

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: P268660

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-AFL-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 29944 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 391
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: 28.75 FT

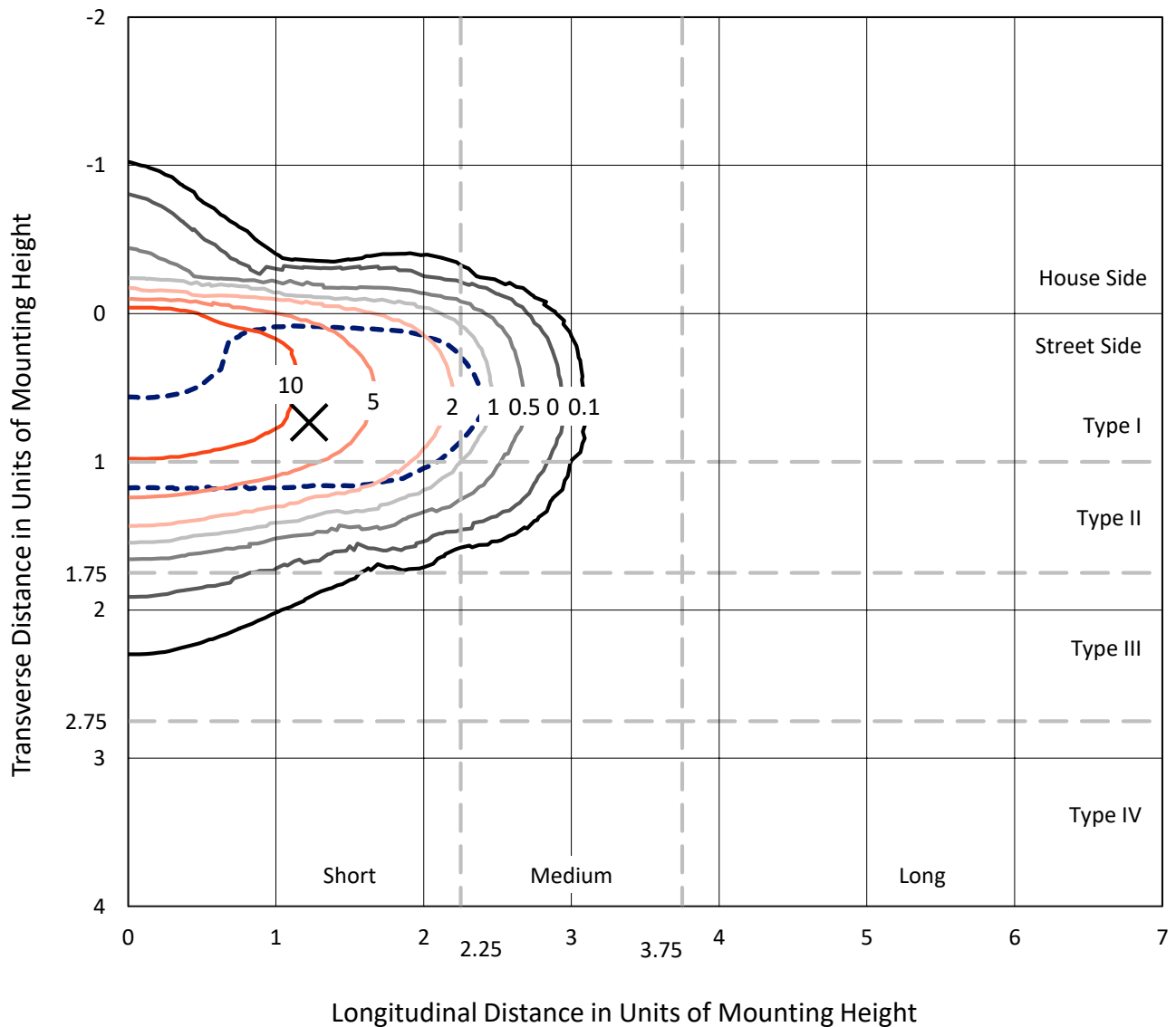


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Iso-Footcandle Lines of Horizontal Illumination

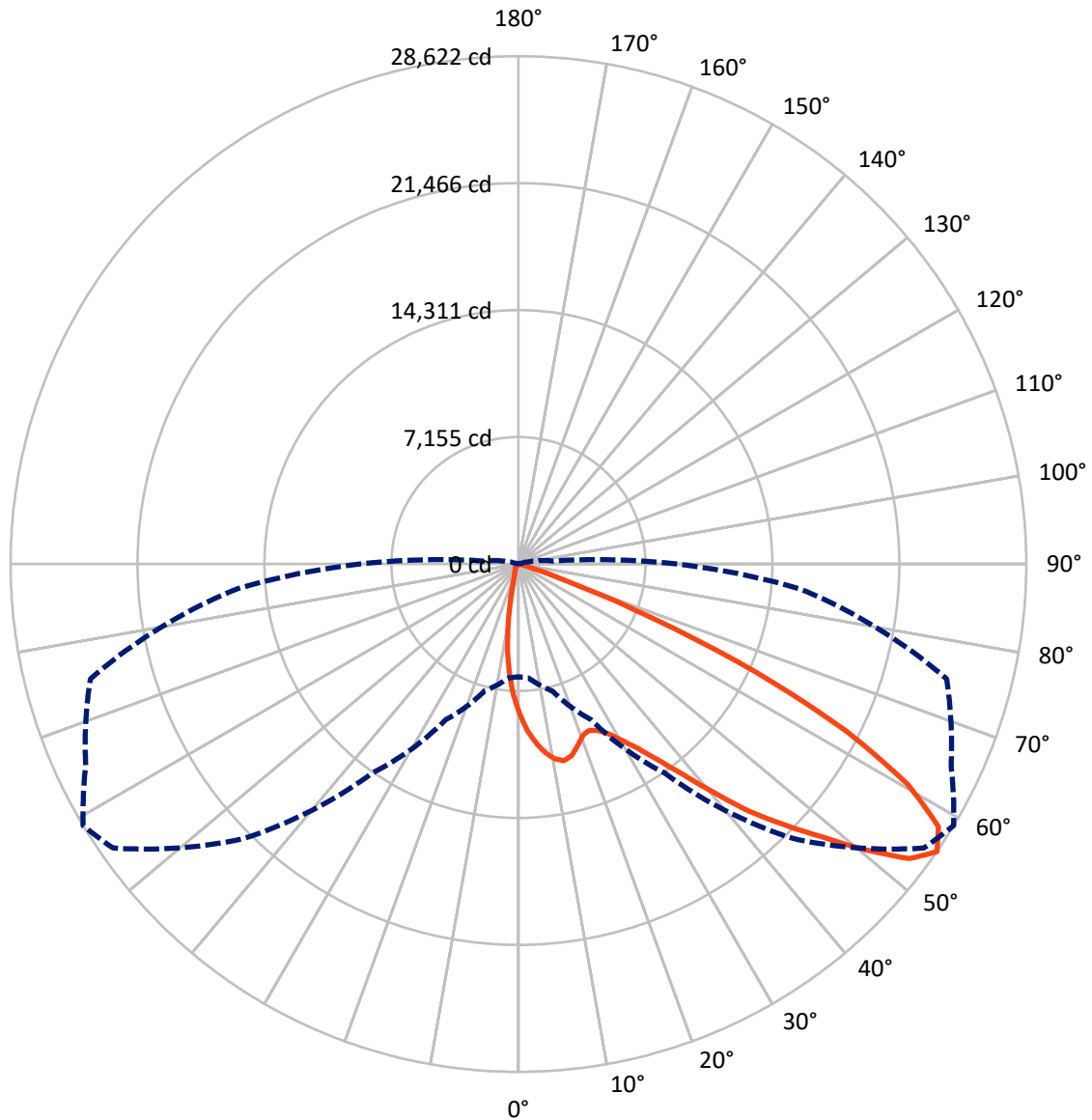
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1672.5 | 0.0 | 1672.5 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 28271.5 | 0.0 | 28271.5 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 29944.0 | 0.0 | 29944.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 706.0 | 2.4 |
| 10°-20° | 1690.4 | 5.6 |
| 20°-30° | 2876.5 | 9.6 |
| 30°-40° | 4946.9 | 16.5 |
| 40°-50° | 7637.4 | 25.5 |
| 50°-60° | 7678.1 | 25.6 |
| 60°-70° | 3937.4 | 13.1 |
| 70°-80° | 426.7 | 1.4 |
| 80°-90° | 44.6 | 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° | 29944.0 | 100.0 |
| 0°-180° | 29944.0 | 100.0 |

Coefficient of Utilization



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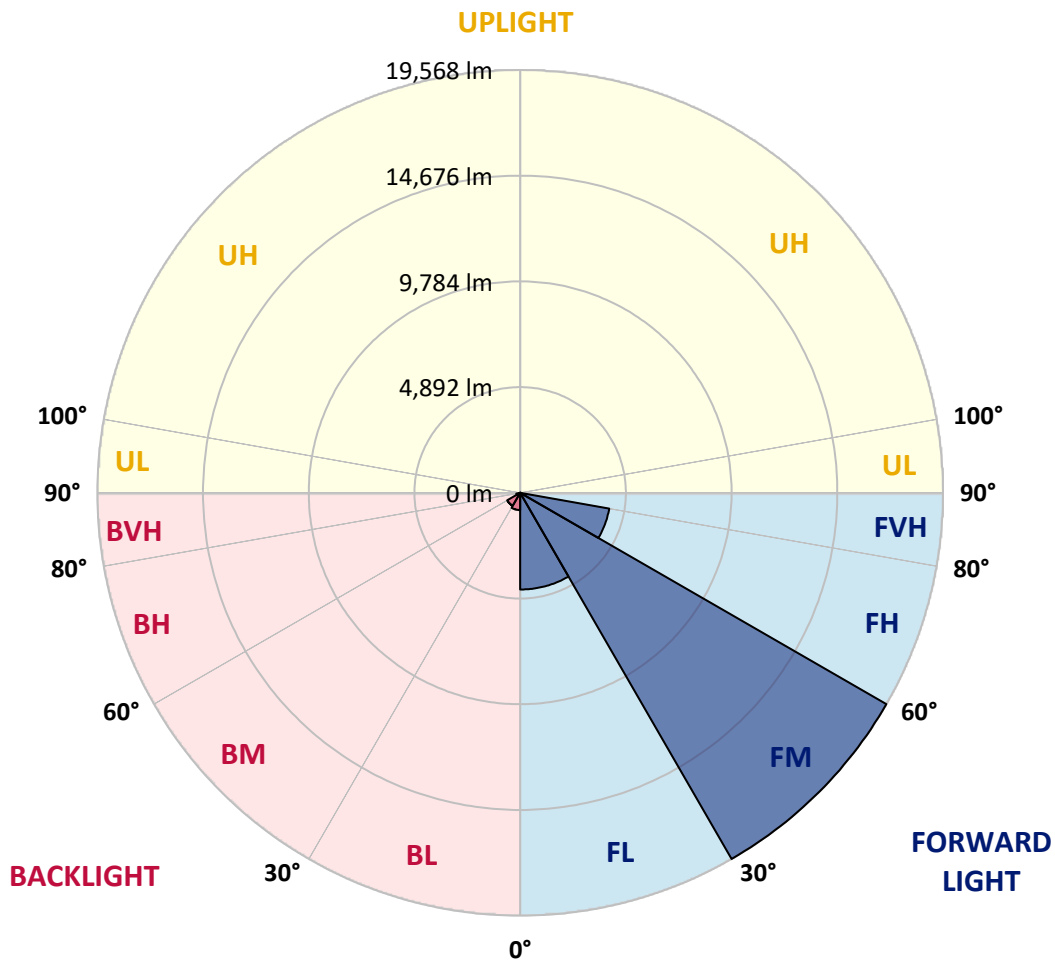
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4474.6 | 14.9 | | | |
| FM (30°-60°) | 19568.3 | 65.3 | | | |
| FH (60°-80°) | 4184.9 | 14.0 | | | G2/5000 |
| FVH (80°-90°) | 43.7 | 0.1 | | | G1/100 |
