

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: P456075

Luminaire Tested: **GALN-SA7B-740-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28671 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

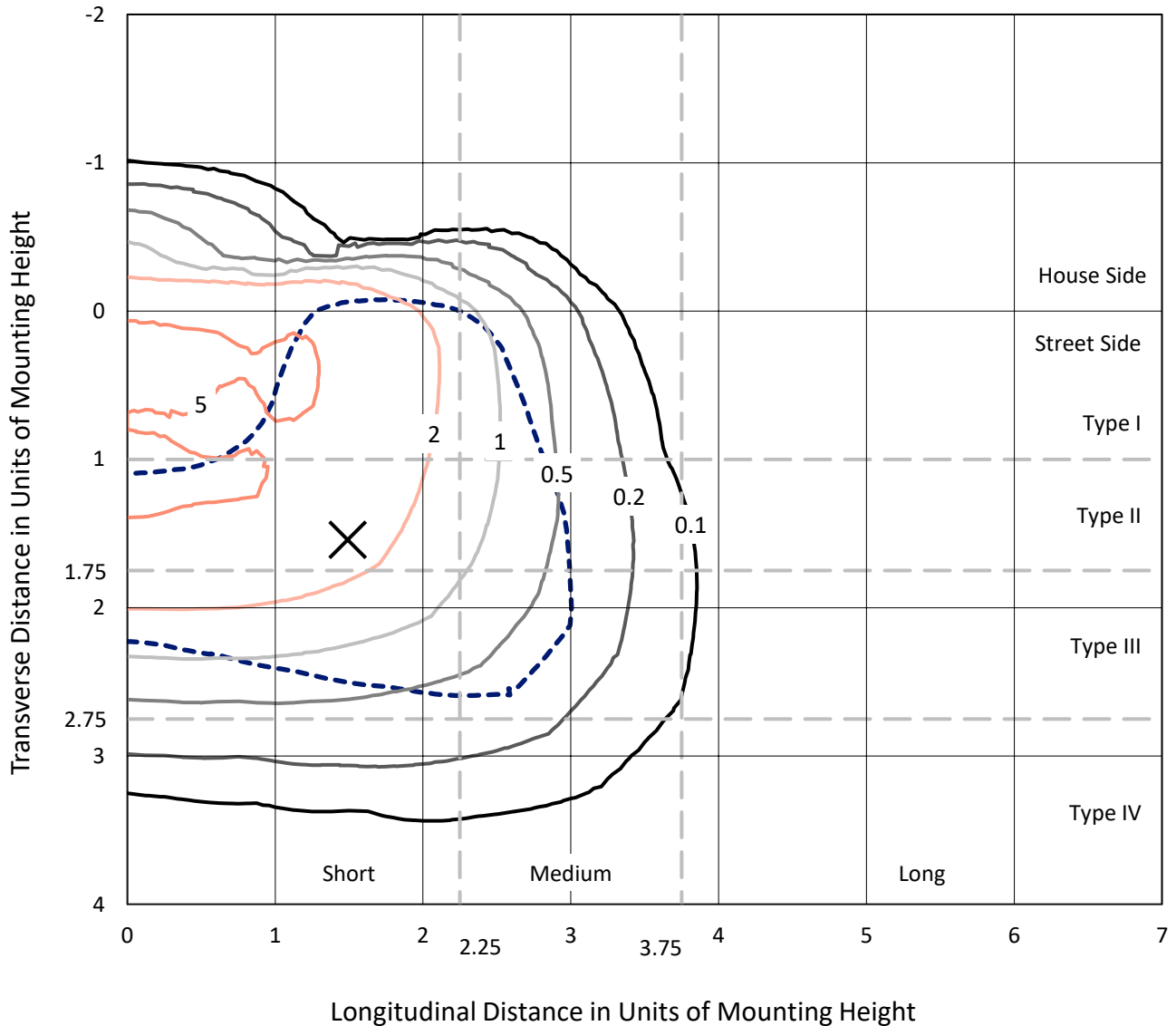
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

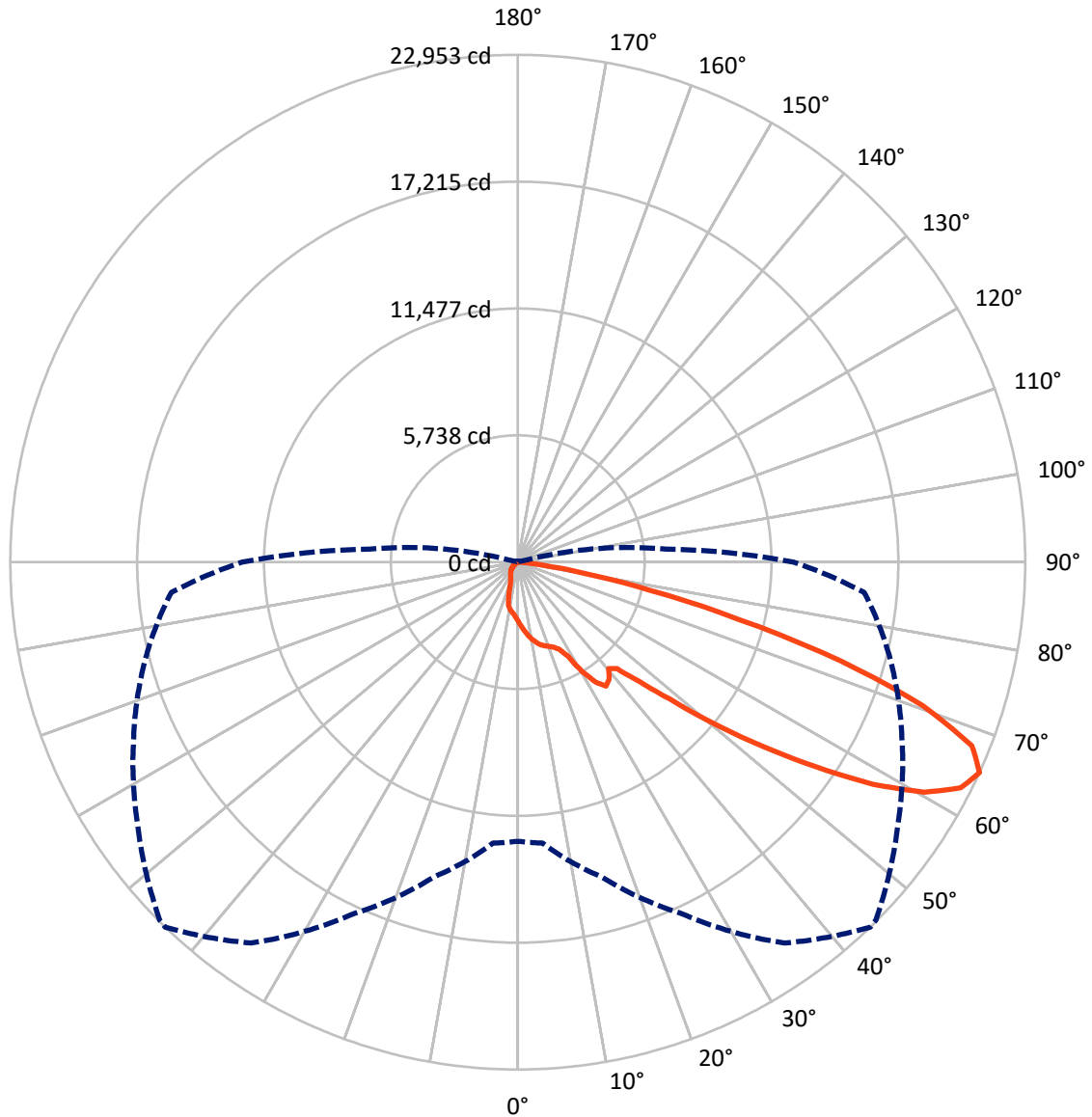
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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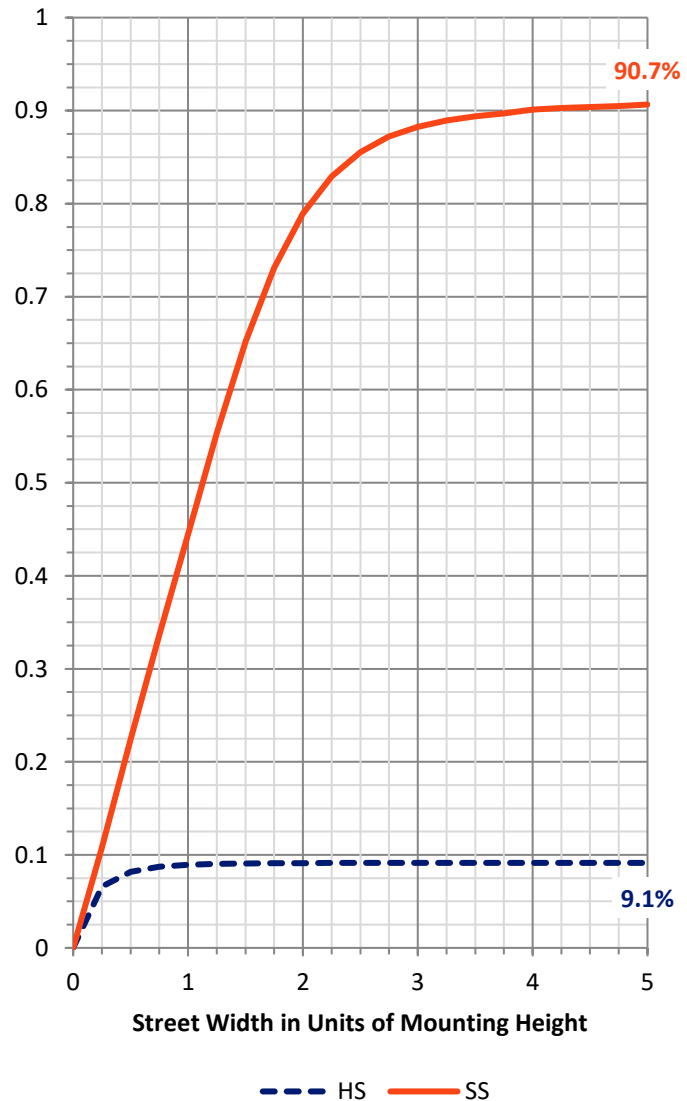
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2641.6 | 0.0 | 2641.6 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 26029.4 | 0.0 | 26029.4 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 28671.0 | 0.0 | 28671.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 265.4 | 0.9 |
| 10°-20° | 798.8 | 2.8 |
| 20°-30° | 1354.4 | 4.7 |
| 30°-40° | 2252.0 | 7.9 |
| 40°-50° | 3932.0 | 13.7 |
| 50°-60° | 7681.7 | 26.8 |
| 60°-70° | 8912.6 | 31.1 |
| 70°-80° | 3245.5 | 11.3 |
| 80°-90° | 228.7 | 0.8 |
| 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° | 28671.0 | 100.0 |
| 0°-180° | 28671.0 | 100.0 |



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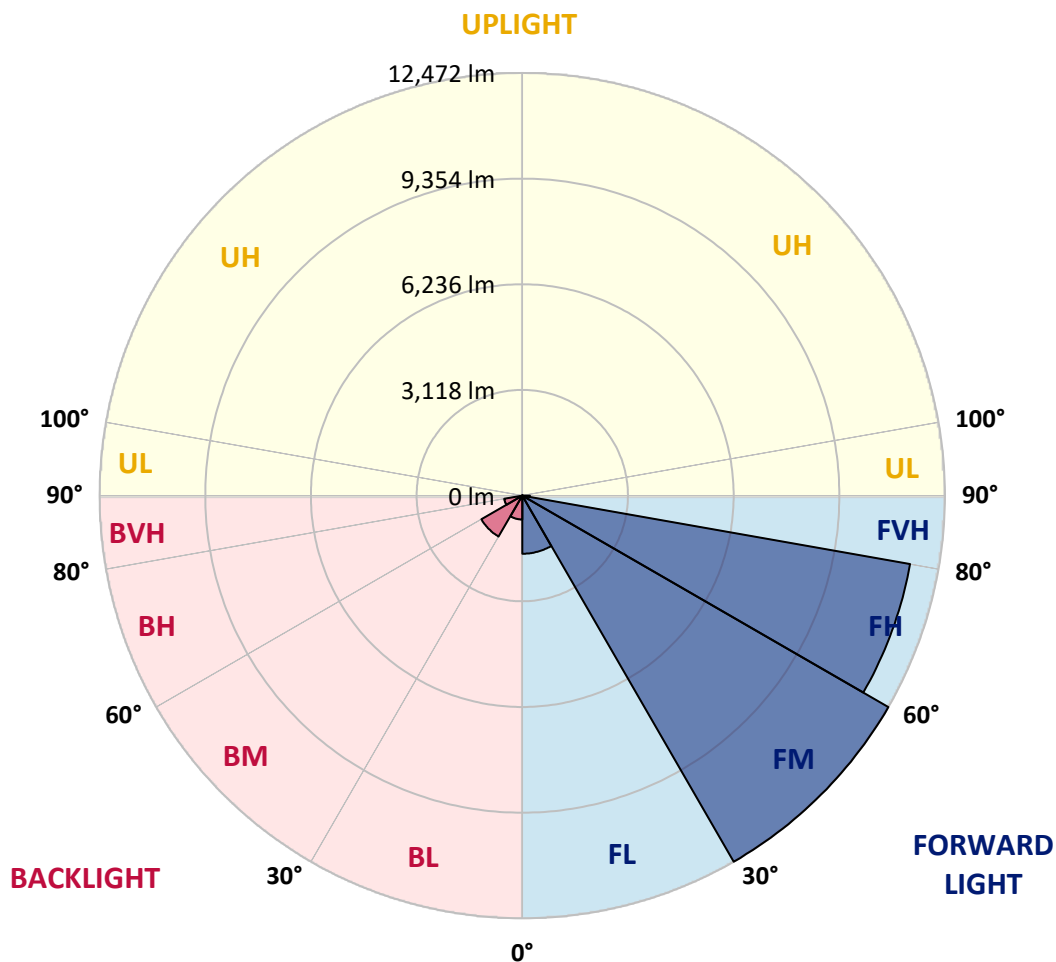
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1714.8 | 6.0 | | | |
