

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: P532349

Luminaire Tested: **GALN-SA7D-722-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532349
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-722-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26197 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

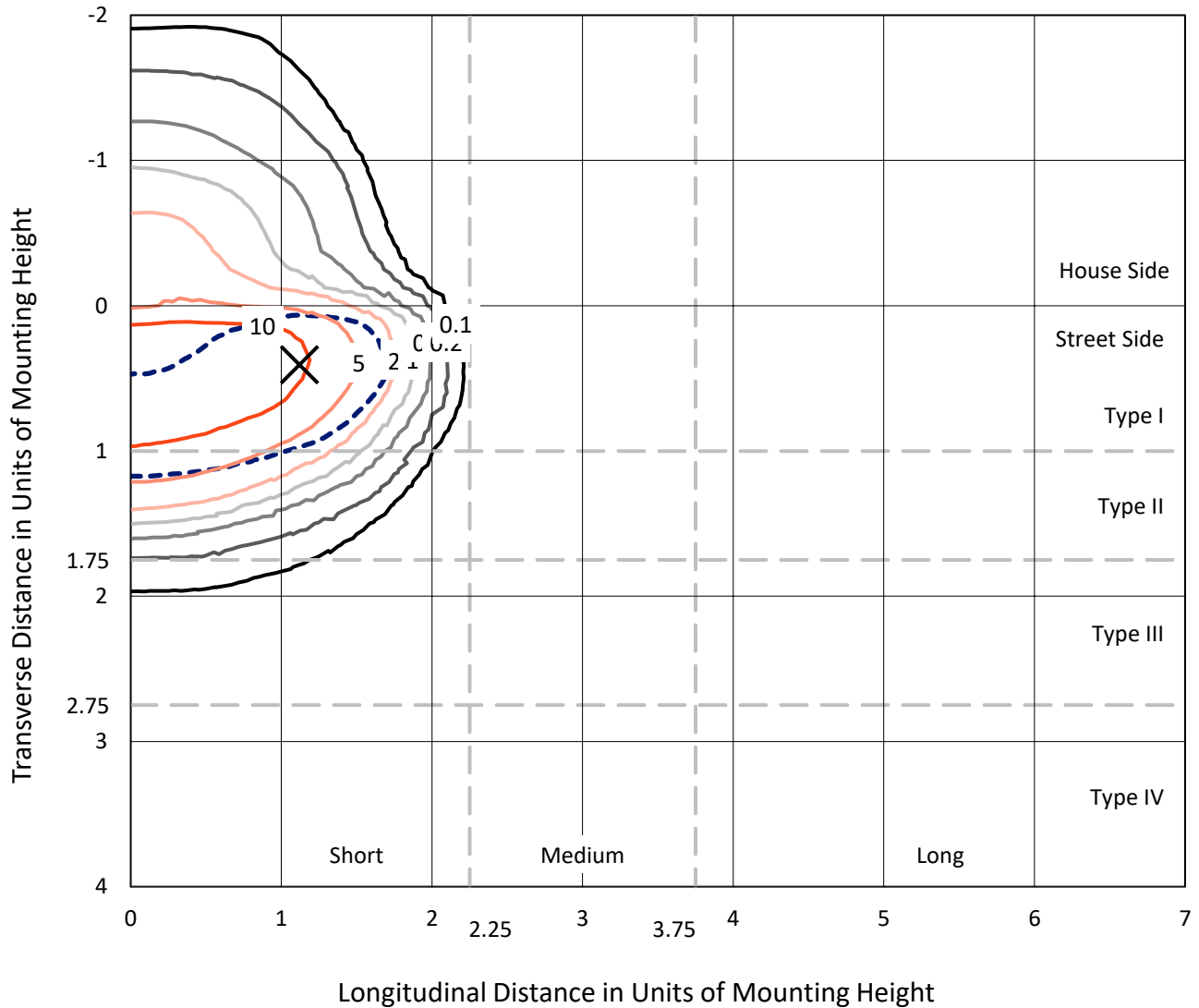
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

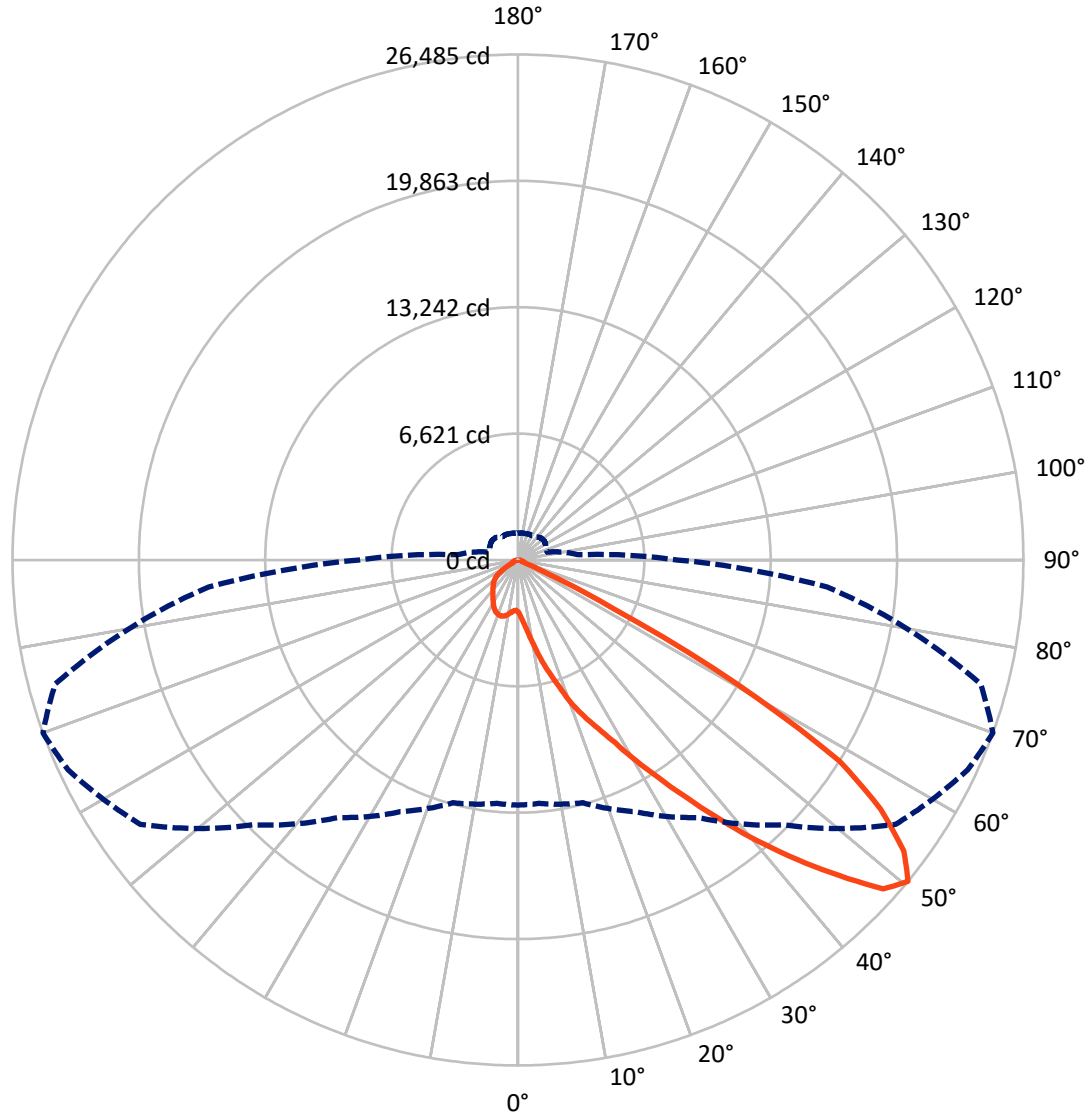
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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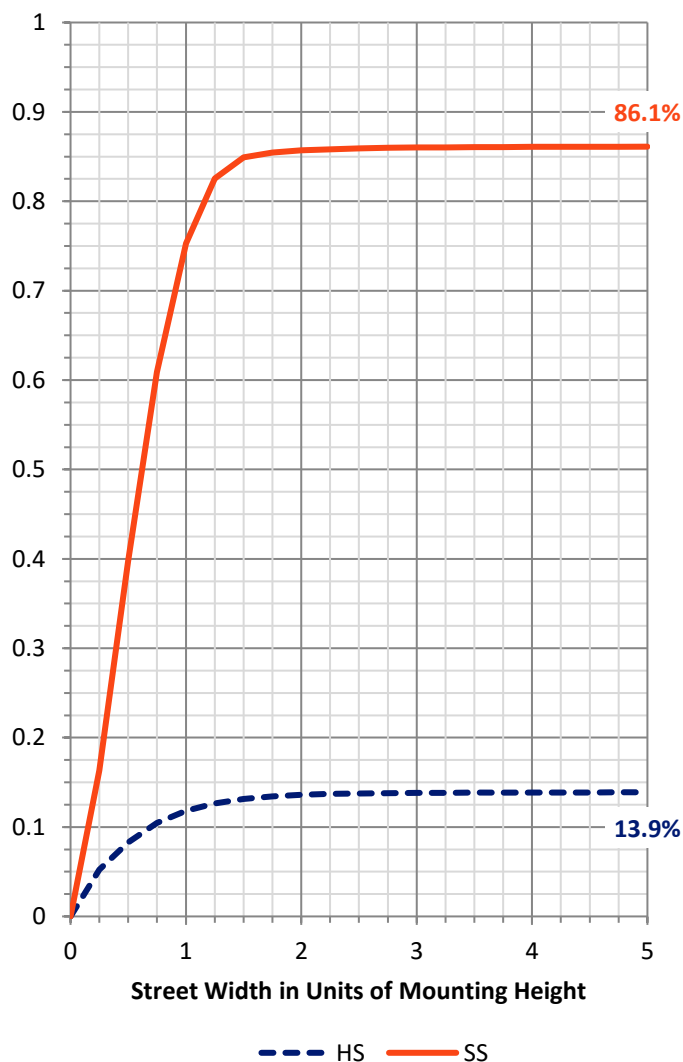
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3658.6 | 0.0 | 3658.6 |
| | % Fixture | 14.0 | 0.0 | 14.0 |
| Street Side | Lumens | 22538.4 | 0.0 | 22538.4 |
| | % Fixture | 86.0 | 0.0 | 86.0 |
| Total | Lumens | 26197.0 | 0.0 | 26197.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 352.9 | 1.3 |
| 10°-20° | 1526.3 | 5.8 |
| 20°-30° | 3202.0 | 12.2 |
| 30°-40° | 5519.1 | 21.1 |
| 40°-50° | 8066.1 | 30.8 |
| 50°-60° | 6282.2 | 24.0 |
| 60°-70° | 1064.4 | 4.1 |
| 70°-80° | 146.2 | 0.6 |
| 80°-90° | 37.9 | 0.1 |
| 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° | 26197.0 | 100.0 |
| 0°-180° | 26197.0 | 100.0 |

Coefficient of Utilization



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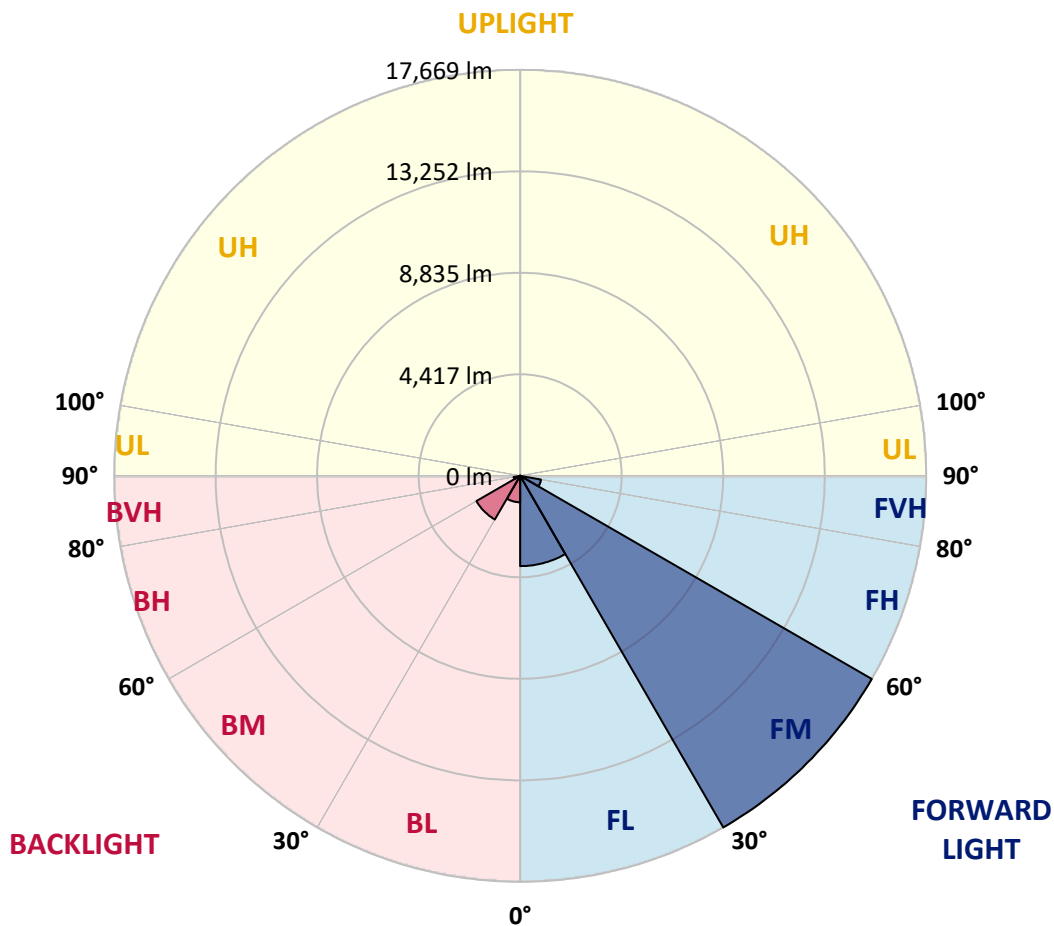
