

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: P527531

Luminaire Tested: **GALN-SA2C-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8268 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

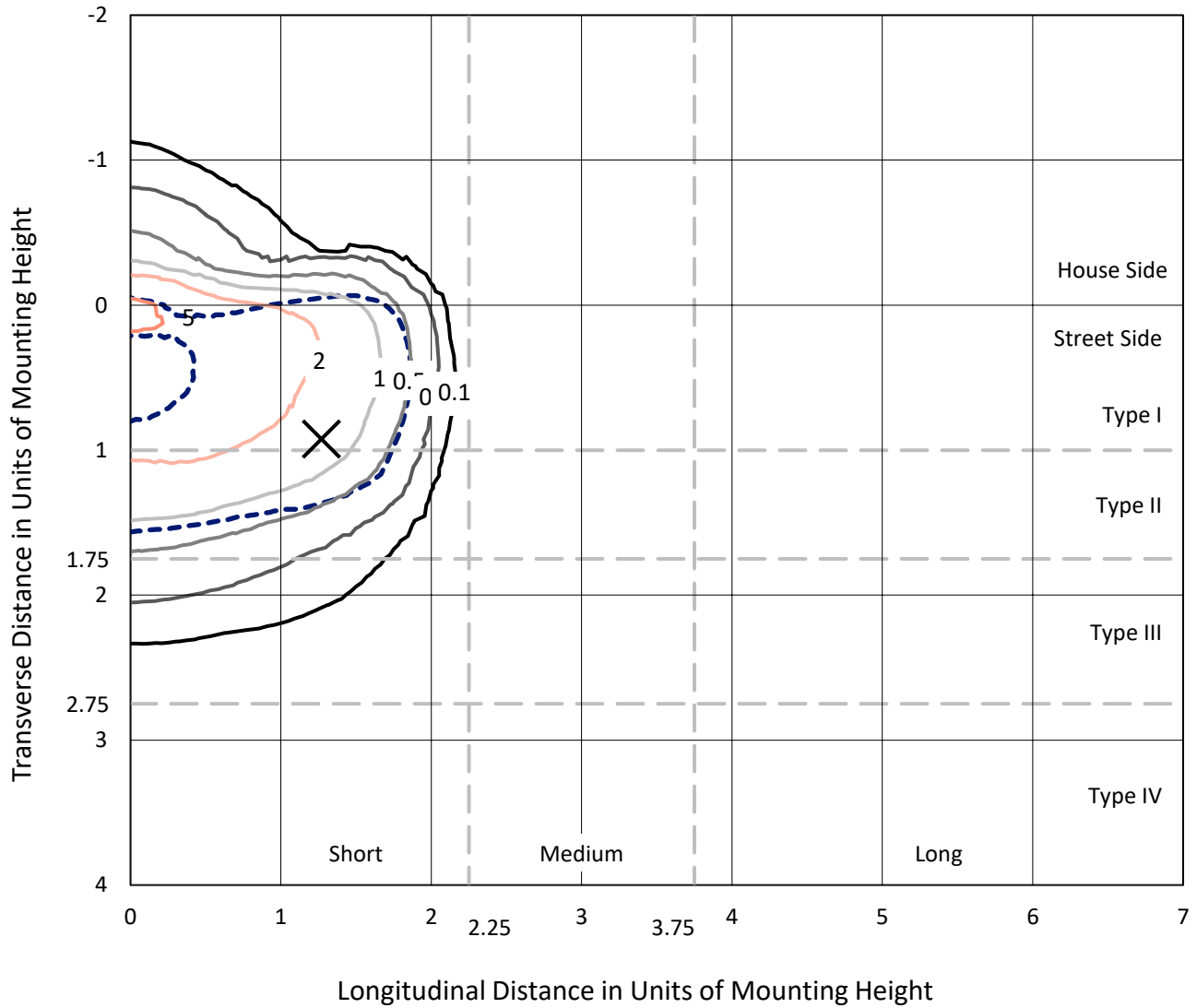
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

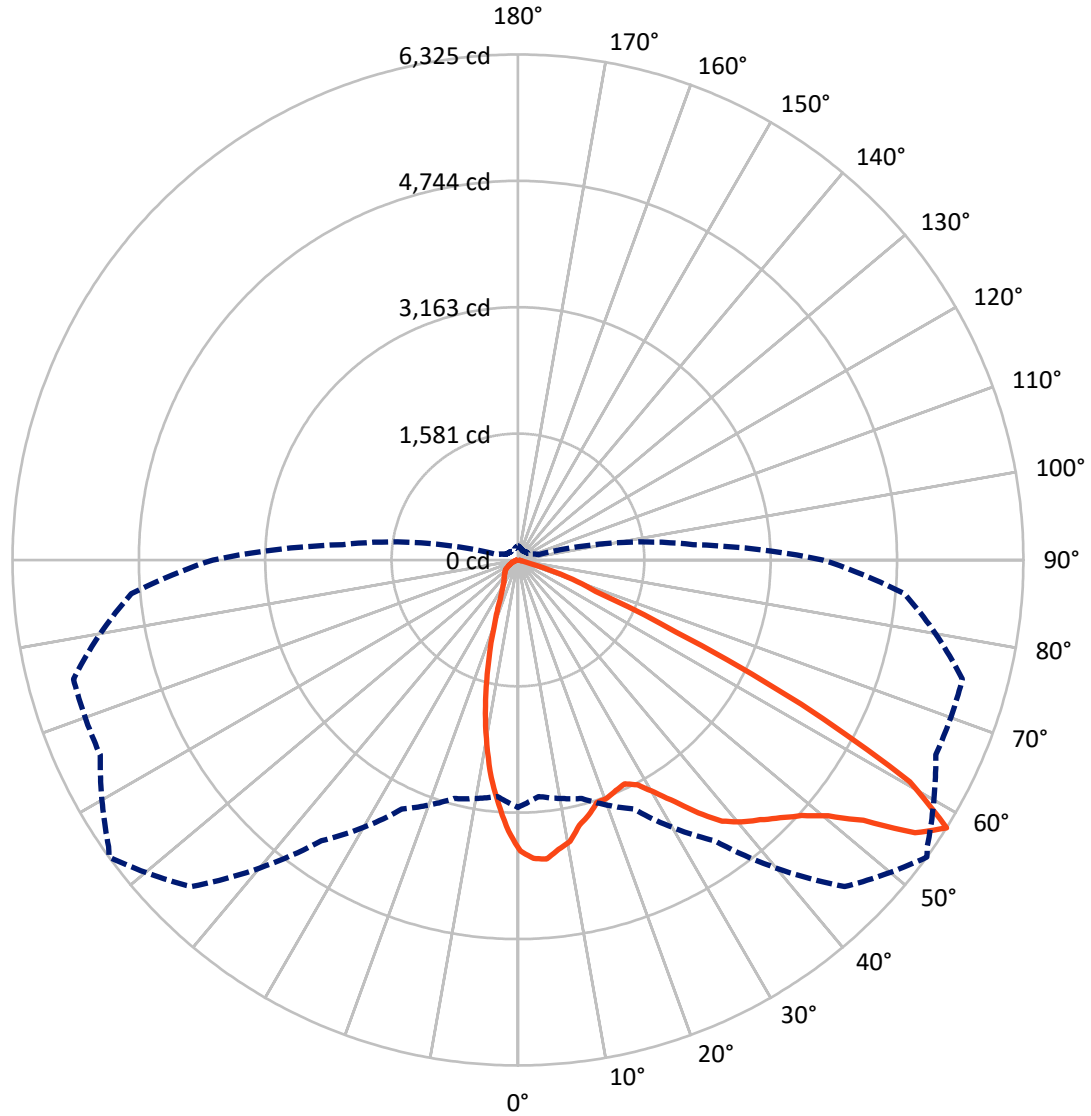
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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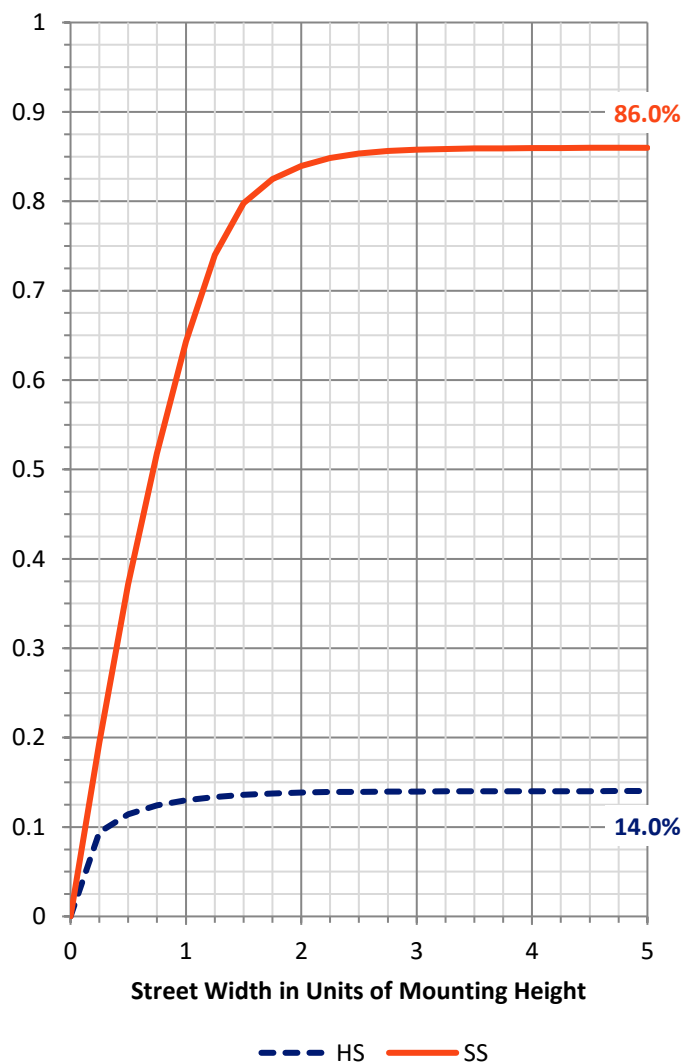
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1168.4 | 0.0 | 1168.4 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 7099.6 | 0.0 | 7099.6 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 8268.0 | 0.0 | 8268.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 304.8 | 3.7 |
| 10°-20° | 650.7 | 7.9 |
| 20°-30° | 862.3 | 10.4 |
| 30°-40° | 1253.2 | 15.2 |
| 40°-50° | 1858.3 | 22.5 |
| 50°-60° | 2323.7 | 28.1 |
| 60°-70° | 916.6 | 11.1 |
| 70°-80° | 91.3 | 1.1 |
| 80°-90° | 7.1 | 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° | 8268.0 | 100.0 |
| 0°-180° | 8268.0 | 100.0 |

Coefficient of Utilization



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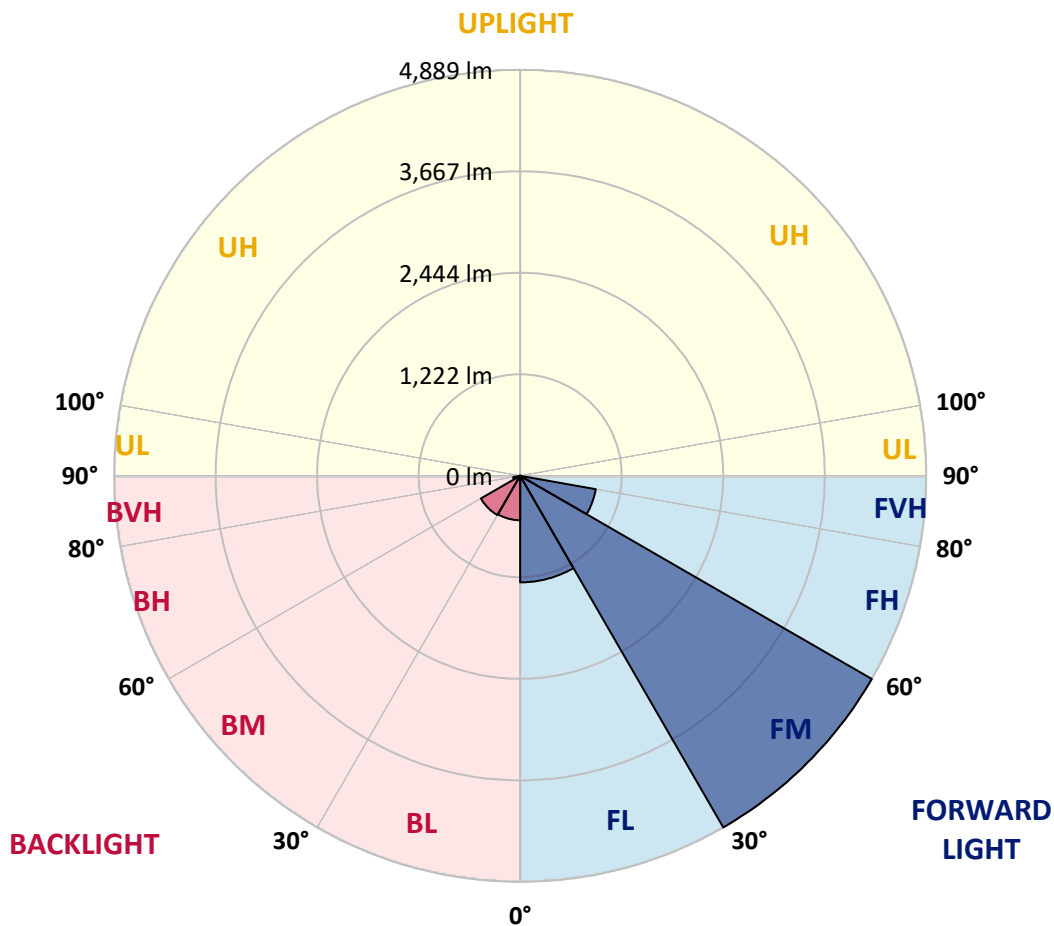
