

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: P527447

Luminaire Tested: **GLAN-SA2C-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2C-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8821 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

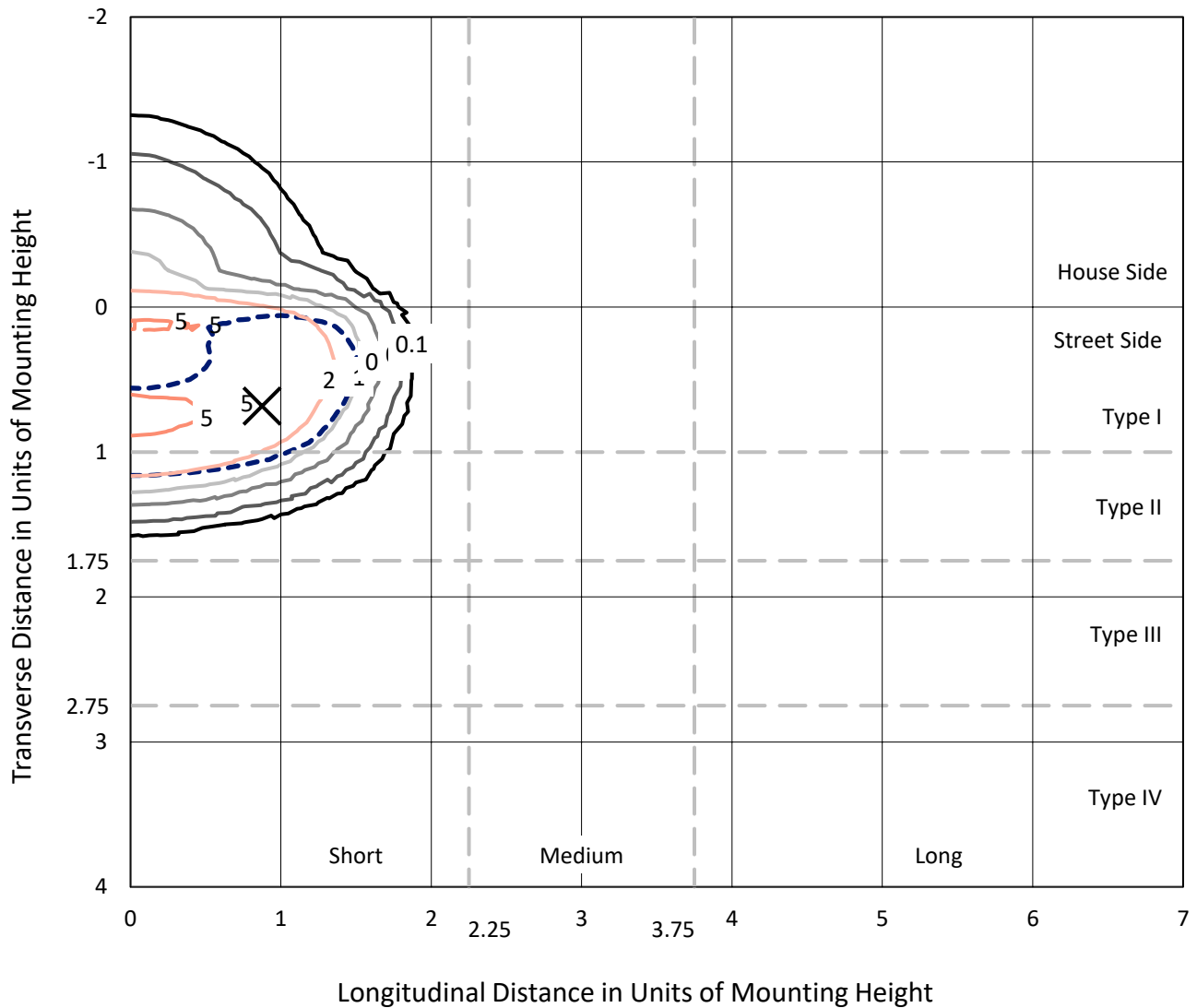
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

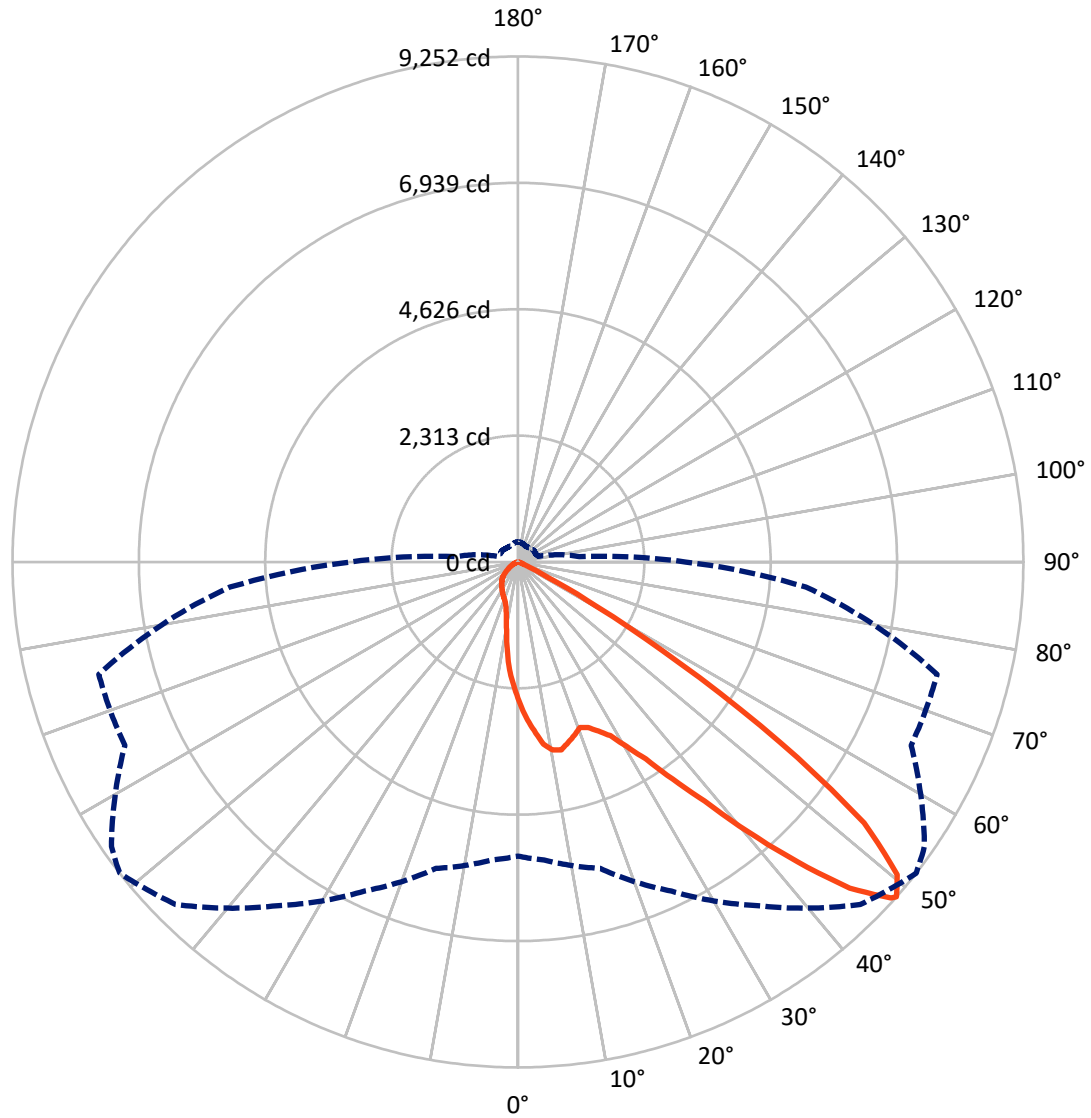
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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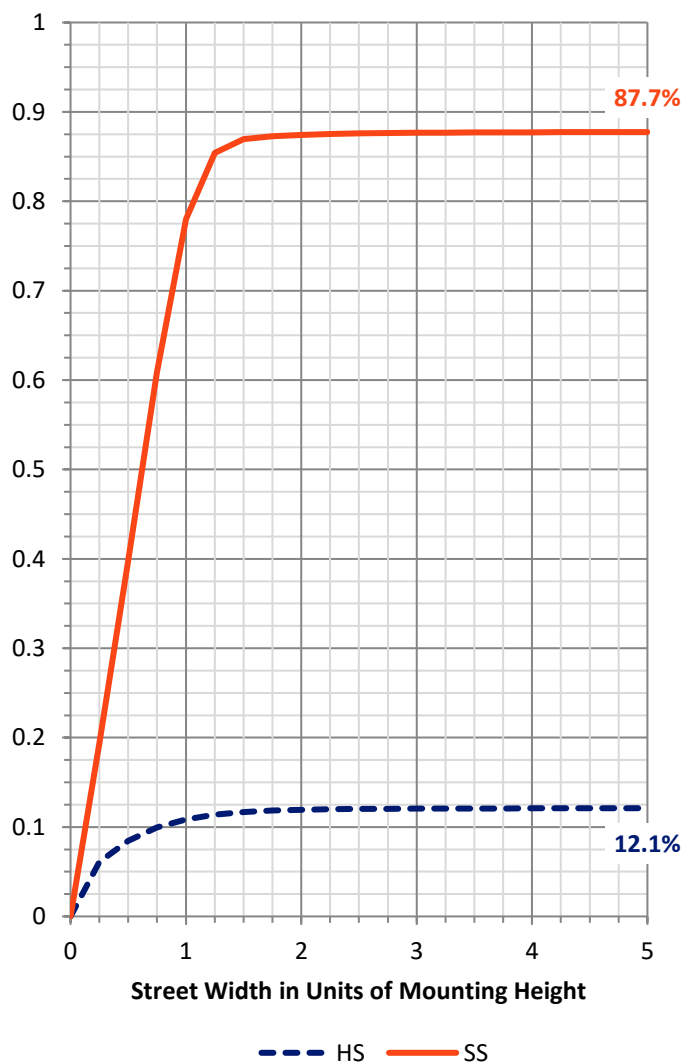
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1074.0 | 0.0 | 1074.0 |
| | % Fixture | 12.2 | 0.0 | 12.2 |
| Street Side | Lumens | 7747.0 | 0.0 | 7747.0 |
| | % Fixture | 87.8 | 0.0 | 87.8 |
| Total | Lumens | 8821.0 | 0.0 | 8821.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 233.2 | 2.6 |
| 10°-20° | 609.3 | 6.9 |
| 20°-30° | 1040.4 | 11.8 |
| 30°-40° | 1915.8 | 21.7 |
| 40°-50° | 2975.3 | 33.7 |
| 50°-60° | 1790.6 | 20.3 |
| 60°-70° | 207.1 | 2.3 |
| 70°-80° | 40.1 | 0.5 |
| 80°-90° | 9.3 | 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° | 8821.0 | 100.0 |
| 0°-180° | 8821.0 | 100.0 |

Coefficient of Utilization

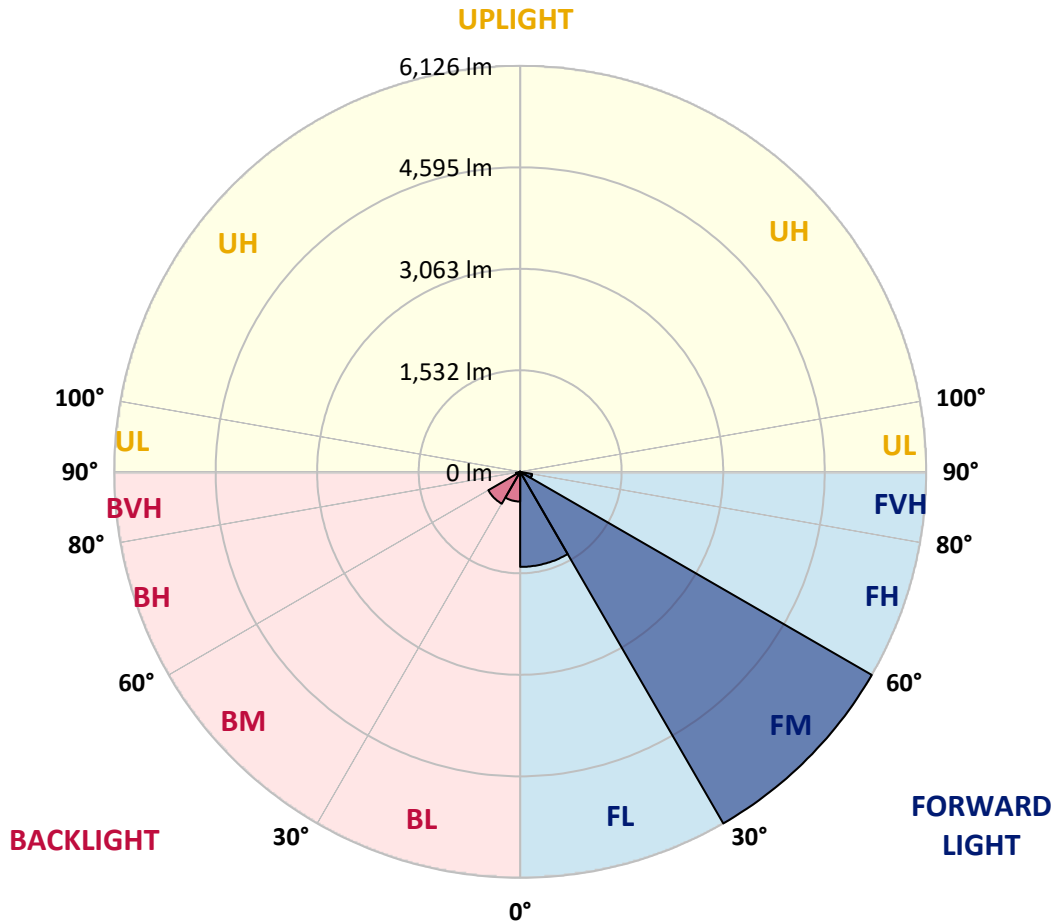


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1434.2 | 16.3 | | | |
