

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: STREETWORKS

Report Number: P648749

Luminaire Tested: **GLAN-SA2C-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9069.5 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

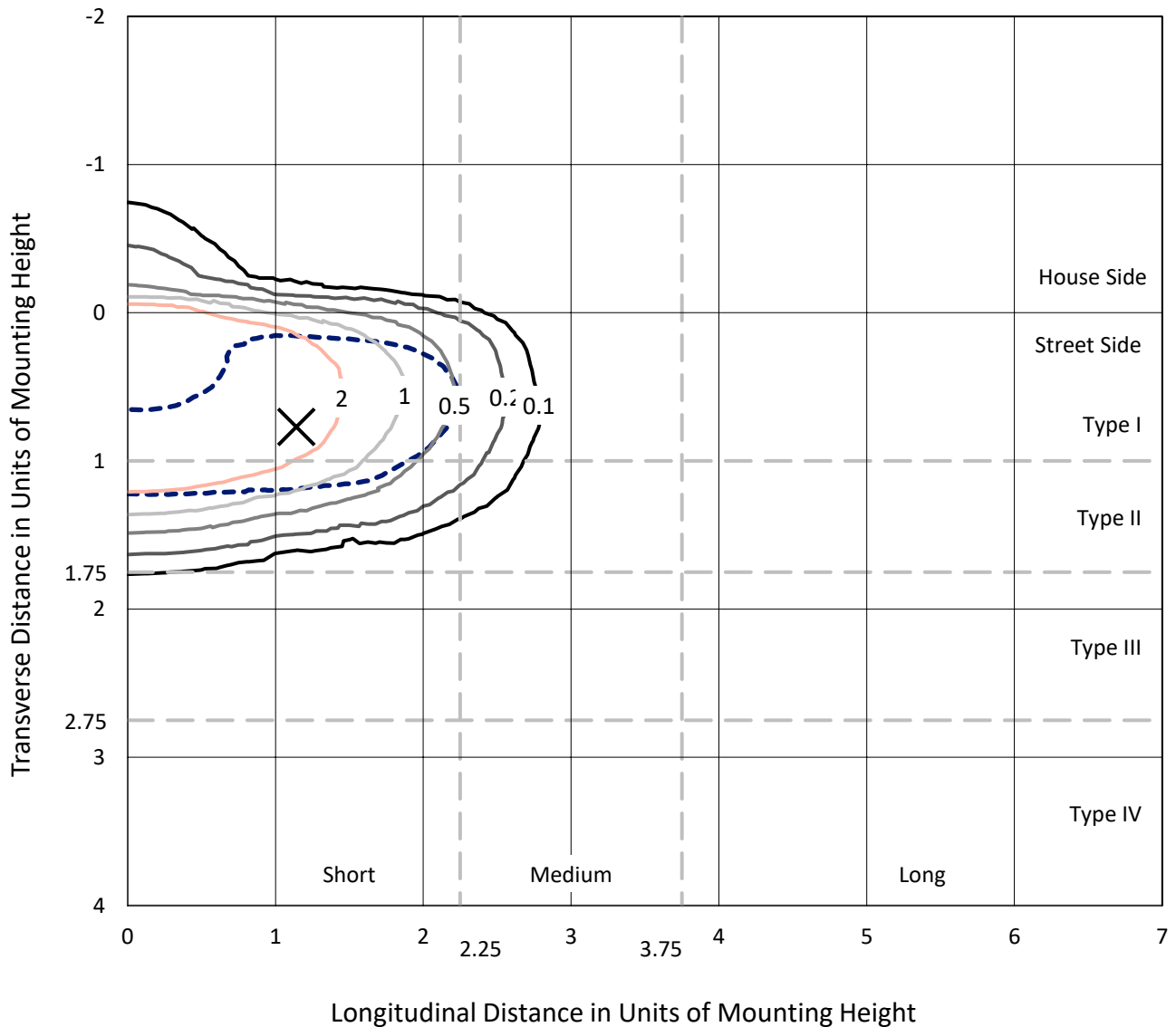
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

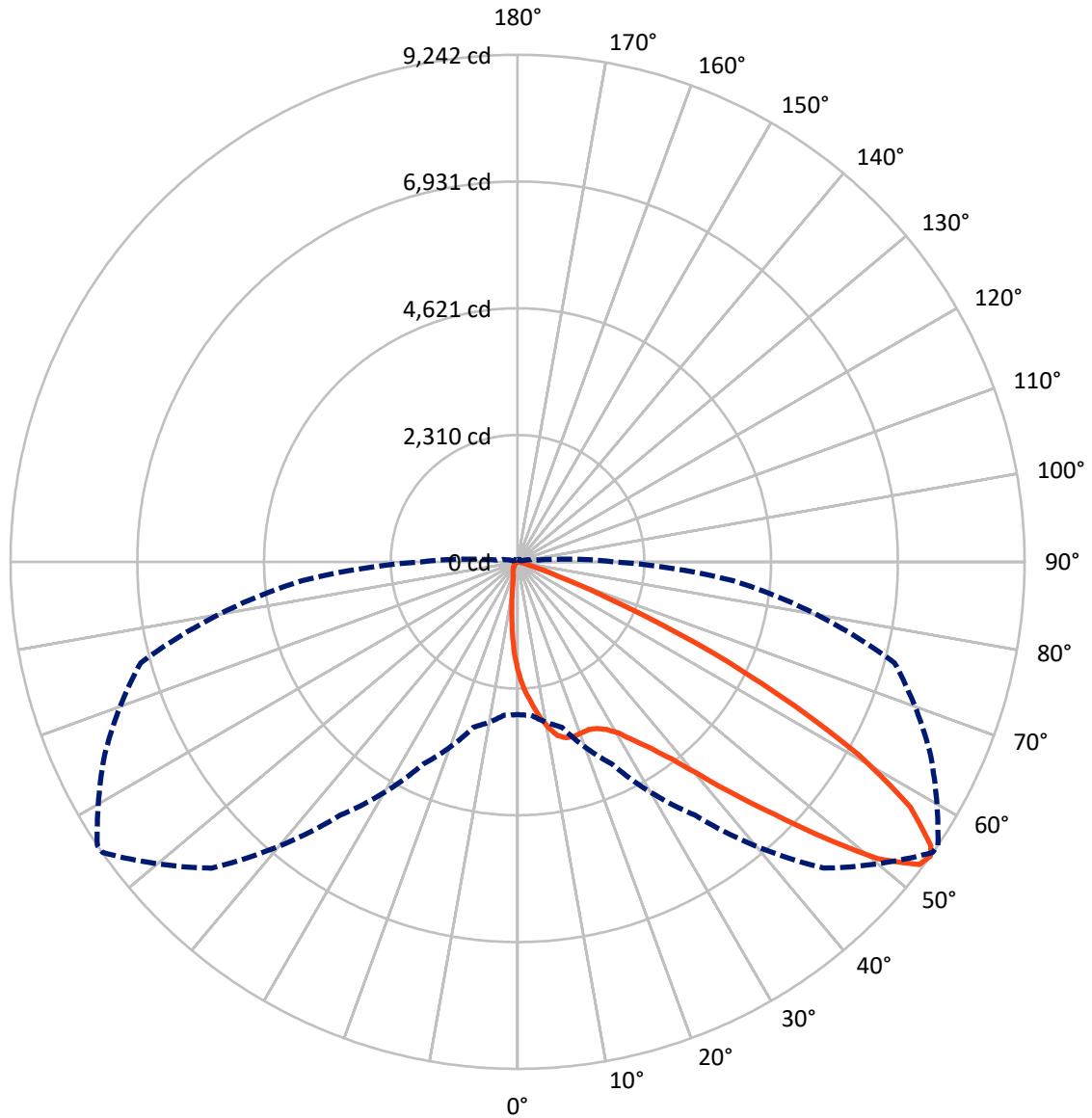
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 428.9 | 0.0 | 428.9 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 8640.6 | 0.0 | 8640.6 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 9069.5 | 0.0 | 9069.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 178.1 | 2.0 |
| 10°-20° | 481.3 | 5.3 |
| 20°-30° | 833.6 | 9.2 |
| 30°-40° | 1439.0 | 15.9 |
| 40°-50° | 2449.2 | 27.0 |
| 50°-60° | 2423.8 | 26.7 |
| 60°-70° | 1106.3 | 12.2 |
| 70°-80° | 142.1 | 1.6 |
| 80°-90° | 16.0 | 0.2 |
| 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° | 9069.5 | 100.0 |
| 0°-180° | 9069.5 | 100.0 |

Coefficient of Utilization

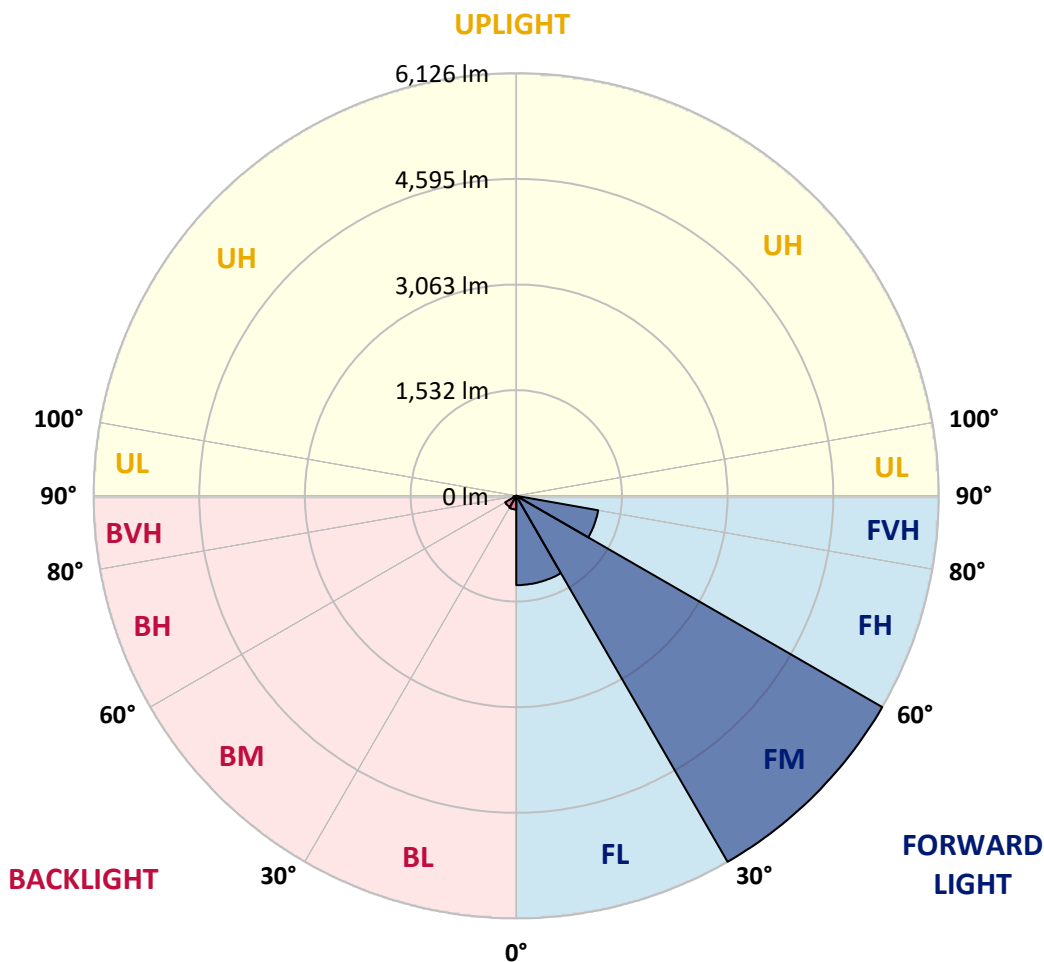


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1294.7 | 14.3 | | | |
| FM (30°-60°) | 6126.2 | 67.5 | | | |
| FH (60°-80°) | 1205.4 | 13.3 | | | G1/1800 |
| FVH (80°-90°) | 14.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 198.3 | 2.2 | B1/500 | | |
| BM (30°-60°) | 185.9 | 2.0 | B0/220 | | |
