

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: P382968

Luminaire Tested: **GLEON-SA3B-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13460.9 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

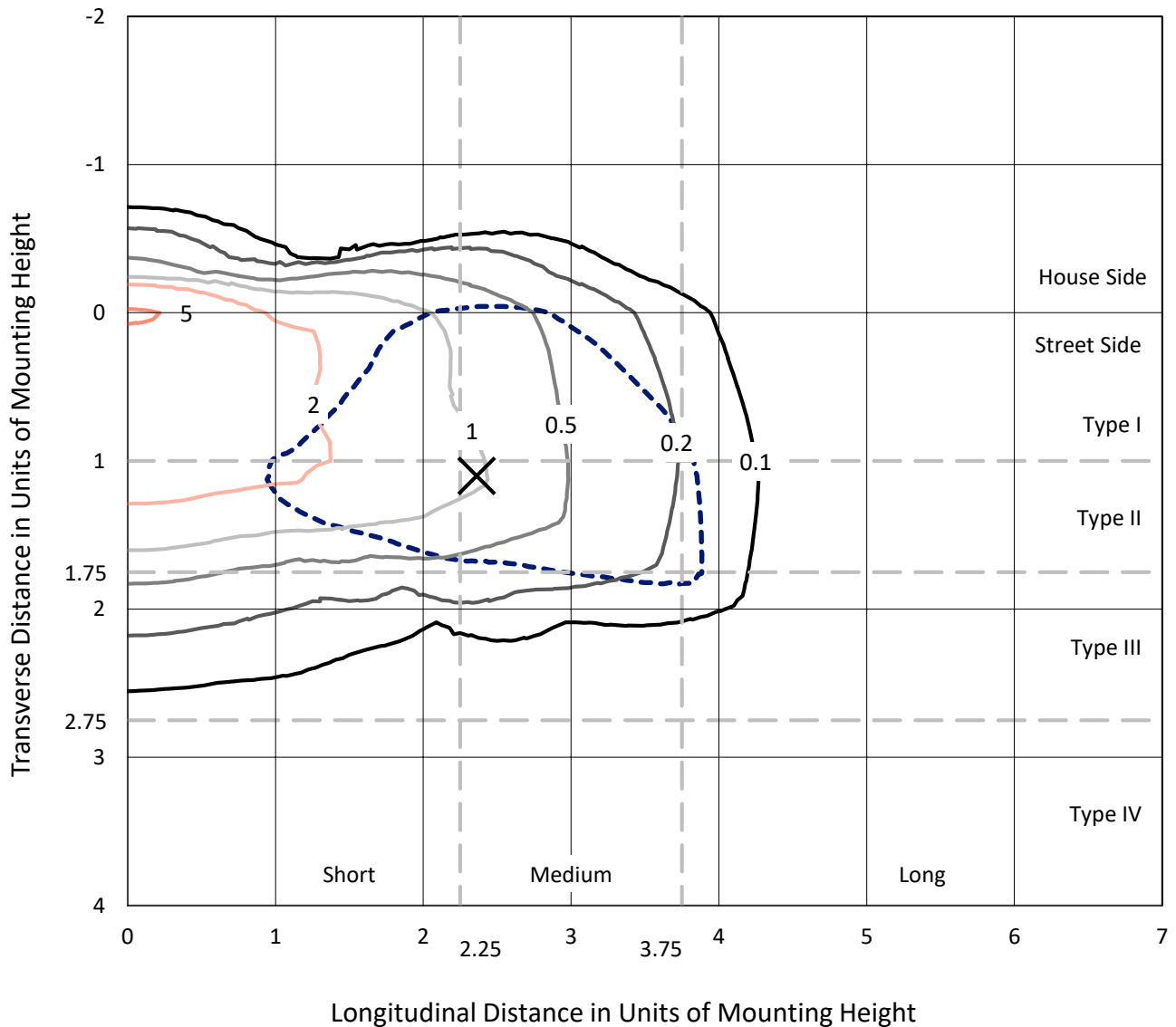
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

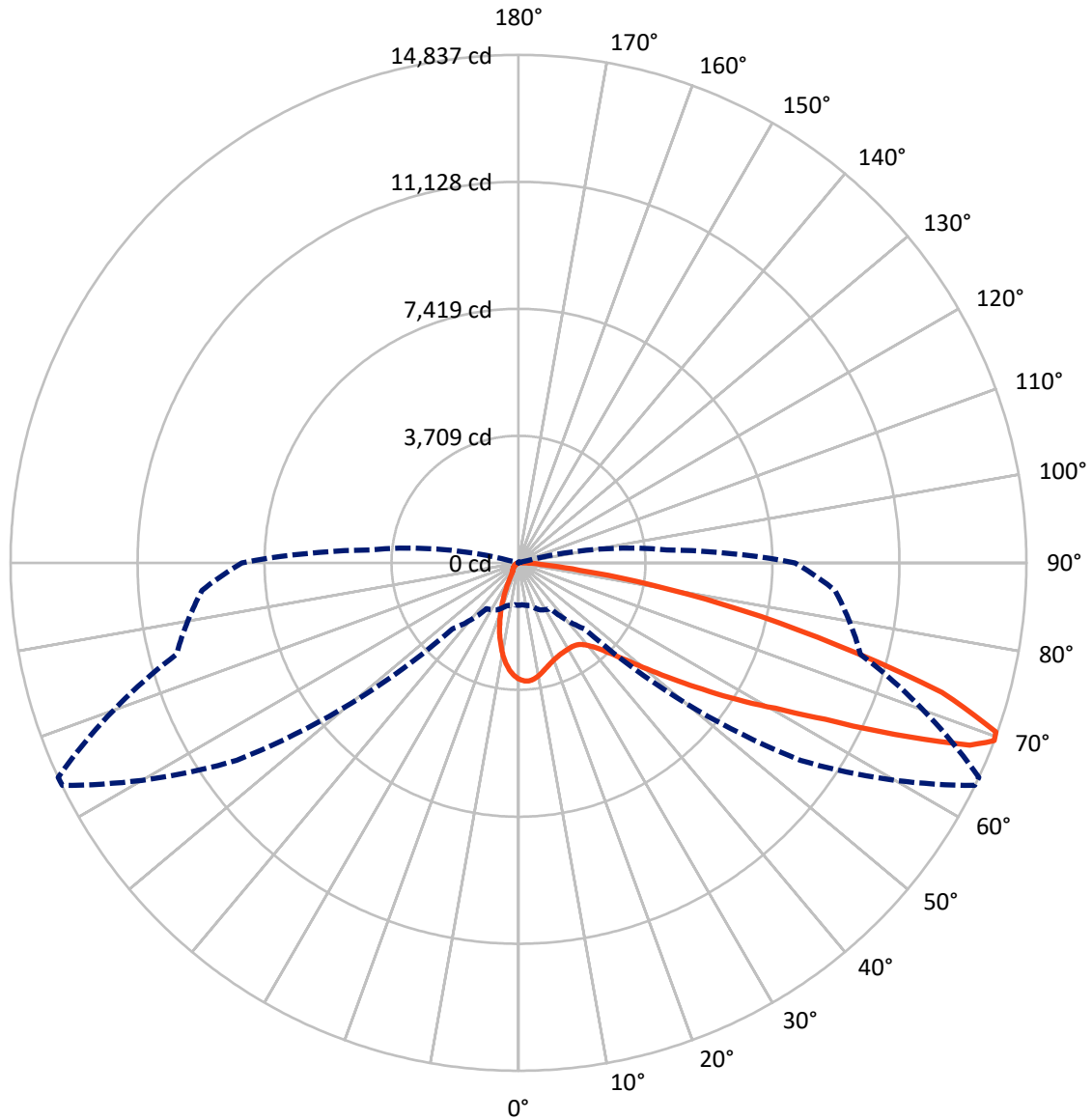
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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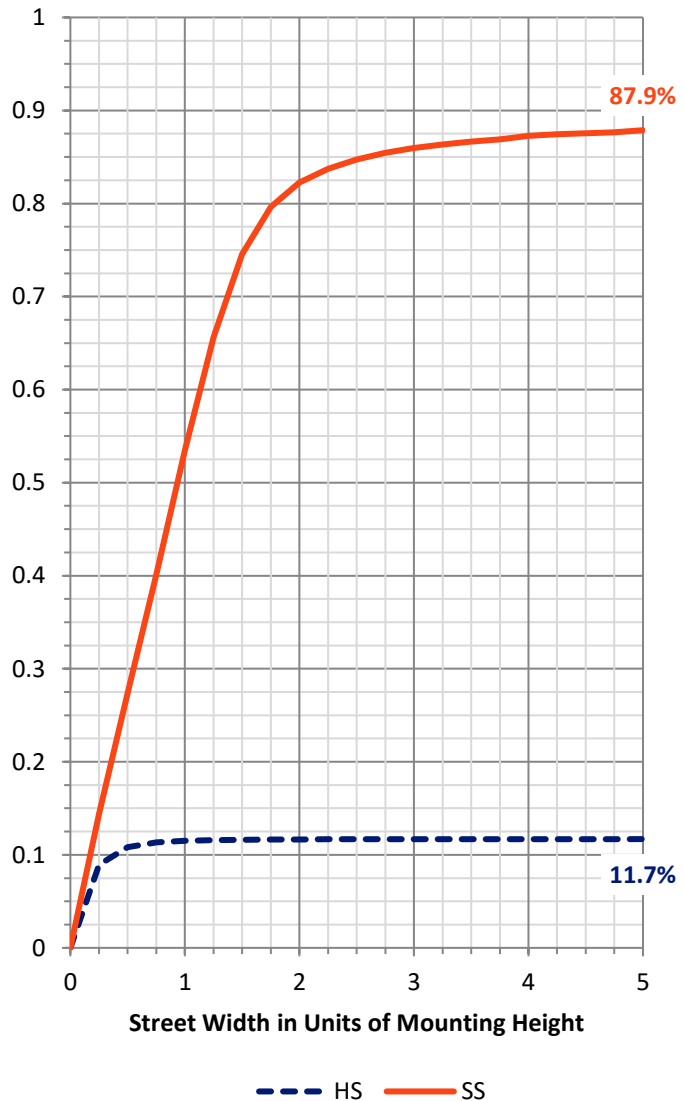
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1586.7 | 0.0 | 1586.7 |
| | % Fixture | 11.8 | 0.0 | 11.8 |
| Street Side | Lumens | 11874.2 | 0.0 | 11874.2 |
| | % Fixture | 88.2 | 0.0 | 88.2 |
| Total | Lumens | 13460.9 | 0.0 | 13460.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 284.4 | 2.1 |
| 10°-20° | 622.7 | 4.6 |
| 20°-30° | 862.4 | 6.4 |
| 30°-40° | 1202.5 | 8.9 |
| 40°-50° | 1869.0 | 13.9 |
| 50°-60° | 3000.5 | 22.3 |
| 60°-70° | 3394.1 | 25.2 |
| 70°-80° | 1993.4 | 14.8 |
| 80°-90° | 231.9 | 1.7 |
| 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° | 13460.9 | 100.0 |
| 0°-180° | 13460.9 | 100.0 |

Coefficient of Utilization

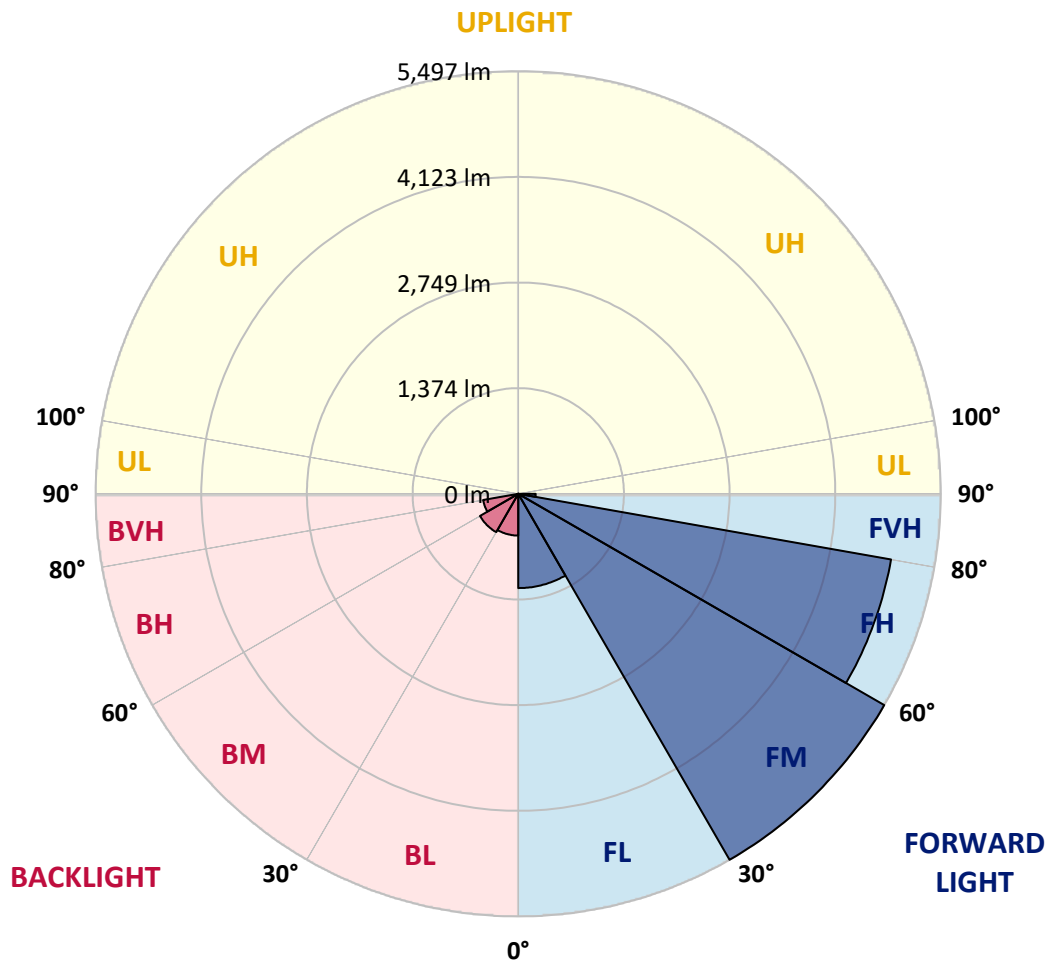


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1226.6 | 9.1 | | | |
| FM (30°-60°) | 5497.0 | 40.8 | | | |
