

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: P194266

Luminaire Tested: **GAN-AF-08-LED-U-AFL-7060-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194266
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-08-LED-U-AFL-7060-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 31552 lumens
Efficiency: N/A
Efficacy: 94.5 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): 334
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

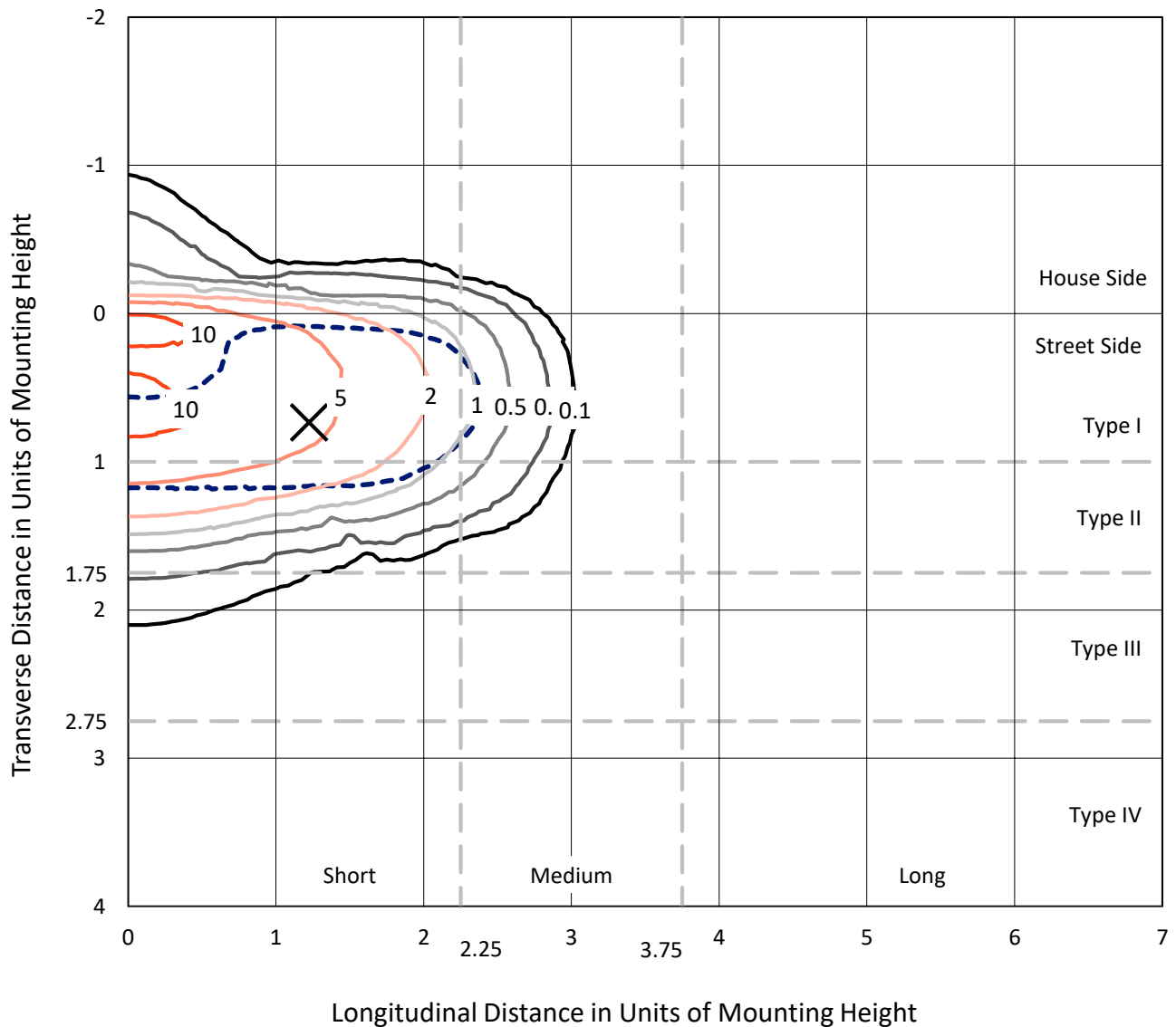


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

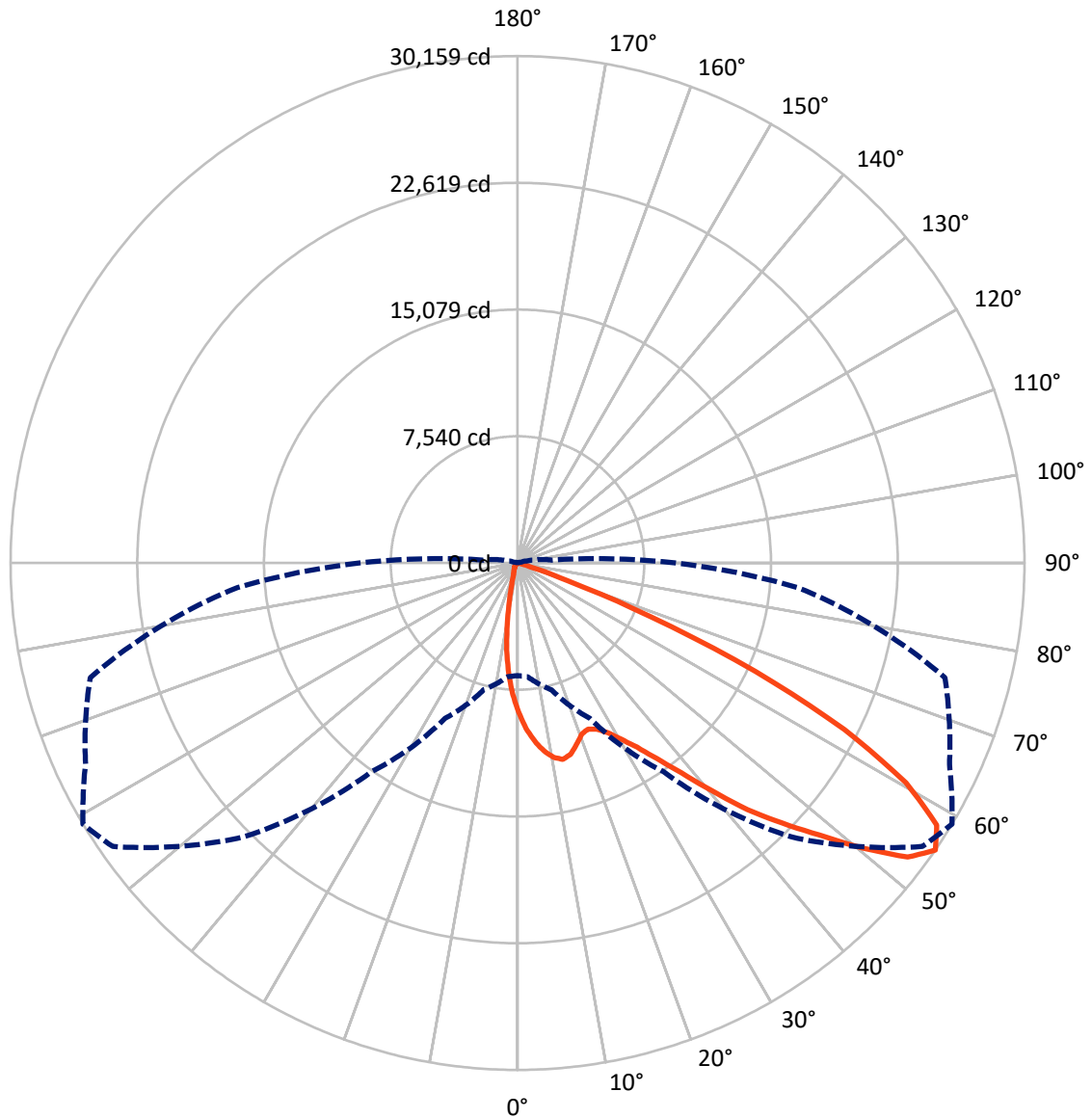


Based on 30 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Full Cutoff

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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 | 1762.4 | 0.0 | 1762.4 |
| | % Fixture | 5.6 | 0.0 | 5.6 |
| Street Side | Lumens | 29789.6 | 0.0 | 29789.6 |
| | % Fixture | 94.4 | 0.0 | 94.4 |
| Total | Lumens | 31552.0 | 0.0 | 31552.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 743.9 | 2.4 |
| 10°-20° | 1781.2 | 5.6 |
| 20°-30° | 3030.9 | 9.6 |
| 30°-40° | 5212.5 | 16.5 |
| 40°-50° | 8047.6 | 25.5 |
| 50°-60° | 8090.4 | 25.6 |
| 60°-70° | 4148.8 | 13.1 |
| 70°-80° | 449.6 | 1.4 |
| 80°-90° | 47.0 | 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° | 31552.0 | 100.0 |
| 0°-180° | 31552.0 | 100.0 |

Coefficient of Utilization



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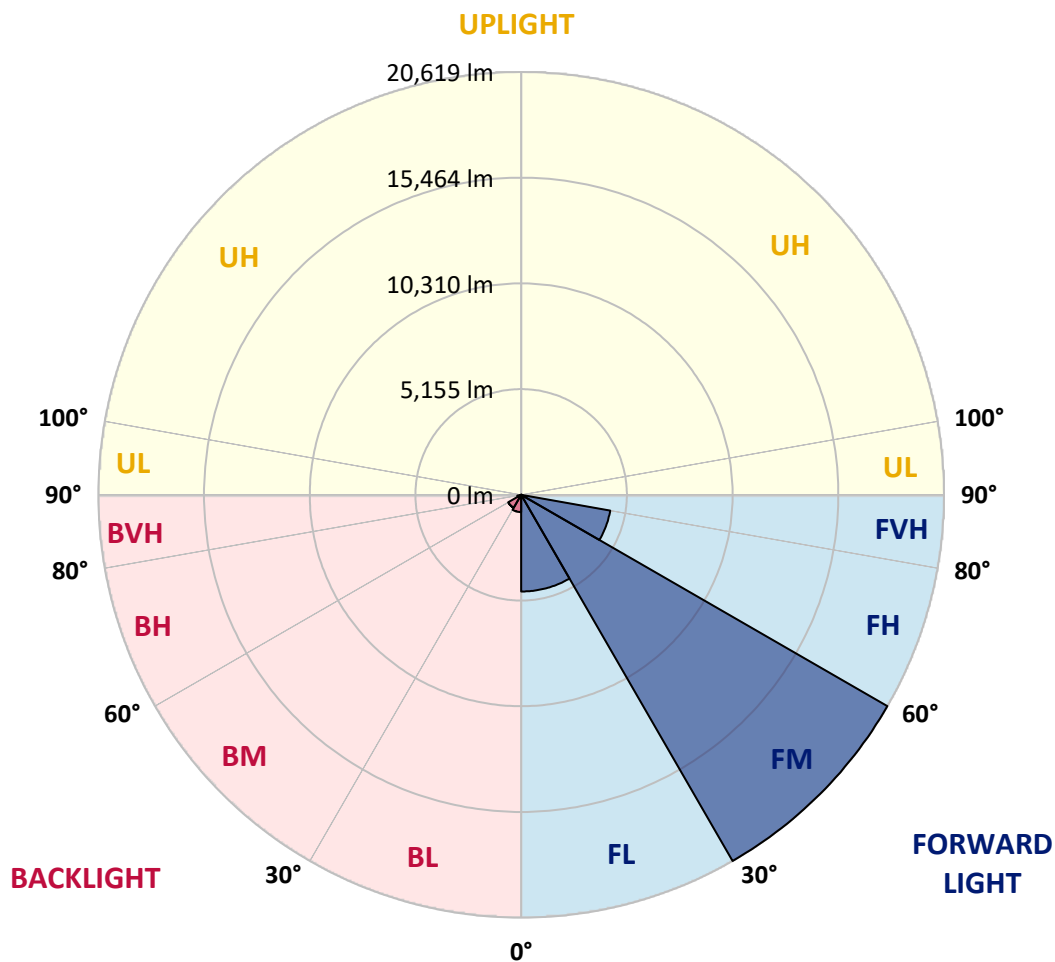
