

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: P268577

Luminaire Tested: **GAN-AF-06-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268577
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-06-LED-U-AFL-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA 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: 20458 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 249
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

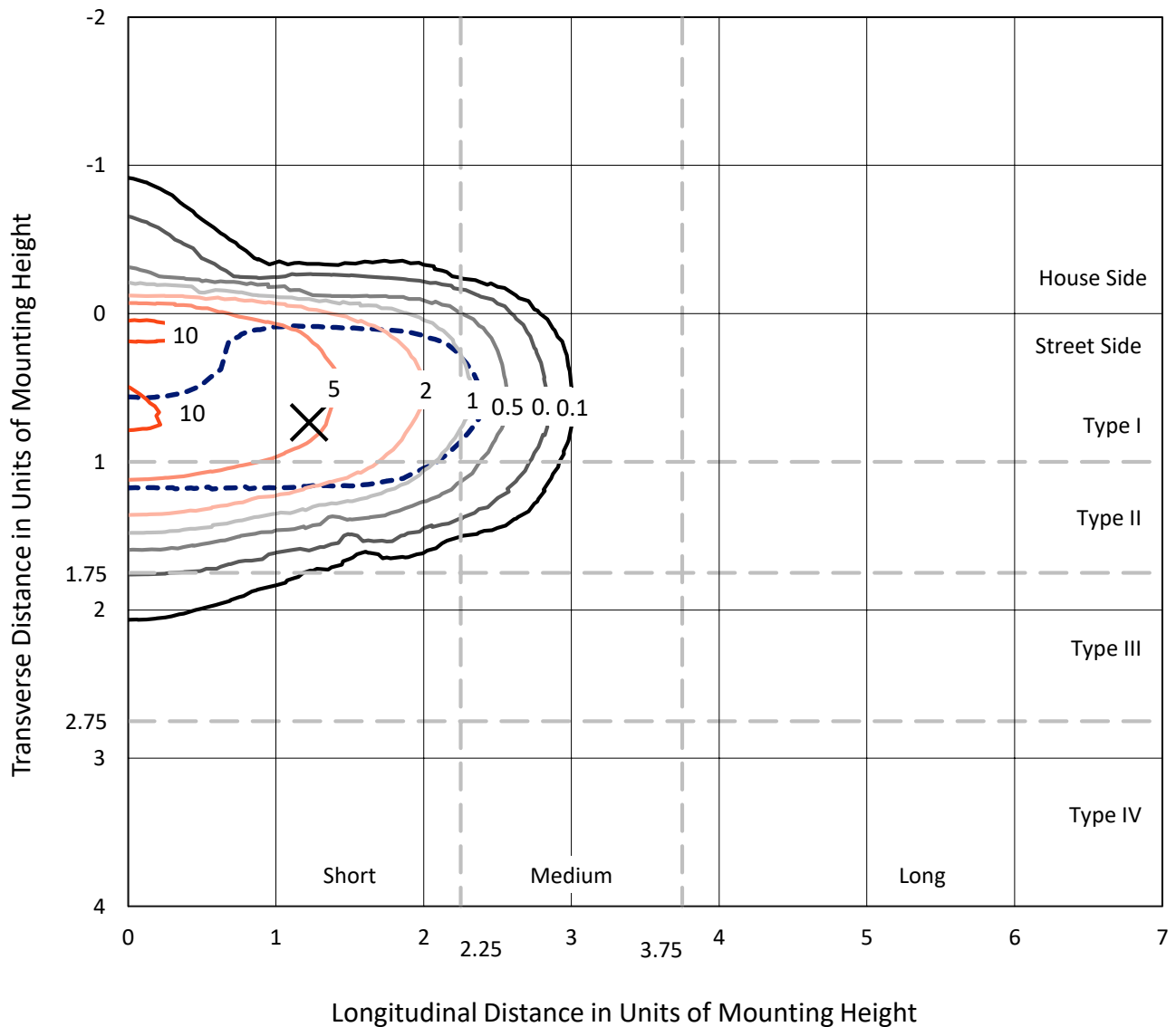


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

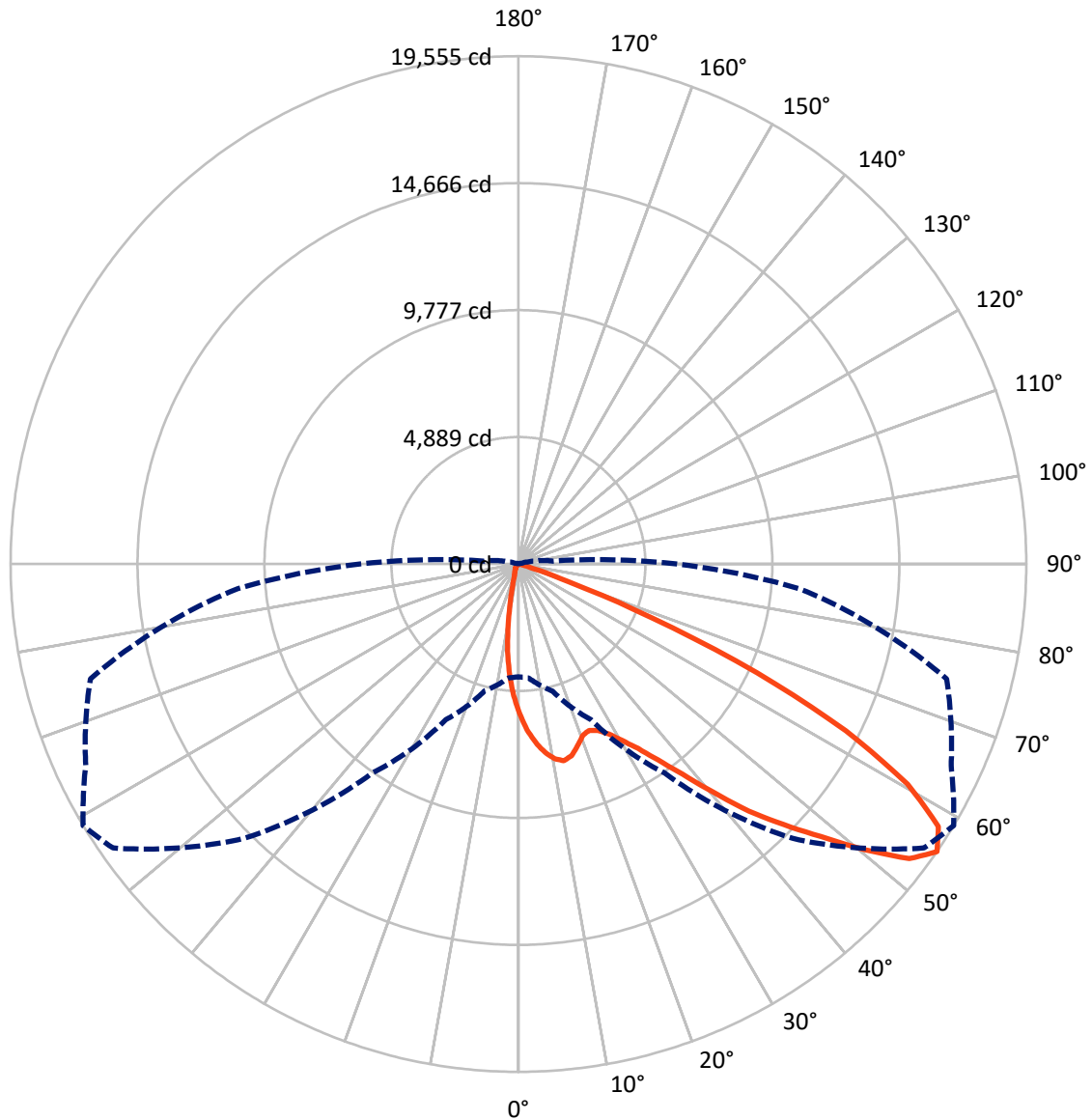


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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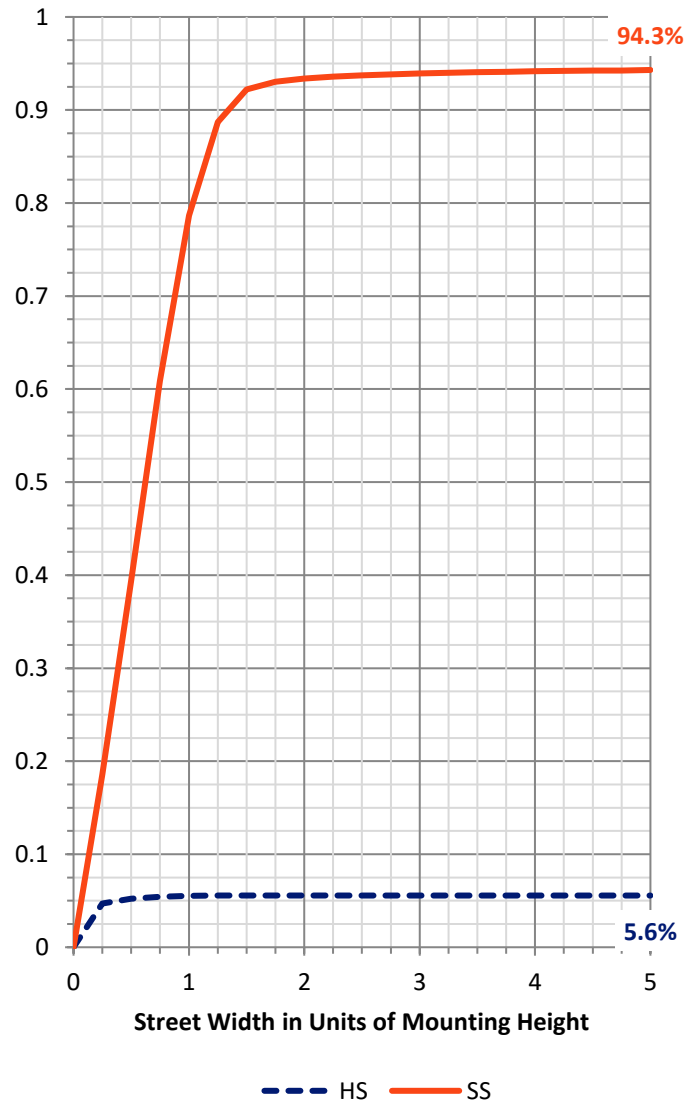
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1142.7 | 0.0 | 1142.7 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 19315.3 | 0.0 | 19315.3 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 20458.0 | 0.0 | 20458.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 482.4 | 2.4 |
| 10°-20° | 1154.9 | 5.6 |
| 20°-30° | 1965.2 | 9.6 |
| 30°-40° | 3379.8 | 16.5 |
| 40°-50° | 5218.0 | 25.5 |
| 50°-60° | 5245.7 | 25.6 |
| 60°-70° | 2690.0 | 13.1 |
| 70°-80° | 291.5 | 1.4 |
