

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: P194156

Luminaire Tested: **GAN-AF-08-LED-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7060
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50114 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

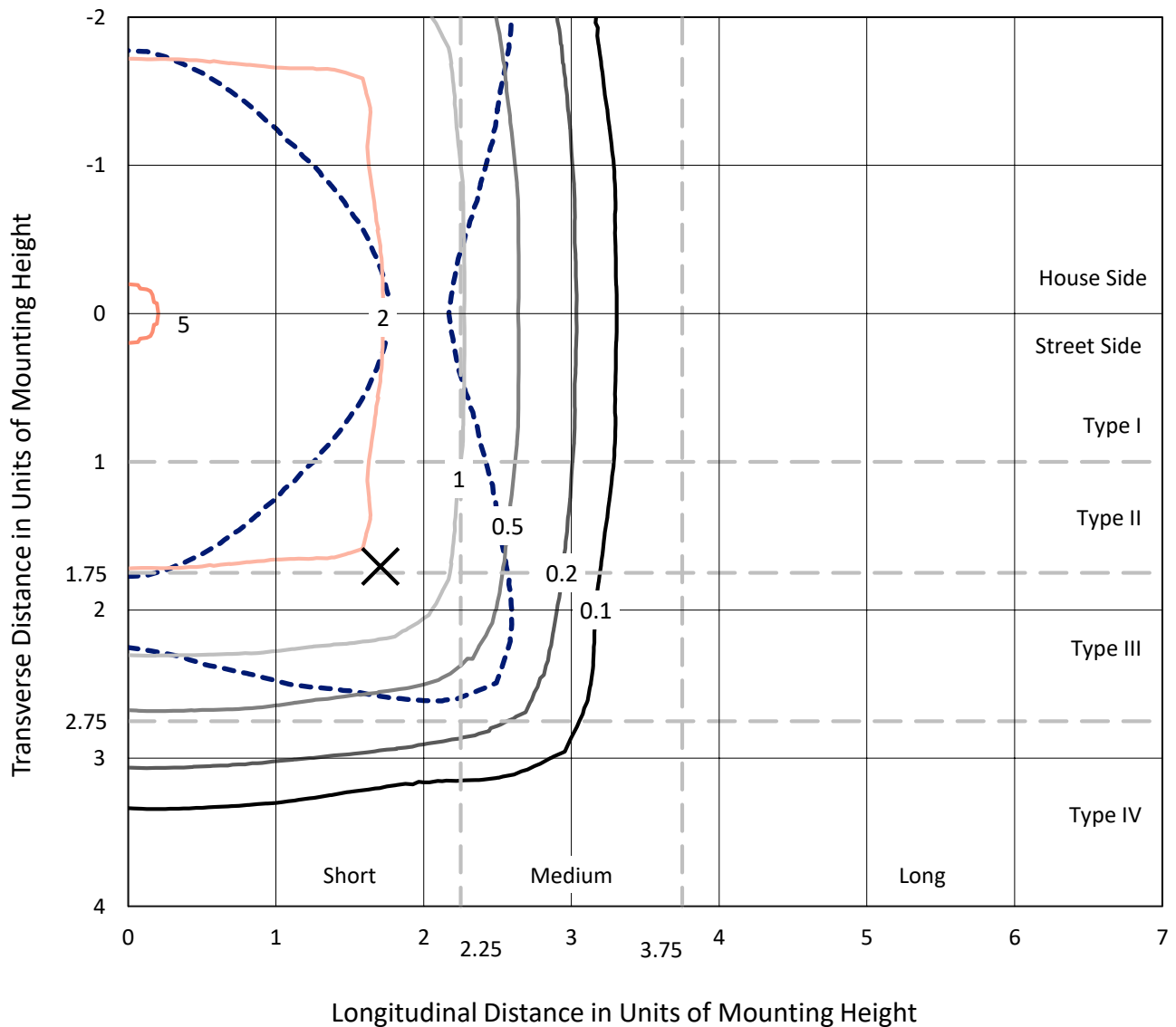
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

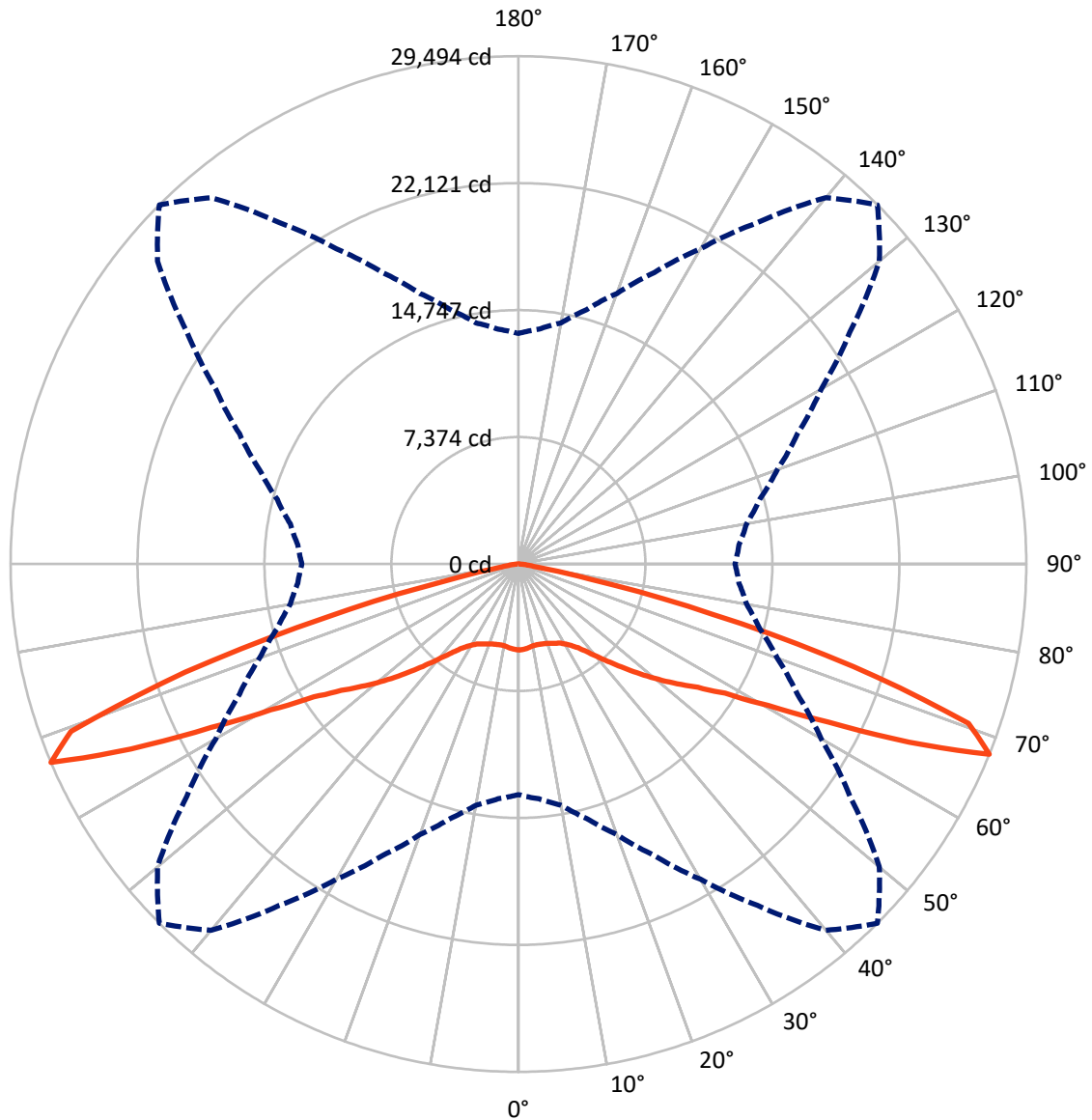
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 25057.0 | 0.0 | 25057.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 25057.0 | 0.0 | 25057.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 50114.0 | 0.0 | 50114.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 467.4 | 0.9 |
| 10°-20° | 1356.4 | 2.7 |
| 20°-30° | 2305.8 | 4.6 |
| 30°-40° | 3769.3 | 7.5 |
| 40°-50° | 6728.8 | 13.4 |
| 50°-60° | 11345.0 | 22.6 |
| 60°-70° | 17605.8 | 35.1 |
| 70°-80° | 6185.9 | 12.3 |
| 80°-90° | 349.6 | 0.7 |
| 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° | 50114.0 | 100.0 |
| 0°-180° | 50114.0 | 100.0 |



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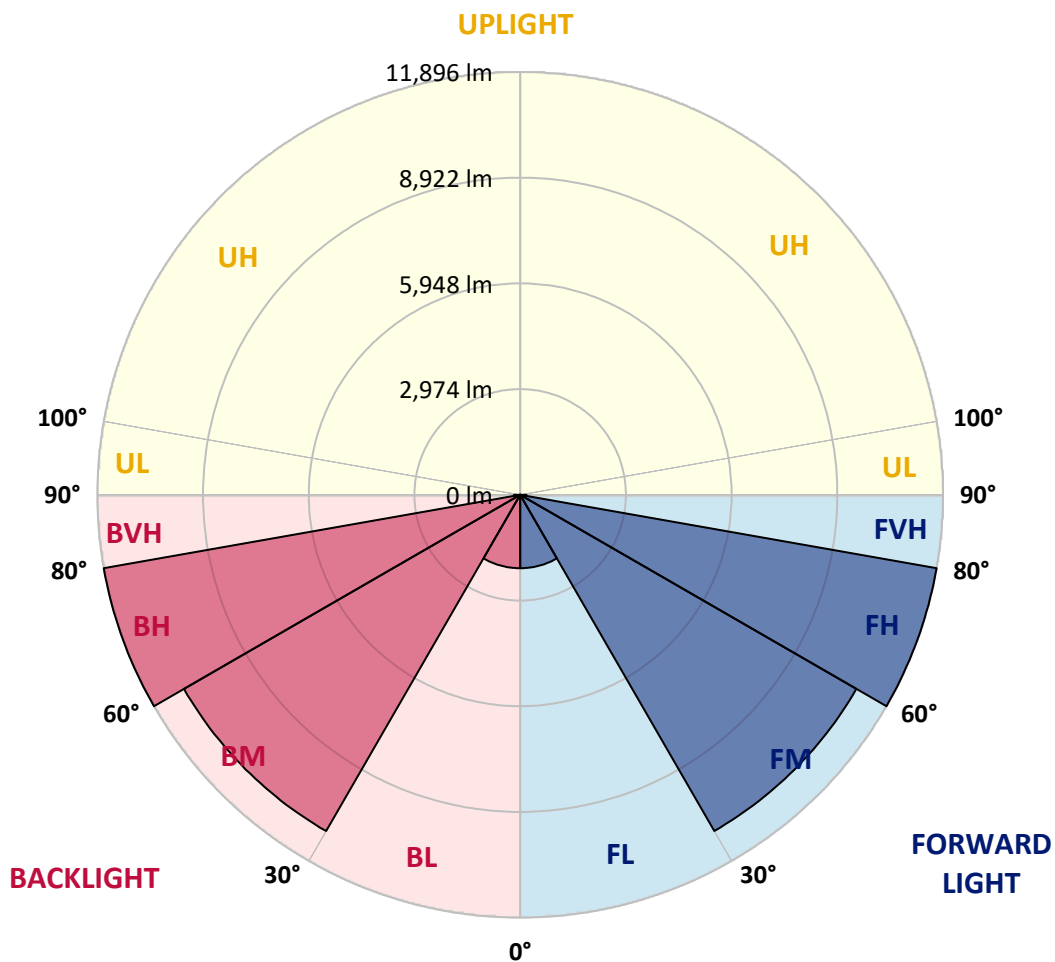
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2064.8 | 4.1 | | | |
| FM (30°-60°) | 10921.6 | 21.8 | | | |