| FM (30°-60°) | 6126.0 | 69.4 | | | |
| FH (60°-80°) | 182.4 | 2.1 | | | G0/660 |
| FVH (80°-90°) | 4.4 | 0.1 | | | G0/10 |
| BL (0°-30°) | 448.7 | 5.1 | B1/500 | | |
| BM (30°-60°) | 555.7 | 6.3 | B1/1000 | | |
| BH (60°-80°) | 64.8 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 4.9 | 0.1 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 |
| 2.5° | 3087.4 | 3016.7 | 3023.1 | 2976.8 | 2949.8 | 2906.1 | 2847.0 | 2835.4 | 2771.1 | 2683.7 | 2594.9 |
| 5° | 3365.2 | 3348.5 | 3370.3 | 3303.5 | 3306.0 | 3234.0 | 3095.1 | 3097.7 | 2949.8 | 2807.1 | 2669.5 |
| 7.5° | 3383.2 | 3344.6 | 3366.5 | 3425.6 | 3460.3 | 3447.5 | 3369.0 | 3300.9 | 3160.7 | 2951.1 | 2750.5 |
| 10° | 3029.6 | 3102.9 | 3126.0 | 3223.7 | 3362.6 | 3509.2 | 3500.2 | 3504.1 | 3387.0 | 3113.2 | 2820.0 |
| 12.5° | 2817.4 | 2768.5 | 2847.0 | 2906.1 | 3115.7 | 3399.9 | 3529.8 | 3558.1 | 3567.1 | 3270.0 | 2889.4 |
| 15° | 2721.0 | 2721.0 | 2733.8 | 2750.5 | 2902.3 | 3164.6 | 3429.5 | 3511.8 | 3705.9 | 3475.8 | 2998.7 |
| 17.5° | 2781.4 | 2778.8 | 2796.8 | 2762.1 | 2818.7 | 3020.6 | 3336.9 | 3430.8 | 3861.5 | 3677.7 | 3084.9 |
| 20° | 2965.3 | 2974.3 | 2962.7 | 2862.4 | 2866.3 | 3018.0 | 3234.0 | 3381.9 | 3967.0 | 3852.5 | 3199.3 |
