

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: P457225

Luminaire Tested: **GALN-SA8C-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42440 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

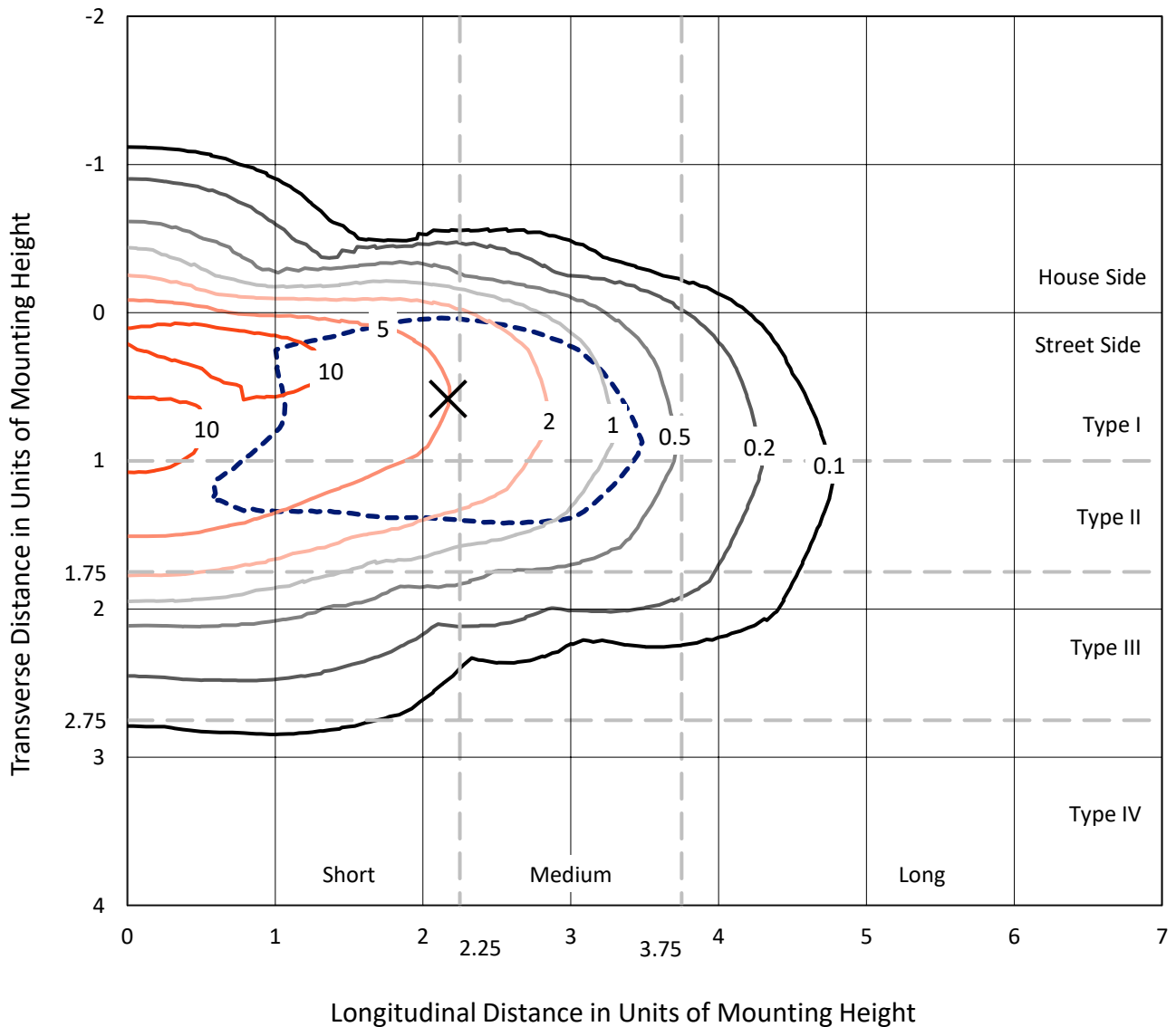
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457225
 CATALOG NUMBER: GALN-SA8C-740-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

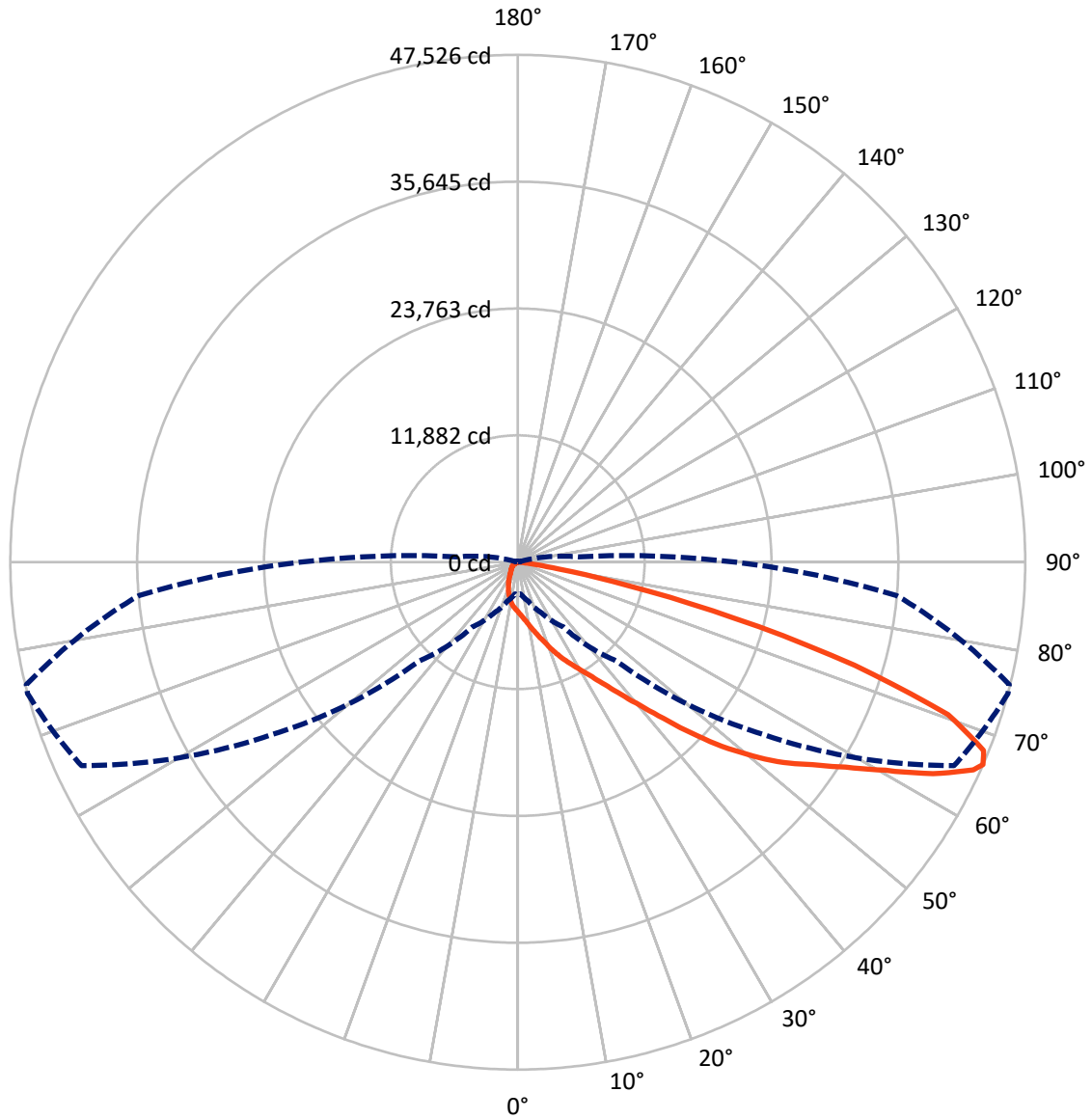
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

REPORT NUMBER: P457225
CATALOG NUMBER: GALN-SA8C-740-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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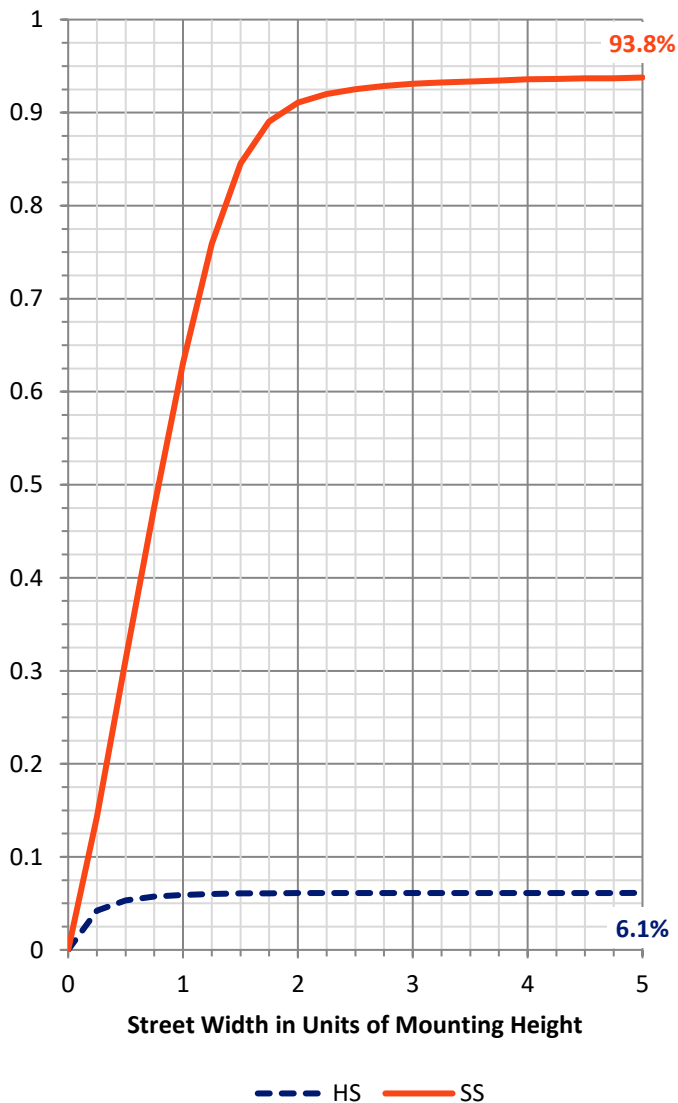
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2620.1 | 0.0 | 2620.1 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 39819.9 | 0.0 | 39819.9 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 42440.0 | 0.0 | 42440.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 447.7 | 1.1 |
| 10°-20° | 1317.5 | 3.1 |
| 20°-30° | 2275.0 | 5.4 |
| 30°-40° | 4103.6 | 9.7 |
| 40°-50° | 7413.2 | 17.5 |
| 50°-60° | 11557.3 | 27.2 |
| 60°-70° | 10979.0 | 25.9 |
| 70°-80° | 4114.6 | 9.7 |
| 80°-90° | 232.1 | 0.5 |
| 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° | 42440.0 | 100.0 |
| 0°-180° | 42440.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P457225