| FH (60°-80°) | 11895.8 | 23.7 | | | G4/12000 |
| FVH (80°-90°) | 174.8 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2064.8 | 4.1 | B3/2500 | | |
| BM (30°-60°) | 10921.6 | 21.8 | B5 | | |
| BH (60°-80°) | 11895.8 | 23.7 | B5 | | G4/12000 |
| BVH (80°-90°) | 174.8 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 |
| 2.5° | 4975.6 | 4980.2 | 4980.2 | 4980.2 | 4977.9 | 4977.9 | 4973.3 | 4977.9 | 4975.6 | 4968.7 | 4971.0 |
| 5° | 4934.2 | 4938.8 | 4938.8 | 4936.5 | 4943.4 | 4941.1 | 4934.2 | 4938.8 | 4936.5 | 4931.8 | 4934.2 |
| 7.5° | 4874.2 | 4881.1 | 4881.1 | 4878.8 | 4885.8 | 4883.5 | 4878.8 | 4881.1 | 4881.1 | 4874.2 | 4874.2 |
| 10° | 4807.4 | 4812.0 | 4812.0 | 4809.7 | 4821.2 | 4821.2 | 4818.9 | 4825.8 | 4828.1 | 4821.2 | 4816.6 |
| 12.5° | 4745.2 | 4752.1 | 4752.1 | 4761.3 | 4772.8 | 4777.4 | 4789.0 | 4798.2 | 4807.4 | 4805.1 | 4795.9 |
| 15° | 4708.3 | 4712.9 | 4722.1 | 4733.7 | 4752.1 | 4768.2 | 4786.7 | 4807.4 | 4825.8 | 4830.4 | 4816.6 |
| 17.5° | 4685.3 | 4692.2 | 4706.0 | 4722.1 | 4747.5 | 4775.1 | 4802.8 | 4830.4 | 4855.8 | 4865.0 | 4848.9 |
| 20° | 4678.3 | 4683.0 | 4696.8 | 4724.4 | 4759.0 | 4800.5 | 4839.7 | 4871.9 | 4906.5 | 4918.0 | 4906.5 |
| 22.5° | 4692.2 | 4701.4 | 4717.5 | 4749.8 | 4795.9 | 4848.9 | 4895.0 | 4938.8 | 4982.5 | 5003.3 | 4987.2 |
