

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: P455292

Luminaire Tested: **GALN-SA6C-722-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455292
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-SA6C-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 1050mA 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: 22170 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

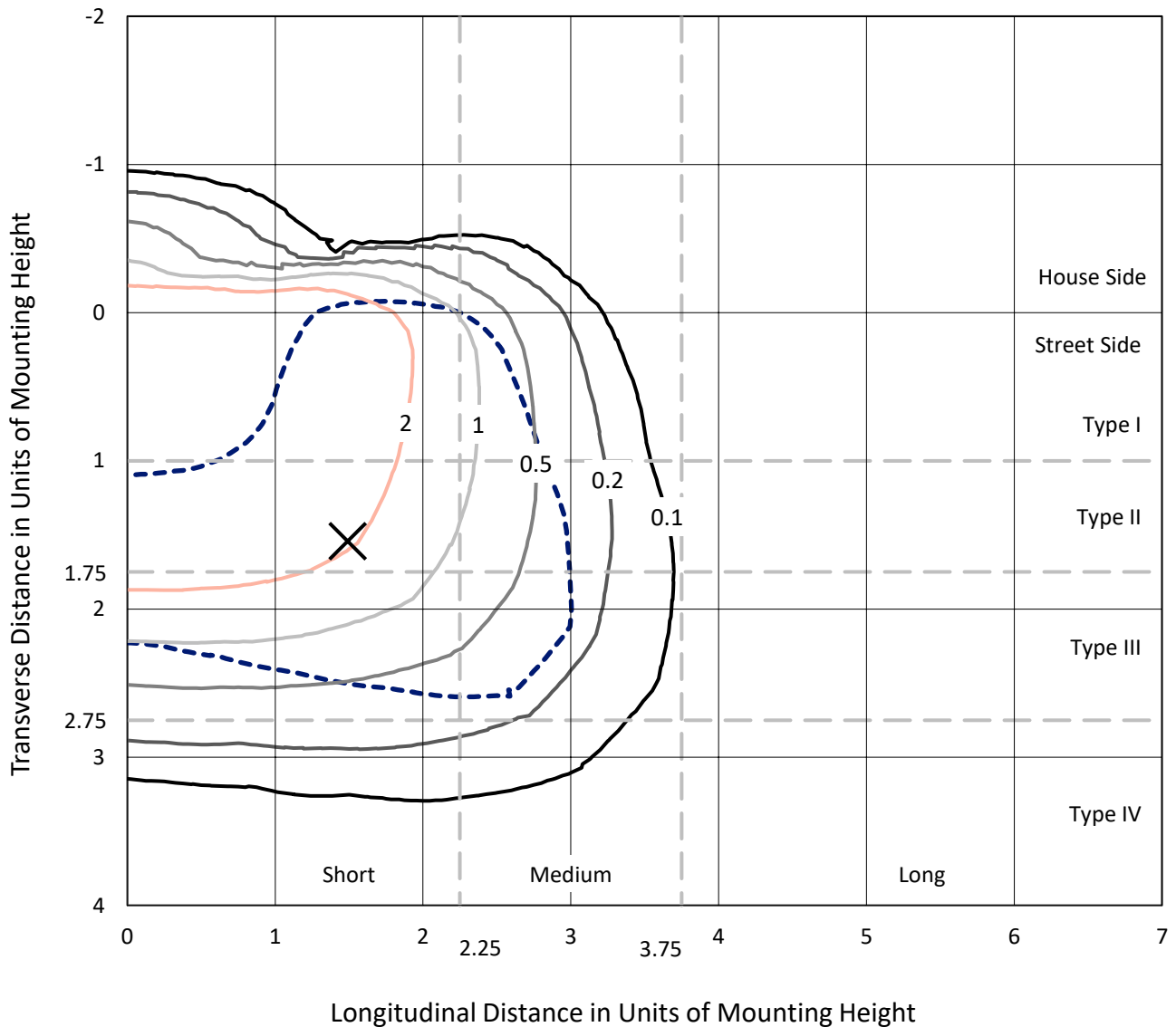
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

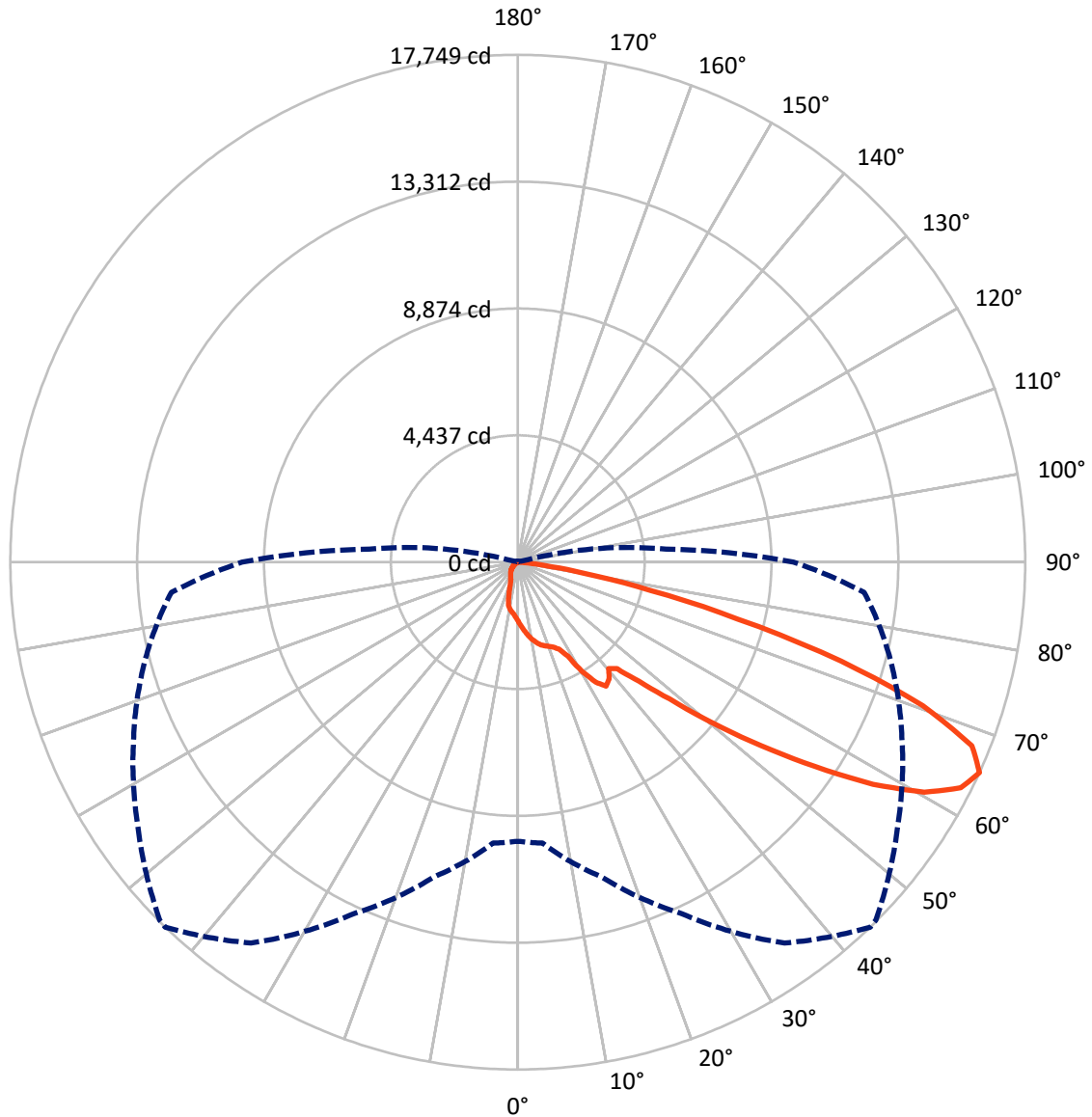
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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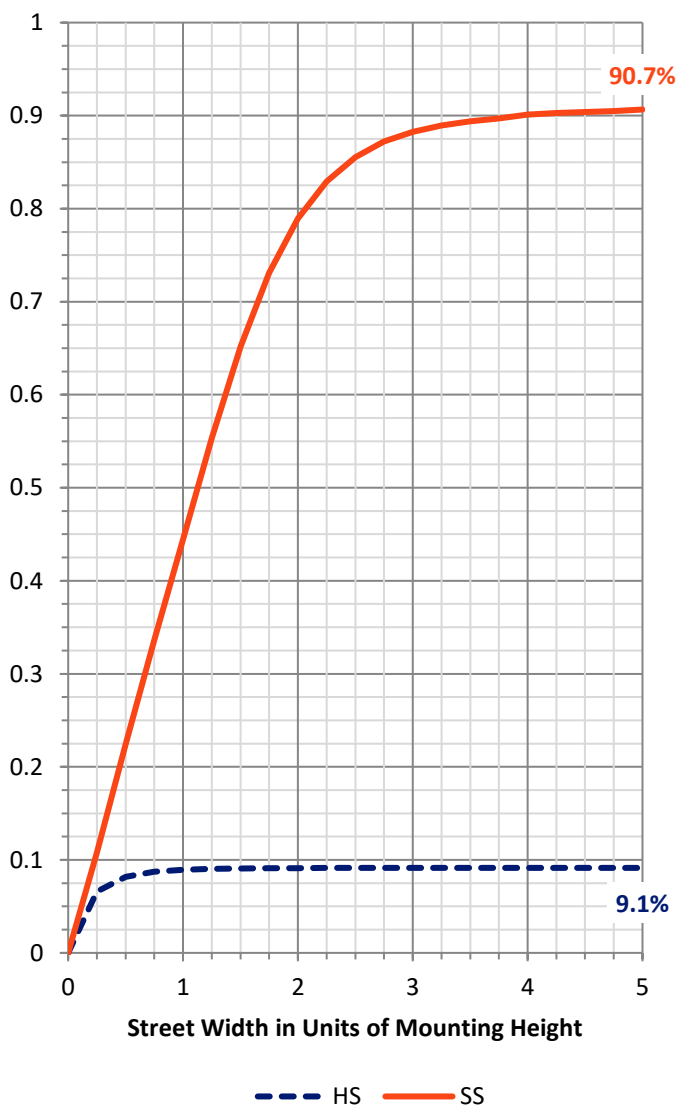
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2042.6 | 0.0 | 2042.6 |
| | % Fixture | 9.2 | 0.0 | 9.2 |
| Street Side | Lumens | 20127.4 | 0.0 | 20127.4 |
| | % Fixture | 90.8 | 0.0 | 90.8 |
| Total | Lumens | 22170.0 | 0.0 | 22170.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 205.2 | 0.9 |
| 10°-20° | 617.7 | 2.8 |
| 20°-30° | 1047.3 | 4.7 |
| 30°-40° | 1741.3 | 7.9 |
| 40°-50° | 3040.4 | 13.7 |
| 50°-60° | 5939.9 | 26.8 |
| 60°-70° | 6891.7 | 31.1 |
| 70°-80° | 2509.6 | 11.3 |
| 80°-90° | 176.8 | 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° | 22170.0 | 100.0 |
| 0°-180° | 22170.0 | 100.0 |

Coefficient of Utilization