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3929.9 | 15.0 | | | |
| FM (30°-60°) | 17669.4 | 67.4 | | | |
| FH (60°-80°) | 921.6 | 3.5 | | | G1/1800 |
| FVH (80°-90°) | 17.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1151.3 | 4.4 | B3/2500 | | |
| BM (30°-60°) | 2198.0 | 8.4 | B2/2500 | | |
| BH (60°-80°) | 289.0 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 20.4 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 |
| 2.5° | 3553.4 | 3527.5 | 3471.5 | 3368.2 | 3325.1 | 3221.7 | 3161.4 | 3045.1 | 2971.9 | 2890.1 | 2799.6 |
| 5° | 5004.9 | 4871.4 | 4789.5 | 4673.2 | 4333.0 | 4121.9 | 3773.0 | 3475.9 | 3338.0 | 3187.3 | 2980.5 |
| 7.5° | 6503.8 | 6417.6 | 6305.6 | 6055.8 | 5823.2 | 5383.9 | 4785.2 | 4130.5 | 3850.6 | 3592.1 | 3183.0 |
| 10° | 7744.2 | 7503.0 | 7490.1 | 7304.9 | 7050.8 | 6525.3 | 5806.0 | 4992.0 | 4492.3 | 4113.3 | 3471.5 |
| 12.5° | 8610.0 | 8390.3 | 8489.4 | 8467.8 | 8230.9 | 7748.5 | 6917.3 | 5840.5 | 5319.3 | 4729.2 | 3768.7 |
| 15° | 9398.2 | 9307.7 | 9277.6 | 9251.7 | 9157.0 | 8799.5 | 8054.3 | 6874.2 | 6120.4 | 5409.8 | 4104.7 |
| 17.5° | 10169.1 | 9936.6 | 10048.5 | 10070.1 | 10061.5 | 9738.4 | 9040.7 | 7856.2 | 6968.9 | 6129.0 | 4457.9 |
| 20° | 10854.0 | 10875.5 | 10724.8 | 10694.6 | 10668.8 | 10655.8 | 9975.3 | 8829.6 | 8011.3 | 6882.8 | 4918.7 |