| 25° | 4754.4 | 4763.6 | 4784.4 | 4825.8 | 4876.5 | 4931.8 | 4984.9 | 5035.6 | 5074.7 | 5095.5 | 5084.0 |
| 27.5° | 4869.6 | 4881.1 | 4906.5 | 4948.0 | 5003.3 | 5063.2 | 5120.8 | 5162.3 | 5194.6 | 5201.5 | 5187.7 |
| 30° | 5042.5 | 5067.8 | 5097.8 | 5143.9 | 5208.4 | 5259.1 | 5316.7 | 5353.6 | 5392.8 | 5392.8 | 5381.2 |
| 32.5° | 5312.1 | 5337.5 | 5369.7 | 5413.5 | 5464.2 | 5519.5 | 5570.2 | 5602.5 | 5644.0 | 5646.3 | 5618.6 |
| 35° | 5715.4 | 5726.9 | 5754.6 | 5782.2 | 5828.3 | 5876.7 | 5920.5 | 5941.3 | 5975.8 | 5978.1 | 5952.8 |
| 37.5° | 6247.8 | 6250.1 | 6268.5 | 6277.7 | 6319.2 | 6372.2 | 6413.7 | 6427.5 | 6459.8 | 6455.2 | 6429.8 |
| 40° | 6867.7 | 6879.2 | 6886.1 | 6900.0 | 6943.8 | 6994.5 | 7038.3 | 7045.2 | 7079.7 | 7072.8 | 7040.6 |
| 42.5° | 7584.4 | 7589.1 | 7628.2 | 7649.0 | 7690.5 | 7715.8 | 7771.1 | 7778.0 | 7819.5 | 7801.1 | 7764.2 |
| 45° | 8388.7 | 8430.2 | 8467.1 | 8508.6 | 8552.4 | 8582.3 | 8626.1 | 8616.9 | 8644.6 | 8616.9 | 8596.2 |
| 47.5° | 9234.5 | 9264.5 | 9347.5 | 9412.0 | 9483.4 | 9508.8 | 9571.0 | 9543.4 | 9571.0 | 9531.8 | 9524.9 |
| 50° | 10165.6 | 10218.6 | 10290.0 | 10363.8 | 10439.8 | 10481.3 | 10562.0 | 10527.4 | 10564.3 | 10527.4 | 10506.7 |
| 52.5° | 11082.8 | 11096.7 | 11253.4 | 11361.7 | 11467.7 | 11516.1 | 11564.5 | 11548.4 | 11550.7 | 11548.4 | 11527.6 |