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1283.4 | 15.5 | | | |
| FM (30°-60°) | 4888.8 | 59.1 | | | |
| FH (60°-80°) | 924.1 | 11.2 | | | G1/1800 |
| FVH (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 534.4 | 6.5 | B2/1000 | | |
| BM (30°-60°) | 546.4 | 6.6 | B1/1000 | | |
| BH (60°-80°) | 83.8 | 1.0 | B0/110 | | G0/110 |
| BVH (80°-90°) | 3.9 | 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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 |
| 2.5° | 3854.3 | 3814.4 | 3817.4 | 3803.6 | 3785.1 | 3799.0 | 3739.0 | 3752.9 | 3751.3 | 3669.8 | 3616.0 |
| 5° | 3757.5 | 3800.5 | 3755.9 | 3792.8 | 3757.5 | 3795.9 | 3759.0 | 3731.3 | 3686.8 | 3626.8 | 3526.9 |
| 7.5° | 3593.0 | 3551.5 | 3563.8 | 3609.9 | 3617.6 | 3703.7 | 3657.5 | 3692.9 | 3674.5 | 3556.1 | 3419.2 |
| 10° | 3262.4 | 3253.2 | 3314.7 | 3376.2 | 3451.5 | 3543.8 | 3579.1 | 3559.1 | 3545.3 | 3500.7 | 3317.8 |
| 12.5° | 3008.7 | 3034.9 | 3033.3 | 3134.8 | 3262.4 | 3314.7 | 3406.9 | 3403.9 | 3480.7 | 3397.7 | 3222.4 |
| 15° | 2767.4 | 2781.2 | 2845.8 | 2908.8 | 3050.3 | 3199.4 | 3313.2 | 3328.5 | 3420.8 | 3362.4 | 3148.7 |
| 17.5° | 2619.8 | 2599.8 | 2650.5 | 2725.9 | 2870.4 | 3065.6 | 3191.7 | 3228.6 | 3354.7 | 3342.4 | 3064.1 |