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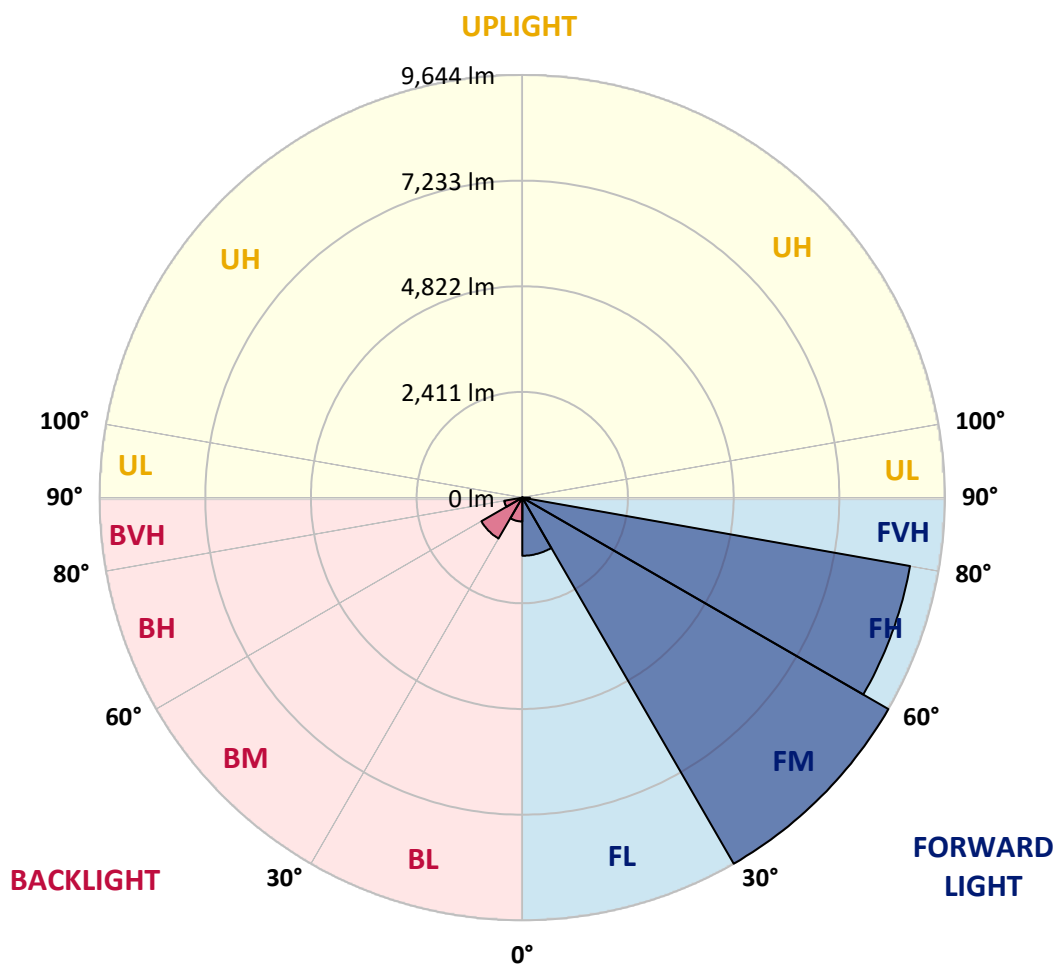
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1326.0 | 6.0 | | | |
| FM | (30°-60°) | 9644.0 | 43.5 | | | |
| FH | (60°-80°) | 8983.0 | 40.5 | | | G4/12000 |
| FVH | (80°-90°) | 174.4 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 544.2 | 2.5 | B2/1000 | | |
| BM | (30°-60°) | 1077.7 | 4.9 | B2/2500 | | |
| BH | (60°-80°) | 418.3 | 1.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 2.4 | 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° | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 |
| 2.5° | 2322.6 | 2312.4 | 2307.3 | 2280.2 | 2259.9 | 2234.5 | 2234.5 | 2202.3 | 2165.0 | 2124.4 | 2087.1 |
| 5° | 2581.7 | 2564.8 | 2542.8 | 2519.1 | 2471.6 | 2403.9 | 2403.9 | 2336.1 | 2258.2 | 2188.7 | 2112.5 |
| 7.5° | 2830.8 | 2815.5 | 2778.3 | 2732.5 | 2654.6 | 2583.4 | 2578.4 | 2480.1 | 2386.9 | 2281.9 | 2173.5 |
| 10° | 3049.3 | 3037.5 | 3005.3 | 2917.2 | 2835.9 | 2742.7 | 2741.0 | 2630.9 | 2522.5 | 2393.7 | 2259.9 |
| 12.5° | 3201.8 | 3203.5 | 3161.1 | 3076.4 | 2971.4 | 2883.3 | 2876.5 | 2768.1 | 2654.6 | 2515.7 | 2351.4 |
| 15° | 3310.2 | 3310.2 | 3266.1 | 3171.3 | 3076.4 | 2998.5 | 2991.7 | 2896.8 | 2780.0 | 2629.2 | 2451.3 |