| BH (60°-80°) | 42.9 | 0.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.7 | 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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 |
| 2.5° | 2560.8 | 2543.0 | 2518.6 | 2499.6 | 2454.9 | 2390.7 | 2322.8 | 2322.8 | 2257.3 | 2166.1 | 2073.1 |
| 5° | 2953.6 | 2942.0 | 2918.2 | 2869.2 | 2819.0 | 2729.1 | 2592.6 | 2568.7 | 2451.9 | 2286.7 | 2112.8 |
| 7.5° | 3113.4 | 3118.8 | 3120.1 | 3107.2 | 3083.4 | 2994.7 | 2859.4 | 2842.9 | 2656.2 | 2434.7 | 2164.9 |
| 10° | 2960.4 | 2987.3 | 3013.6 | 3066.9 | 3142.1 | 3163.5 | 3087.1 | 3069.9 | 2886.3 | 2584.7 | 2221.2 |
| 12.5° | 2732.7 | 2747.4 | 2762.1 | 2846.0 | 2997.1 | 3170.2 | 3250.4 | 3249.8 | 3094.3 | 2733.9 | 2292.8 |
| 15° | 2626.9 | 2639.7 | 2641.0 | 2678.3 | 2809.2 | 3061.3 | 3320.2 | 3329.3 | 3297.5 | 2918.2 | 2369.9 |
| 17.5° | 2648.9 | 2659.3 | 2650.8 | 2659.9 | 2728.4 | 2941.4 | 3312.2 | 3342.8 | 3462.1 | 3095.0 | 2439.7 |
| 20° | 2792.7 | 2812.9 | 2779.9 | 2754.1 | 2775.0 | 2909.5 | 3285.3 | 3328.1 | 3578.4 | 3267.5 | 2503.3 |
| 22.5° | 3051.0 | 3061.9 | 3020.3 | 2950.0 | 2913.2 | 2976.3 | 3278.0 | 3320.2 | 3677.5 | 3408.9 | 2540.0 |
| 25° | 3337.9 | 3334.2 | 3288.4 | 3209.4 | 3132.3 | 3110.9 | 3326.3 | 3364.2 | 3759.5 | 3536.2 | 2551.0 |
| 27.5° | 3624.9 | 3635.9 | 3558.8 | 3460.9 | 3368.5 | 3312.8 | 3434.6 | 3462.7 | 3851.9 | 3681.2 | 2564.5 |
| 30° | 3958.4 | 3940.6 | 3864.7 | 3752.8 | 3646.9 | 3569.2 | 3609.0 | 3616.9 | 3979.2 | 3873.3 | 2600.0 |
| 32.5° | 4392.2 | 4343.2 | 4258.2 | 4062.4 | 3986.5 | 3854.9 | 3864.7 | 3874.5 | 4134.0 | 4063.6 | 2642.8 |