| 20° | 2473.7 | 2473.7 | 2515.2 | 2604.4 | 2736.6 | 2956.5 | 3180.9 | 3170.2 | 3354.7 | 3319.3 | 2973.4 |
| 22.5° | 2424.5 | 2449.1 | 2459.9 | 2527.5 | 2684.3 | 2873.5 | 3134.8 | 3154.8 | 3380.8 | 3308.5 | 2933.4 |
| 25° | 2492.2 | 2459.9 | 2463.0 | 2516.8 | 2664.4 | 2833.5 | 3101.0 | 3145.6 | 3428.5 | 3362.4 | 2901.1 |
| 27.5° | 2502.9 | 2535.2 | 2544.4 | 2581.3 | 2679.7 | 2845.8 | 3185.5 | 3276.3 | 3546.8 | 3488.4 | 2910.3 |
| 30° | 2596.7 | 2629.0 | 2627.5 | 2690.5 | 2758.1 | 2945.7 | 3374.7 | 3393.1 | 3791.3 | 3646.8 | 2967.2 |
| 32.5° | 2710.5 | 2744.3 | 2755.1 | 2828.9 | 2882.7 | 3128.7 | 3605.3 | 3652.9 | 4026.5 | 3895.8 | 3116.4 |
| 35° | 2851.9 | 2839.6 | 2888.8 | 2962.6 | 3077.9 | 3396.2 | 3886.6 | 3966.6 | 4280.2 | 4218.7 | 3270.1 |
| 37.5° | 3028.7 | 3013.4 | 3061.0 | 3180.9 | 3337.8 | 3712.9 | 4146.4 | 4198.7 | 4464.7 | 4518.5 | 3554.5 |
| 40° | 3153.3 | 3159.4 | 3303.9 | 3465.4 | 3631.4 | 4014.2 | 4310.9 | 4361.7 | 4593.8 | 4798.3 | 3769.8 |
| 42.5° | 3360.8 | 3399.3 | 3573.0 | 3769.8 | 3943.5 | 4240.2 | 4444.7 | 4493.9 | 4653.8 | 5022.8 | 4060.3 |
| 45° | 3662.2 | 3645.2 | 3837.4 | 4057.3 | 4249.4 | 4475.5 | 4603.1 | 4586.1 | 4689.2 | 5245.7 | 4243.3 |
| 47.5° | 4049.6 | 4052.7 | 4180.3 | 4367.8 | 4567.7 | 4679.9 | 4779.9 | 4719.9 | 4762.9 | 5480.9 | 4487.8 |