| 17.5° | 3340.7 | 3350.9 | 3303.4 | 3218.7 | 3142.5 | 3074.7 | 3073.0 | 2993.4 | 2900.2 | 2754.5 | 2552.9 |
| 20° | 3328.8 | 3339.0 | 3301.7 | 3235.7 | 3183.1 | 3144.2 | 3139.1 | 3106.9 | 3020.5 | 2883.3 | 2661.4 |
| 22.5° | 3303.4 | 3313.6 | 3286.5 | 3247.5 | 3222.1 | 3234.0 | 3225.5 | 3252.6 | 3206.9 | 3040.8 | 2790.1 |
| 25° | 3308.5 | 3318.7 | 3298.3 | 3276.3 | 3298.3 | 3371.2 | 3393.2 | 3510.1 | 3469.4 | 3240.7 | 2929.0 |
| 27.5° | 3467.7 | 3488.1 | 3459.3 | 3469.4 | 3547.4 | 3716.8 | 3759.1 | 3960.7 | 3781.1 | 3494.8 | 3145.9 |
| 30° | 3821.8 | 3808.2 | 3754.0 | 3803.2 | 4074.2 | 4433.4 | 4421.5 | 4389.3 | 4108.1 | 3787.9 | 3403.4 |
| 32.5° | 4143.7 | 4131.8 | 4128.4 | 4340.2 | 4831.5 | 5005.9 | 4997.5 | 4685.8 | 4401.2 | 4123.3 | 3657.5 |
| 35° | 4274.1 | 4228.4 | 4218.2 | 4731.5 | 5553.1 | 5322.7 | 5270.2 | 4807.7 | 4756.9 | 4489.3 | 3916.7 |
| 37.5° | 4667.1 | 4634.9 | 4477.4 | 4795.9 | 5265.1 | 5188.9 | 5148.3 | 5017.8 | 5136.4 | 4812.8 | 4209.7 |
| 40° | 5476.9 | 5387.1 | 5244.8 | 4933.1 | 4856.9 | 4889.1 | 4929.7 | 5287.2 | 5585.3 | 5255.0 | 4601.1 |
| 42.5° | 6483.2 | 6462.8 | 6198.6 | 5617.5 | 5046.6 | 5090.7 | 5143.2 | 5849.6 | 6230.8 | 5920.7 | 5239.7 |
| 45° | 7691.0 | 7719.8 | 7338.7 | 6652.6 | 5903.8 | 5941.1 | 6017.3 | 6679.7 | 7104.9 | 6955.8 | 6244.3 |
| 47.5° | 8788.8 | 8766.8 | 8638.0 | 7924.8 | 7233.6 | 7150.6 | 7274.3 | 7745.2 | 8314.4 | 8338.2 | 7491.1 |