| FM | (30°-60°) | 12471.9 | 43.5 | | | |
| FH | (60°-80°) | 11617.1 | 40.5 | | | G4/12000 |
| FVH | (80°-90°) | 225.6 | 0.8 | | | G3/500 |
| BL | (0°-30°) | 703.8 | 2.5 | B2/1000 | | |
| BM | (30°-60°) | 1393.7 | 4.9 | B2/2500 | | |
| BH | (60°-80°) | 541.0 | 1.9 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 3.1 | 0.0 | | | G0/10 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 |
| 2.5° | 3003.6 | 2990.5 | 2983.9 | 2948.8 | 2922.5 | 2889.7 | 2889.7 | 2848.1 | 2799.9 | 2747.3 | 2699.1 |
| 5° | 3338.8 | 3316.9 | 3288.4 | 3257.7 | 3196.4 | 3108.8 | 3108.8 | 3021.1 | 2920.4 | 2830.5 | 2731.9 |
| 7.5° | 3660.9 | 3641.1 | 3592.9 | 3533.8 | 3433.0 | 3341.0 | 3334.4 | 3207.4 | 3086.9 | 2951.0 | 2810.8 |
| 10° | 3943.5 | 3928.1 | 3886.5 | 3772.6 | 3667.4 | 3546.9 | 3544.7 | 3402.3 | 3262.1 | 3095.6 | 2922.5 |
| 12.5° | 4140.6 | 4142.8 | 4088.1 | 3978.5 | 3842.7 | 3728.8 | 3720.0 | 3579.8 | 3433.0 | 3253.4 | 3040.9 |
| 15° | 4280.9 | 4280.9 | 4223.9 | 4101.2 | 3978.5 | 3877.7 | 3869.0 | 3746.3 | 3595.1 | 3400.1 | 3170.1 |
| 17.5° | 4320.3 | 4333.4 | 4272.1 | 4162.6 | 4064.0 | 3976.3 | 3974.1 | 3871.2 | 3750.7 | 3562.3 | 3301.6 |
| 20° | 4305.0 | 4318.1 | 4269.9 | 4184.5 | 4116.5 | 4066.2 | 4059.6 | 4018.0 | 3906.2 | 3728.8 | 3441.8 |