| 22.5° | 3221.2 | 3226.3 | 3160.7 | 3051.4 | 3019.3 | 3093.9 | 3293.2 | 3406.3 | 4051.9 | 4062.1 | 3234.0 |
| 25° | 3516.9 | 3496.3 | 3483.5 | 3329.2 | 3231.5 | 3295.7 | 3426.9 | 3492.5 | 4104.6 | 4242.2 | 3333.0 |
| 27.5° | 3927.1 | 3886.0 | 3807.5 | 3669.9 | 3597.9 | 3506.6 | 3600.5 | 3708.5 | 4255.0 | 4494.2 | 3441.1 |
| 30° | 4532.8 | 4496.8 | 4343.8 | 4166.3 | 3977.3 | 3887.3 | 3916.8 | 3976.0 | 4526.4 | 4786.1 | 3583.8 |
| 32.5° | 5444.5 | 5368.6 | 5147.4 | 4809.2 | 4552.1 | 4303.9 | 4296.2 | 4359.2 | 4769.4 | 5189.9 | 3753.5 |
| 35° | 6448.8 | 6425.6 | 6100.3 | 5751.8 | 5254.2 | 4871.0 | 4877.4 | 4910.8 | 5234.9 | 5719.7 | 3976.0 |
| 37.5° | 7116.1 | 7243.4 | 7036.4 | 6662.2 | 6244.3 | 5696.5 | 5557.6 | 5569.2 | 5874.0 | 6347.2 | 4377.2 |
| 40° | 7631.8 | 7523.8 | 7548.2 | 7460.8 | 7175.3 | 6802.4 | 6495.1 | 6434.6 | 6613.4 | 7041.6 | 4775.8 |
| 42.5° | 7406.8 | 7411.9 | 7562.3 | 7769.4 | 7840.1 | 7813.1 | 7499.3 | 7384.9 | 7246.0 | 7609.9 | 5155.2 |
| 45° | 6771.5 | 6904.0 | 7099.4 | 7647.2 | 8128.1 | 8579.5 | 8517.8 | 8327.5 | 7683.2 | 8060.0 | 5373.8 |
| 47.5° | 5758.2 | 5753.1 | 6073.3 | 6785.7 | 7854.2 | 8911.3 | 9191.6 | 9057.8 | 7993.1 | 8009.8 | 5328.7 |
| 48° | 5384.0 | 5476.6 | 5807.1 | 6645.5 | 7680.7 | 8862.4 | 9252.0 | 9083.6 | 7940.4 | 7943.0 | 5290.2 |
