

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: P452663

Luminaire Tested: **GALN-SA3C-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12762 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

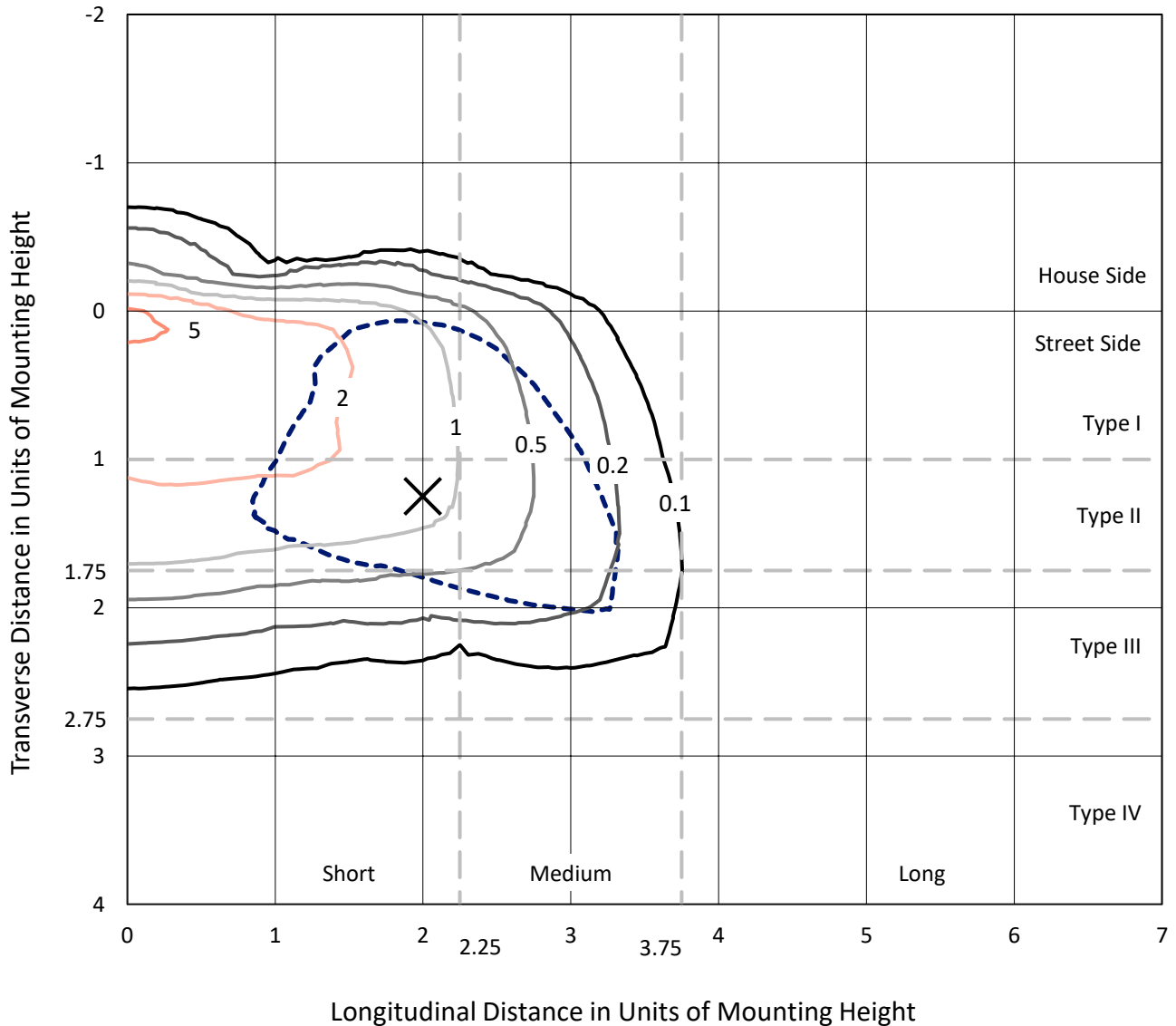
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

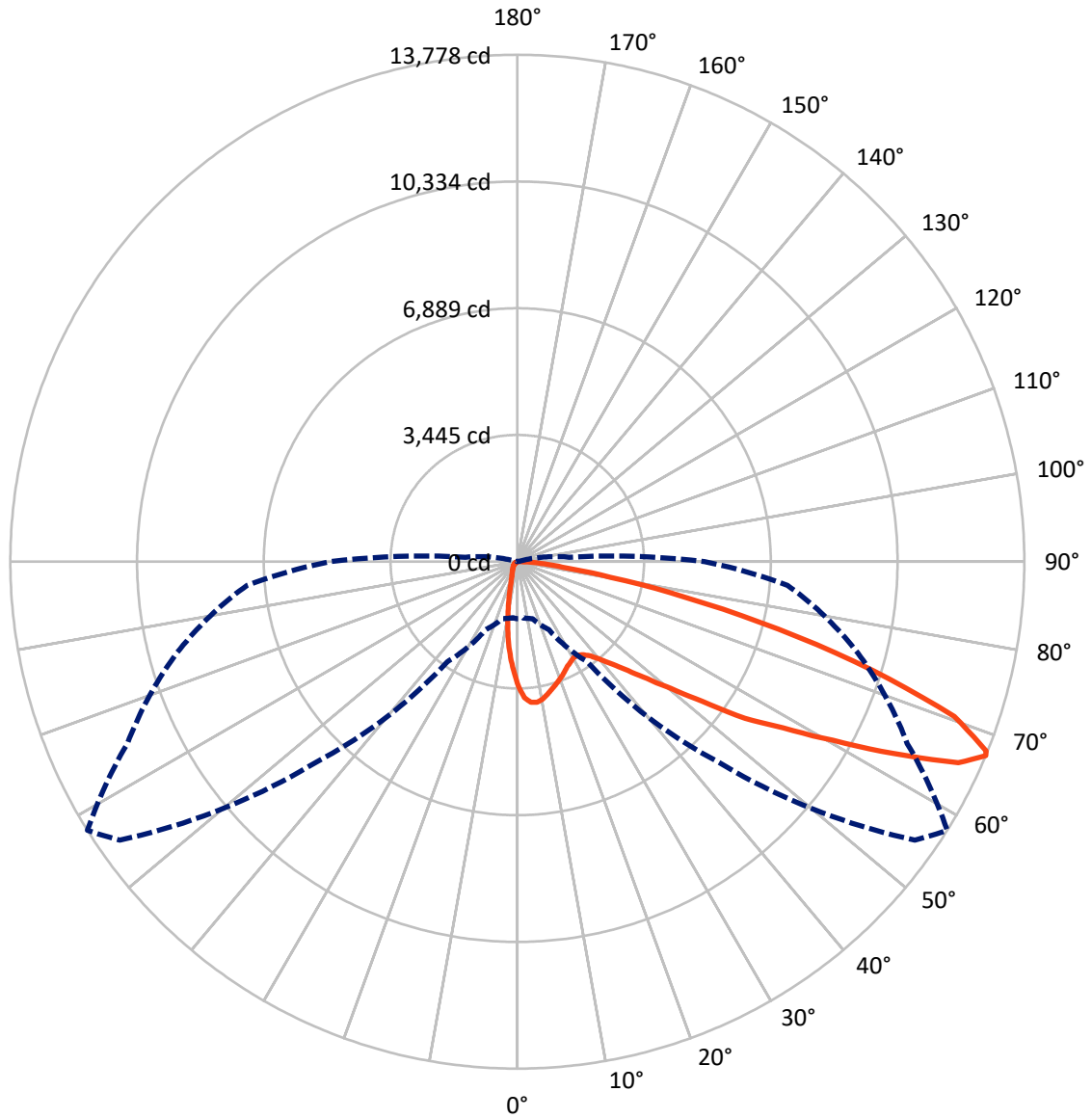
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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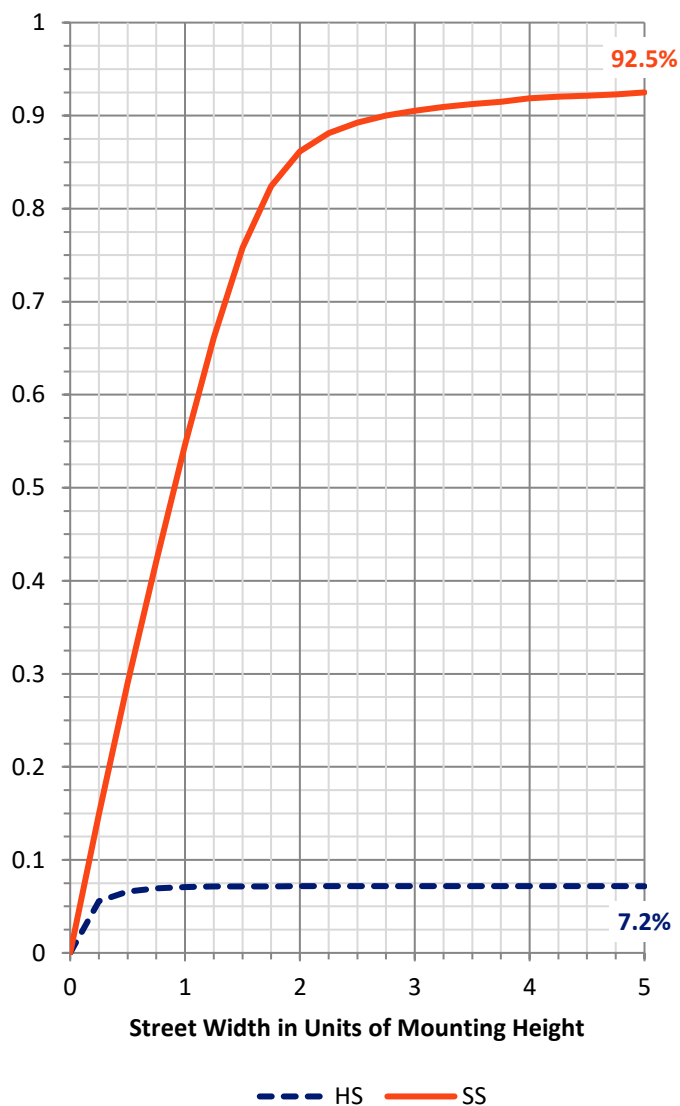
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 921.0 | 0.0 | 921.0 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 11841.0 | 0.0 | 11841.0 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 12762.0 | 0.0 | 12762.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 274.5 | 2.2 |
| 10°-20° | 592.9 | 4.6 |
| 20°-30° | 803.4 | 6.3 |
| 30°-40° | 1114.3 | 8.7 |
| 40°-50° | 1777.2 | 13.9 |
| 50°-60° | 3072.1 | 24.1 |
| 60°-70° | 3509.3 | 27.5 |
| 70°-80° | 1463.0 | 11.5 |
| 80°-90° | 155.1 | 1.2 |
| 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° | 12762.0 | 100.0 |
| 0°-180° | 12762.0 | 100.0 |

Coefficient of Utilization



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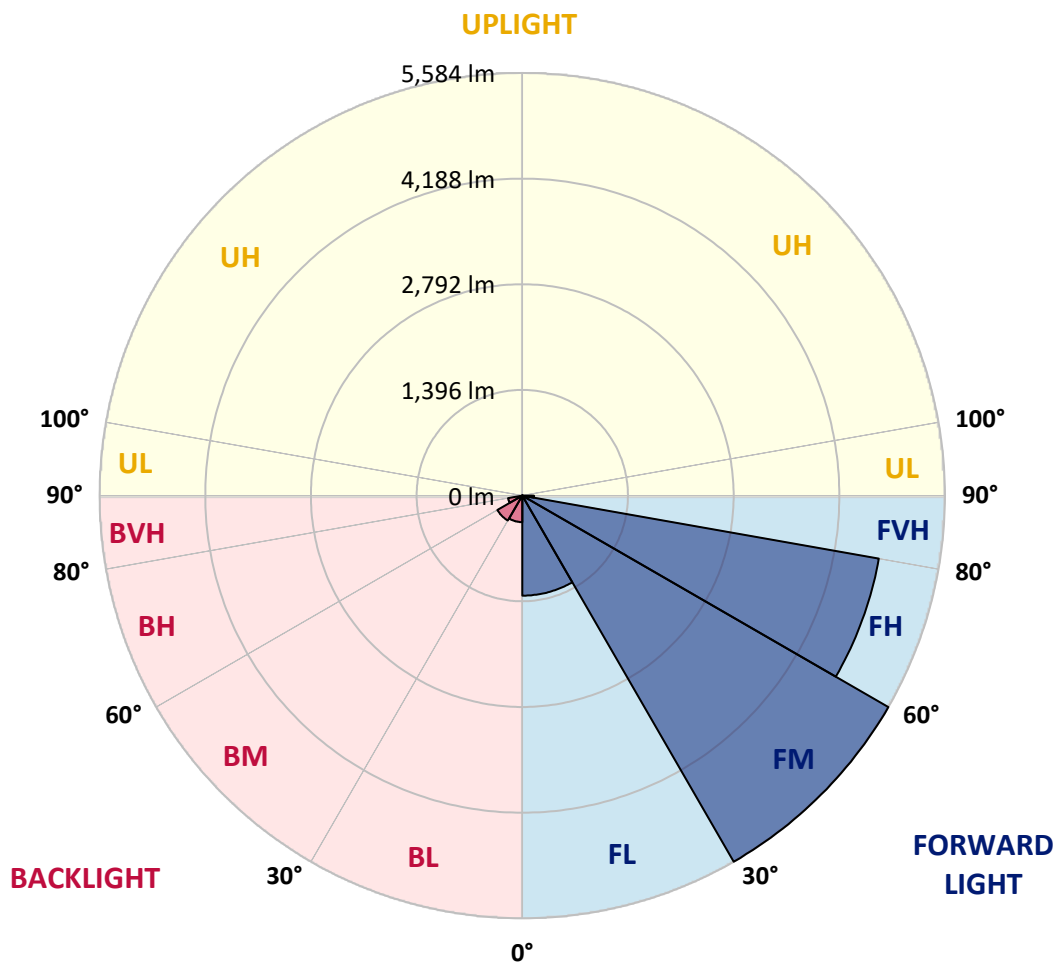
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1321.2 | 10.4 | | | |
