

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: P457836

Luminaire Tested: **GALN-SA9B-722-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30360 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

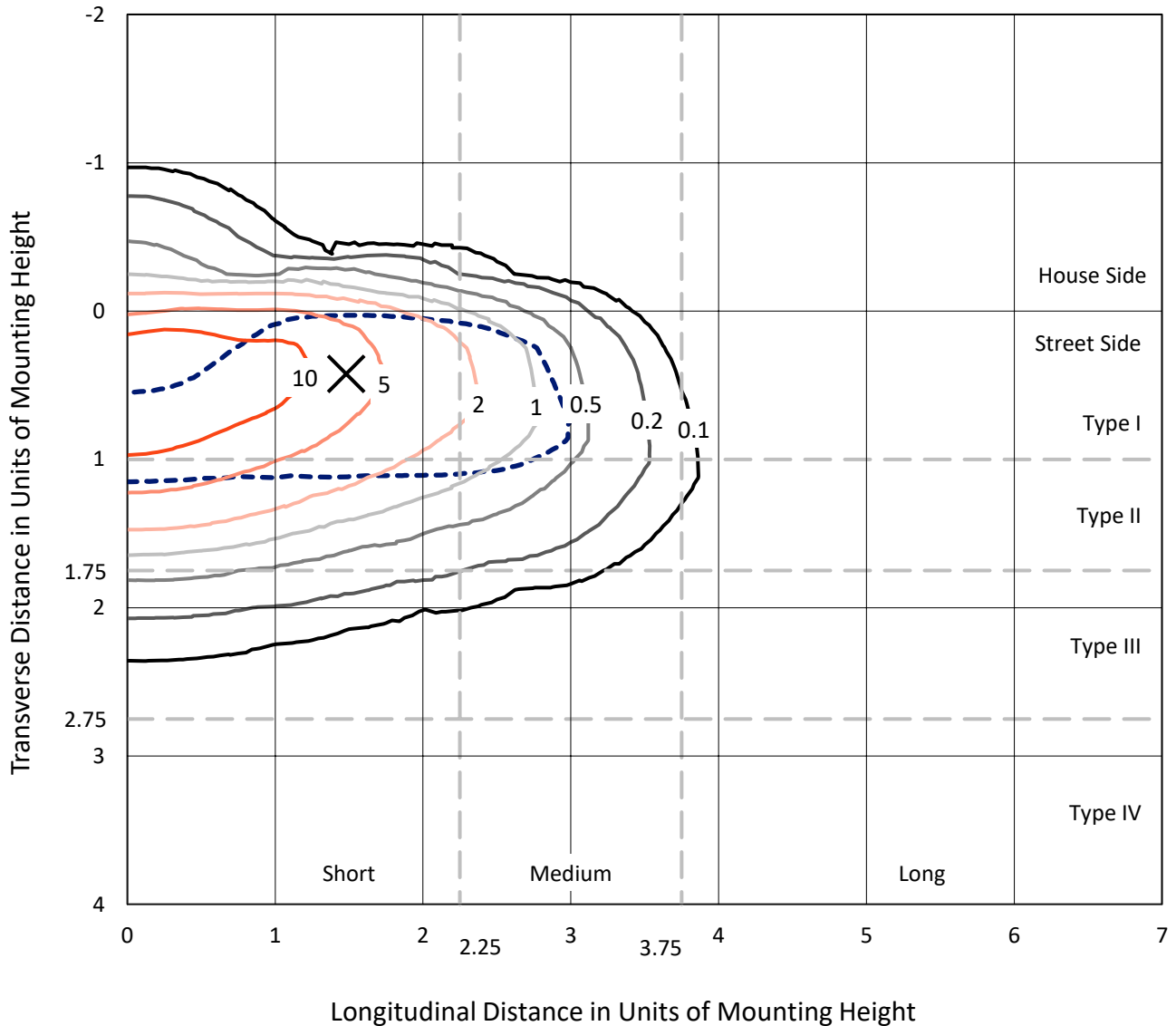
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

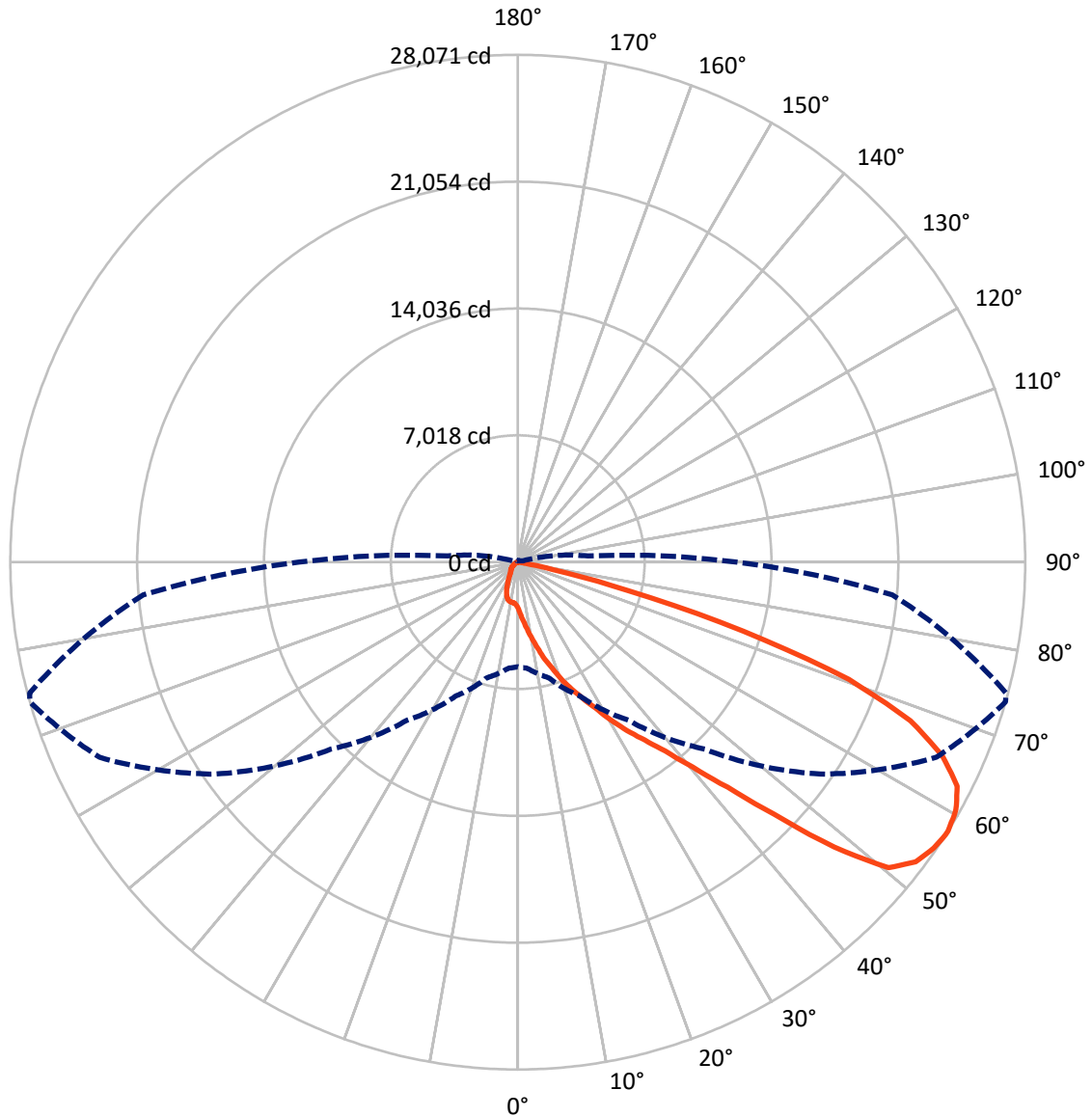
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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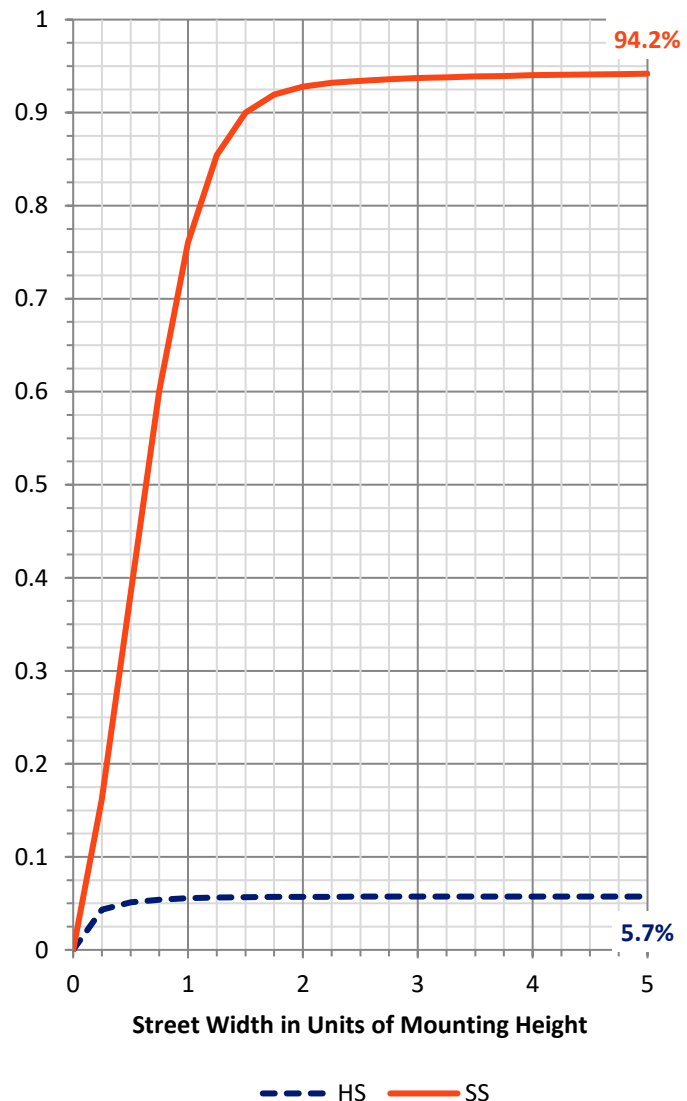
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1751.1 | 0.0 | 1751.1 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 28608.9 | 0.0 | 28608.9 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 30360.0 | 0.0 | 30360.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 306.9 | 1.0 |
| 10°-20° | 1209.7 | 4.0 |
| 20°-30° | 2588.4 | 8.5 |
| 30°-40° | 4757.5 | 15.7 |
| 40°-50° | 7293.3 | 24.0 |
| 50°-60° | 7715.3 | 25.4 |
| 60°-70° | 5038.3 | 16.6 |
| 70°-80° | 1376.6 | 4.5 |
| 80°-90° | 74.1 | 0.2 |
| 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° | 30360.0 | 100.0 |
| 0°-180° | 30360.0 | 100.0 |



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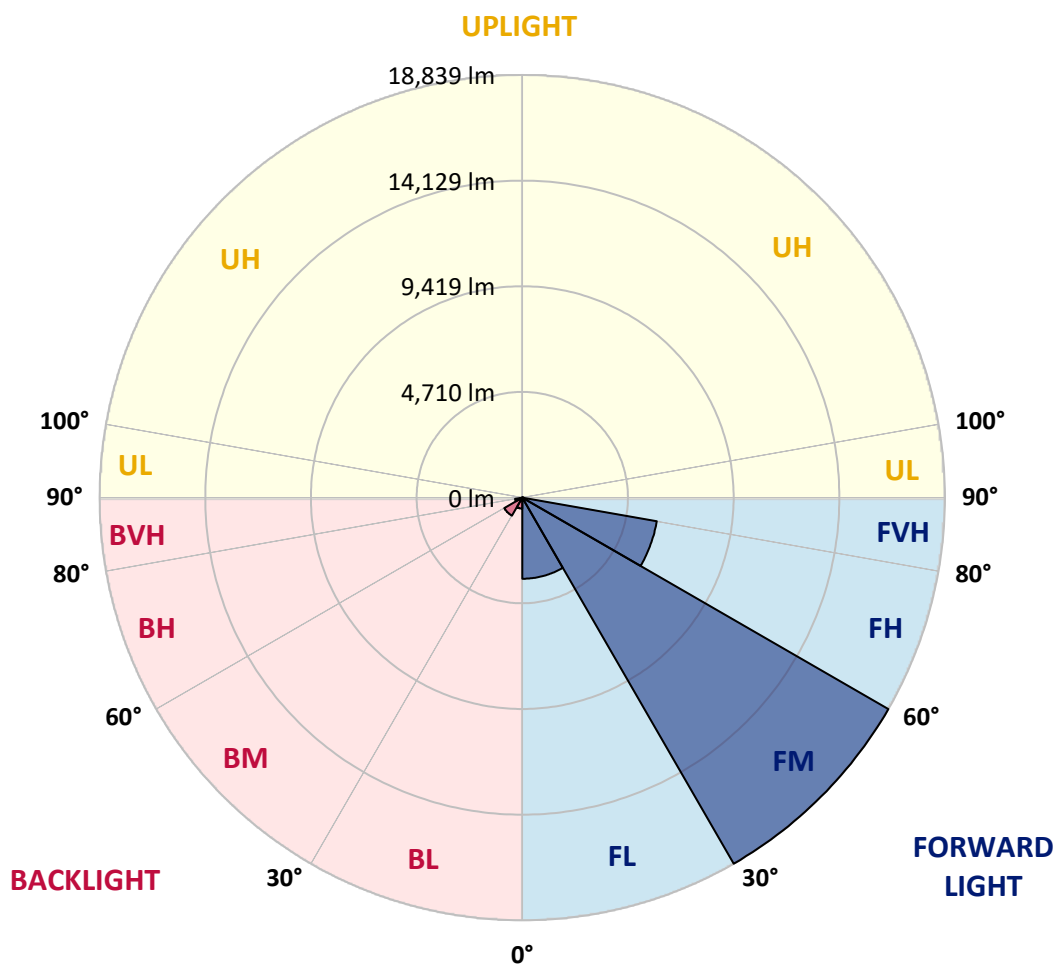
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3615.8 | 11.9 | | | |
| FM (30°-60°) | 18838.9 | 62.1 | | | |