| 22.5° | 11732.6 | 11581.9 | 11715.4 | 11629.3 | 11461.3 | 11357.9 | 10836.7 | 9691.0 | 8915.8 | 7791.6 | 5388.2 |
| 25° | 12770.6 | 12891.2 | 12576.8 | 12542.4 | 12357.2 | 11999.7 | 11530.2 | 10655.8 | 9785.8 | 8635.8 | 5896.5 |
| 27.5° | 14049.9 | 13838.8 | 13757.0 | 13567.5 | 13231.5 | 13080.8 | 12529.4 | 11650.8 | 10836.7 | 9523.1 | 6387.5 |
| 30° | 15148.2 | 15092.2 | 14683.0 | 14459.0 | 14166.2 | 14161.9 | 13390.9 | 12998.9 | 12206.4 | 10914.3 | 7063.7 |
| 32.5° | 16044.1 | 15798.6 | 15647.8 | 15492.8 | 15255.9 | 15320.5 | 14670.1 | 14463.4 | 13666.5 | 12206.4 | 7860.5 |
| 35° | 16642.8 | 16466.2 | 16375.7 | 16138.8 | 16069.9 | 16358.5 | 16087.1 | 16001.0 | 15346.3 | 14024.0 | 8795.2 |
| 37.5° | 16832.3 | 16888.3 | 16871.0 | 16573.8 | 16720.3 | 17499.9 | 17848.8 | 17624.8 | 17280.2 | 15940.7 | 9807.3 |
| 40° | 17000.3 | 17039.0 | 16952.9 | 17301.8 | 17719.5 | 18606.8 | 19868.8 | 19498.4 | 19369.2 | 17883.2 | 11215.8 |
| 42.5° | 17095.0 | 17064.9 | 17064.9 | 17667.9 | 18301.0 | 20084.2 | 21819.9 | 21574.4 | 21475.4 | 19950.6 | 12843.9 |
| 45° | 16685.8 | 16392.9 | 16707.4 | 17525.7 | 18800.6 | 20812.1 | 23379.1 | 23719.4 | 23577.2 | 22410.0 | 14747.6 |
| 47.5° | 15156.8 | 15337.7 | 15514.3 | 16608.3 | 18193.3 | 20588.1 | 24335.3 | 25493.9 | 25756.7 | 24477.4 | 15996.7 |