| FH (60°-80°) | 4923.9 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 226.7 | 1.7 | | | G3/500 |
| BL (0°-30°) | 542.9 | 4.0 | B2/1000 | | |
| BM (30°-60°) | 575.0 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 463.6 | 3.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.2 | 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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|--------|
| 0° | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 |
| 2.5° | 3431.7 | 3423.3 | 3430.1 | 3444.9 | 3452.3 | 3452.3 | 3458.0 | 3451.1 | 3453.4 | 3436.9 | 3413.0 |
| 5° | 3217.0 | 3204.0 | 3222.7 | 3264.3 | 3315.6 | 3359.4 | 3424.4 | 3458.6 | 3462.0 | 3462.6 | 3434.6 |
| 7.5° | 2985.8 | 2973.8 | 3001.7 | 3050.7 | 3116.8 | 3198.3 | 3311.6 | 3410.7 | 3416.4 | 3469.9 | 3449.4 |
| 10° | 2797.8 | 2789.2 | 2821.8 | 2874.1 | 2951.6 | 3042.7 | 3181.7 | 3319.6 | 3336.1 | 3454.6 | 3447.2 |
| 12.5° | 2648.6 | 2641.8 | 2672.5 | 2732.9 | 2812.1 | 2912.9 | 3058.1 | 3218.2 | 3240.4 | 3419.8 | 3435.7 |
| 15° | 2539.8 | 2538.7 | 2564.3 | 2622.4 | 2710.1 | 2804.1 | 2952.7 | 3124.2 | 3149.8 | 3382.3 | 3434.1 |
| 17.5° | 2482.9 | 2484.5 | 2503.3 | 2552.9 | 2628.1 | 2721.5 | 2863.9 | 3045.0 | 3072.9 | 3348.6 | 3442.6 |
| 20° | 2477.2 | 2478.8 | 2489.1 | 2517.0 | 2578.0 | 2660.6 | 2791.6 | 2978.3 | 3007.4 | 3323.6 | 3456.2 |