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4714.9 | 14.9 | | | |
| FM | (30°-60°) | 20619.1 | 65.3 | | | |
| FH | (60°-80°) | 4409.6 | 14.0 | | | G2/5000 |
| FVH | (80°-90°) | 46.0 | 0.1 | | | G1/100 |
| BL | (0°-30°) | 841.2 | 2.7 | B2/1000 | | |
| BM | (30°-60°) | 731.4 | 2.3 | B1/1000 | | |
| BH | (60°-80°) | 188.8 | 0.6 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 1.0 | 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° | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 |
| 2.5° | 10509.2 | 10397.4 | 10363.9 | 10341.6 | 10239.2 | 10110.7 | 9935.7 | 9853.7 | 9686.2 | 9416.2 | 9084.7 |
| 5° | 11471.8 | 11451.3 | 11376.9 | 11335.9 | 11226.0 | 11043.6 | 10764.3 | 10630.2 | 10363.9 | 9909.6 | 9315.6 |
| 7.5° | 11051.0 | 11179.5 | 11281.9 | 11453.2 | 11669.2 | 11661.8 | 11427.1 | 11287.5 | 10989.6 | 10390.0 | 9572.6 |
| 10° | 9425.5 | 9529.8 | 9697.3 | 10086.5 | 10879.7 | 11579.8 | 11855.4 | 11754.9 | 11516.5 | 10831.3 | 9820.2 |
| 12.5° | 9107.1 | 9095.9 | 9125.7 | 9239.3 | 9654.5 | 10652.5 | 11782.8 | 11985.7 | 11937.3 | 11235.4 | 10054.8 |
| 15° | 9276.5 | 9263.5 | 9259.8 | 9298.9 | 9399.4 | 9820.2 | 11237.2 | 11820.0 | 12194.3 | 11609.6 | 10254.1 |
| 17.5° | 9751.3 | 9695.5 | 9665.7 | 9634.0 | 9604.2 | 9708.5 | 10581.8 | 11356.4 | 12233.4 | 11937.3 | 10419.8 |
| 20° | 10565.0 | 10471.9 | 10362.1 | 10183.3 | 10015.7 | 9963.6 | 10306.2 | 10879.7 | 12093.7 | 12186.8 | 10527.8 |
| 22.5° | 11587.3 | 11468.1 | 11278.2 | 10952.3 | 10611.6 | 10414.2 | 10442.1 | 10728.9 | 11885.2 | 12458.7 | 10578.1 |