| BL (0°-30°) | 798.3 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 694.1 | 2.3 | B1/1000 | | |
| BH (60°-80°) | 179.2 | 0.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.9 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 59° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 |
| 2.5° | 9973.6 | 9867.5 | 9835.7 | 9814.5 | 9717.3 | 9595.4 | 9429.2 | 9351.5 | 9192.5 | 8936.2 | 8621.8 |
| 5° | 10887.2 | 10867.8 | 10797.1 | 10758.2 | 10653.9 | 10480.7 | 10215.6 | 10088.4 | 9835.7 | 9404.5 | 8840.8 |
| 7.5° | 10487.8 | 10609.7 | 10707.0 | 10869.5 | 11074.6 | 11067.5 | 10844.8 | 10712.3 | 10429.5 | 9860.4 | 9084.6 |
| 10° | 8945.1 | 9044.0 | 9203.1 | 9572.5 | 10325.3 | 10989.7 | 11251.2 | 11155.8 | 10929.6 | 10279.3 | 9319.7 |
| 12.5° | 8643.0 | 8632.4 | 8660.6 | 8768.4 | 9162.5 | 10109.6 | 11182.3 | 11374.9 | 11329.0 | 10662.7 | 9542.4 |
| 15° | 8803.7 | 8791.4 | 8787.8 | 8824.9 | 8920.3 | 9319.7 | 10664.5 | 11217.7 | 11572.9 | 11017.9 | 9731.5 |
| 17.5° | 9254.3 | 9201.3 | 9173.1 | 9143.0 | 9114.8 | 9213.7 | 10042.5 | 10777.7 | 11610.0 | 11329.0 | 9888.7 |
| 20° | 10026.6 | 9938.3 | 9833.9 | 9664.3 | 9505.3 | 9455.7 | 9780.9 | 10325.3 | 11477.5 | 11565.8 | 9991.3 |
| 22.5° | 10996.7 | 10883.7 | 10703.5 | 10394.2 | 10070.8 | 9883.4 | 9910.0 | 10182.1 | 11279.5 | 11823.8 | 10039.0 |
| 25° | 12087.1 | 11942.2 | 11701.9 | 11272.4 | 10797.1 | 10464.9 | 10291.7 | 10387.1 | 11189.4 | 12126.0 | 10093.7 |