| 22.5° | 2527.3 | 2526.2 | 2529.0 | 2526.2 | 2560.3 | 2623.0 | 2743.7 | 2927.1 | 2960.7 | 3307.0 | 3467.1 |
| 25° | 2623.5 | 2621.8 | 2620.7 | 2599.6 | 2576.8 | 2610.4 | 2723.8 | 2898.0 | 2930.0 | 3295.1 | 3473.4 |
| 27.5° | 2757.4 | 2756.3 | 2754.5 | 2719.7 | 2651.5 | 2630.3 | 2726.1 | 2887.2 | 2914.0 | 3285.4 | 3472.3 |
| 30° | 2933.4 | 2941.4 | 2939.0 | 2890.7 | 2784.1 | 2691.3 | 2749.9 | 2881.6 | 2904.9 | 3266.6 | 3460.2 |
| 32.5° | 3140.2 | 3156.1 | 3168.7 | 3116.8 | 2983.5 | 2812.1 | 2805.3 | 2887.8 | 2904.9 | 3252.3 | 3438.6 |
| 35° | 3354.9 | 3375.4 | 3421.5 | 3403.3 | 3227.9 | 2993.7 | 2900.4 | 2925.4 | 2939.7 | 3260.3 | 3428.4 |
| 37.5° | 3566.2 | 3590.7 | 3691.0 | 3743.9 | 3548.0 | 3234.1 | 3048.4 | 3018.2 | 3025.7 | 3308.8 | 3439.7 |
| 40° | 3811.7 | 3848.7 | 4000.8 | 4086.2 | 3930.2 | 3555.9 | 3270.0 | 3177.7 | 3180.6 | 3415.2 | 3492.7 |
| 42.5° | 4134.1 | 4172.2 | 4336.8 | 4470.7 | 4360.8 | 3962.6 | 3570.7 | 3421.5 | 3418.7 | 3614.6 | 3617.5 |
| 45° | 4527.1 | 4567.0 | 4737.3 | 4886.0 | 4836.4 | 4444.5 | 3955.8 | 3777.5 | 3774.1 | 3929.0 | 3853.8 |
| 47.5° | 4972.5 | 5011.8 | 5163.8 | 5317.1 | 5370.7 | 5007.3 | 4446.2 | 4263.4 | 4255.4 | 4365.9 | 4219.0 |
| 50° | 5354.7 | 5380.3 | 5520.4 | 5726.7 | 5968.1 | 5698.7 | 5056.3 | 4880.2 | 4871.7 | 4946.3 | 4754.9 |