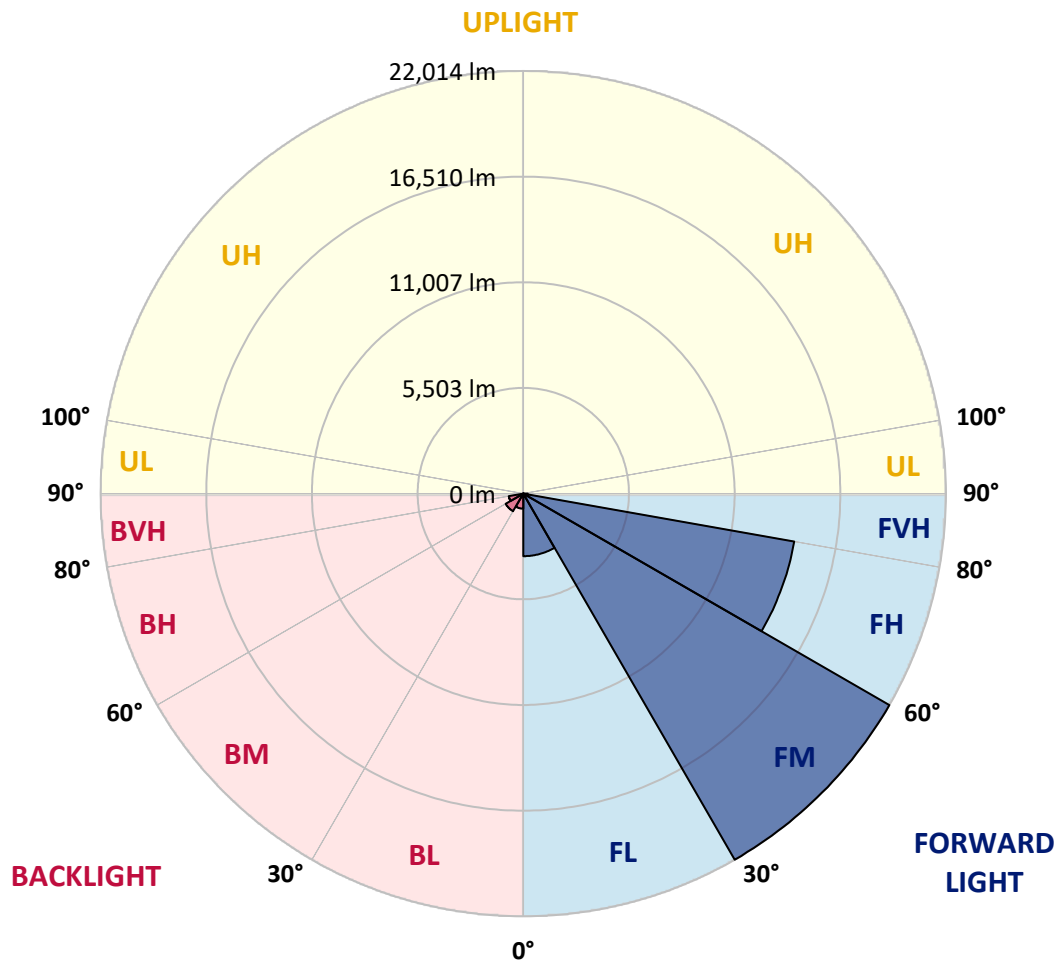
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3257.6 | 7.7 | | | |
| FM | (30°-60°) | 22013.6 | 51.9 | | | |
| FH | (60°-80°) | 14328.5 | 33.8 | | | G5 |
| FVH | (80°-90°) | 220.2 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 782.5 | 1.8 | B2/1000 | | |
| BM | (30°-60°) | 1060.5 | 2.5 | B2/2500 | | |
| BH | (60°-80°) | 765.1 | 1.8 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 12.0 | 0.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G5

Type II Short





REPORT NUMBER: P457225

CATALOG NUMBER: GALN-SA8C-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 |
| 2.5° | 5545.0 | 5476.0 | 5497.9 | 5466.6 | 5394.4 | 5287.7 | 5193.5 | 5058.6 | 4923.7 | 4901.7 | 4751.1 |
| 5° | 6276.2 | 6257.3 | 6232.2 | 6141.2 | 6091.0 | 5927.8 | 5733.3 | 5501.1 | 5221.8 | 5171.6 | 4898.6 |
| 7.5° | 6775.1 | 6765.7 | 6778.3 | 6731.2 | 6687.3 | 6539.8 | 6332.7 | 6015.7 | 5582.7 | 5554.4 | 5099.4 |
| 10° | 6938.3 | 6963.4 | 7010.5 | 7085.8 | 7154.8 | 7107.8 | 6950.9 | 6555.5 | 6050.2 | 5968.6 | 5328.5 |
| 12.5° | 6844.2 | 6872.4 | 6985.4 | 7186.2 | 7409.0 | 7537.7 | 7474.9 | 7186.2 | 6546.1 | 6480.2 | 5585.8 |
| 15° | 6602.5 | 6637.1 | 6797.1 | 7107.8 | 7506.3 | 7870.3 | 8027.2 | 7820.1 | 7123.5 | 7016.8 | 5896.5 |
| 17.5° | 6244.8 | 6295.0 | 6524.1 | 6935.2 | 7481.2 | 8108.8 | 8551.3 | 8482.3 | 7738.5 | 7638.1 | 6235.4 |