| 27.5° | 13255.1 | 13094.4 | 12779.7 | 12194.9 | 11655.9 | 11207.1 | 10853.6 | 10841.3 | 11343.1 | 12521.7 | 10182.1 |
| 30° | 14412.5 | 14387.9 | 13977.8 | 13359.4 | 12645.5 | 12099.5 | 11590.6 | 11525.2 | 11772.5 | 13069.6 | 10357.1 |
| 32.5° | 15957.0 | 15771.5 | 15269.6 | 14633.5 | 13810.1 | 13154.4 | 12551.7 | 12399.8 | 12431.6 | 13707.4 | 10627.4 |
| 35° | 17904.4 | 17701.2 | 16994.3 | 16116.1 | 15195.4 | 14421.4 | 13755.1 | 13548.4 | 13470.8 | 14751.8 | 11083.4 |
| 37.5° | 19162.6 | 19159.1 | 18715.5 | 17821.4 | 16833.5 | 15979.9 | 15255.5 | 15013.5 | 14856.1 | 16013.5 | 11790.2 |
| 40° | 19196.2 | 19279.2 | 19337.5 | 19328.7 | 18625.4 | 17839.0 | 17195.7 | 16897.2 | 16531.4 | 17699.5 | 12703.8 |
| 42.5° | 18166.0 | 18379.7 | 18894.1 | 19766.9 | 20183.9 | 19871.1 | 19328.7 | 19035.4 | 18491.2 | 19503.6 | 13817.1 |
| 45° | 16773.4 | 16921.9 | 17821.4 | 19429.4 | 21028.7 | 21885.6 | 21472.1 | 20947.3 | 20229.9 | 21385.6 | 14815.4 |
| 47.5° | 16149.6 | 16176.1 | 16757.5 | 18523.0 | 21092.3 | 23536.2 | 23787.1 | 22933.5 | 21809.7 | 22901.7 | 15596.6 |
| 50° | 14285.3 | 14333.0 | 15135.4 | 16951.9 | 20346.5 | 24315.5 | 26112.7 | 25303.3 | 23532.7 | 24069.8 | 15881.0 |
| 52.5° | 10767.1 | 10834.2 | 11852.1 | 14370.1 | 18296.7 | 23983.3 | 27777.3 | 27581.1 | 25420.0 | 24640.7 | 15896.9 |
| 55° | 6352.8 | 6441.1 | 7413.1 | 9673.2 | 14391.3 | 21869.7 | 27900.9 | 28621.9 | 26909.5 | 24978.1 | 15872.2 |
| 57.5° | 2967.0 | 3028.8 | 3585.4 | 4983.3 | 8950.4 | 17284.2 | 26038.5 | 27908.1 | 27731.3 | 25156.7 | 16047.1 |