| FH (60°-80°) | 6086.2 | 20.0 | | | G3/7500 |
| FVH (80°-90°) | 68.0 | 0.2 | | | G1/100 |
| BL (0°-30°) | 489.1 | 1.6 | B1/500 | | |
| BM (30°-60°) | 927.1 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 328.8 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 6.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 |
| 2.5° | 3720.6 | 3687.1 | 3620.0 | 3597.0 | 3498.4 | 3345.4 | 3211.3 | 3031.0 | 2888.5 | 2873.8 | 2701.9 |
| 5° | 4982.5 | 4907.0 | 4875.6 | 4724.7 | 4487.8 | 4265.6 | 3884.1 | 3594.9 | 3261.6 | 3236.4 | 2890.6 |
| 7.5° | 6198.3 | 6093.5 | 6062.0 | 5919.5 | 5642.8 | 5292.7 | 4798.1 | 4271.9 | 3743.7 | 3695.5 | 3144.2 |
| 10° | 7078.6 | 7093.3 | 7036.7 | 6942.4 | 6718.1 | 6361.8 | 5751.8 | 5032.8 | 4280.3 | 4219.5 | 3429.3 |
| 12.5° | 7709.6 | 7707.5 | 7718.0 | 7715.9 | 7596.4 | 7326.0 | 6684.6 | 5856.6 | 4871.4 | 4751.9 | 3756.3 |
| 15° | 8120.4 | 8126.7 | 8158.2 | 8267.2 | 8279.7 | 8112.0 | 7577.5 | 6644.7 | 5556.9 | 5408.0 | 4110.5 |
| 17.5° | 8535.5 | 8579.5 | 8629.8 | 8732.5 | 8824.7 | 8757.6 | 8380.3 | 7466.4 | 6177.3 | 6066.2 | 4489.9 |
| 20° | 9220.9 | 9281.7 | 9252.3 | 9315.2 | 9363.4 | 9369.7 | 9078.4 | 8225.2 | 6929.8 | 6743.3 | 4923.8 |
| 22.5° | 10317.2 | 10315.1 | 10239.6 | 10126.4 | 10032.1 | 10027.9 | 9763.8 | 9005.0 | 7613.2 | 7432.9 | 5359.8 |