| 80°-90° | 30.5 | 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° | 20458.0 | 100.0 |
| 0°-180° | 20458.0 | 100.0 |

Coefficient of Utilization



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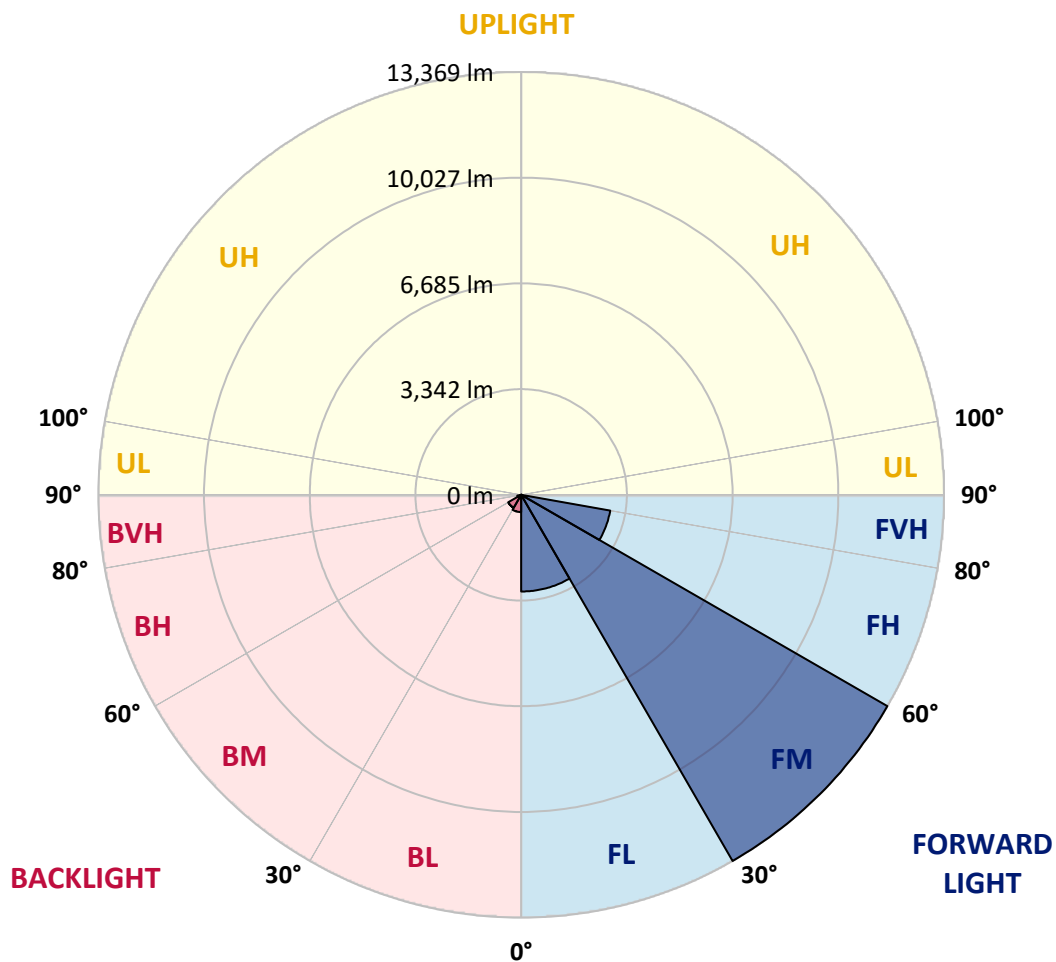
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3057.1 | 14.9 | | | |
| FM (30°-60°) | 13369.2 | 65.3 | | | |
| FH (60°-80°) | 2859.2 | 14.0 | | | G2/5000 |
| FVH (80°-90°) | 29.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 545.4 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 474.2 | 2.3 | B1/1000 | | |
| BH (60°-80°) | 122.4 | 0.6 | B1/500 | | G1/500 |
| BVH (80°-90°) | 0.6 | 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° | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 |
| 2.5° | 6814.1 | 6741.6 | 6720.0 | 6705.4 | 6639.0 | 6555.7 | 6442.1 | 6389.0 | 6280.4 | 6105.3 | 5890.5 |
| 5° | 7438.2 | 7424.9 | 7376.6 | 7350.1 | 7278.8 | 7160.5 | 6979.4 | 6892.5 | 6720.0 | 6425.2 | 6040.2 |
| 7.5° | 7165.4 | 7248.7 | 7315.1 | 7426.2 | 7566.2 | 7561.4 | 7409.2 | 7318.8 | 7125.5 | 6736.7 | 6206.7 |
| 10° | 6111.3 | 6179.0 | 6287.6 | 6540.0 | 7054.3 | 7508.3 | 7686.9 | 7621.7 | 7467.3 | 7022.9 | 6367.4 |
| 12.5° | 5905.0 | 5897.7 | 5917.0 | 5990.6 | 6259.8 | 6907.0 | 7639.8 | 7771.4 | 7740.1 | 7284.9 | 6519.4 |