| 35° | 4980.8 | 4978.4 | 4811.9 | 4548.2 | 4363.4 | 4200.1 | 4157.3 | 4165.2 | 4368.4 | 4346.3 | 2737.6 |
| 37.5° | 5689.4 | 5699.2 | 5509.5 | 5244.0 | 4903.8 | 4644.3 | 4556.2 | 4557.5 | 4724.5 | 4736.7 | 2882.1 |
| 40° | 6266.4 | 6292.1 | 6179.0 | 5999.7 | 5663.8 | 5258.0 | 5109.9 | 5096.5 | 5225.0 | 5209.7 | 3088.2 |
| 42.5° | 6514.9 | 6538.8 | 6581.0 | 6643.4 | 6458.6 | 6123.8 | 5774.5 | 5792.9 | 5832.0 | 5724.9 | 3319.5 |
| 45° | 6393.1 | 6431.0 | 6596.9 | 6982.4 | 7156.2 | 7043.6 | 6626.8 | 6562.6 | 6396.8 | 6284.8 | 3552.1 |
| 47.5° | 5885.8 | 5978.2 | 6255.5 | 6897.3 | 7505.5 | 7886.1 | 7588.8 | 7503.7 | 6962.2 | 6693.6 | 3700.1 |
| 50° | 5051.8 | 5057.3 | 5443.4 | 6264.0 | 7324.4 | 8417.9 | 8570.9 | 8507.2 | 7489.0 | 6923.1 | 3774.8 |
| 52.5° | 3662.2 | 3782.8 | 4136.4 | 5086.7 | 6539.9 | 8337.1 | 9196.8 | 9170.5 | 8032.4 | 7040.5 | 3882.5 |
| 54° | 2784.1 | 2807.4 | 3121.9 | 4064.9 | 5638.6 | 7893.5 | 9235.4 | 9241.5 | 8302.2 | 7111.4 | 3946.2 |
| 55° | 2282.4 | 2226.7 | 2557.1 | 3462.7 | 5023.6 | 7501.2 | 9109.3 | 9138.7 | 8423.4 | 7148.2 | 3993.2 |
| 57.5° | 1081.9 | 1082.4 | 1335.2 | 1826.5 | 3146.4 | 5824.7 | 8339.0 | 8442.9 | 8436.8 | 7211.2 | 4138.2 |
| 60° | 547.6 | 551.3 | 607.0 | 843.2 | 1554.3 | 3872.1 | 6894.9 | 7142.7 | 7787.6 | 7220.4 | 4186.0 |
| 62.5° | 383.0 | 378.7 | 369.6 | 405.7 | 654.1 | 1967.8 | 5133.2 | 5348.6 | 6616.4 | 6871.0 | 4034.3 |