| 22.5° | 4272.1 | 4285.2 | 4250.2 | 4199.8 | 4166.9 | 4182.3 | 4171.3 | 4206.4 | 4147.2 | 3932.5 | 3608.3 |
| 25° | 4278.7 | 4291.8 | 4265.5 | 4237.0 | 4265.5 | 4359.7 | 4388.2 | 4539.4 | 4486.8 | 4191.0 | 3787.9 |
| 27.5° | 4484.6 | 4510.9 | 4473.6 | 4486.8 | 4587.6 | 4806.7 | 4861.4 | 5122.1 | 4889.9 | 4519.7 | 4068.3 |
| 30° | 4942.5 | 4925.0 | 4854.9 | 4918.4 | 5268.9 | 5733.4 | 5718.0 | 5676.4 | 5312.7 | 4898.7 | 4401.4 |
| 32.5° | 5358.7 | 5343.4 | 5339.0 | 5612.9 | 6248.2 | 6473.9 | 6462.9 | 6059.8 | 5691.7 | 5332.4 | 4730.0 |
| 35° | 5527.4 | 5468.3 | 5455.1 | 6119.0 | 7181.5 | 6883.5 | 6815.6 | 6217.5 | 6151.8 | 5805.7 | 5065.2 |
| 37.5° | 6035.7 | 5994.1 | 5790.3 | 6202.2 | 6809.1 | 6710.5 | 6657.9 | 6489.2 | 6642.6 | 6224.1 | 5444.2 |
| 40° | 7082.9 | 6966.8 | 6782.8 | 6379.7 | 6281.1 | 6322.7 | 6375.3 | 6837.5 | 7223.1 | 6795.9 | 5950.3 |
| 42.5° | 8384.3 | 8358.0 | 8016.2 | 7264.7 | 6526.4 | 6583.4 | 6651.3 | 7564.9 | 8057.8 | 7656.9 | 6776.2 |
| 45° | 9946.3 | 9983.6 | 9490.6 | 8603.3 | 7635.0 | 7683.2 | 7781.8 | 8638.4 | 9188.3 | 8995.5 | 8075.4 |
| 47.5° | 11366.0 | 11337.5 | 11171.0 | 10248.6 | 9354.8 | 9247.4 | 9407.4 | 10016.4 | 10752.5 | 10783.2 | 9687.8 |
| 50° | 12794.4 | 12945.5 | 12698.0 | 12336.5 | 11672.7 | 11447.0 | 11387.9 | 11685.8 | 12807.5 | 12660.7 | 11624.5 |