| 25° | 11702.7 | 11709.0 | 11562.3 | 11239.5 | 11004.7 | 10717.5 | 10413.6 | 9688.3 | 8344.7 | 8122.5 | 5818.9 |
| 27.5° | 13291.6 | 13251.8 | 13029.6 | 12585.2 | 12119.8 | 11629.4 | 11191.3 | 10482.8 | 9120.3 | 8935.8 | 6345.0 |
| 30° | 14719.1 | 14704.4 | 14444.5 | 13901.6 | 13289.5 | 12796.9 | 12161.8 | 11478.4 | 10124.3 | 9897.9 | 6934.0 |
| 32.5° | 16048.0 | 16069.0 | 15708.4 | 15146.7 | 14555.6 | 13987.5 | 13316.7 | 12430.1 | 11109.5 | 10788.8 | 7575.4 |
| 35° | 17085.6 | 17106.5 | 16733.4 | 16266.0 | 15658.1 | 15186.5 | 14547.2 | 13444.6 | 12082.1 | 11811.7 | 8313.3 |
| 37.5° | 17639.0 | 17666.2 | 17450.3 | 17098.2 | 16718.8 | 16481.9 | 15886.6 | 14750.5 | 13264.3 | 13100.8 | 9185.3 |
| 40° | 17743.8 | 17775.2 | 17680.9 | 17586.6 | 17565.6 | 17735.4 | 17561.4 | 16289.1 | 14903.5 | 14647.8 | 10484.9 |
| 42.5° | 17429.4 | 17471.3 | 17513.2 | 17722.8 | 18150.4 | 18773.0 | 19378.8 | 18376.8 | 17014.3 | 16670.6 | 12073.7 |
| 45° | 16603.5 | 16599.3 | 16764.9 | 17307.8 | 18265.7 | 19594.7 | 21277.9 | 20990.7 | 19890.2 | 19481.5 | 14318.7 |
| 47.5° | 15190.7 | 15169.7 | 15528.2 | 16301.6 | 17794.1 | 19745.6 | 22826.9 | 24164.2 | 23560.5 | 23183.2 | 16731.3 |
| 50° | 13038.0 | 13140.7 | 13704.5 | 14784.0 | 16622.3 | 19288.6 | 23304.8 | 26245.7 | 26572.7 | 26172.3 | 18680.7 |