| FM (30°-60°) | 5583.9 | 43.8 | | | |
| FH (60°-80°) | 4781.9 | 37.5 | | | G2/5000 |
| FVH (80°-90°) | 154.0 | 1.2 | | | G2/225 |
| BL (0°-30°) | 349.7 | 2.7 | B1/500 | | |
| BM (30°-60°) | 379.7 | 3.0 | B1/1000 | | |
| BH (60°-80°) | 190.4 | 1.5 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.1 | 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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0° | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 |
| 2.5° | 3926.3 | 3932.3 | 3910.1 | 3892.2 | 3846.2 | 3796.7 | 3731.0 | 3696.1 | 3636.4 | 3533.2 | 3418.9 |
| 5° | 4018.4 | 4026.1 | 4022.7 | 4018.4 | 4000.5 | 3952.8 | 3869.2 | 3838.5 | 3750.6 | 3582.6 | 3376.3 |
| 7.5° | 3813.8 | 3841.9 | 3845.3 | 3878.6 | 3910.1 | 3914.4 | 3882.8 | 3859.8 | 3778.8 | 3581.8 | 3300.4 |
| 10° | 3542.6 | 3561.3 | 3588.6 | 3627.0 | 3702.9 | 3766.0 | 3796.7 | 3793.3 | 3746.4 | 3555.4 | 3211.7 |
| 12.5° | 3268.8 | 3279.0 | 3320.8 | 3386.5 | 3479.5 | 3586.9 | 3668.8 | 3685.0 | 3685.8 | 3523.8 | 3137.5 |
| 15° | 3033.4 | 3029.2 | 3061.6 | 3137.5 | 3268.0 | 3402.7 | 3549.4 | 3575.0 | 3615.9 | 3493.1 | 3068.4 |
| 17.5° | 2832.2 | 2854.3 | 2859.5 | 2943.0 | 3063.3 | 3238.1 | 3424.9 | 3470.1 | 3551.9 | 3466.7 | 3011.3 |
| 20° | 2707.7 | 2719.6 | 2730.7 | 2777.6 | 2885.9 | 3070.1 | 3308.0 | 3370.3 | 3492.2 | 3442.8 | 2947.3 |