| 20° | 5974.9 | 6012.6 | 6207.1 | 6677.9 | 7374.5 | 8240.6 | 9050.2 | 9244.8 | 8497.9 | 8325.3 | 6633.9 |
| 22.5° | 6153.8 | 6166.3 | 6232.2 | 6514.7 | 7183.1 | 8275.1 | 9489.6 | 10038.7 | 9304.4 | 9150.7 | 7048.1 |
| 25° | 7029.3 | 6903.8 | 6837.9 | 6775.1 | 7142.3 | 8243.8 | 9888.1 | 10867.2 | 10107.8 | 9944.6 | 7459.2 |
| 27.5° | 8410.1 | 8353.6 | 8021.0 | 7575.3 | 7490.6 | 8284.6 | 10151.7 | 11651.7 | 10864.1 | 10688.3 | 7860.9 |
| 30° | 9913.2 | 9815.9 | 9612.0 | 8959.2 | 8303.4 | 8573.3 | 10343.1 | 12414.3 | 11758.4 | 11526.2 | 8228.1 |
| 32.5° | 11294.0 | 11356.7 | 11052.3 | 10380.8 | 9621.4 | 9188.3 | 10591.1 | 13245.9 | 12784.6 | 12495.9 | 8654.8 |
| 35° | 12903.8 | 13029.3 | 12561.8 | 11918.5 | 11030.4 | 10299.2 | 11074.3 | 14184.2 | 14086.9 | 13722.9 | 9313.8 |
| 37.5° | 14538.8 | 14614.1 | 14328.5 | 13424.7 | 12624.5 | 11711.3 | 11984.4 | 15342.1 | 15690.4 | 15379.8 | 10101.5 |
| 40° | 15913.2 | 16016.8 | 15806.6 | 15003.2 | 14149.6 | 13346.3 | 13305.5 | 16603.6 | 17598.4 | 17278.3 | 11275.2 |
| 42.5° | 16964.5 | 17043.0 | 17049.2 | 16481.2 | 15712.4 | 15348.4 | 14990.7 | 18213.5 | 19989.6 | 19619.3 | 12637.1 |
| 45° | 18291.9 | 18404.9 | 18339.0 | 17953.0 | 17378.7 | 17312.8 | 17127.7 | 20159.1 | 22851.6 | 22384.0 | 14403.8 |
| 47.5° | 20344.2 | 20419.5 | 20256.4 | 19801.3 | 19217.7 | 19321.2 | 19211.4 | 22340.1 | 25770.0 | 25368.3 | 16233.3 |