| 50° | 4314.0 | 4337.1 | 4440.1 | 4632.3 | 4732.2 | 4904.4 | 5032.0 | 4995.1 | 4981.3 | 5622.4 | 4641.5 |
| 52.5° | 4381.7 | 4450.9 | 4506.2 | 4746.0 | 4979.7 | 5251.9 | 5414.8 | 5493.2 | 5247.2 | 5670.0 | 4836.7 |
| 55° | 3871.2 | 3932.7 | 4128.0 | 4457.0 | 5073.5 | 5802.3 | 6026.7 | 6028.3 | 5594.7 | 5882.2 | 4973.6 |
| 57.5° | 3094.8 | 2970.3 | 3090.2 | 3439.2 | 4289.4 | 5779.2 | 6325.0 | 6252.7 | 5768.4 | 5757.7 | 4855.2 |
| 60° | 2140.1 | 2109.4 | 2117.0 | 2255.4 | 2968.8 | 4596.9 | 5636.2 | 5730.0 | 5311.8 | 4990.5 | 3843.6 |
| 62.5° | 1695.8 | 1669.6 | 1635.8 | 1620.4 | 1843.4 | 2864.2 | 3975.8 | 4108.0 | 3714.4 | 3236.3 | 2278.5 |
| 65° | 1328.3 | 1313.0 | 1317.6 | 1379.1 | 1377.5 | 1625.1 | 2173.9 | 2120.1 | 1697.3 | 1254.5 | 716.4 |
| 67.5° | 896.3 | 919.4 | 937.8 | 1123.9 | 1219.2 | 1131.5 | 1050.1 | 1019.3 | 551.9 | 232.2 | 158.4 |
| 70° | 504.3 | 507.4 | 527.3 | 702.6 | 925.5 | 877.9 | 724.1 | 724.1 | 275.2 | 84.6 | 90.7 |
| 72.5° | 275.2 | 266.0 | 247.5 | 302.9 | 412.0 | 418.2 | 322.9 | 281.3 | 81.5 | 55.3 | 50.7 |
| 75° | 133.8 | 132.2 | 113.8 | 93.8 | 89.2 | 73.8 | 56.9 | 52.3 | 36.9 | 35.4 | 30.7 |
| 77.5° | 27.7 | 26.1 | 13.8 | 13.8 | 15.4 | 16.9 | 21.5 | 21.5 | 26.1 | 26.1 | 21.5 |