| 52.5° | 5493.7 | 5508.5 | 5650.9 | 5939.6 | 6542.3 | 6635.1 | 5857.7 | 5630.9 | 5624.7 | 5657.2 | 5468.7 |
| 55° | 5212.3 | 5239.1 | 5414.0 | 5842.3 | 6853.3 | 7693.5 | 6869.2 | 6560.5 | 6513.3 | 6443.1 | 6214.8 |
| 57.5° | 4445.6 | 4488.4 | 4676.4 | 5245.9 | 6708.1 | 8533.0 | 8355.9 | 7612.0 | 7542.5 | 7114.1 | 6821.4 |
| 60° | 3330.9 | 3383.4 | 3539.4 | 4154.1 | 5932.8 | 8832.0 | 9980.3 | 8783.7 | 8627.0 | 7648.5 | 7379.0 |
| 62.5° | 2285.7 | 2311.9 | 2417.9 | 2818.3 | 4369.3 | 8342.2 | 11339.4 | 10352.8 | 10067.0 | 8229.4 | 7982.2 |
| 65° | 1745.8 | 1754.9 | 1798.2 | 1936.0 | 2601.9 | 6776.4 | 11879.9 | 12423.3 | 12077.5 | 8924.3 | 8608.2 |
| 67.5° | 1406.9 | 1399.5 | 1459.3 | 1656.4 | 1742.4 | 4134.1 | 11249.4 | 14382.1 | 14220.4 | 9853.4 | 9238.2 |
| 69° | 1240.5 | 1230.3 | 1291.2 | 1520.2 | 1636.4 | 2732.9 | 10056.6 | 14827.0 | 14837.2 | 10343.7 | 9281.5 |
| 70° | 1116.4 | 1123.3 | 1183.6 | 1439.3 | 1600.6 | 2145.1 | 8917.5 | 14713.6 | 14794.5 | 10527.1 | 9021.8 |
| 72.5° | 745.6 | 763.8 | 885.2 | 1195.0 | 1539.0 | 1623.3 | 5384.3 | 12626.1 | 12937.1 | 10114.2 | 7740.1 |
| 75° | 420.3 | 434.0 | 578.1 | 901.1 | 1450.1 | 1545.9 | 2843.9 | 9302.0 | 9602.7 | 8457.8 | 5968.7 |
| 77.5° | 206.2 | 213.6 | 327.0 | 581.6 | 1212.7 | 1473.0 | 1613.1 | 6318.4 | 6661.9 | 5520.4 | 3375.9 |