| 50° | 21768.9 | 21894.4 | 22126.7 | 22308.7 | 21885.0 | 21502.2 | 21175.8 | 24376.7 | 28540.9 | 28180.0 | 18103.6 |
| 52.5° | 21753.2 | 21960.3 | 22694.7 | 23611.0 | 24536.7 | 24420.6 | 23482.3 | 26626.7 | 31186.3 | 30740.7 | 19861.0 |
| 55° | 20287.7 | 20689.4 | 21768.9 | 23394.5 | 25958.3 | 27235.5 | 26808.7 | 29231.3 | 33470.9 | 33169.6 | 21897.6 |
| 57.5° | 17262.6 | 17507.4 | 19007.4 | 21279.4 | 25164.3 | 28559.7 | 30662.3 | 32761.6 | 36210.4 | 36069.2 | 25060.8 |
| 60° | 11610.9 | 11720.8 | 13650.7 | 16459.3 | 21423.7 | 27238.6 | 33486.5 | 37032.6 | 39583.9 | 39514.8 | 28754.3 |
| 62.5° | 6652.7 | 6699.8 | 8099.4 | 10468.7 | 15244.8 | 23083.8 | 33725.0 | 42301.4 | 43628.9 | 43666.5 | 33028.4 |
| 65° | 3580.6 | 3605.7 | 4735.4 | 6144.4 | 9276.2 | 16453.0 | 30326.5 | 45188.5 | 46898.7 | 46970.9 | 35676.9 |
| 66° | 3091.0 | 2971.8 | 3768.8 | 5237.5 | 7380.8 | 13095.2 | 28176.9 | 45084.9 | 47526.4 | 47447.9 | 35582.8 |
| 67.5° | 2350.4 | 2457.1 | 3009.4 | 4026.2 | 5469.7 | 9310.7 | 23262.7 | 43079.7 | 47049.4 | 46804.6 | 34136.1 |
| 70° | 1682.0 | 1725.9 | 2143.3 | 2871.4 | 3724.9 | 5108.8 | 14865.1 | 35780.5 | 42762.7 | 42433.2 | 29739.7 |
| 72.5° | 1085.8 | 1132.9 | 1518.8 | 2077.4 | 2692.5 | 2789.8 | 8322.2 | 25851.6 | 32968.8 | 32921.7 | 22396.5 |
| 75° | 775.1 | 819.0 | 1004.2 | 1487.5 | 2024.1 | 1725.9 | 4007.3 | 17422.7 | 20959.3 | 20818.1 | 13854.7 |
