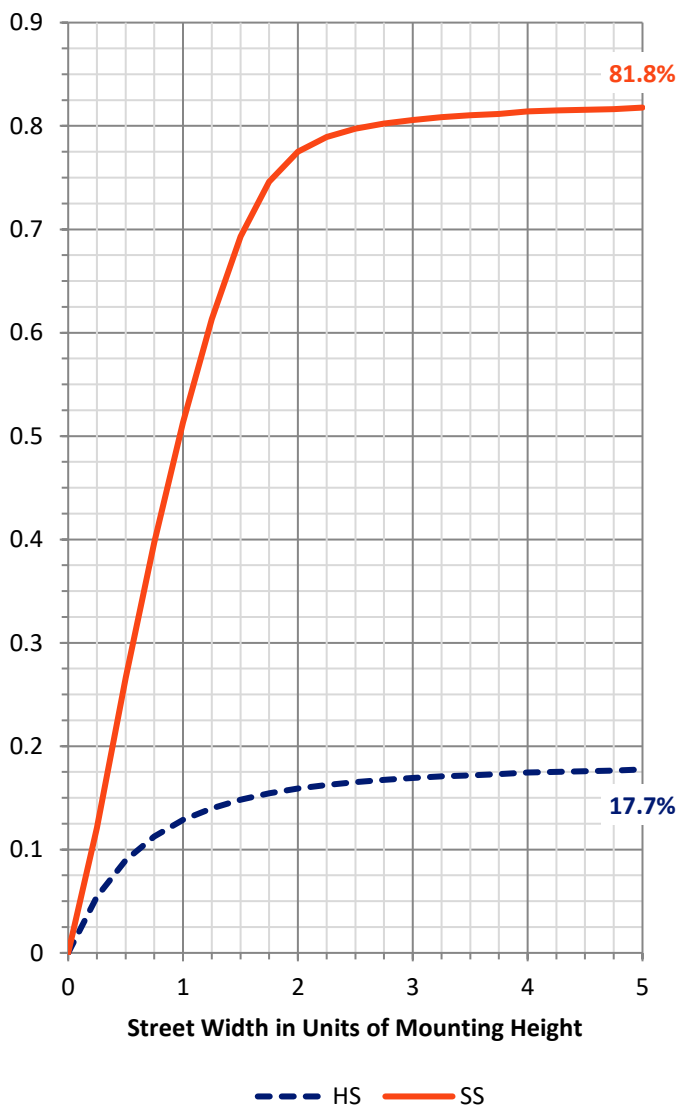
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4905.0 | 0.0 | 4905.0 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 22368.0 | 0.0 | 22368.0 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 27273.0 | 0.0 | 27273.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 336.1 | 1.2 |
| 10°-20° | 1091.9 | 4.0 |
| 20°-30° | 1908.2 | 7.0 |
| 30°-40° | 2838.2 | 10.4 |
| 40°-50° | 4181.7 | 15.3 |
| 50°-60° | 5854.5 | 21.5 |
| 60°-70° | 6548.0 | 24.0 |
| 70°-80° | 3999.8 | 14.7 |
| 80°-90° | 514.5 | 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° | 27273.0 | 100.0 |
| 0°-180° | 27273.0 | 100.0 |

Coefficient of Utilization



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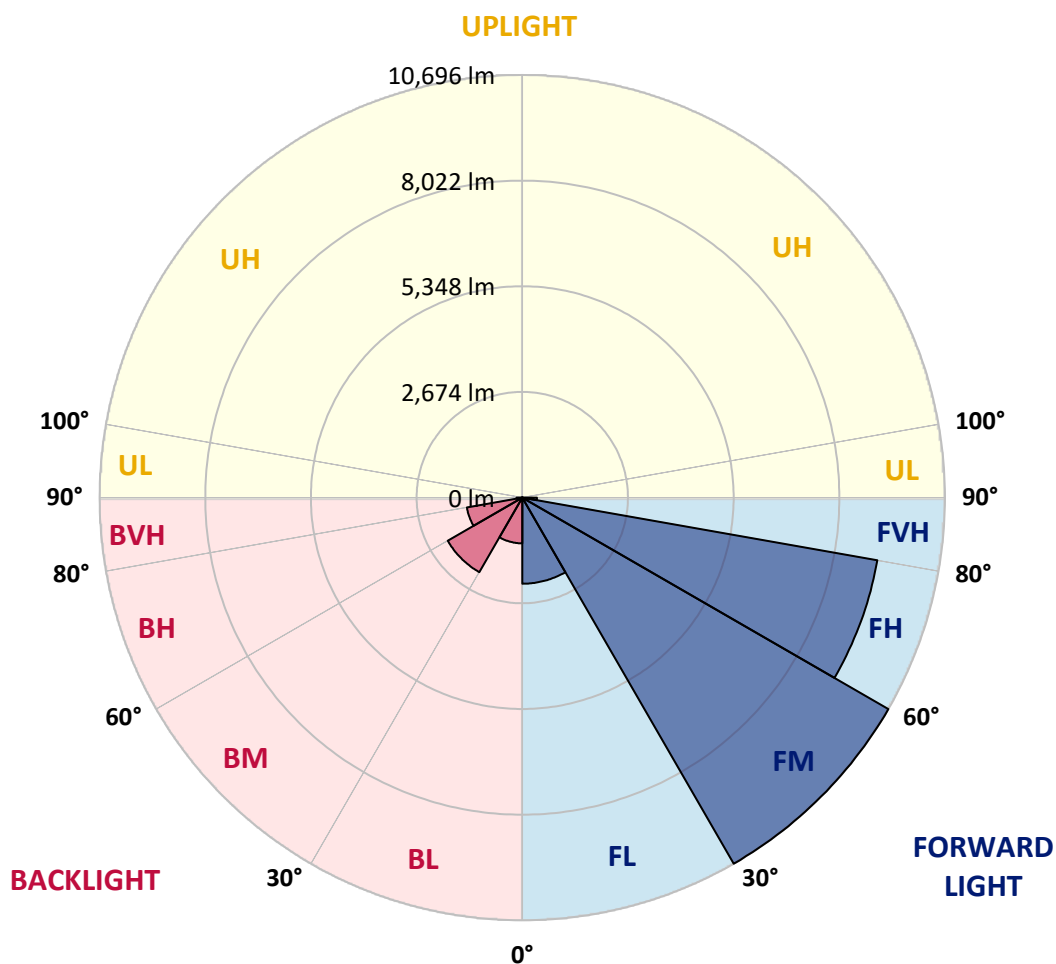
CATALOG NUMBER: GALN-SA6A-760-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2179.1 | 8.0 | | | |
| FM | (30°-60°) | 10695.9 | 39.2 | | | |
| FH | (60°-80°) | 9122.7 | 33.4 | | | G4/12000 |
| FVH | (80°-90°) | 370.2 | 1.4 | | | G3/500 |
| BL | (0°-30°) | 1157.1 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 2178.5 | 8.0 | B2/2500 | | |
| BH | (60°-80°) | 1425.1 | 5.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 144.3 | 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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 |
| 2.5° | 3716.0 | 3698.0 | 3699.5 | 3674.0 | 3641.0 | 3605.0 | 3554.1 | 3509.1 | 3473.1 | 3452.2 | 3390.7 |
| 5° | 4117.7 | 4099.7 | 4077.2 | 4021.8 | 3997.8 | 3909.3 | 3796.9 | 3695.0 | 3617.0 | 3573.6 | 3450.7 |
| 7.5° | 4443.0 | 4438.5 | 4432.5 | 4401.0 | 4339.5 | 4216.6 | 4120.7 | 3943.8 | 3828.4 | 3746.0 | 3536.1 |
| 10° | 4643.8 | 4651.3 | 4655.8 | 4661.8 | 4636.3 | 4571.9 | 4440.0 | 4216.6 | 4069.7 | 3964.8 | 3647.0 |
| 12.5° | 4745.8 | 4753.3 | 4778.7 | 4834.2 | 4868.7 | 4861.2 | 4753.3 | 4534.4 | 4332.1 | 4194.1 | 3765.4 |