| 80° | 87.2 | 91.1 | 163.5 | 358.8 | 866.9 | 1405.7 | 1197.9 | 3888.6 | 3931.3 | 2162.8 | 899.4 |
| 82.5° | 33.6 | 34.7 | 68.9 | 223.9 | 550.8 | 1095.9 | 1001.9 | 1843.7 | 1799.3 | 407.3 | 205.0 |
| 85° | 4.0 | 4.6 | 25.1 | 134.4 | 306.5 | 563.9 | 814.0 | 794.6 | 735.4 | 80.9 | 105.4 |
| 87.5° | 0.0 | 0.0 | 1.7 | 41.0 | 91.1 | 264.3 | 423.2 | 329.8 | 297.3 | 26.2 | 54.7 |
| 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° | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 | 3401.5 |
| 2.5° | 3393.1 | 3387.4 | 3356.6 | 3312.1 | 3270.0 | 3217.6 | 3167.4 | 3137.3 | 3113.3 | 3097.4 | 3116.2 |
| 5° | 3402.2 | 3377.0 | 3283.7 | 3164.1 | 3046.7 | 2914.6 | 2791.6 | 2687.3 | 2646.3 | 2600.8 | 2621.3 |
| 7.5° | 3399.3 | 3352.0 | 3184.0 | 2971.0 | 2755.7 | 2533.0 | 2322.3 | 2159.9 | 2075.6 | 1993.0 | 2014.1 |
| 10° | 3385.1 | 3305.3 | 3050.7 | 2735.2 | 2412.8 | 2092.6 | 1793.6 | 1566.4 | 1439.3 | 1324.3 | 1340.8 |
| 12.5° | 3353.8 | 3242.6 | 2893.5 | 2465.2 | 2034.0 | 1611.9 | 1261.6 | 970.6 | 814.5 | 745.6 | 754.2 |
| 15° | 3334.9 | 3181.7 | 2727.2 | 2191.7 | 1629.6 | 1122.7 | 771.2 | 573.6 | 502.4 | 479.6 | 482.4 |
| 17.5° | 3325.8 | 3123.0 | 2555.1 | 1879.1 | 1216.0 | 714.9 | 498.4 | 439.7 | 424.3 | 420.3 | 421.5 |