| 77.5° | 561.7 | 583.7 | 671.6 | 972.8 | 1446.7 | 1236.4 | 1857.7 | 9304.4 | 10434.1 | 10926.8 | 6122.4 |
| 80° | 323.2 | 342.1 | 467.6 | 593.1 | 979.1 | 844.1 | 888.1 | 3734.3 | 3850.4 | 3665.3 | 1914.2 |
| 82.5° | 160.0 | 182.0 | 279.3 | 404.8 | 611.9 | 568.0 | 408.0 | 1123.4 | 1186.2 | 1154.8 | 483.3 |
| 85° | 37.7 | 47.1 | 156.9 | 266.7 | 298.1 | 254.2 | 197.7 | 329.5 | 408.0 | 398.5 | 185.1 |
| 87.5° | 3.1 | 6.3 | 56.5 | 47.1 | 50.2 | 84.7 | 69.0 | 84.7 | 131.8 | 122.4 | 65.9 |
| 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° | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 | 4641.2 |
| 2.5° | 4682.0 | 4622.4 | 4449.8 | 4280.4 | 4139.1 | 3991.6 | 3856.7 | 3778.3 | 3746.9 | 3712.4 | 3728.0 |
| 5° | 4747.9 | 4603.6 | 4255.2 | 3954.0 | 3659.0 | 3408.0 | 3207.1 | 3078.5 | 3015.7 | 3006.3 | 2990.6 |
| 7.5° | 4835.8 | 4587.9 | 4048.1 | 3577.4 | 3191.4 | 2912.1 | 2683.1 | 2497.9 | 2441.4 | 2391.2 | 2350.4 |
| 10° | 4942.5 | 4559.6 | 3790.8 | 3182.0 | 2770.9 | 2419.5 | 2118.2 | 1898.5 | 1785.6 | 1754.2 | 1776.2 |
| 12.5° | 5055.5 | 4506.3 | 3520.9 | 2818.0 | 2344.2 | 1895.4 | 1616.1 | 1506.3 | 1474.9 | 1462.3 | 1465.5 |
| 15° | 5168.4 | 4440.4 | 3238.5 | 2466.5 | 1867.2 | 1512.6 | 1383.9 | 1355.7 | 1343.1 | 1336.8 | 1330.5 |
| 17.5° | 5272.0 | 4333.7 | 2921.6 | 2124.5 | 1512.6 | 1292.9 | 1245.8 | 1220.7 | 1195.6 | 1186.2 | 1170.5 |