| 15° | 4808.7 | 4820.7 | 4865.7 | 4939.1 | 5054.6 | 5128.0 | 5075.5 | 4873.2 | 4651.3 | 4487.9 | 3906.3 |
| 17.5° | 4877.7 | 4891.2 | 4940.6 | 5045.6 | 5197.0 | 5355.9 | 5412.8 | 5238.9 | 4997.6 | 4802.7 | 4063.7 |
| 20° | 4916.7 | 4934.6 | 5005.1 | 5143.0 | 5319.9 | 5550.7 | 5739.6 | 5648.2 | 5384.3 | 5168.5 | 4245.1 |
| 22.5° | 4979.6 | 4994.6 | 5054.6 | 5201.5 | 5412.8 | 5702.1 | 6066.4 | 6046.9 | 5814.5 | 5535.7 | 4444.5 |
| 25° | 5150.5 | 5174.5 | 5204.5 | 5292.9 | 5496.8 | 5856.5 | 6337.7 | 6472.6 | 6231.3 | 5919.5 | 4627.4 |
| 27.5° | 5472.8 | 5492.3 | 5490.8 | 5502.8 | 5618.2 | 5989.9 | 6573.0 | 6893.8 | 6645.0 | 6307.7 | 4804.2 |
| 30° | 5840.0 | 5847.5 | 5853.5 | 5826.5 | 5852.0 | 6126.3 | 6788.9 | 7310.5 | 7061.7 | 6706.4 | 4958.6 |
| 32.5° | 6286.7 | 6301.7 | 6250.7 | 6181.8 | 6160.8 | 6328.7 | 6967.3 | 7727.2 | 7554.9 | 7111.2 | 5111.5 |
| 35° | 6814.4 | 6853.3 | 6749.9 | 6628.5 | 6543.0 | 6619.5 | 7207.1 | 8153.0 | 8060.0 | 7628.3 | 5313.9 |
| 37.5° | 7417.0 | 7464.9 | 7369.0 | 7130.6 | 7009.2 | 7030.2 | 7520.4 | 8679.1 | 8698.6 | 8217.4 | 5615.2 |
| 40° | 7910.1 | 7973.1 | 7976.1 | 7638.8 | 7454.4 | 7478.4 | 7917.6 | 9245.7 | 9469.1 | 8945.9 | 5970.4 |
| 42.5° | 8235.4 | 8296.9 | 8361.3 | 8163.4 | 7970.1 | 8106.5 | 8380.8 | 9860.3 | 10335.5 | 9830.3 | 6466.6 |
| 45° | 8592.2 | 8647.6 | 8683.6 | 8593.7 | 8485.7 | 8839.5 | 8939.9 | 10513.8 | 11258.8 | 10818.1 | 7009.2 |
| 47.5° | 9005.9 | 9067.3 | 9101.8 | 9016.4 | 8975.9 | 9482.5 | 9542.5 | 11123.9 | 12245.2 | 11777.5 | 7608.8 |
| 50° | 9557.5 | 9604.0 | 9586.0 | 9532.0 | 9523.0 | 9975.7 | 10121.1 | 11695.0 | 13059.1 | 12810.3 | 8230.9 |
| 52.5° | 10244.0 | 10299.5 | 10319.0 | 10242.5 | 10208.1 | 10328.0 | 10587.3 | 12215.2 | 13799.6 | 13697.7 | 8894.9 |
| 55° | 10659.2 | 10747.7 | 11044.5 | 11164.4 | 11246.8 | 10783.7 | 11089.5 | 12789.3 | 14463.7 | 14633.0 | 9608.5 |