| 60° | 1576.3 | 1594.0 | 1728.2 | 2157.6 | 4044.9 | 10959.6 | 22403.5 | 25200.8 | 26982.1 | 25404.1 | 16260.9 |
| 62.5° | 1205.2 | 1210.5 | 1203.4 | 1254.7 | 1700.0 | 4865.0 | 16934.3 | 20717.6 | 23965.6 | 25218.5 | 16024.1 |
| 65° | 1044.4 | 1053.3 | 1003.8 | 991.4 | 1090.4 | 1735.3 | 10060.2 | 14767.7 | 18832.2 | 22714.5 | 14410.8 |
| 67.5° | 936.6 | 940.0 | 880.0 | 828.7 | 846.5 | 938.3 | 3968.9 | 8084.6 | 12465.2 | 16649.7 | 10445.4 |
| 70° | 862.4 | 858.8 | 793.5 | 712.1 | 689.2 | 641.5 | 1261.7 | 2963.5 | 5956.9 | 8443.3 | 4857.9 |
| 72.5° | 763.4 | 765.1 | 733.3 | 627.3 | 572.5 | 448.9 | 584.9 | 864.1 | 1777.7 | 2300.7 | 1138.1 |
| 75° | 676.9 | 668.0 | 629.2 | 561.9 | 471.8 | 295.2 | 289.9 | 385.3 | 547.7 | 544.3 | 245.6 |
| 77.5° | 489.4 | 480.7 | 493.0 | 461.2 | 362.2 | 190.8 | 144.8 | 185.5 | 222.7 | 215.7 | 68.9 |
| 80° | 358.8 | 353.5 | 318.1 | 383.4 | 319.8 | 130.8 | 90.1 | 99.0 | 114.9 | 97.1 | 21.2 |
| 82.5° | 245.6 | 243.9 | 224.4 | 212.1 | 181.9 | 79.5 | 56.6 | 61.9 | 74.2 | 54.7 | 10.6 |
| 85° | 38.8 | 44.1 | 162.6 | 128.9 | 107.7 | 35.4 | 38.8 | 42.4 | 49.4 | 30.1 | 3.6 |
| 87.5° | 0.0 | 0.0 | 75.9 | 67.2 | 21.2 | 14.2 | 22.9 | 24.8 | 24.8 | 15.9 | 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° | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 | 8429.2 |
| 2.5° | 8461.0 | 8284.2 | 7957.4 | 7619.9 | 7307.1 | 6934.1 | 6677.9 | 6485.4 | 6262.7 | 6202.5 | 6333.3 |