| 20° | 5394.4 | 4211.3 | 2636.0 | 1741.6 | 1280.3 | 1170.5 | 1114.0 | 1067.0 | 1029.3 | 1004.2 | 1001.1 |
| 22.5° | 5510.5 | 4054.4 | 2337.9 | 1443.5 | 1167.4 | 1051.3 | 960.3 | 910.0 | 866.1 | 834.7 | 844.1 |
| 25° | 5573.2 | 3863.0 | 2071.1 | 1258.4 | 1063.8 | 932.0 | 831.6 | 768.8 | 721.8 | 706.1 | 702.9 |
| 27.5° | 5573.2 | 3627.6 | 1810.7 | 1151.7 | 969.7 | 825.3 | 721.8 | 662.1 | 630.8 | 608.8 | 611.9 |
| 30° | 5529.3 | 3367.2 | 1569.0 | 1070.1 | 888.1 | 731.2 | 633.9 | 580.5 | 555.4 | 539.8 | 536.6 |
| 32.5° | 5494.8 | 3119.3 | 1361.9 | 991.6 | 803.4 | 649.6 | 564.9 | 524.1 | 499.0 | 483.3 | 483.3 |
| 35° | 5548.1 | 2905.9 | 1201.9 | 913.2 | 724.9 | 586.8 | 511.5 | 473.9 | 448.7 | 436.2 | 433.1 |
| 37.5° | 5689.4 | 2711.3 | 1079.5 | 828.5 | 652.7 | 533.5 | 473.9 | 429.9 | 404.8 | 389.1 | 382.8 |
| 40° | 6037.7 | 2601.5 | 988.5 | 750.0 | 583.7 | 489.5 | 429.9 | 389.1 | 357.7 | 342.1 | 338.9 |
| 42.5° | 6596.3 | 2604.6 | 900.6 | 677.8 | 530.3 | 451.9 | 392.3 | 345.2 | 310.7 | 295.0 | 291.8 |
| 45° | 7437.3 | 2723.9 | 831.6 | 608.8 | 483.3 | 411.1 | 351.5 | 301.3 | 269.9 | 254.2 | 254.2 |
| 47.5° | 8444.6 | 2956.1 | 772.0 | 549.2 | 439.3 | 373.4 | 310.7 | 260.5 | 229.1 | 216.5 | 216.5 |
| 50° | 9536.7 | 3257.3 | 712.3 | 486.4 | 401.7 | 332.6 | 266.7 | 225.9 | 200.8 | 191.4 | 191.4 |
| 52.5° | 10650.7 | 3621.4 | 652.7 | 436.2 | 360.9 | 288.7 | 229.1 | 200.8 | 178.9 | 172.6 | 169.5 |