| 57.5° | 10127.1 | 10241.0 | 10905.1 | 11504.7 | 12279.6 | 11922.9 | 11801.5 | 13388.9 | 15127.7 | 15539.9 | 10462.9 |
| 60° | 8829.0 | 8854.5 | 9710.4 | 10815.1 | 12374.1 | 13387.4 | 13287.0 | 14342.2 | 15847.2 | 16454.3 | 11588.6 |
| 62.5° | 6124.8 | 6178.8 | 7190.6 | 8953.4 | 11207.9 | 13915.0 | 15814.2 | 15988.1 | 16878.5 | 17822.9 | 13239.0 |
| 65° | 3158.4 | 3087.9 | 4009.8 | 5627.2 | 8449.8 | 12661.9 | 17861.8 | 19014.6 | 19115.0 | 19963.4 | 15562.4 |
| 67.5° | 1944.2 | 1975.7 | 2407.4 | 3285.8 | 4996.1 | 9202.2 | 17647.5 | 22712.5 | 22183.4 | 22591.1 | 17719.4 |
| 70° | 1460.0 | 1499.0 | 1795.8 | 2248.5 | 3045.9 | 5261.4 | 14192.3 | 23608.9 | 24347.9 | 24243.0 | 18376.0 |
| 71° | 1269.6 | 1310.1 | 1618.9 | 2046.1 | 2558.8 | 4060.7 | 11957.4 | 22670.6 | 24422.9 | 24404.9 | 18128.7 |
| 72.5° | 1082.3 | 1107.7 | 1349.1 | 1732.8 | 2157.0 | 2846.6 | 8983.4 | 20332.2 | 23381.1 | 23979.2 | 17245.8 |
| 75° | 849.9 | 869.4 | 977.3 | 1322.1 | 1698.3 | 1747.8 | 4820.7 | 15243.1 | 19203.4 | 20342.7 | 14357.2 |
| 77.5° | 692.5 | 706.0 | 761.5 | 981.8 | 1310.1 | 1238.2 | 2528.8 | 9921.7 | 12030.8 | 13177.5 | 8457.2 |
| 80° | 550.1 | 565.1 | 598.1 | 665.5 | 981.8 | 882.9 | 1206.7 | 5027.6 | 5811.5 | 5799.6 | 3375.7 |
| 82.5° | 427.2 | 431.7 | 470.7 | 488.7 | 671.5 | 626.6 | 653.6 | 2128.6 | 2357.9 | 2435.8 | 1218.7 |
| 85° | 269.8 | 283.3 | 416.7 | 374.7 | 401.7 | 367.3 | 322.3 | 845.4 | 1041.8 | 1026.8 | 487.2 |
| 87.5° | 82.4 | 86.9 | 140.9 | 158.9 | 178.4 | 160.4 | 118.4 | 248.8 | 304.3 | 329.8 | 121.4 |
| 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° | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 | 3347.2 |
| 2.5° | 3366.7 | 3350.2 | 3291.8 | 3243.8 | 3198.8 | 3149.4 | 3107.4 | 3095.4 | 3084.9 | 3080.4 | 3078.9 |
| 5° | 3398.2 | 3348.7 | 3233.3 | 3138.9 | 3063.9 | 2995.0 | 2951.5 | 2932.0 | 2912.5 | 2912.5 | 2918.5 |