| 52.5° | 14847.2 | 14926.0 | 14461.6 | 14369.6 | 14520.7 | 13789.0 | 13729.8 | 13802.1 | 14805.5 | 14301.7 | 13074.8 |
| 55° | 16137.6 | 16091.6 | 15918.5 | 16637.1 | 17235.2 | 16321.6 | 16247.1 | 15955.7 | 16464.0 | 15460.6 | 14470.3 |
| 57.5° | 16545.0 | 16610.8 | 17013.9 | 18313.0 | 19728.3 | 18952.8 | 18816.9 | 17988.8 | 17660.2 | 16540.7 | 15754.2 |
| 60° | 16363.2 | 16483.7 | 17353.5 | 19285.8 | 21248.7 | 21132.6 | 21016.5 | 19625.3 | 18519.0 | 17443.3 | 16654.6 |
| 62.5° | 15068.4 | 15237.1 | 16628.3 | 19112.7 | 21763.6 | 22488.7 | 22344.1 | 20646.3 | 19090.8 | 17881.4 | 16812.3 |
| 65° | 12627.9 | 12752.7 | 14750.8 | 17541.9 | 21031.8 | 22953.2 | 22900.6 | 20966.1 | 19180.6 | 17480.5 | 15732.3 |
| 67.5° | 9002.1 | 9427.1 | 11278.3 | 14783.6 | 18867.3 | 22160.1 | 22249.9 | 20582.7 | 18337.1 | 15747.6 | 13028.8 |
| 70° | 5658.9 | 5948.1 | 7275.7 | 10583.8 | 15125.4 | 19441.3 | 19737.1 | 18827.9 | 15914.1 | 12275.1 | 8721.6 |
| 72.5° | 2699.1 | 2913.8 | 3860.2 | 6699.5 | 10675.9 | 15296.3 | 15530.7 | 15456.2 | 12305.8 | 7733.6 | 4499.9 |
| 75° | 1202.8 | 1283.8 | 1842.5 | 3419.9 | 6892.3 | 10281.5 | 10888.4 | 10989.1 | 7689.8 | 3783.5 | 1750.5 |
| 77.5° | 613.4 | 615.6 | 863.2 | 1656.3 | 3441.8 | 6134.3 | 6254.8 | 6607.5 | 4169.1 | 1667.2 | 609.0 |