| 25° | 12736.1 | 12583.4 | 12330.2 | 11877.7 | 11376.9 | 11026.8 | 10844.3 | 10944.9 | 11790.2 | 12777.1 | 10635.8 |
| 27.5° | 13966.9 | 13797.5 | 13466.0 | 12849.7 | 12281.8 | 11808.8 | 11436.4 | 11423.4 | 11952.2 | 13194.2 | 10728.9 |
| 30° | 15186.5 | 15160.5 | 14728.5 | 14076.8 | 13324.5 | 12749.2 | 12212.9 | 12144.0 | 12404.7 | 13771.4 | 10913.2 |
| 32.5° | 16813.9 | 16618.4 | 16089.6 | 15419.3 | 14551.6 | 13860.8 | 13225.8 | 13065.7 | 13099.2 | 14443.6 | 11198.1 |
| 35° | 18865.9 | 18651.7 | 17906.9 | 16981.5 | 16011.4 | 15195.8 | 14493.9 | 14276.0 | 14194.1 | 15544.0 | 11678.5 |
| 37.5° | 20191.6 | 20187.9 | 19720.5 | 18778.3 | 17737.5 | 16838.1 | 16074.7 | 15819.6 | 15653.9 | 16873.5 | 12423.3 |
| 40° | 20227.0 | 20314.5 | 20375.9 | 20366.6 | 19625.6 | 18797.0 | 18119.2 | 17804.5 | 17419.1 | 18649.9 | 13386.0 |
| 42.5° | 19141.4 | 19366.7 | 19908.6 | 20828.4 | 21267.8 | 20938.3 | 20366.6 | 20057.5 | 19484.0 | 20551.0 | 14559.0 |
| 45° | 17674.2 | 17830.6 | 18778.3 | 20472.8 | 22157.9 | 23061.0 | 22625.2 | 22072.2 | 21316.3 | 22534.0 | 15611.1 |
| 47.5° | 17016.9 | 17044.8 | 17657.4 | 19517.6 | 22224.9 | 24800.1 | 25064.5 | 24165.1 | 22980.9 | 24131.6 | 16434.1 |
| 50° | 15052.5 | 15102.7 | 15948.1 | 17862.2 | 21439.2 | 25621.2 | 27514.9 | 26662.1 | 24796.3 | 25362.4 | 16733.9 |
| 52.5° | 11345.2 | 11416.0 | 12488.5 | 15141.8 | 19279.2 | 25271.2 | 29268.9 | 29062.2 | 26785.0 | 25963.8 | 16750.6 |
| 55° | 6693.9 | 6787.0 | 7811.1 | 10192.6 | 15164.2 | 23044.2 | 29399.2 | 30158.9 | 28354.6 | 26319.5 | 16724.5 |