| 80° | 0.0 | 0.0 | 1.5 | 6.1 | 10.8 | 15.4 | 18.4 | 18.4 | 21.5 | 21.5 | 16.9 |
| 82.5° | 0.0 | 0.0 | 1.5 | 4.6 | 9.2 | 13.8 | 16.9 | 18.4 | 21.5 | 23.1 | 18.4 |
| 85° | 0.0 | 0.0 | 0.0 | 3.1 | 7.7 | 10.8 | 9.2 | 9.2 | 7.7 | 6.1 | 3.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 | 3642.2 |
| 2.5° | 3588.4 | 3585.3 | 3514.6 | 3474.6 | 3402.3 | 3339.3 | 3288.6 | 3251.7 | 3251.7 | 3228.6 | 3207.1 |
| 5° | 3486.9 | 3460.7 | 3310.1 | 3213.2 | 3076.4 | 2974.9 | 2905.7 | 2851.9 | 2767.4 | 2790.4 | 2699.7 |
| 7.5° | 3360.8 | 3294.7 | 3094.8 | 2947.2 | 2758.1 | 2613.6 | 2466.0 | 2335.4 | 2209.3 | 2152.4 | 2183.1 |
| 10° | 3225.5 | 3110.2 | 2841.2 | 2607.5 | 2372.3 | 2107.8 | 1935.6 | 1726.5 | 1597.4 | 1589.7 | 1555.9 |
| 12.5° | 3082.5 | 2951.9 | 2624.4 | 2301.5 | 1992.5 | 1674.3 | 1411.4 | 1216.1 | 1128.5 | 1031.6 | 1050.1 |
| 15° | 2974.9 | 2781.2 | 2383.0 | 1994.0 | 1583.6 | 1262.2 | 997.8 | 847.1 | 764.1 | 741.0 | 733.4 |
| 17.5° | 2858.1 | 2650.5 | 2137.0 | 1666.6 | 1242.2 | 908.6 | 718.0 | 645.7 | 613.4 | 613.4 | 608.8 |
| 20° | 2736.6 | 2502.9 | 1892.6 | 1362.2 | 931.7 | 678.0 | 575.0 | 551.9 | 550.4 | 548.9 | 548.9 |
| 22.5° | 2656.7 | 2333.8 | 1671.2 | 1082.3 | 702.6 | 542.7 | 499.7 | 490.4 | 496.6 | 515.0 | 515.0 |