| 50° | 9893.3 | 10010.2 | 9818.8 | 9539.3 | 9026.0 | 8851.5 | 8805.7 | 9036.1 | 9903.5 | 9790.0 | 8988.7 |
| 52.5° | 11480.6 | 11541.6 | 11182.5 | 11111.3 | 11228.2 | 10662.4 | 10616.7 | 10672.6 | 11448.5 | 11058.8 | 10110.2 |
| 55° | 12478.5 | 12442.9 | 12309.0 | 12864.7 | 13327.2 | 12620.8 | 12563.2 | 12337.8 | 12730.9 | 11955.0 | 11189.3 |
| 57.5° | 12793.5 | 12844.4 | 13156.1 | 14160.7 | 15255.0 | 14655.3 | 14550.3 | 13909.9 | 13655.8 | 12790.2 | 12182.0 |
| 60° | 12652.9 | 12746.1 | 13418.7 | 14912.8 | 16430.7 | 16340.9 | 16251.1 | 15175.4 | 14319.9 | 13488.1 | 12878.2 |
| 62.5° | 11651.7 | 11782.2 | 12857.9 | 14779.0 | 16828.8 | 17389.5 | 17277.7 | 15964.8 | 14762.0 | 13826.9 | 13000.2 |
| 65° | 9764.6 | 9861.1 | 11406.1 | 13564.3 | 16263.0 | 17748.7 | 17708.0 | 16212.2 | 14831.5 | 13516.9 | 12165.0 |
| 67.5° | 6960.9 | 7289.5 | 8721.0 | 11431.5 | 14589.3 | 17135.4 | 17204.9 | 15915.7 | 14179.3 | 12176.9 | 10074.6 |
| 70° | 4375.8 | 4599.4 | 5626.0 | 8184.0 | 11695.8 | 15033.1 | 15261.8 | 14558.8 | 12305.7 | 9491.8 | 6744.1 |
| 72.5° | 2087.1 | 2253.1 | 2984.9 | 5180.4 | 8255.2 | 11827.9 | 12009.2 | 11951.6 | 9515.5 | 5980.0 | 3479.6 |
| 75° | 930.0 | 992.7 | 1424.7 | 2644.4 | 5329.5 | 7950.2 | 8419.5 | 8497.4 | 5946.2 | 2925.6 | 1353.6 |