| 65° | 328.0 | 318.8 | 293.1 | 287.6 | 330.4 | 783.9 | 3197.1 | 3548.4 | 5051.8 | 5949.5 | 3602.3 |
| 67.5° | 280.2 | 276.6 | 253.3 | 239.3 | 233.7 | 341.5 | 1649.7 | 1834.5 | 3453.0 | 4276.6 | 2728.4 |
| 70° | 238.0 | 236.2 | 222.1 | 204.4 | 189.1 | 204.4 | 611.9 | 758.2 | 1924.5 | 2302.6 | 1287.4 |
| 72.5° | 193.3 | 195.2 | 197.6 | 175.0 | 159.1 | 145.0 | 261.3 | 304.1 | 805.2 | 823.0 | 450.4 |
| 75° | 169.5 | 167.6 | 167.6 | 152.4 | 132.8 | 107.7 | 143.8 | 154.8 | 246.6 | 228.9 | 104.6 |
| 77.5° | 119.3 | 115.0 | 134.6 | 125.4 | 110.7 | 76.5 | 82.0 | 86.9 | 102.2 | 87.5 | 48.9 |
| 80° | 82.6 | 82.6 | 86.3 | 112.6 | 99.8 | 55.7 | 50.2 | 53.9 | 60.6 | 52.0 | 28.1 |
| 82.5° | 46.5 | 47.8 | 56.3 | 60.0 | 58.1 | 37.3 | 33.0 | 33.7 | 40.4 | 35.5 | 17.8 |
| 85° | 5.5 | 9.2 | 32.4 | 31.8 | 23.9 | 16.5 | 18.3 | 18.9 | 25.1 | 22.0 | 10.4 |
| 87.5° | 0.6 | 1.3 | 6.7 | 8.5 | 6.1 | 6.7 | 6.7 | 6.7 | 8.5 | 9.8 | 7.4 |
| 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° | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 | 2015.0 |
| 2.5° | 2023.0 | 1976.4 | 1865.7 | 1737.2 | 1655.2 | 1521.8 | 1409.2 | 1327.8 | 1307.6 | 1268.5 | 1280.1 |
| 5° | 2020.5 | 1923.8 | 1698.0 | 1459.4 | 1204.8 | 1015.2 | 873.8 | 762.4 | 713.5 | 681.1 | 658.4 |
| 7.5° | 2021.7 | 1870.6 | 1508.3 | 1128.3 | 824.3 | 638.2 | 507.2 | 439.3 | 394.1 | 375.1 | 377.6 |
| 10° | 2025.4 | 1810.6 | 1288.0 | 835.9 | 556.2 | 412.4 | 332.2 | 299.8 | 284.5 | 282.1 | 281.5 |