| 22.5° | 2671.0 | 2678.7 | 2669.3 | 2683.8 | 2760.5 | 2924.3 | 3181.0 | 3263.7 | 3435.1 | 3420.6 | 2895.3 |
| 25° | 2699.1 | 2706.8 | 2684.6 | 2667.6 | 2694.0 | 2805.7 | 3058.2 | 3158.8 | 3389.1 | 3416.3 | 2856.1 |
| 27.5° | 2767.4 | 2781.9 | 2751.2 | 2720.5 | 2705.1 | 2741.8 | 2961.8 | 3078.6 | 3357.5 | 3436.8 | 2838.1 |
| 30° | 2874.0 | 2882.5 | 2859.5 | 2821.9 | 2787.0 | 2750.3 | 2911.5 | 3023.2 | 3349.0 | 3484.6 | 2836.4 |
| 32.5° | 2989.9 | 3007.9 | 2995.1 | 2970.3 | 2925.1 | 2838.1 | 2926.0 | 3024.9 | 3369.4 | 3553.7 | 2857.8 |
| 35° | 3133.2 | 3153.7 | 3165.6 | 3160.5 | 3102.5 | 2994.2 | 3018.1 | 3101.7 | 3424.0 | 3680.7 | 2915.8 |
| 37.5° | 3273.9 | 3291.8 | 3359.2 | 3382.2 | 3331.1 | 3228.7 | 3197.2 | 3252.6 | 3544.3 | 3847.0 | 3020.6 |
| 40° | 3435.1 | 3459.0 | 3553.7 | 3641.5 | 3616.8 | 3509.3 | 3451.3 | 3497.4 | 3728.5 | 4097.7 | 3219.3 |
| 42.5° | 3589.5 | 3632.1 | 3776.2 | 3931.4 | 3954.5 | 3834.2 | 3795.8 | 3811.2 | 4001.4 | 4458.5 | 3496.5 |
| 45° | 3808.6 | 3848.7 | 4034.6 | 4245.3 | 4353.6 | 4259.8 | 4220.5 | 4218.0 | 4375.8 | 4965.9 | 3945.9 |
| 47.5° | 4125.0 | 4160.8 | 4380.0 | 4588.1 | 4780.8 | 4793.6 | 4719.4 | 4745.0 | 4846.5 | 5559.5 | 4496.9 |
| 50° | 4513.1 | 4597.5 | 4741.6 | 4958.2 | 5215.8 | 5423.9 | 5446.9 | 5412.8 | 5499.8 | 6246.8 | 5158.6 |