| 25° | 2572.1 | 2170.8 | 1426.7 | 834.8 | 544.2 | 465.8 | 441.2 | 447.4 | 462.8 | 479.7 | 473.5 |
| 27.5° | 2486.0 | 2064.8 | 1196.1 | 654.9 | 445.9 | 407.4 | 398.2 | 412.0 | 428.9 | 444.3 | 439.7 |
| 30° | 2466.0 | 1951.0 | 977.8 | 496.6 | 382.8 | 355.1 | 361.3 | 373.6 | 390.5 | 396.7 | 402.8 |
| 32.5° | 2496.8 | 1861.8 | 801.0 | 407.4 | 333.6 | 325.9 | 325.9 | 332.1 | 342.8 | 356.7 | 352.1 |
| 35° | 2584.4 | 1811.1 | 633.4 | 353.6 | 305.9 | 298.3 | 296.7 | 302.9 | 309.0 | 313.6 | 309.0 |
| 37.5° | 2718.2 | 1771.1 | 518.1 | 313.6 | 287.5 | 275.2 | 272.1 | 270.6 | 276.7 | 278.3 | 281.3 |
| 40° | 2888.8 | 1792.6 | 439.7 | 289.0 | 269.0 | 255.2 | 246.0 | 246.0 | 246.0 | 250.6 | 252.1 |
| 42.5° | 3073.3 | 1821.9 | 379.7 | 275.2 | 252.1 | 235.2 | 226.0 | 222.9 | 226.0 | 232.2 | 230.6 |
| 45° | 3267.0 | 1878.7 | 341.3 | 253.7 | 236.8 | 215.2 | 202.9 | 199.9 | 207.6 | 219.9 | 218.3 |
| 47.5° | 3448.4 | 1960.2 | 312.1 | 239.8 | 221.4 | 201.4 | 186.0 | 183.0 | 196.8 | 213.7 | 215.2 |
| 50° | 3629.9 | 2101.7 | 301.3 | 229.1 | 210.6 | 187.6 | 173.7 | 170.7 | 186.0 | 207.6 | 212.2 |
| 52.5° | 3839.0 | 2253.9 | 293.6 | 215.2 | 198.3 | 176.8 | 161.4 | 158.4 | 175.3 | 202.9 | 204.5 |