| 50° | 12843.9 | 12805.1 | 13171.2 | 14549.5 | 16474.8 | 19623.3 | 24150.1 | 26006.5 | 26484.6 | 25097.7 | 16259.4 |
| 52.5° | 9342.2 | 9626.4 | 10022.7 | 11392.4 | 13675.1 | 17125.2 | 21759.6 | 24684.2 | 25321.6 | 24335.3 | 16087.1 |
| 55° | 5439.9 | 5125.5 | 6017.1 | 7175.7 | 9329.2 | 12917.1 | 18395.8 | 21880.2 | 23060.4 | 22948.4 | 15217.1 |
| 57.5° | 2179.4 | 2110.5 | 2416.3 | 3256.2 | 4867.1 | 8007.0 | 13378.0 | 17978.0 | 19868.8 | 21018.8 | 13373.6 |
| 60° | 956.2 | 934.6 | 1098.3 | 1326.6 | 1989.9 | 3691.2 | 7317.8 | 11181.3 | 13154.0 | 14687.3 | 9204.3 |
| 62.5° | 689.1 | 680.5 | 762.4 | 844.2 | 1050.9 | 1606.6 | 3075.3 | 4505.3 | 5616.5 | 6783.7 | 4121.9 |
| 65° | 555.6 | 577.2 | 633.1 | 676.2 | 775.3 | 891.6 | 1085.4 | 1253.4 | 1537.6 | 1593.6 | 908.8 |
| 67.5° | 452.2 | 469.5 | 521.2 | 568.5 | 585.8 | 482.4 | 499.6 | 439.3 | 439.3 | 391.9 | 314.4 |
| 70° | 331.6 | 336.0 | 396.3 | 452.2 | 361.8 | 193.8 | 340.3 | 340.3 | 305.8 | 292.9 | 267.0 |
| 72.5° | 245.5 | 249.8 | 297.2 | 280.0 | 142.1 | 120.6 | 249.8 | 275.7 | 249.8 | 236.9 | 215.4 |
| 75° | 180.9 | 185.2 | 155.1 | 64.6 | 60.3 | 77.5 | 146.4 | 189.5 | 180.9 | 176.6 | 163.7 |
| 77.5° | 34.5 | 25.8 | 21.5 | 30.1 | 43.1 | 64.6 | 94.8 | 116.3 | 120.6 | 129.2 | 120.6 |
| 80° | 4.3 | 4.3 | 12.9 | 25.8 | 47.4 | 68.9 | 99.1 | 112.0 | 116.3 | 120.6 | 112.0 |