| 55° | 11954.0 | 11986.2 | 12142.9 | 12290.4 | 12474.8 | 12610.8 | 12693.7 | 12684.5 | 12663.8 | 12643.0 | 12608.5 |
| 57.5° | 12935.7 | 12968.0 | 13147.8 | 13329.8 | 13539.5 | 13733.1 | 13901.4 | 14074.2 | 14141.0 | 14159.5 | 14083.4 |
| 60° | 14263.2 | 14260.9 | 14500.6 | 14721.8 | 15021.4 | 15309.5 | 15678.2 | 16053.9 | 16484.8 | 16685.3 | 16420.3 |
| 62.5° | 15613.7 | 15669.0 | 16014.7 | 16406.5 | 17024.1 | 17625.6 | 18305.4 | 18973.8 | 19655.9 | 20211.4 | 19621.4 |
| 65° | 15452.4 | 15664.4 | 16178.3 | 17065.6 | 18206.4 | 19561.5 | 21027.2 | 22578.2 | 23979.4 | 24942.7 | 23861.8 |
| 67.5° | 13392.0 | 13693.9 | 14217.1 | 15295.6 | 16722.2 | 18676.5 | 21137.8 | 24205.2 | 27770.4 | 29494.3 | 27357.9 |
| 70° | 9707.0 | 10048.1 | 10596.6 | 11649.8 | 13062.5 | 14920.0 | 17593.3 | 21276.1 | 25995.9 | 27733.6 | 25380.6 |
| 72.5° | 4830.4 | 5014.8 | 5353.6 | 6024.2 | 7093.6 | 8600.8 | 11025.2 | 14565.1 | 18741.0 | 20335.8 | 18185.6 |
| 75° | 1640.9 | 1726.1 | 1783.8 | 2002.7 | 2341.5 | 2933.8 | 4139.1 | 6367.6 | 9713.9 | 11645.2 | 9575.6 |
| 77.5° | 947.2 | 949.5 | 988.7 | 1027.9 | 1085.5 | 1150.0 | 1311.3 | 1721.5 | 2977.5 | 4228.9 | 3081.3 |
| 80° | 613.0 | 610.7 | 643.0 | 672.9 | 712.1 | 744.4 | 753.6 | 797.4 | 919.5 | 1090.1 | 974.8 |