| 57.5° | 3126.3 | 3191.5 | 3778.0 | 5250.9 | 9431.1 | 18212.3 | 27436.7 | 29406.7 | 29220.5 | 26507.5 | 16908.9 |
| 60° | 1660.9 | 1679.5 | 1821.0 | 2273.5 | 4262.1 | 11548.2 | 23606.5 | 26554.1 | 28431.0 | 26768.2 | 17134.2 |
| 62.5° | 1269.9 | 1275.5 | 1268.0 | 1322.0 | 1791.3 | 5126.1 | 17843.6 | 21830.2 | 25252.5 | 26572.7 | 16884.7 |
| 65° | 1100.4 | 1109.8 | 1057.6 | 1044.6 | 1148.9 | 1828.5 | 10600.4 | 15560.8 | 19843.4 | 23934.2 | 15184.7 |
| 67.5° | 986.9 | 990.6 | 927.3 | 873.3 | 891.9 | 988.7 | 4182.1 | 8518.7 | 13134.6 | 17543.8 | 11006.3 |
| 70° | 908.7 | 904.9 | 836.0 | 750.4 | 726.2 | 675.9 | 1329.5 | 3122.6 | 6276.8 | 8896.7 | 5118.7 |
| 72.5° | 804.4 | 806.2 | 772.7 | 661.0 | 603.3 | 472.9 | 616.3 | 910.5 | 1873.2 | 2424.3 | 1199.1 |
| 75° | 713.1 | 703.8 | 662.9 | 592.1 | 497.2 | 311.0 | 305.4 | 405.9 | 577.2 | 573.5 | 258.8 |
| 77.5° | 515.8 | 506.5 | 519.5 | 486.0 | 381.7 | 201.1 | 152.7 | 195.5 | 234.6 | 227.2 | 72.6 |
| 80° | 378.0 | 372.4 | 335.2 | 404.1 | 337.0 | 137.8 | 95.0 | 104.3 | 121.0 | 102.4 | 22.3 |
| 82.5° | 258.8 | 257.0 | 236.5 | 223.4 | 191.8 | 83.8 | 59.6 | 65.2 | 78.2 | 57.7 | 11.2 |
| 85° | 41.0 | 46.6 | 171.3 | 135.9 | 113.6 | 37.2 | 41.0 | 44.7 | 52.1 | 31.7 | 3.7 |
| 87.5° | 0.0 | 0.0 | 80.1 | 70.8 | 22.3 | 14.9 | 24.2 | 26.1 | 26.1 | 16.8 | 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° | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 | 8881.8 |
| 2.5° | 8915.3 | 8729.1 | 8384.6 | 8029.0 | 7699.4 | 7306.5 | 7036.5 | 6833.6 | 6599.0 | 6535.6 | 6673.4 |