| 15° | 6014.8 | 6006.3 | 6003.9 | 6029.3 | 6094.6 | 6367.4 | 7286.2 | 7664.0 | 7906.6 | 7527.5 | 6648.6 |
| 17.5° | 6322.7 | 6286.5 | 6267.1 | 6246.6 | 6227.3 | 6295.0 | 6861.2 | 7363.3 | 7932.0 | 7740.1 | 6756.2 |
| 20° | 6850.2 | 6789.8 | 6718.7 | 6602.7 | 6494.0 | 6460.3 | 6682.4 | 7054.3 | 7841.5 | 7901.9 | 6826.1 |
| 22.5° | 7513.1 | 7435.8 | 7312.7 | 7101.5 | 6880.5 | 6752.5 | 6770.5 | 6956.6 | 7706.2 | 8078.1 | 6858.6 |
| 25° | 8257.9 | 8158.9 | 7994.7 | 7701.3 | 7376.6 | 7149.7 | 7031.4 | 7096.5 | 7644.7 | 8284.6 | 6896.2 |
| 27.5° | 9056.1 | 8946.1 | 8731.3 | 8331.6 | 7963.4 | 7656.8 | 7415.2 | 7406.9 | 7749.7 | 8555.0 | 6956.6 |
| 30° | 9846.9 | 9830.0 | 9549.8 | 9127.3 | 8639.4 | 8266.5 | 7918.6 | 7874.1 | 8043.1 | 8929.2 | 7075.9 |
| 32.5° | 10902.0 | 10775.2 | 10432.3 | 9997.6 | 9435.1 | 8987.3 | 8575.5 | 8471.6 | 8493.5 | 9365.1 | 7260.7 |
| 35° | 12232.4 | 12093.6 | 11610.7 | 11010.6 | 10381.6 | 9852.8 | 9397.7 | 9256.5 | 9203.2 | 10078.7 | 7572.3 |
| 37.5° | 13092.1 | 13089.7 | 12786.6 | 12175.6 | 11500.8 | 10917.7 | 10422.7 | 10257.2 | 10149.8 | 10940.5 | 8055.1 |
| 40° | 13115.0 | 13171.7 | 13211.6 | 13205.5 | 12725.0 | 12187.8 | 11748.4 | 11544.3 | 11294.4 | 12092.4 | 8679.3 |
| 42.5° | 12411.2 | 12557.1 | 12908.6 | 13504.8 | 13789.8 | 13576.2 | 13205.5 | 13005.1 | 12633.3 | 13325.1 | 9439.8 |