| 55° | 12113.0 | 4085.8 | 590.0 | 382.8 | 316.9 | 247.9 | 204.0 | 175.7 | 150.6 | 141.2 | 138.1 |
| 57.5° | 14363.0 | 4785.6 | 520.9 | 335.8 | 260.5 | 207.1 | 175.7 | 147.5 | 119.2 | 103.6 | 100.4 |
| 60° | 17077.5 | 5639.1 | 448.7 | 295.0 | 210.3 | 169.5 | 141.2 | 113.0 | 87.9 | 69.0 | 65.9 |
| 62.5° | 19619.3 | 6182.0 | 379.7 | 247.9 | 166.3 | 128.7 | 100.4 | 84.7 | 62.8 | 43.9 | 40.8 |
| 65° | 20742.8 | 6000.0 | 313.8 | 200.8 | 131.8 | 91.0 | 65.9 | 59.6 | 37.7 | 18.8 | 15.7 |
| 66° | 20369.3 | 5730.2 | 288.7 | 182.0 | 119.2 | 78.5 | 56.5 | 50.2 | 28.2 | 9.4 | 9.4 |
| 67.5° | 19267.9 | 5093.1 | 251.0 | 156.9 | 103.6 | 62.8 | 43.9 | 37.7 | 15.7 | 3.1 | 0.0 |
| 70° | 16509.5 | 4120.3 | 197.7 | 116.1 | 75.3 | 43.9 | 25.1 | 18.8 | 9.4 | 0.0 | 0.0 |
| 72.5° | 12681.0 | 3069.1 | 156.9 | 87.9 | 53.3 | 25.1 | 12.6 | 6.3 | 9.4 | 0.0 | 0.0 |
| 75° | 7769.9 | 1754.2 | 122.4 | 65.9 | 34.5 | 15.7 | 9.4 | 0.0 | 9.4 | 3.1 | 0.0 |
| 77.5° | 3448.8 | 787.7 | 81.6 | 43.9 | 25.1 | 12.6 | 6.3 | 0.0 | 6.3 | 3.1 | 0.0 |
| 80° | 872.4 | 257.3 | 47.1 | 31.4 | 18.8 | 9.4 | 3.1 | 0.0 | 6.3 | 6.3 | 3.1 |
| 82.5° | 238.5 | 94.1 | 34.5 | 25.1 | 15.7 | 9.4 | 3.1 | 0.0 | 6.3 | 6.3 | 6.3 |
| 85° | 94.1 | 43.9 | 31.4 | 25.1 | 18.8 | 9.4 | 3.1 | 0.0 | 6.3 | 6.3 | 6.3 |
| 87.5° | 43.9 | 31.4 | 31.4 | 28.2 | 22.0 | 9.4 | 3.1 | 0.0 | 6.3 | 3.1 | 6.3 |
| 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)