| 5° | 8976.7 | 8624.8 | 7883.7 | 7077.5 | 6319.7 | 5479.9 | 4837.5 | 4329.2 | 3869.3 | 3712.8 | 3854.4 |
| 7.5° | 9073.6 | 8550.3 | 7341.9 | 6014.3 | 4696.0 | 3385.1 | 2487.6 | 1897.4 | 1521.3 | 1409.5 | 1469.1 |
| 10° | 9170.4 | 8442.3 | 6714.4 | 4755.6 | 2953.1 | 1647.9 | 1072.5 | 856.5 | 776.5 | 759.7 | 769.0 |
| 12.5° | 9250.5 | 8297.1 | 5949.1 | 3381.4 | 1579.0 | 882.6 | 702.0 | 666.6 | 655.4 | 655.4 | 659.2 |
| 15° | 9298.9 | 8077.4 | 5042.3 | 2150.6 | 908.7 | 666.6 | 612.6 | 601.4 | 601.4 | 603.3 | 607.0 |
| 17.5° | 9293.3 | 7798.1 | 4049.9 | 1301.5 | 679.6 | 590.3 | 558.6 | 549.3 | 547.4 | 551.2 | 553.0 |
| 20° | 9224.4 | 7433.1 | 3053.7 | 858.4 | 592.1 | 538.1 | 506.5 | 489.7 | 487.8 | 491.6 | 495.3 |
| 22.5° | 9094.0 | 6982.5 | 2184.1 | 661.0 | 534.4 | 487.8 | 448.7 | 433.8 | 433.8 | 437.6 | 441.3 |
| 25° | 8935.8 | 6431.4 | 1493.3 | 560.5 | 482.3 | 433.8 | 396.6 | 383.6 | 387.3 | 396.6 | 398.5 |
| 27.5° | 8738.4 | 5811.3 | 1014.8 | 480.4 | 419.0 | 379.8 | 351.9 | 342.6 | 351.9 | 365.0 | 368.7 |
| 30° | 8569.0 | 5165.2 | 724.3 | 415.2 | 355.6 | 327.7 | 311.0 | 311.0 | 324.0 | 348.2 | 353.8 |
| 32.5° | 8438.6 | 4539.6 | 558.6 | 366.8 | 309.1 | 284.9 | 275.6 | 284.9 | 305.4 | 329.6 | 335.2 |
| 35° | 8421.9 | 4023.8 | 472.9 | 327.7 | 275.6 | 251.4 | 247.6 | 264.4 | 284.9 | 303.5 | 307.2 |
| 37.5° | 8550.3 | 3547.1 | 426.4 | 296.1 | 245.8 | 223.4 | 219.7 | 240.2 | 260.7 | 283.0 | 288.6 |
| 40° | 8794.3 | 3172.9 | 392.9 | 266.3 | 221.6 | 197.4 | 189.9 | 204.8 | 232.8 | 262.5 | 270.0 |