| 45° | 11459.8 | 11561.1 | 12175.6 | 13274.3 | 14367.0 | 14952.5 | 14670.0 | 14311.3 | 13821.2 | 14610.8 | 10122.0 |
| 47.5° | 11033.6 | 11051.7 | 11448.9 | 12655.1 | 14410.4 | 16080.1 | 16251.5 | 15668.4 | 14900.5 | 15646.7 | 10655.6 |
| 50° | 9759.8 | 9792.5 | 10340.6 | 11581.7 | 13900.9 | 16612.5 | 17840.3 | 17287.4 | 16077.8 | 16444.7 | 10850.1 |
| 52.5° | 7356.1 | 7402.0 | 8097.4 | 9817.8 | 12500.5 | 16385.5 | 18977.7 | 18843.7 | 17367.1 | 16834.6 | 10861.0 |
| 55° | 4340.3 | 4400.6 | 5064.6 | 6608.8 | 9832.3 | 14941.6 | 19062.2 | 19554.8 | 18384.9 | 17065.3 | 10844.0 |
| 57.5° | 2027.0 | 2069.3 | 2449.6 | 3404.5 | 6115.0 | 11808.7 | 17789.7 | 19067.0 | 18946.2 | 17187.2 | 10963.5 |
| 60° | 1076.9 | 1088.9 | 1180.7 | 1474.1 | 2763.5 | 7487.7 | 15306.2 | 17217.5 | 18434.4 | 17356.2 | 11109.7 |
| 62.5° | 823.3 | 827.0 | 822.2 | 857.3 | 1161.4 | 3323.6 | 11569.6 | 14154.5 | 16373.4 | 17229.5 | 10947.9 |
| 65° | 713.6 | 719.5 | 685.8 | 677.3 | 745.0 | 1185.6 | 6873.2 | 10089.5 | 12866.2 | 15518.7 | 9845.7 |
| 67.5° | 639.9 | 642.3 | 601.2 | 566.2 | 578.2 | 641.1 | 2711.7 | 5523.4 | 8516.3 | 11375.2 | 7136.3 |
| 70° | 589.2 | 586.8 | 542.0 | 486.5 | 470.8 | 438.3 | 862.1 | 2024.7 | 4069.9 | 5768.6 | 3318.9 |