| 55° | 3975.8 | 2383.0 | 287.5 | 190.6 | 175.3 | 159.9 | 147.6 | 146.1 | 164.5 | 189.1 | 195.3 |
| 57.5° | 3815.9 | 2203.1 | 266.0 | 166.0 | 149.1 | 141.4 | 130.7 | 130.7 | 146.1 | 169.1 | 173.7 |
| 60° | 2893.4 | 1449.8 | 189.1 | 133.8 | 126.1 | 121.5 | 116.8 | 116.8 | 129.1 | 146.1 | 147.6 |
| 62.5° | 1694.2 | 781.0 | 121.5 | 107.6 | 107.6 | 103.0 | 95.3 | 95.3 | 107.6 | 116.8 | 118.4 |
| 65° | 502.7 | 250.6 | 98.4 | 92.2 | 90.7 | 83.0 | 75.3 | 73.8 | 83.0 | 87.6 | 86.1 |
| 67.5° | 144.5 | 115.3 | 81.5 | 76.9 | 75.3 | 63.0 | 58.4 | 56.9 | 58.4 | 55.3 | 53.8 |
| 70° | 86.1 | 78.4 | 63.0 | 64.6 | 56.9 | 46.1 | 41.5 | 40.0 | 36.9 | 32.3 | 29.2 |
| 72.5° | 47.7 | 47.7 | 46.1 | 49.2 | 40.0 | 30.7 | 26.1 | 21.5 | 16.9 | 13.8 | 12.3 |
| 75° | 29.2 | 30.7 | 32.3 | 33.8 | 26.1 | 20.0 | 16.9 | 10.8 | 6.1 | 3.1 | 3.1 |
| 77.5° | 20.0 | 21.5 | 23.1 | 24.6 | 21.5 | 18.4 | 13.8 | 7.7 | 1.5 | 0.0 | 0.0 |
| 80° | 15.4 | 16.9 | 20.0 | 21.5 | 23.1 | 24.6 | 18.4 | 7.7 | 1.5 | 0.0 | 0.0 |
| 82.5° | 16.9 | 18.4 | 23.1 | 21.5 | 21.5 | 21.5 | 16.9 | 7.7 | 1.5 | 0.0 | 0.0 |
| 85° | 3.1 | 4.6 | 7.7 | 7.7 | 10.8 | 13.8 | 10.8 | 3.1 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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)