| 42.5° | 9110.8 | 2863.8 | 355.6 | 236.5 | 197.4 | 163.9 | 154.5 | 171.3 | 201.1 | 232.8 | 242.1 |
| 45° | 9412.4 | 2597.5 | 314.7 | 203.0 | 165.7 | 126.6 | 122.9 | 145.2 | 160.1 | 191.8 | 199.2 |
| 47.5° | 9578.2 | 2362.9 | 279.3 | 165.7 | 128.5 | 102.4 | 102.4 | 108.0 | 122.9 | 160.1 | 167.6 |
| 50° | 9522.3 | 2174.8 | 242.1 | 122.9 | 89.4 | 78.2 | 78.2 | 76.3 | 98.7 | 128.5 | 134.1 |
| 52.5° | 9410.6 | 2066.8 | 208.5 | 95.0 | 61.4 | 55.9 | 50.3 | 55.9 | 68.9 | 81.9 | 83.8 |
| 55° | 9393.8 | 2048.2 | 175.0 | 76.3 | 42.8 | 37.2 | 27.9 | 27.9 | 27.9 | 26.1 | 22.3 |
| 57.5° | 9524.2 | 2078.0 | 147.1 | 61.4 | 31.7 | 24.2 | 14.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 60° | 9658.2 | 2109.7 | 126.6 | 42.8 | 22.3 | 13.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 62.5° | 9434.8 | 2038.9 | 106.1 | 26.1 | 16.8 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 65° | 8287.8 | 1735.4 | 83.8 | 18.6 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 5895.1 | 1161.9 | 55.9 | 11.2 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2690.6 | 486.0 | 35.4 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 575.4 | 150.8 | 24.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 117.3 | 109.9 | 9.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 37.2 | 173.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 22.3 | 124.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.7 | 18.6 | 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)