| 72.5° | 521.6 | 522.8 | 501.1 | 428.6 | 391.1 | 306.6 | 399.7 | 590.4 | 1214.6 | 1571.9 | 777.6 |
| 75° | 462.4 | 456.3 | 429.7 | 383.9 | 322.3 | 201.6 | 197.9 | 263.3 | 374.2 | 371.9 | 167.9 |
| 77.5° | 334.3 | 328.4 | 336.9 | 315.1 | 247.6 | 130.3 | 99.1 | 126.8 | 152.2 | 147.3 | 47.2 |
| 80° | 245.1 | 241.5 | 217.3 | 261.9 | 218.5 | 89.3 | 61.5 | 67.6 | 78.5 | 66.5 | 14.6 |
| 82.5° | 167.9 | 166.6 | 153.3 | 144.8 | 124.3 | 54.3 | 38.6 | 42.3 | 50.8 | 37.4 | 7.2 |
| 85° | 26.6 | 30.3 | 111.1 | 88.2 | 73.7 | 24.2 | 26.6 | 28.9 | 33.7 | 20.5 | 2.4 |
| 87.5° | 0.0 | 0.0 | 51.9 | 45.9 | 14.6 | 9.6 | 15.7 | 16.9 | 16.9 | 10.9 | 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° | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 | 5758.9 |
| 2.5° | 5780.7 | 5659.9 | 5436.5 | 5205.9 | 4992.2 | 4737.5 | 4562.4 | 4430.8 | 4278.6 | 4237.7 | 4327.0 |
| 5° | 5820.4 | 5592.3 | 5111.7 | 4589.0 | 4097.6 | 3553.1 | 3136.6 | 2807.1 | 2508.7 | 2407.4 | 2499.2 |
| 7.5° | 5883.2 | 5544.0 | 4760.4 | 3899.6 | 3044.9 | 2194.9 | 1612.9 | 1230.3 | 986.3 | 913.9 | 952.6 |
| 10° | 5946.1 | 5473.9 | 4353.5 | 3083.4 | 1914.7 | 1068.4 | 695.4 | 555.3 | 503.4 | 492.6 | 498.6 |
| 12.5° | 5998.0 | 5379.8 | 3857.3 | 2192.5 | 1023.8 | 572.3 | 455.1 | 432.3 | 425.0 | 425.0 | 427.5 |