| 80° | 326.4 | 348.3 | 457.9 | 782.1 | 1785.5 | 3021.1 | 3005.8 | 3303.8 | 1849.0 | 817.2 | 203.7 |
| 82.5° | 146.8 | 162.1 | 258.5 | 409.7 | 871.9 | 1145.8 | 1235.6 | 1351.7 | 793.1 | 521.4 | 89.8 |
| 85° | 43.8 | 52.6 | 127.1 | 205.9 | 315.5 | 330.8 | 370.2 | 477.6 | 449.1 | 370.2 | 46.0 |
| 87.5° | 6.6 | 6.6 | 52.6 | 57.0 | 46.0 | 59.2 | 61.3 | 67.9 | 144.6 | 135.8 | 24.1 |
| 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° | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 | 2668.4 |
| 2.5° | 2672.8 | 2657.5 | 2602.7 | 2556.7 | 2517.2 | 2493.1 | 2464.7 | 2447.1 | 2438.4 | 2431.8 | 2434.0 |
| 5° | 2683.8 | 2646.5 | 2552.3 | 2477.8 | 2420.9 | 2359.5 | 2317.9 | 2293.8 | 2282.8 | 2265.3 | 2265.3 |
| 7.5° | 2745.1 | 2685.9 | 2554.5 | 2440.6 | 2342.0 | 2258.7 | 2179.9 | 2151.4 | 2131.7 | 2127.3 | 2122.9 |
| 10° | 2832.7 | 2758.2 | 2578.6 | 2420.9 | 2280.6 | 2166.7 | 2055.0 | 1956.4 | 1879.7 | 1833.7 | 1827.1 |
| 12.5° | 2942.3 | 2834.9 | 2615.8 | 2407.7 | 2228.1 | 2026.5 | 1730.7 | 1531.4 | 1397.7 | 1356.1 | 1362.7 |
| 15° | 3043.0 | 2926.9 | 2653.1 | 2396.8 | 2131.7 | 1680.4 | 1345.2 | 1117.3 | 1049.4 | 1042.8 | 1045.0 |
| 17.5° | 3163.5 | 3025.5 | 2696.9 | 2381.4 | 1866.6 | 1283.8 | 999.0 | 937.7 | 950.8 | 972.7 | 970.5 |
| 20° | 3288.4 | 3130.7 | 2749.5 | 2289.4 | 1489.8 | 966.2 | 882.9 | 889.5 | 909.2 | 928.9 | 933.3 |