| 12.5° | 2033.9 | 1745.2 | 1077.6 | 620.4 | 389.2 | 299.8 | 269.3 | 258.2 | 253.3 | 253.3 | 251.5 |
| 15° | 2043.2 | 1673.0 | 902.6 | 461.3 | 299.8 | 257.6 | 243.5 | 238.0 | 235.0 | 235.0 | 234.4 |
| 17.5° | 2043.2 | 1589.7 | 739.2 | 358.0 | 258.2 | 236.8 | 225.8 | 218.5 | 216.0 | 216.0 | 215.4 |
| 20° | 2030.2 | 1493.0 | 594.1 | 288.2 | 234.4 | 217.2 | 206.2 | 198.3 | 195.2 | 193.9 | 193.3 |
| 22.5° | 1985.6 | 1363.9 | 473.0 | 247.8 | 214.8 | 200.1 | 186.0 | 176.8 | 174.4 | 173.2 | 173.7 |
| 25° | 1906.1 | 1218.3 | 374.5 | 217.8 | 197.0 | 179.3 | 167.0 | 160.3 | 157.9 | 157.9 | 158.5 |
| 27.5° | 1824.1 | 1065.9 | 296.8 | 195.2 | 175.6 | 159.7 | 149.9 | 145.6 | 145.0 | 146.9 | 147.4 |
| 30° | 1748.2 | 913.0 | 240.5 | 176.8 | 156.7 | 143.2 | 136.5 | 135.2 | 135.2 | 135.9 | 136.5 |
| 32.5° | 1663.7 | 778.9 | 201.3 | 160.9 | 141.3 | 129.7 | 126.1 | 126.1 | 127.2 | 127.2 | 128.5 |
| 35° | 1610.6 | 663.9 | 176.8 | 145.6 | 129.7 | 120.0 | 117.4 | 118.1 | 120.0 | 122.4 | 123.6 |
| 37.5° | 1581.7 | 572.1 | 160.9 | 133.4 | 118.7 | 112.0 | 109.5 | 110.7 | 115.0 | 119.3 | 120.0 |
| 40° | 1584.2 | 503.0 | 148.1 | 123.0 | 110.2 | 102.8 | 100.9 | 104.6 | 108.9 | 113.2 | 113.8 |
| 42.5° | 1611.1 | 451.6 | 135.9 | 110.7 | 102.8 | 92.4 | 91.8 | 95.4 | 97.3 | 101.6 | 102.2 |
| 45° | 1643.0 | 414.3 | 123.0 | 97.9 | 89.3 | 80.2 | 80.8 | 83.9 | 86.3 | 93.0 | 94.2 |
| 47.5° | 1652.8 | 388.5 | 108.3 | 83.2 | 73.4 | 70.4 | 71.0 | 72.8 | 77.7 | 83.9 | 84.4 |