| 82.5° | 318.0 | 357.2 | 428.7 | 467.8 | 541.6 | 555.4 | 537.0 | 520.8 | 550.8 | 571.5 | 585.4 |
| 85° | 175.1 | 152.1 | 228.2 | 295.0 | 327.3 | 331.9 | 331.9 | 313.4 | 324.9 | 318.0 | 345.7 |
| 87.5° | 80.7 | 73.7 | 89.9 | 145.2 | 154.4 | 131.4 | 138.3 | 122.1 | 87.6 | 85.3 | 96.8 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 | 4994.1 |
| 2.5° | 4971.0 | 4973.3 | 4973.3 | 4980.2 | 4982.5 | 4987.2 | 4991.8 | 4994.1 |
| 5° | 4931.8 | 4938.8 | 4934.2 | 4941.1 | 4941.1 | 4945.7 | 4945.7 | 4948.0 |
| 7.5° | 4874.2 | 4881.1 | 4881.1 | 4881.1 | 4878.8 | 4885.8 | 4885.8 | 4885.8 |
| 10° | 4814.3 | 4818.9 | 4816.6 | 4812.0 | 4807.4 | 4814.3 | 4812.0 | 4809.7 |
| 12.5° | 4795.9 | 4784.4 | 4775.1 | 4770.5 | 4761.3 | 4763.6 | 4756.7 | 4756.7 |
| 15° | 4807.4 | 4786.7 | 4770.5 | 4763.6 | 4754.4 | 4749.8 | 4745.2 | 4747.5 |
| 17.5° | 4837.4 | 4812.0 | 4791.3 | 4779.7 | 4768.2 | 4761.3 | 4752.1 | 4754.4 |
| 20° | 4890.4 | 4860.4 | 4830.4 | 4807.4 | 4786.7 | 4775.1 | 4768.2 | 4765.9 |
| 22.5° | 4968.7 | 4924.9 | 4881.1 | 4846.6 | 4818.9 | 4802.8 | 4795.9 | 4791.3 |
| 25° | 5058.6 | 5010.2 | 4959.5 | 4920.3 | 4892.7 | 4871.9 | 4858.1 | 4858.1 |
| 27.5° | 5171.5 | 5132.3 | 5086.3 | 5040.2 | 5014.8 | 4994.1 | 4984.9 | 4980.2 |