| 50° | 3979.8 | 3963.1 | 4374.6 | 5403.3 | 6860.3 | 8327.5 | 8997.4 | 9128.6 | 7939.1 | 7604.8 | 5020.1 |
| 52.5° | 2102.4 | 2174.4 | 2474.1 | 3397.3 | 4850.4 | 6815.2 | 7936.5 | 8141.0 | 7658.8 | 7051.8 | 4631.8 |
| 55° | 893.7 | 807.5 | 1037.7 | 1534.1 | 2728.7 | 4553.4 | 5822.5 | 6277.7 | 6475.8 | 6240.4 | 4051.9 |
| 57.5° | 318.9 | 348.5 | 401.2 | 577.4 | 1147.0 | 2492.1 | 3471.9 | 3825.5 | 4486.5 | 4579.1 | 2760.8 |
| 60° | 204.5 | 208.3 | 225.0 | 264.9 | 430.8 | 960.6 | 1647.2 | 1928.8 | 2228.5 | 2300.5 | 1288.5 |
| 62.5° | 158.2 | 159.5 | 167.2 | 173.6 | 204.5 | 372.9 | 618.5 | 733.0 | 761.2 | 654.5 | 338.2 |
| 65° | 132.4 | 133.7 | 136.3 | 136.3 | 145.3 | 174.9 | 216.0 | 237.9 | 231.5 | 228.9 | 191.6 |
| 67.5° | 101.6 | 104.2 | 109.3 | 109.3 | 114.4 | 106.7 | 119.6 | 127.3 | 144.0 | 174.9 | 163.3 |
| 70° | 79.7 | 81.0 | 84.9 | 87.4 | 87.4 | 77.2 | 86.2 | 93.9 | 105.4 | 129.9 | 128.6 |
| 72.5° | 61.7 | 64.3 | 66.9 | 66.9 | 63.0 | 52.7 | 61.7 | 68.2 | 75.9 | 90.0 | 87.4 |
| 75° | 47.6 | 47.6 | 48.9 | 39.9 | 30.9 | 27.0 | 37.3 | 45.0 | 56.6 | 59.2 | 48.9 |
| 77.5° | 12.9 | 14.1 | 12.9 | 11.6 | 12.9 | 19.3 | 24.4 | 28.3 | 36.0 | 36.0 | 32.1 |
| 80° | 0.0 | 1.3 | 3.9 | 7.7 | 12.9 | 18.0 | 21.9 | 24.4 | 28.3 | 30.9 | 29.6 |
| 82.5° | 0.0 | 1.3 | 3.9 | 7.7 | 11.6 | 14.1 | 19.3 | 20.6 | 23.1 | 27.0 | 27.0 |