| 20° | 3316.7 | 3063.9 | 2378.1 | 1569.8 | 837.8 | 480.8 | 409.5 | 392.5 | 386.8 | 381.7 | 382.8 |
| 22.5° | 3301.3 | 3006.8 | 2187.8 | 1256.5 | 565.1 | 390.1 | 369.1 | 352.6 | 340.6 | 334.3 | 335.5 |
| 25° | 3282.5 | 2947.0 | 1993.6 | 935.8 | 412.4 | 348.0 | 328.1 | 304.7 | 290.5 | 279.1 | 279.7 |
| 27.5° | 3252.3 | 2873.5 | 1793.0 | 681.2 | 346.3 | 311.6 | 284.8 | 259.2 | 235.2 | 222.2 | 222.2 |
| 30° | 3210.2 | 2790.5 | 1570.3 | 487.6 | 310.4 | 275.6 | 243.2 | 211.3 | 185.7 | 173.7 | 172.6 |
| 32.5° | 3163.5 | 2703.8 | 1345.3 | 369.6 | 282.0 | 242.1 | 205.0 | 171.4 | 148.7 | 139.0 | 138.4 |
| 35° | 3123.7 | 2610.4 | 1120.9 | 309.8 | 253.5 | 209.6 | 169.2 | 140.7 | 122.5 | 114.5 | 113.9 |
| 37.5° | 3098.0 | 2517.0 | 902.2 | 276.9 | 227.9 | 179.4 | 141.8 | 116.2 | 103.1 | 96.8 | 96.2 |
| 40° | 3094.0 | 2447.5 | 702.3 | 251.8 | 203.9 | 152.7 | 118.5 | 98.6 | 86.5 | 79.7 | 79.2 |
| 42.5° | 3145.8 | 2407.7 | 538.8 | 230.7 | 179.4 | 129.3 | 100.8 | 84.3 | 71.7 | 64.9 | 64.4 |
| 45° | 3281.9 | 2420.2 | 414.6 | 211.9 | 154.9 | 109.4 | 85.4 | 70.1 | 58.7 | 53.6 | 52.4 |
| 47.5° | 3530.3 | 2506.8 | 329.8 | 193.1 | 131.5 | 92.9 | 72.9 | 58.1 | 48.4 | 43.3 | 42.8 |
| 50° | 3972.3 | 2710.1 | 275.6 | 172.6 | 109.9 | 79.2 | 60.4 | 47.2 | 39.3 | 34.7 | 34.2 |
| 52.5° | 4559.0 | 3072.3 | 246.0 | 152.7 | 91.1 | 67.3 | 49.6 | 37.6 | 30.7 | 27.3 | 26.7 |