| 52.5° | 5076.8 | 5109.2 | 5241.4 | 5419.6 | 5721.5 | 6074.6 | 6348.3 | 6301.4 | 6274.1 | 6901.8 | 5827.2 |
| 55° | 5497.2 | 5540.7 | 5746.2 | 5991.0 | 6433.6 | 6899.2 | 7492.8 | 7509.0 | 7164.4 | 7531.1 | 6481.3 |
| 57.5° | 5370.1 | 5436.7 | 5747.9 | 6240.0 | 7213.0 | 8064.2 | 8505.9 | 8517.0 | 7988.3 | 8142.6 | 7219.9 |
| 60° | 4717.7 | 4749.3 | 5195.3 | 5852.0 | 7279.6 | 9326.3 | 9942.9 | 9853.3 | 8826.6 | 8826.6 | 7872.3 |
| 62.5° | 3345.6 | 3395.0 | 3756.6 | 4722.9 | 6574.3 | 9764.7 | 11663.9 | 11478.8 | 9981.3 | 9480.7 | 8261.2 |
| 65° | 2138.0 | 2090.2 | 2329.9 | 2981.4 | 4897.7 | 9117.4 | 13162.2 | 13173.3 | 11067.7 | 9742.5 | 8048.8 |
| 67° | 1548.7 | 1529.9 | 1599.0 | 2038.2 | 3320.8 | 7664.2 | 13193.8 | 13778.0 | 11692.0 | 9577.0 | 7370.0 |
| 67.5° | 1416.5 | 1431.0 | 1481.3 | 1838.7 | 3017.2 | 6974.3 | 13050.5 | 13742.1 | 11832.7 | 9477.3 | 7124.4 |
| 70° | 1073.7 | 1049.0 | 1103.5 | 1300.5 | 1808.8 | 4399.6 | 11226.4 | 12603.6 | 11657.9 | 8487.1 | 5692.5 |
| 72.5° | 789.7 | 787.1 | 863.0 | 1063.5 | 1392.6 | 2343.5 | 8427.4 | 10105.8 | 9524.2 | 6462.6 | 3584.4 |
| 75° | 533.0 | 556.9 | 678.0 | 888.6 | 1262.2 | 1519.7 | 5745.4 | 7331.6 | 6611.8 | 3669.6 | 1465.1 |
| 77.5° | 303.6 | 305.3 | 436.6 | 713.8 | 1133.4 | 1222.9 | 3404.4 | 4670.8 | 3499.9 | 1220.4 | 434.9 |