| 7.5° | 3443.2 | 3353.2 | 3174.8 | 3033.9 | 2939.5 | 2875.0 | 2843.6 | 2840.6 | 2845.1 | 2849.6 | 2851.1 |
| 10° | 3492.6 | 3350.2 | 3089.4 | 2914.0 | 2830.1 | 2800.1 | 2801.6 | 2827.1 | 2851.1 | 2869.0 | 2872.0 |
| 12.5° | 3540.6 | 3332.2 | 2989.0 | 2801.6 | 2747.6 | 2753.6 | 2795.6 | 2852.6 | 2899.0 | 2924.5 | 2926.0 |
| 15° | 3594.6 | 3303.8 | 2867.5 | 2695.2 | 2677.2 | 2723.6 | 2801.6 | 2888.5 | 2959.0 | 3001.0 | 3005.5 |
| 17.5° | 3639.5 | 3255.8 | 2740.1 | 2591.7 | 2614.2 | 2699.7 | 2807.6 | 2920.0 | 3005.5 | 3057.9 | 3066.9 |
| 20° | 3690.5 | 3194.3 | 2608.2 | 2492.8 | 2557.3 | 2672.7 | 2795.6 | 2917.0 | 3005.5 | 3056.4 | 3068.4 |
| 22.5° | 3731.0 | 3107.4 | 2482.3 | 2411.9 | 2506.3 | 2639.7 | 2755.1 | 2852.6 | 2924.5 | 2951.5 | 2969.5 |
| 25° | 3747.5 | 2998.0 | 2363.9 | 2345.9 | 2465.8 | 2585.7 | 2663.7 | 2719.2 | 2741.6 | 2738.6 | 2746.1 |
| 27.5° | 3738.5 | 2872.0 | 2262.0 | 2293.4 | 2414.9 | 2501.8 | 2540.8 | 2536.3 | 2495.8 | 2458.3 | 2476.3 |
| 30° | 3701.0 | 2722.1 | 2176.5 | 2239.5 | 2348.9 | 2396.9 | 2390.9 | 2332.4 | 2256.0 | 2185.5 | 2190.0 |
| 32.5° | 3633.5 | 2560.3 | 2097.1 | 2178.0 | 2256.0 | 2277.0 | 2236.5 | 2160.0 | 2050.6 | 1959.2 | 1945.7 |
| 35° | 3576.6 | 2405.9 | 2026.6 | 2107.6 | 2163.0 | 2152.5 | 2113.6 | 2014.6 | 1915.7 | 1834.8 | 1821.3 |
| 37.5° | 3567.6 | 2274.0 | 1959.2 | 2028.1 | 2059.6 | 2044.6 | 1996.6 | 1912.7 | 1876.7 | 1815.3 | 1807.8 |
| 40° | 3615.5 | 2181.0 | 1890.2 | 1944.2 | 1959.2 | 1947.2 | 1894.7 | 1846.7 | 1879.7 | 1864.7 | 1864.7 |
| 42.5° | 3746.0 | 2131.5 | 1828.8 | 1860.2 | 1872.2 | 1881.2 | 1843.7 | 1803.3 | 1843.7 | 1774.8 | 1752.3 |
| 45° | 3952.8 | 2133.0 | 1773.3 | 1777.8 | 1813.8 | 1845.2 | 1819.8 | 1759.8 | 1738.8 | 1600.9 | 1573.9 |
| 47.5° | 4257.1 | 2184.0 | 1728.3 | 1699.8 | 1764.3 | 1816.8 | 1780.8 | 1693.8 | 1600.9 | 1509.5 | 1493.0 |