| 22.5° | 3422.1 | 3251.2 | 2810.8 | 2068.1 | 1137.0 | 841.3 | 836.9 | 845.7 | 865.4 | 887.3 | 891.7 |
| 25° | 3606.1 | 3402.3 | 2856.8 | 1778.9 | 861.0 | 777.7 | 786.5 | 801.8 | 819.4 | 843.5 | 847.8 |
| 27.5° | 3842.7 | 3606.1 | 2880.9 | 1402.1 | 744.9 | 720.8 | 723.0 | 744.9 | 766.8 | 788.7 | 788.7 |
| 30° | 4149.4 | 3849.3 | 2832.7 | 1060.4 | 687.9 | 666.0 | 657.2 | 670.4 | 698.9 | 720.8 | 723.0 |
| 32.5° | 4423.3 | 4079.3 | 2705.7 | 810.6 | 646.3 | 615.6 | 593.7 | 595.9 | 606.9 | 620.0 | 622.2 |
| 35° | 4697.1 | 4302.8 | 2488.8 | 681.3 | 602.5 | 567.4 | 534.6 | 517.0 | 508.3 | 501.7 | 508.3 |
| 37.5° | 5047.6 | 4581.0 | 2199.6 | 620.0 | 565.2 | 521.4 | 475.4 | 438.2 | 407.5 | 387.8 | 392.2 |
| 40° | 5499.0 | 4966.6 | 1857.8 | 580.6 | 530.2 | 477.6 | 416.3 | 368.1 | 315.5 | 298.0 | 289.2 |
| 42.5° | 6243.8 | 5551.5 | 1498.5 | 547.7 | 495.1 | 431.6 | 354.9 | 289.2 | 241.0 | 223.5 | 227.8 |
| 45° | 7420.3 | 6289.8 | 1154.6 | 512.7 | 460.1 | 381.2 | 298.0 | 227.8 | 188.4 | 179.6 | 184.0 |
| 47.5° | 8980.2 | 7245.0 | 889.5 | 473.2 | 416.3 | 326.4 | 234.4 | 179.6 | 155.5 | 153.4 | 151.2 |
| 50° | 10448.0 | 8134.5 | 742.7 | 429.4 | 363.7 | 271.7 | 192.8 | 151.2 | 135.8 | 133.6 | 133.6 |
| 52.5° | 11775.6 | 8772.0 | 604.7 | 379.0 | 306.7 | 223.5 | 162.1 | 133.6 | 120.5 | 113.9 | 113.9 |