| 15° | 6029.3 | 5237.3 | 3269.4 | 1394.3 | 589.2 | 432.3 | 397.2 | 390.0 | 390.0 | 391.1 | 393.5 |
| 17.5° | 6025.7 | 5056.2 | 2625.8 | 843.9 | 440.7 | 382.7 | 362.1 | 356.2 | 354.9 | 357.3 | 358.6 |
| 20° | 5980.9 | 4819.5 | 1980.0 | 556.6 | 383.9 | 348.9 | 328.4 | 317.6 | 316.4 | 318.7 | 321.1 |
| 22.5° | 5896.5 | 4527.4 | 1416.2 | 428.6 | 346.4 | 316.4 | 291.1 | 281.3 | 281.3 | 283.8 | 286.1 |
| 25° | 5793.9 | 4170.0 | 968.3 | 363.5 | 312.7 | 281.3 | 257.2 | 248.7 | 251.2 | 257.2 | 258.4 |
| 27.5° | 5665.9 | 3768.0 | 658.0 | 311.5 | 271.6 | 246.2 | 228.2 | 222.2 | 228.2 | 236.7 | 239.0 |
| 30° | 5556.0 | 3349.2 | 469.6 | 269.2 | 230.5 | 212.4 | 201.6 | 201.6 | 210.1 | 225.7 | 229.3 |
| 32.5° | 5471.5 | 2943.3 | 362.1 | 237.8 | 200.4 | 184.7 | 178.8 | 184.7 | 197.9 | 213.6 | 217.3 |
| 35° | 5460.6 | 2608.9 | 306.6 | 212.4 | 178.8 | 163.0 | 160.5 | 171.4 | 184.7 | 196.8 | 199.2 |
| 37.5° | 5544.0 | 2299.9 | 276.5 | 192.0 | 159.4 | 144.8 | 142.6 | 155.8 | 169.1 | 183.6 | 187.1 |
| 40° | 5702.1 | 2057.3 | 254.7 | 172.7 | 143.6 | 128.0 | 123.2 | 132.8 | 150.9 | 170.1 | 175.1 |
| 42.5° | 5907.3 | 1856.8 | 230.5 | 153.3 | 128.0 | 106.2 | 100.3 | 111.1 | 130.3 | 150.9 | 156.9 |
| 45° | 6102.9 | 1684.2 | 204.1 | 131.6 | 107.4 | 82.0 | 79.7 | 94.1 | 103.8 | 124.3 | 129.1 |