| 55° | 5206.0 | 3510.9 | 226.7 | 131.0 | 74.6 | 55.8 | 39.3 | 29.6 | 23.9 | 21.1 | 19.9 |
| 57.5° | 5837.7 | 3890.9 | 208.5 | 109.9 | 62.0 | 45.6 | 31.3 | 23.4 | 18.8 | 15.9 | 15.4 |
| 60° | 6418.1 | 4240.0 | 187.4 | 88.3 | 50.7 | 35.9 | 24.5 | 18.3 | 14.8 | 11.9 | 11.9 |
| 62.5° | 7039.5 | 4510.0 | 158.4 | 68.9 | 41.5 | 27.3 | 19.9 | 16.5 | 11.9 | 10.2 | 9.7 |
| 65° | 7698.0 | 4710.5 | 124.2 | 53.6 | 32.5 | 20.5 | 16.5 | 17.0 | 9.7 | 7.4 | 6.8 |
| 67.5° | 8184.4 | 4670.6 | 91.7 | 42.1 | 25.1 | 15.9 | 15.9 | 18.3 | 8.6 | 5.7 | 5.1 |
| 69° | 8077.4 | 4346.5 | 76.9 | 36.4 | 21.6 | 13.7 | 14.8 | 18.3 | 8.0 | 5.1 | 4.6 |
| 70° | 7766.9 | 3987.7 | 67.8 | 32.5 | 19.4 | 12.6 | 14.3 | 17.7 | 7.4 | 5.1 | 4.6 |
| 72.5° | 6468.3 | 3003.4 | 53.0 | 24.5 | 15.4 | 10.2 | 11.9 | 15.4 | 7.4 | 5.1 | 4.0 |
| 75° | 4865.5 | 1922.3 | 40.4 | 17.7 | 11.4 | 8.0 | 9.1 | 11.4 | 7.4 | 4.6 | 4.0 |
| 77.5° | 2647.5 | 693.2 | 29.1 | 11.9 | 8.0 | 6.2 | 6.2 | 8.6 | 6.8 | 3.4 | 2.2 |
| 80° | 680.7 | 174.3 | 18.3 | 8.0 | 6.2 | 4.6 | 4.0 | 5.7 | 4.0 | 0.6 | 0.0 |
| 82.5° | 168.1 | 39.3 | 9.7 | 5.7 | 4.6 | 1.7 | 1.7 | 2.9 | 1.7 | 0.0 | 0.0 |
| 85° | 92.3 | 19.4 | 6.2 | 4.0 | 2.2 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 47.2 | 5.7 | 1.7 | 1.1 | 0.6 | 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)