| 52.5° | 10516.3 | 10512.1 | 11396.7 | 12861.9 | 14886.7 | 18282.5 | 22971.5 | 26623.0 | 27551.6 | 27245.5 | 19640.8 |
| 55° | 7782.9 | 7837.4 | 8757.6 | 10235.4 | 12633.4 | 16446.3 | 21883.6 | 26235.2 | 27924.7 | 27708.8 | 20273.8 |
| 57° | 5789.5 | 5885.9 | 6623.8 | 8187.5 | 10671.4 | 14628.9 | 20435.2 | 25541.4 | 28071.4 | 27954.0 | 20799.9 |
| 57.5° | 5403.8 | 5408.0 | 6127.0 | 7548.2 | 10097.1 | 13930.9 | 20020.2 | 25252.1 | 28067.2 | 28002.3 | 20885.9 |
| 60° | 3326.6 | 3431.4 | 3928.2 | 5102.0 | 7391.0 | 10872.6 | 17238.6 | 23589.9 | 27849.2 | 27943.6 | 21252.7 |
| 62.5° | 1991.3 | 2035.3 | 2358.2 | 3075.0 | 4764.5 | 7936.0 | 14107.0 | 21462.3 | 27281.2 | 27568.4 | 21227.5 |
| 65° | 1280.7 | 1291.2 | 1437.9 | 1861.4 | 2978.6 | 5364.0 | 10870.6 | 18651.4 | 25811.8 | 26340.0 | 20397.5 |
| 67.5° | 989.4 | 1006.1 | 1064.8 | 1222.0 | 1727.2 | 3341.2 | 7688.6 | 15651.8 | 23434.8 | 24116.0 | 18385.2 |
| 70° | 878.3 | 886.7 | 907.6 | 957.9 | 1142.4 | 1886.5 | 4783.4 | 12226.7 | 19433.3 | 19626.1 | 14387.9 |
| 72.5° | 716.9 | 739.9 | 804.9 | 821.7 | 905.5 | 1178.0 | 2662.1 | 8206.4 | 13056.8 | 13105.0 | 8049.2 |
| 75° | 555.5 | 559.7 | 656.1 | 704.3 | 763.0 | 811.2 | 1188.5 | 4137.8 | 6271.6 | 5936.3 | 3102.3 |
| 77.5° | 415.0 | 433.9 | 477.9 | 538.7 | 622.6 | 580.6 | 532.4 | 1559.5 | 1947.3 | 1911.7 | 901.3 |