| 47.5° | 6210.4 | 1532.1 | 181.1 | 107.4 | 83.4 | 66.5 | 66.5 | 70.0 | 79.7 | 103.8 | 108.7 |
| 50° | 6174.2 | 1410.1 | 156.9 | 79.7 | 57.9 | 50.8 | 50.8 | 49.4 | 64.0 | 83.4 | 87.0 |
| 52.5° | 6101.7 | 1340.1 | 135.3 | 61.5 | 39.9 | 36.2 | 32.6 | 36.2 | 44.6 | 53.1 | 54.3 |
| 55° | 6090.9 | 1328.1 | 113.5 | 49.4 | 27.8 | 24.2 | 18.1 | 18.1 | 18.1 | 16.9 | 14.6 |
| 57.5° | 6175.4 | 1347.4 | 95.4 | 39.9 | 20.5 | 15.7 | 9.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 6262.4 | 1367.8 | 82.0 | 27.8 | 14.6 | 8.4 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 6117.4 | 1321.9 | 68.8 | 16.9 | 10.9 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 5373.8 | 1125.1 | 54.3 | 12.0 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 3822.4 | 753.4 | 36.2 | 7.2 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 1744.6 | 315.1 | 22.9 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 373.1 | 97.7 | 15.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 76.0 | 71.2 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 24.2 | 112.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 14.6 | 80.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 2.4 | 12.0 | 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)