| 77.5° | 474.3 | 476.0 | 667.5 | 1280.7 | 2661.4 | 4743.4 | 4836.5 | 5109.3 | 3223.8 | 1289.2 | 470.9 |
| 80° | 252.4 | 269.4 | 354.1 | 604.8 | 1380.7 | 2336.1 | 2324.3 | 2554.6 | 1429.8 | 631.9 | 157.5 |
| 82.5° | 113.5 | 125.4 | 199.9 | 316.8 | 674.2 | 886.0 | 955.5 | 1045.2 | 613.2 | 403.2 | 69.5 |
| 85° | 33.9 | 40.7 | 98.3 | 159.2 | 243.9 | 255.8 | 286.3 | 369.3 | 347.3 | 286.3 | 35.6 |
| 87.5° | 5.1 | 5.1 | 40.7 | 44.0 | 35.6 | 45.7 | 47.4 | 52.5 | 111.8 | 105.0 | 18.6 |
| 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° | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 | 2063.4 |
| 2.5° | 2066.8 | 2054.9 | 2012.5 | 1977.0 | 1946.5 | 1927.8 | 1905.8 | 1892.3 | 1885.5 | 1880.4 | 1882.1 |
| 5° | 2075.2 | 2046.4 | 1973.6 | 1916.0 | 1871.9 | 1824.5 | 1792.3 | 1773.7 | 1765.2 | 1751.7 | 1751.7 |
| 7.5° | 2122.7 | 2076.9 | 1975.3 | 1887.2 | 1811.0 | 1746.6 | 1685.6 | 1663.6 | 1648.3 | 1644.9 | 1641.5 |
| 10° | 2190.4 | 2132.8 | 1993.9 | 1871.9 | 1763.5 | 1675.4 | 1589.0 | 1512.8 | 1453.5 | 1417.9 | 1412.8 |
| 12.5° | 2275.1 | 2192.1 | 2022.7 | 1861.8 | 1722.9 | 1567.0 | 1338.3 | 1184.1 | 1080.8 | 1048.6 | 1053.7 |
| 15° | 2353.1 | 2263.3 | 2051.5 | 1853.3 | 1648.3 | 1299.3 | 1040.2 | 864.0 | 811.5 | 806.4 | 808.1 |
| 17.5° | 2446.2 | 2339.5 | 2085.4 | 1841.4 | 1443.3 | 992.7 | 772.5 | 725.1 | 735.2 | 752.2 | 750.5 |