| 5° | 8519.3 | 8185.3 | 7482.0 | 6716.7 | 5997.5 | 5200.6 | 4591.0 | 4108.6 | 3672.0 | 3523.6 | 3657.9 |
| 7.5° | 8611.2 | 8114.6 | 6967.8 | 5707.8 | 4456.6 | 3212.6 | 2360.8 | 1800.7 | 1443.8 | 1337.7 | 1394.3 |
| 10° | 8703.0 | 8012.2 | 6372.1 | 4513.3 | 2802.6 | 1563.9 | 1017.9 | 812.8 | 736.9 | 721.0 | 729.9 |
| 12.5° | 8779.0 | 7874.3 | 5645.9 | 3209.0 | 1498.6 | 837.6 | 666.3 | 632.6 | 622.0 | 622.0 | 625.6 |
| 15° | 8824.9 | 7665.7 | 4785.4 | 2040.9 | 862.4 | 632.6 | 581.4 | 570.8 | 570.8 | 572.5 | 576.1 |
| 17.5° | 8819.6 | 7400.6 | 3843.5 | 1235.2 | 645.1 | 560.2 | 530.1 | 521.2 | 519.5 | 523.1 | 524.8 |
| 20° | 8754.3 | 7054.3 | 2898.0 | 814.7 | 561.9 | 510.6 | 480.7 | 464.8 | 462.9 | 466.5 | 470.1 |
| 22.5° | 8630.6 | 6626.6 | 2072.7 | 627.3 | 507.2 | 462.9 | 425.8 | 411.8 | 411.8 | 415.2 | 418.8 |
| 25° | 8480.4 | 6103.7 | 1417.3 | 531.8 | 457.6 | 411.8 | 376.4 | 364.1 | 367.5 | 376.4 | 378.1 |
| 27.5° | 8293.1 | 5515.1 | 963.1 | 455.9 | 397.6 | 360.5 | 334.0 | 325.1 | 334.0 | 346.3 | 349.9 |
| 30° | 8132.3 | 4902.1 | 687.5 | 394.0 | 337.6 | 311.1 | 295.2 | 295.2 | 307.5 | 330.4 | 335.7 |
| 32.5° | 8008.6 | 4308.2 | 530.1 | 348.2 | 293.3 | 270.4 | 261.5 | 270.4 | 289.9 | 312.8 | 318.1 |
| 35° | 7992.7 | 3818.8 | 448.9 | 311.1 | 261.5 | 238.6 | 235.0 | 250.9 | 270.4 | 288.0 | 291.6 |
| 37.5° | 8114.6 | 3366.4 | 404.6 | 281.0 | 233.3 | 212.1 | 208.5 | 228.0 | 247.5 | 268.7 | 274.0 |
| 40° | 8346.2 | 3011.2 | 372.8 | 252.8 | 210.4 | 187.2 | 180.2 | 194.5 | 221.0 | 249.2 | 256.2 |