| 82.5° | 0.0 | 4.3 | 12.9 | 25.8 | 47.4 | 64.6 | 86.1 | 99.1 | 107.7 | 112.0 | 107.7 |
| 85° | 0.0 | 4.3 | 8.6 | 21.5 | 38.8 | 47.4 | 43.1 | 30.1 | 25.8 | 30.1 | 21.5 |
| 87.5° | 0.0 | 0.0 | 4.3 | 4.3 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 |
| 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° | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 | 2713.5 |
| 2.5° | 2748.0 | 2730.7 | 2670.4 | 2605.8 | 2549.8 | 2575.7 | 2549.8 | 2528.3 | 2536.9 | 2528.3 | 2519.7 |
| 5° | 2898.7 | 2821.2 | 2692.0 | 2636.0 | 2588.6 | 2584.3 | 2571.4 | 2567.1 | 2571.4 | 2571.4 | 2532.6 |
| 7.5° | 3040.8 | 2915.9 | 2778.1 | 2717.8 | 2661.8 | 2666.1 | 2636.0 | 2636.0 | 2631.7 | 2610.1 | 2601.5 |
| 10° | 3256.2 | 3088.2 | 2911.6 | 2803.9 | 2735.0 | 2722.1 | 2692.0 | 2661.8 | 2661.8 | 2661.8 | 2618.7 |
| 12.5° | 3493.1 | 3282.0 | 3040.8 | 2915.9 | 2834.1 | 2769.5 | 2722.1 | 2713.5 | 2666.1 | 2657.5 | 2636.0 |
| 15° | 3699.8 | 3432.8 | 3127.0 | 2954.7 | 2851.3 | 2765.2 | 2692.0 | 2644.6 | 2623.0 | 2610.1 | 2592.9 |
| 17.5° | 3902.3 | 3562.0 | 3174.4 | 2954.7 | 2842.7 | 2743.6 | 2666.1 | 2623.0 | 2571.4 | 2580.0 | 2545.5 |
| 20° | 4173.6 | 3699.8 | 3187.3 | 2898.7 | 2760.9 | 2666.1 | 2562.7 | 2541.2 | 2511.1 | 2485.2 | 2493.8 |
| 22.5° | 4436.3 | 3798.9 | 3148.5 | 2829.8 | 2631.7 | 2519.7 | 2468.0 | 2442.1 | 2429.2 | 2407.7 | 2377.5 |