| 20° | 2542.8 | 2420.8 | 2126.0 | 1770.3 | 1152.0 | 747.1 | 682.7 | 687.8 | 703.0 | 718.3 | 721.7 |
| 22.5° | 2646.1 | 2514.0 | 2173.5 | 1599.2 | 879.2 | 650.5 | 647.1 | 653.9 | 669.2 | 686.1 | 689.5 |
| 25° | 2788.4 | 2630.9 | 2209.1 | 1375.6 | 665.8 | 601.4 | 608.2 | 620.0 | 633.6 | 652.2 | 655.6 |
| 27.5° | 2971.4 | 2788.4 | 2227.7 | 1084.2 | 576.0 | 557.3 | 559.0 | 576.0 | 592.9 | 609.9 | 609.9 |
| 30° | 3208.6 | 2976.5 | 2190.4 | 819.9 | 531.9 | 515.0 | 508.2 | 518.4 | 540.4 | 557.3 | 559.0 |
| 32.5° | 3420.3 | 3154.3 | 2092.2 | 626.8 | 499.7 | 476.0 | 459.1 | 460.8 | 469.3 | 479.4 | 481.1 |
| 35° | 3632.1 | 3327.1 | 1924.5 | 526.9 | 465.9 | 438.8 | 413.4 | 399.8 | 393.0 | 387.9 | 393.0 |
| 37.5° | 3903.1 | 3542.3 | 1700.8 | 479.4 | 437.1 | 403.2 | 367.6 | 338.8 | 315.1 | 299.8 | 303.2 |
| 40° | 4252.1 | 3840.4 | 1436.6 | 448.9 | 410.0 | 369.3 | 321.9 | 284.6 | 243.9 | 230.4 | 223.6 |
| 42.5° | 4828.1 | 4292.7 | 1158.7 | 423.5 | 382.9 | 333.7 | 274.4 | 223.6 | 186.3 | 172.8 | 176.2 |
| 45° | 5737.8 | 4863.6 | 892.8 | 396.4 | 355.8 | 294.8 | 230.4 | 176.2 | 145.7 | 138.9 | 142.3 |
| 47.5° | 6944.0 | 5602.3 | 687.8 | 365.9 | 321.9 | 252.4 | 181.3 | 138.9 | 120.3 | 118.6 | 116.9 |
| 50° | 8079.0 | 6290.0 | 574.3 | 332.0 | 281.2 | 210.1 | 149.1 | 116.9 | 105.0 | 103.3 | 103.3 |