| 80° | 131.3 | 144.1 | 216.6 | 518.5 | 939.8 | 1083.1 | 1952.1 | 2567.0 | 1415.7 | 258.4 | 140.7 |
| 82.5° | 48.6 | 57.1 | 95.5 | 319.0 | 685.7 | 892.0 | 1179.4 | 1225.5 | 480.1 | 91.3 | 87.8 |
| 85° | 0.0 | 1.7 | 35.0 | 149.2 | 357.3 | 398.3 | 788.0 | 726.6 | 212.3 | 43.5 | 57.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 15.4 | 46.9 | 148.4 | 244.8 | 272.9 | 51.2 | 15.4 | 13.6 |
| 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° | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 | 3383.1 |
| 2.5° | 3357.5 | 3302.1 | 3163.1 | 3024.1 | 2920.9 | 2834.7 | 2705.1 | 2634.3 | 2596.8 | 2541.4 | 2544.8 |
| 5° | 3273.1 | 3160.5 | 2915.8 | 2662.5 | 2457.8 | 2258.2 | 2019.4 | 1923.1 | 1842.1 | 1796.0 | 1765.3 |
| 7.5° | 3147.7 | 2981.4 | 2619.0 | 2281.3 | 1966.6 | 1617.8 | 1356.0 | 1181.1 | 1063.5 | 1020.0 | 978.2 |
| 10° | 3010.4 | 2789.5 | 2317.9 | 1849.7 | 1413.1 | 1053.2 | 831.5 | 671.2 | 614.0 | 561.1 | 566.3 |
| 12.5° | 2883.3 | 2614.7 | 2041.6 | 1460.0 | 990.1 | 669.5 | 521.9 | 456.3 | 437.5 | 431.5 | 431.5 |
| 15° | 2779.3 | 2447.6 | 1744.8 | 1097.6 | 678.8 | 481.0 | 417.9 | 400.0 | 393.1 | 391.4 | 391.4 |
| 17.5° | 2668.4 | 2288.9 | 1477.1 | 811.0 | 493.8 | 402.5 | 381.2 | 369.3 | 366.7 | 365.0 | 365.0 |