| 85° | 0.0 | 1.3 | 2.6 | 5.1 | 7.7 | 9.0 | 9.0 | 7.7 | 7.7 | 6.4 | 5.1 |
| 87.5° | 0.0 | 0.0 | 1.3 | 2.6 | 2.6 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 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° | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 | 2547.4 |
| 2.5° | 2560.2 | 2520.4 | 2459.9 | 2364.8 | 2273.5 | 2214.3 | 2157.7 | 2094.7 | 2060.0 | 2057.4 | 2038.1 |
| 5° | 2591.1 | 2501.1 | 2357.0 | 2193.7 | 2018.9 | 1868.4 | 1716.7 | 1617.7 | 1528.9 | 1480.1 | 1471.1 |
| 7.5° | 2607.8 | 2490.8 | 2258.0 | 1984.1 | 1685.8 | 1440.2 | 1270.5 | 1145.7 | 1096.9 | 1060.9 | 1059.6 |
| 10° | 2642.5 | 2472.8 | 2110.2 | 1706.4 | 1337.3 | 1089.2 | 972.1 | 915.6 | 888.6 | 878.3 | 862.8 |
| 12.5° | 2668.2 | 2439.3 | 1958.4 | 1420.9 | 1057.0 | 902.7 | 851.3 | 838.4 | 839.7 | 844.8 | 838.4 |
| 15° | 2704.2 | 2409.8 | 1754.0 | 1166.3 | 887.3 | 812.7 | 812.7 | 815.3 | 833.3 | 835.8 | 834.5 |
| 17.5° | 2701.7 | 2351.9 | 1543.1 | 960.6 | 784.4 | 774.1 | 778.0 | 802.4 | 814.0 | 817.8 | 808.8 |
| 20° | 2732.5 | 2297.9 | 1325.8 | 820.4 | 726.5 | 742.0 | 767.7 | 774.1 | 788.3 | 790.8 | 780.5 |
| 22.5° | 2723.5 | 2162.9 | 1123.9 | 709.8 | 682.8 | 712.4 | 738.1 | 745.8 | 742.0 | 734.2 | 733.0 |