| 80° | 266.2 | 276.7 | 333.3 | 404.6 | 484.2 | 379.4 | 299.7 | 457.0 | 427.6 | 440.2 | 215.9 |
| 82.5° | 134.2 | 136.2 | 213.8 | 329.1 | 308.1 | 190.7 | 188.7 | 186.6 | 159.3 | 157.2 | 100.6 |
| 85° | 14.7 | 31.4 | 138.3 | 188.7 | 138.3 | 62.9 | 88.0 | 85.9 | 83.8 | 85.9 | 58.7 |
| 87.5° | 2.1 | 2.1 | 23.1 | 27.2 | 18.9 | 21.0 | 25.2 | 27.2 | 33.5 | 31.4 | 25.2 |
| 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° | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 | 2542.6 |
| 2.5° | 2618.1 | 2534.2 | 2379.1 | 2230.3 | 2119.2 | 2047.9 | 1955.7 | 1922.2 | 1873.9 | 1867.7 | 1844.6 |
| 5° | 2731.3 | 2572.0 | 2301.6 | 2087.7 | 1915.9 | 1785.9 | 1672.7 | 1578.4 | 1502.9 | 1486.2 | 1494.5 |
| 7.5° | 2892.7 | 2655.8 | 2278.5 | 1987.1 | 1748.2 | 1526.0 | 1345.7 | 1234.6 | 1155.0 | 1125.6 | 1129.8 |
| 10° | 3075.0 | 2766.9 | 2274.3 | 1880.2 | 1515.5 | 1243.0 | 1046.0 | 947.5 | 901.3 | 884.6 | 865.7 |
| 12.5° | 3290.9 | 2894.8 | 2263.8 | 1714.6 | 1259.8 | 991.5 | 851.0 | 792.3 | 748.3 | 735.7 | 735.7 |
| 15° | 3534.1 | 3031.0 | 2213.5 | 1509.2 | 1022.9 | 819.6 | 725.3 | 679.1 | 664.5 | 651.9 | 651.9 |
| 17.5° | 3787.7 | 3165.2 | 2108.7 | 1255.6 | 848.9 | 702.2 | 643.5 | 616.3 | 595.3 | 580.6 | 580.6 |
| 20° | 4077.0 | 3297.2 | 1941.0 | 1031.3 | 716.9 | 626.7 | 580.6 | 549.2 | 532.4 | 519.8 | 515.6 |