| 25° | 4673.2 | 3906.6 | 3088.2 | 2704.9 | 2493.8 | 2412.0 | 2364.6 | 2360.3 | 2330.2 | 2330.2 | 2274.2 |
| 27.5° | 4914.4 | 3945.3 | 2984.8 | 2558.4 | 2373.2 | 2325.9 | 2304.3 | 2295.7 | 2282.8 | 2252.6 | 2213.9 |
| 30° | 5190.1 | 3958.3 | 2834.1 | 2407.7 | 2265.6 | 2213.9 | 2244.0 | 2265.6 | 2209.6 | 2153.6 | 2170.8 |
| 32.5° | 5418.4 | 3928.1 | 2653.2 | 2265.6 | 2188.0 | 2162.2 | 2222.5 | 2244.0 | 2179.4 | 2119.1 | 2089.0 |
| 35° | 5694.0 | 3854.9 | 2476.6 | 2153.6 | 2110.5 | 2162.2 | 2213.9 | 2213.9 | 2084.7 | 2011.4 | 1994.2 |
| 37.5° | 6111.8 | 3773.0 | 2312.9 | 2058.8 | 2028.7 | 2136.3 | 2205.3 | 2157.9 | 1955.4 | 1865.0 | 1843.5 |
| 40° | 6559.8 | 3721.4 | 2153.6 | 1964.1 | 1985.6 | 2093.3 | 2132.0 | 1985.6 | 1778.8 | 1722.9 | 1705.6 |
| 42.5° | 7210.1 | 3618.0 | 2011.4 | 1882.2 | 1946.8 | 2033.0 | 2033.0 | 1770.2 | 1692.7 | 1662.6 | 1658.2 |
| 45° | 8019.9 | 3544.8 | 1886.5 | 1813.3 | 1890.8 | 1912.4 | 1843.5 | 1658.2 | 1602.3 | 1593.6 | 1597.9 |
| 47.5° | 8416.1 | 3402.6 | 1757.3 | 1731.5 | 1787.5 | 1791.8 | 1610.9 | 1567.8 | 1520.4 | 1507.5 | 1498.9 |
| 50° | 8355.8 | 3148.5 | 1589.3 | 1623.8 | 1701.3 | 1658.2 | 1468.7 | 1477.3 | 1434.3 | 1430.0 | 1408.4 |
| 52.5° | 7933.7 | 2748.0 | 1421.4 | 1503.2 | 1589.3 | 1464.4 | 1352.4 | 1343.8 | 1343.8 | 1287.8 | 1266.3 |