| 55° | 12956.5 | 9188.3 | 490.7 | 317.7 | 241.0 | 177.5 | 140.2 | 120.5 | 105.2 | 96.4 | 94.2 |
| 57.5° | 13848.2 | 9238.7 | 368.1 | 254.1 | 179.6 | 138.0 | 120.5 | 105.2 | 87.6 | 76.7 | 72.3 |
| 60° | 14229.4 | 8802.7 | 271.7 | 192.8 | 133.6 | 109.5 | 96.4 | 85.4 | 65.7 | 54.8 | 52.6 |
| 62.5° | 13846.0 | 7954.9 | 201.6 | 146.8 | 103.0 | 81.1 | 67.9 | 63.5 | 46.0 | 32.9 | 30.7 |
| 65° | 12472.3 | 6730.2 | 159.9 | 111.7 | 76.7 | 59.2 | 43.8 | 41.6 | 28.5 | 15.3 | 13.1 |
| 67.5° | 9992.3 | 5271.1 | 127.1 | 83.3 | 54.8 | 39.4 | 28.5 | 26.3 | 15.3 | 4.4 | 4.4 |
| 70° | 6498.0 | 3369.5 | 103.0 | 61.3 | 35.1 | 26.3 | 17.5 | 13.1 | 8.8 | 2.2 | 0.0 |
| 72.5° | 3213.9 | 1575.2 | 83.3 | 48.2 | 24.1 | 13.1 | 6.6 | 4.4 | 6.6 | 0.0 | 0.0 |
| 75° | 1246.6 | 560.8 | 61.3 | 32.9 | 13.1 | 6.6 | 4.4 | 0.0 | 2.2 | 0.0 | 0.0 |
| 77.5° | 414.1 | 186.2 | 37.2 | 17.5 | 8.8 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 153.4 | 72.3 | 19.7 | 11.0 | 4.4 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 61.3 | 28.5 | 13.1 | 8.8 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 30.7 | 17.5 | 8.8 | 6.6 | 4.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 21.9 | 13.1 | 8.8 | 6.6 | 4.4 | 2.2 | 0.0 | 0.0 | 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)