| 22.5° | 4351.6 | 3404.1 | 1727.2 | 846.8 | 624.6 | 563.9 | 521.9 | 488.4 | 471.6 | 465.3 | 465.3 |
| 25° | 4636.6 | 3469.1 | 1469.4 | 700.1 | 570.1 | 511.5 | 465.3 | 438.1 | 423.4 | 419.2 | 417.1 |
| 27.5° | 4913.3 | 3506.8 | 1243.0 | 612.1 | 519.8 | 463.2 | 419.2 | 398.3 | 383.6 | 379.4 | 381.5 |
| 30° | 5248.7 | 3513.1 | 1022.9 | 549.2 | 475.8 | 417.1 | 377.3 | 358.4 | 350.1 | 345.9 | 343.8 |
| 32.5° | 5588.3 | 3504.7 | 859.4 | 511.5 | 433.9 | 377.3 | 343.8 | 329.1 | 322.8 | 316.5 | 316.5 |
| 35° | 5969.8 | 3460.7 | 731.6 | 473.7 | 394.1 | 343.8 | 314.4 | 301.8 | 293.5 | 287.2 | 285.1 |
| 37.5° | 6443.5 | 3437.7 | 658.2 | 431.8 | 358.4 | 312.3 | 285.1 | 272.5 | 266.2 | 257.8 | 255.7 |
| 40° | 7189.7 | 3540.4 | 635.1 | 394.1 | 322.8 | 283.0 | 257.8 | 243.2 | 234.8 | 226.4 | 224.3 |
| 42.5° | 8120.4 | 3720.6 | 597.4 | 356.3 | 291.4 | 255.7 | 230.6 | 213.8 | 199.1 | 188.7 | 184.5 |
| 45° | 9325.7 | 3957.5 | 538.7 | 316.5 | 264.1 | 226.4 | 203.3 | 182.4 | 163.5 | 155.1 | 153.0 |
| 47.5° | 10589.7 | 4186.0 | 486.3 | 285.1 | 234.8 | 201.2 | 176.1 | 153.0 | 136.2 | 130.0 | 127.9 |
| 50° | 11365.2 | 4232.1 | 452.8 | 249.4 | 205.4 | 174.0 | 148.8 | 127.9 | 117.4 | 111.1 | 111.1 |
| 52.5° | 11719.5 | 4158.7 | 406.6 | 218.0 | 178.2 | 153.0 | 127.9 | 111.1 | 104.8 | 100.6 | 98.5 |