| 50° | 1663.7 | 372.6 | 94.2 | 70.4 | 62.4 | 61.8 | 62.4 | 63.7 | 66.7 | 69.1 | 68.5 |
| 52.5° | 1710.9 | 372.0 | 82.6 | 61.2 | 53.2 | 54.5 | 55.0 | 54.5 | 52.0 | 48.3 | 47.1 |
| 54° | 1754.9 | 373.9 | 77.1 | 56.9 | 48.9 | 50.8 | 50.2 | 47.1 | 41.0 | 37.3 | 35.5 |
| 55° | 1790.4 | 375.7 | 74.1 | 53.9 | 46.5 | 47.1 | 47.8 | 41.6 | 33.7 | 30.0 | 28.7 |
| 57.5° | 1860.2 | 371.5 | 66.7 | 47.1 | 41.0 | 38.5 | 38.0 | 27.6 | 18.3 | 15.9 | 14.7 |
| 60° | 1825.3 | 335.4 | 60.6 | 40.4 | 34.8 | 31.2 | 25.7 | 15.3 | 9.2 | 6.7 | 6.7 |
| 62.5° | 1688.2 | 284.5 | 53.9 | 33.0 | 28.7 | 23.9 | 13.5 | 8.5 | 4.3 | 2.4 | 1.8 |
| 65° | 1510.2 | 239.3 | 48.3 | 26.3 | 22.6 | 15.3 | 7.4 | 5.5 | 1.8 | 0.0 | 0.0 |
| 67.5° | 1122.8 | 177.4 | 41.0 | 20.8 | 17.1 | 9.8 | 4.9 | 3.1 | 0.6 | 0.0 | 0.0 |
| 70° | 520.1 | 108.3 | 34.8 | 15.9 | 12.2 | 7.4 | 3.7 | 1.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 149.3 | 67.9 | 28.7 | 11.6 | 8.5 | 6.1 | 3.1 | 1.3 | 0.6 | 0.0 | 0.0 |
| 75° | 52.0 | 54.5 | 21.5 | 8.5 | 6.7 | 4.3 | 2.4 | 1.3 | 0.6 | 0.0 | 0.0 |
| 77.5° | 31.2 | 44.1 | 13.5 | 7.4 | 5.5 | 3.7 | 2.4 | 1.3 | 0.6 | 0.6 | 0.0 |
| 80° | 17.8 | 29.4 | 8.5 | 6.1 | 4.9 | 3.1 | 1.8 | 1.3 | 0.6 | 0.6 | 0.0 |
| 82.5° | 9.8 | 14.1 | 6.7 | 5.5 | 4.3 | 3.1 | 1.8 | 1.3 | 0.6 | 0.6 | 0.6 |
| 85° | 8.0 | 7.4 | 5.5 | 4.9 | 3.7 | 2.4 | 1.8 | 0.6 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.1 | 4.9 | 4.9 | 4.9 | 3.7 | 2.4 | 1.8 | 0.6 | 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)