| 25° | 2706.8 | 2047.1 | 938.7 | 636.5 | 650.7 | 682.8 | 707.2 | 693.1 | 685.4 | 686.7 | 688.0 |
| 27.5° | 2677.2 | 1900.6 | 785.7 | 585.1 | 606.9 | 654.5 | 653.2 | 648.1 | 655.8 | 649.4 | 655.8 |
| 30° | 2672.1 | 1754.0 | 659.7 | 538.8 | 574.8 | 609.5 | 612.1 | 621.1 | 630.1 | 618.5 | 630.1 |
| 32.5° | 2679.8 | 1593.2 | 569.7 | 510.5 | 555.5 | 556.8 | 585.1 | 594.1 | 587.7 | 561.9 | 564.5 |
| 35° | 2739.0 | 1469.8 | 504.1 | 495.1 | 524.6 | 525.9 | 552.9 | 541.4 | 513.1 | 497.6 | 506.6 |
| 37.5° | 2863.7 | 1366.9 | 473.2 | 480.9 | 483.5 | 500.2 | 501.5 | 478.4 | 480.9 | 479.6 | 484.8 |
| 40° | 3023.1 | 1288.5 | 451.3 | 468.1 | 465.5 | 477.1 | 430.8 | 443.6 | 455.2 | 459.1 | 461.6 |
| 42.5° | 3132.4 | 1231.9 | 437.2 | 447.5 | 442.3 | 421.8 | 396.1 | 408.9 | 417.9 | 432.1 | 434.6 |
| 45° | 3181.3 | 1186.9 | 420.5 | 411.5 | 411.5 | 374.2 | 363.9 | 366.5 | 387.1 | 402.5 | 399.9 |
| 47.5° | 3101.6 | 1143.2 | 390.9 | 363.9 | 372.9 | 342.0 | 330.5 | 330.5 | 352.3 | 371.6 | 367.8 |
| 48° | 3070.7 | 1125.2 | 392.2 | 353.6 | 360.1 | 336.9 | 325.3 | 322.8 | 347.2 | 365.2 | 365.2 |
| 50° | 2917.7 | 1058.3 | 358.8 | 325.3 | 312.5 | 309.9 | 302.2 | 304.8 | 320.2 | 336.9 | 336.9 |
| 52.5° | 2619.4 | 914.3 | 303.5 | 279.0 | 255.9 | 271.3 | 275.2 | 270.0 | 277.8 | 293.2 | 291.9 |