| 42.5° | 8646.5 | 2717.8 | 337.6 | 224.4 | 187.2 | 155.4 | 146.7 | 162.6 | 190.8 | 221.0 | 229.7 |
| 45° | 8932.7 | 2465.0 | 298.6 | 192.5 | 157.3 | 120.2 | 116.6 | 137.8 | 152.0 | 181.9 | 189.1 |
| 47.5° | 9089.9 | 2242.4 | 265.1 | 157.3 | 121.9 | 97.1 | 97.1 | 102.4 | 116.6 | 152.0 | 159.0 |
| 50° | 9036.9 | 2063.9 | 229.7 | 116.6 | 84.8 | 74.2 | 74.2 | 72.5 | 93.7 | 121.9 | 127.2 |
| 52.5° | 8930.9 | 1961.4 | 197.9 | 90.1 | 58.3 | 53.0 | 47.7 | 53.0 | 65.3 | 77.8 | 79.5 |
| 55° | 8915.0 | 1943.8 | 166.0 | 72.5 | 40.7 | 35.4 | 26.5 | 26.5 | 26.5 | 24.8 | 21.2 |
| 57.5° | 9038.7 | 1972.0 | 139.5 | 58.3 | 30.1 | 22.9 | 14.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 9166.0 | 2002.1 | 120.2 | 40.7 | 21.2 | 12.3 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 8953.9 | 1934.9 | 100.7 | 24.8 | 15.9 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 7865.4 | 1647.0 | 79.5 | 17.6 | 10.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5594.6 | 1102.7 | 53.0 | 10.6 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2553.5 | 461.2 | 33.5 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 546.0 | 143.1 | 22.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 111.3 | 104.3 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 35.4 | 164.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 21.2 | 118.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.6 | 17.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)