| 52.5° | 9105.6 | 6783.0 | 467.6 | 293.1 | 237.2 | 172.8 | 125.4 | 103.3 | 93.2 | 88.1 | 88.1 |
| 55° | 10018.7 | 7104.9 | 379.5 | 245.6 | 186.3 | 137.2 | 108.4 | 93.2 | 81.3 | 74.5 | 72.8 |
| 57.5° | 10708.2 | 7143.9 | 284.6 | 196.5 | 138.9 | 106.7 | 93.2 | 81.3 | 67.8 | 59.3 | 55.9 |
| 60° | 11002.9 | 6806.7 | 210.1 | 149.1 | 103.3 | 84.7 | 74.5 | 66.1 | 50.8 | 42.4 | 40.7 |
| 62.5° | 10706.5 | 6151.1 | 155.9 | 113.5 | 79.6 | 62.7 | 52.5 | 49.1 | 35.6 | 25.4 | 23.7 |
| 65° | 9644.3 | 5204.2 | 123.7 | 86.4 | 59.3 | 45.7 | 33.9 | 32.2 | 22.0 | 11.9 | 10.2 |
| 67.5° | 7726.6 | 4075.9 | 98.3 | 64.4 | 42.4 | 30.5 | 22.0 | 20.3 | 11.9 | 3.4 | 3.4 |
| 70° | 5024.6 | 2605.5 | 79.6 | 47.4 | 27.1 | 20.3 | 13.6 | 10.2 | 6.8 | 1.7 | 0.0 |
| 72.5° | 2485.2 | 1218.0 | 64.4 | 37.3 | 18.6 | 10.2 | 5.1 | 3.4 | 5.1 | 0.0 | 0.0 |
| 75° | 963.9 | 433.7 | 47.4 | 25.4 | 10.2 | 5.1 | 3.4 | 0.0 | 1.7 | 0.0 | 0.0 |
| 77.5° | 320.2 | 144.0 | 28.8 | 13.6 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 118.6 | 55.9 | 15.2 | 8.5 | 3.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 47.4 | 22.0 | 10.2 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 23.7 | 13.6 | 6.8 | 5.1 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 16.9 | 10.2 | 6.8 | 5.1 | 3.4 | 1.7 | 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)