| 55° | 11966.8 | 4045.5 | 345.9 | 188.7 | 153.0 | 130.0 | 113.2 | 100.6 | 92.2 | 88.0 | 85.9 |
| 57° | 12111.5 | 3892.5 | 299.7 | 165.6 | 132.1 | 113.2 | 100.6 | 90.1 | 81.7 | 73.4 | 73.4 |
| 57.5° | 12117.8 | 3833.8 | 287.2 | 163.5 | 125.8 | 109.0 | 98.5 | 88.0 | 77.6 | 69.2 | 67.1 |
| 60° | 11931.2 | 3431.4 | 230.6 | 138.3 | 100.6 | 92.2 | 81.7 | 69.2 | 54.5 | 46.1 | 44.0 |
| 62.5° | 11331.7 | 2919.9 | 190.7 | 117.4 | 81.7 | 71.3 | 58.7 | 52.4 | 37.7 | 27.2 | 27.2 |
| 65° | 10424.1 | 2368.6 | 163.5 | 94.3 | 67.1 | 52.4 | 39.8 | 37.7 | 23.1 | 12.6 | 10.5 |
| 67.5° | 9111.9 | 1844.6 | 138.3 | 77.6 | 56.6 | 37.7 | 27.2 | 25.2 | 12.6 | 4.2 | 0.0 |
| 70° | 6942.4 | 1257.7 | 115.3 | 62.9 | 41.9 | 27.2 | 18.9 | 14.7 | 8.4 | 2.1 | 0.0 |
| 72.5° | 4001.5 | 691.7 | 96.4 | 48.2 | 31.4 | 21.0 | 14.7 | 8.4 | 8.4 | 0.0 | 0.0 |
| 75° | 1429.6 | 297.7 | 73.4 | 35.6 | 25.2 | 16.8 | 10.5 | 4.2 | 6.3 | 2.1 | 0.0 |
| 77.5° | 454.9 | 159.3 | 48.2 | 27.2 | 21.0 | 12.6 | 8.4 | 4.2 | 4.2 | 2.1 | 0.0 |
| 80° | 134.2 | 83.8 | 29.3 | 23.1 | 14.7 | 10.5 | 6.3 | 2.1 | 4.2 | 2.1 | 0.0 |
| 82.5° | 73.4 | 41.9 | 23.1 | 16.8 | 14.7 | 8.4 | 6.3 | 2.1 | 2.1 | 2.1 | 0.0 |
| 85° | 37.7 | 25.2 | 18.9 | 16.8 | 14.7 | 8.4 | 6.3 | 2.1 | 0.0 | 2.1 | 2.1 |
| 87.5° | 21.0 | 18.9 | 18.9 | 16.8 | 14.7 | 10.5 | 6.3 | 2.1 | 0.0 | 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)