| 20° | 2569.5 | 2129.5 | 1222.9 | 603.8 | 399.1 | 362.4 | 348.8 | 341.1 | 338.6 | 336.9 | 337.7 |
| 22.5° | 2475.7 | 1987.9 | 984.1 | 456.3 | 351.4 | 330.0 | 316.4 | 308.7 | 303.6 | 299.3 | 300.2 |
| 25° | 2392.1 | 1851.4 | 791.4 | 373.5 | 316.4 | 297.6 | 284.0 | 272.9 | 261.8 | 256.7 | 255.8 |
| 27.5° | 2333.3 | 1732.1 | 616.6 | 319.8 | 284.8 | 264.4 | 247.3 | 233.7 | 219.2 | 211.5 | 209.8 |
| 30° | 2284.7 | 1611.0 | 487.8 | 282.3 | 253.3 | 233.7 | 212.3 | 192.7 | 177.4 | 169.7 | 166.3 |
| 32.5° | 2253.1 | 1495.8 | 384.6 | 251.6 | 226.8 | 203.0 | 179.1 | 159.5 | 142.4 | 134.7 | 133.0 |
| 35° | 2248.0 | 1399.5 | 314.7 | 226.0 | 203.0 | 177.4 | 152.7 | 131.3 | 116.8 | 109.2 | 107.5 |
| 37.5° | 2284.7 | 1325.3 | 263.5 | 205.5 | 183.4 | 155.2 | 127.9 | 108.3 | 95.5 | 89.5 | 88.7 |
| 40° | 2382.7 | 1278.4 | 228.6 | 188.5 | 165.4 | 134.7 | 109.2 | 92.1 | 79.3 | 73.3 | 73.3 |
| 42.5° | 2569.5 | 1280.1 | 205.5 | 172.3 | 147.5 | 115.1 | 93.0 | 76.8 | 65.7 | 60.5 | 58.8 |
| 45° | 2861.2 | 1338.1 | 185.9 | 156.1 | 130.5 | 99.8 | 79.3 | 63.1 | 52.0 | 47.8 | 47.8 |
| 47.5° | 3251.8 | 1453.2 | 168.9 | 139.9 | 115.1 | 85.3 | 67.4 | 51.2 | 41.8 | 37.5 | 37.5 |
| 50° | 3762.6 | 1638.2 | 154.4 | 126.2 | 102.3 | 73.3 | 54.6 | 41.8 | 32.4 | 29.0 | 28.1 |
| 52.5° | 4296.4 | 1866.8 | 137.3 | 114.3 | 87.8 | 62.3 | 44.3 | 32.4 | 24.7 | 22.2 | 21.3 |