| 55° | 2186.0 | 702.1 | 243.0 | 231.5 | 213.5 | 230.2 | 237.9 | 231.5 | 223.7 | 235.3 | 235.3 |
| 57.5° | 1400.3 | 378.1 | 194.2 | 196.7 | 178.7 | 195.5 | 201.9 | 186.5 | 172.3 | 181.3 | 180.0 |
| 60° | 631.4 | 226.3 | 159.5 | 155.6 | 144.0 | 163.3 | 173.6 | 155.6 | 136.3 | 142.7 | 149.2 |
| 62.5° | 236.6 | 160.7 | 120.9 | 118.3 | 115.7 | 133.7 | 138.9 | 124.7 | 105.4 | 109.3 | 110.6 |
| 65° | 173.6 | 141.4 | 96.4 | 87.4 | 92.6 | 105.4 | 102.9 | 88.7 | 75.9 | 75.9 | 78.4 |
| 67.5° | 147.9 | 123.4 | 78.4 | 68.2 | 68.2 | 69.4 | 64.3 | 56.6 | 52.7 | 55.3 | 57.9 |
| 70° | 115.7 | 97.7 | 61.7 | 52.7 | 47.6 | 42.4 | 37.3 | 36.0 | 32.1 | 36.0 | 34.7 |
| 72.5° | 74.6 | 65.6 | 47.6 | 39.9 | 36.0 | 29.6 | 24.4 | 23.1 | 19.3 | 18.0 | 18.0 |
| 75° | 39.9 | 39.9 | 37.3 | 32.1 | 28.3 | 23.1 | 19.3 | 15.4 | 10.3 | 7.7 | 7.7 |
| 77.5° | 28.3 | 30.9 | 33.4 | 30.9 | 25.7 | 19.3 | 15.4 | 10.3 | 5.1 | 2.6 | 2.6 |
| 80° | 27.0 | 30.9 | 33.4 | 29.6 | 25.7 | 19.3 | 14.1 | 7.7 | 3.9 | 1.3 | 1.3 |
| 82.5° | 24.4 | 28.3 | 30.9 | 27.0 | 23.1 | 16.7 | 12.9 | 7.7 | 3.9 | 1.3 | 1.3 |
| 85° | 5.1 | 6.4 | 7.7 | 7.7 | 9.0 | 11.6 | 9.0 | 6.4 | 2.6 | 1.3 | 1.3 |
| 87.5° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 | 2.6 | 2.6 | 1.3 | 1.3 | 1.3 |
| 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)