| 50° | 4612.4 | 2275.5 | 1687.9 | 1618.9 | 1698.3 | 1780.8 | 1753.8 | 1651.9 | 1555.9 | 1500.5 | 1490.0 |
| 52.5° | 5006.6 | 2390.9 | 1638.4 | 1529.0 | 1617.4 | 1764.3 | 1759.8 | 1645.9 | 1514.0 | 1476.5 | 1467.5 |
| 55° | 5493.8 | 2504.8 | 1576.9 | 1424.0 | 1545.4 | 1750.8 | 1743.3 | 1596.4 | 1505.0 | 1478.0 | 1475.0 |
| 57.5° | 6060.4 | 2669.7 | 1488.5 | 1317.6 | 1463.0 | 1695.3 | 1678.9 | 1566.4 | 1475.0 | 1455.5 | 1454.0 |
| 60° | 6973.3 | 2926.0 | 1362.6 | 1220.2 | 1379.1 | 1597.9 | 1618.9 | 1515.5 | 1427.0 | 1422.5 | 1421.0 |
| 62.5° | 8173.9 | 3285.8 | 1232.2 | 1119.7 | 1281.6 | 1472.0 | 1532.0 | 1446.5 | 1376.1 | 1398.5 | 1401.5 |
| 65° | 9831.8 | 3588.6 | 1097.3 | 1034.3 | 1173.7 | 1350.6 | 1449.5 | 1382.1 | 1319.1 | 1362.6 | 1362.6 |
| 67.5° | 10912.6 | 3594.6 | 974.3 | 945.9 | 1064.3 | 1248.7 | 1362.6 | 1305.6 | 1245.7 | 1319.1 | 1322.1 |
| 70° | 10687.7 | 3149.4 | 872.4 | 852.9 | 957.8 | 1139.2 | 1266.6 | 1221.7 | 1152.7 | 1218.7 | 1194.7 |
| 71° | 10325.0 | 2902.0 | 831.9 | 816.9 | 915.9 | 1086.8 | 1221.7 | 1184.2 | 1115.2 | 1158.7 | 1145.2 |
| 72.5° | 9746.4 | 2519.8 | 766.0 | 769.0 | 852.9 | 1020.8 | 1158.7 | 1119.7 | 1050.8 | 1074.8 | 1070.3 |
| 75° | 8238.4 | 2200.5 | 655.1 | 668.5 | 733.0 | 908.4 | 1032.8 | 1002.8 | 932.4 | 932.4 | 927.9 |
| 77.5° | 5150.5 | 1538.0 | 544.1 | 551.6 | 622.1 | 778.0 | 887.4 | 861.9 | 794.5 | 772.0 | 766.0 |
| 80° | 1921.7 | 794.5 | 425.7 | 434.7 | 478.2 | 613.1 | 734.5 | 710.5 | 641.6 | 616.1 | 592.1 |
| 82.5° | 727.0 | 398.7 | 313.3 | 305.8 | 352.3 | 467.7 | 575.6 | 547.1 | 493.2 | 431.7 | 413.7 |
| 85° | 274.3 | 197.9 | 191.9 | 185.9 | 206.9 | 277.3 | 356.8 | 350.8 | 293.8 | 250.3 | 245.8 |
| 87.5° | 72.0 | 64.5 | 74.9 | 55.5 | 58.5 | 52.5 | 54.0 | 22.5 | 10.5 | 4.5 | 3.0 |
| 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)