| 55° | 4885.7 | 2090.2 | 121.1 | 102.3 | 71.6 | 52.0 | 35.0 | 25.6 | 17.9 | 15.4 | 15.4 |
| 57.5° | 5480.1 | 2309.4 | 101.5 | 85.3 | 56.3 | 38.4 | 27.3 | 18.8 | 11.9 | 9.4 | 9.4 |
| 60° | 5983.3 | 2380.2 | 86.1 | 69.1 | 42.6 | 27.3 | 19.6 | 11.9 | 6.8 | 4.3 | 4.3 |
| 62.5° | 6052.4 | 2141.4 | 72.5 | 52.9 | 30.7 | 18.8 | 10.2 | 6.8 | 2.6 | 1.7 | 1.7 |
| 65° | 5677.1 | 1739.7 | 60.5 | 40.1 | 20.5 | 9.4 | 4.3 | 2.6 | 0.9 | 0.0 | 0.0 |
| 67° | 5087.0 | 1410.5 | 49.5 | 29.8 | 14.5 | 6.0 | 2.6 | 0.9 | 0.0 | 0.0 | 0.0 |
| 67.5° | 4936.1 | 1344.9 | 47.8 | 28.1 | 12.8 | 5.1 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 |
| 70° | 3873.5 | 1007.2 | 34.1 | 17.1 | 7.7 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 2407.5 | 569.7 | 24.7 | 10.2 | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 909.9 | 199.6 | 17.1 | 6.8 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 283.1 | 75.9 | 10.2 | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 95.5 | 29.0 | 6.8 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 58.8 | 11.9 | 4.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 36.7 | 5.1 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.8 | 1.7 | 0.9 | 0.0 | 0.0 | 0.0 | 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)