| 55° | 7033.5 | 2213.9 | 1218.9 | 1322.3 | 1425.7 | 1231.8 | 1201.7 | 1193.1 | 1171.5 | 1119.9 | 1106.9 |
| 57.5° | 5569.1 | 1623.8 | 917.4 | 1029.4 | 1210.3 | 1046.6 | 1042.3 | 1003.6 | 947.6 | 908.8 | 908.8 |
| 60° | 3312.2 | 934.6 | 577.2 | 628.8 | 801.1 | 848.5 | 943.3 | 926.0 | 831.3 | 771.0 | 753.7 |
| 62.5° | 1511.8 | 482.4 | 366.1 | 374.7 | 430.7 | 551.3 | 740.8 | 857.1 | 723.6 | 620.2 | 611.6 |
| 65° | 508.2 | 357.5 | 301.5 | 288.6 | 297.2 | 331.6 | 443.6 | 607.3 | 577.2 | 478.1 | 460.9 |
| 67.5° | 310.1 | 318.7 | 284.3 | 262.7 | 262.7 | 258.4 | 254.1 | 275.7 | 340.3 | 331.6 | 336.0 |
| 70° | 267.0 | 292.9 | 262.7 | 236.9 | 228.3 | 215.4 | 180.9 | 150.7 | 129.2 | 150.7 | 159.4 |
| 72.5° | 215.4 | 232.6 | 224.0 | 202.4 | 180.9 | 163.7 | 129.2 | 99.1 | 73.2 | 64.6 | 64.6 |
| 75° | 159.4 | 172.3 | 180.9 | 155.1 | 137.8 | 116.3 | 94.8 | 64.6 | 38.8 | 25.8 | 25.8 |
| 77.5° | 116.3 | 129.2 | 133.5 | 120.6 | 103.4 | 81.8 | 60.3 | 43.1 | 21.5 | 8.6 | 8.6 |
| 80° | 99.1 | 116.3 | 129.2 | 120.6 | 107.7 | 77.5 | 56.0 | 30.1 | 17.2 | 4.3 | 4.3 |
| 82.5° | 94.8 | 116.3 | 129.2 | 116.3 | 103.4 | 73.2 | 56.0 | 34.5 | 12.9 | 4.3 | 4.3 |
| 85° | 21.5 | 30.1 | 38.8 | 47.4 | 56.0 | 56.0 | 43.1 | 25.8 | 12.9 | 4.3 | 4.3 |
| 87.5° | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 8.6 | 4.3 | 4.3 | 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)