| 30° | 5360.5 | 5323.6 | 5286.8 | 5243.0 | 5210.7 | 5190.0 | 5173.8 | 5160.0 |
| 32.5° | 5602.5 | 5572.5 | 5542.6 | 5510.3 | 5480.3 | 5452.7 | 5427.3 | 5415.8 |
| 35° | 5943.6 | 5920.5 | 5899.8 | 5862.9 | 5851.4 | 5835.3 | 5821.4 | 5809.9 |
| 37.5° | 6413.7 | 6404.5 | 6404.5 | 6365.3 | 6356.1 | 6349.2 | 6335.3 | 6337.7 |
| 40° | 7031.3 | 7040.6 | 7029.0 | 7015.2 | 7008.3 | 6989.9 | 6989.9 | 7006.0 |
| 42.5° | 7761.9 | 7768.8 | 7794.2 | 7771.1 | 7796.5 | 7773.4 | 7759.6 | 7771.1 |
| 45° | 8610.0 | 8635.3 | 8686.0 | 8663.0 | 8679.1 | 8640.0 | 8591.6 | 8593.9 |
| 47.5° | 9561.8 | 9584.8 | 9605.6 | 9589.4 | 9591.8 | 9527.2 | 9462.7 | 9446.6 |
| 50° | 10550.5 | 10559.7 | 10571.2 | 10548.2 | 10552.8 | 10481.3 | 10407.6 | 10409.9 |
| 52.5° | 11527.6 | 11571.4 | 11617.5 | 11555.3 | 11541.4 | 11460.8 | 11357.1 | 11315.6 |
| 55° | 12645.3 | 12707.6 | 12654.6 | 12546.3 | 12437.9 | 12329.6 | 12193.6 | 12170.6 |
| 57.5° | 14023.5 | 13917.5 | 13751.6 | 13546.4 | 13396.6 | 13244.5 | 13106.3 | 13048.7 |
| 60° | 15940.9 | 15542.2 | 15242.6 | 14938.4 | 14747.1 | 14560.5 | 14378.4 | 14350.8 |
| 62.5° | 18651.1 | 17962.1 | 17365.2 | 16736.0 | 16222.1 | 15821.1 | 15500.7 | 15410.9 |
| 65° | 22048.1 | 20418.8 | 19006.0 | 17687.8 | 16542.4 | 15678.2 | 15134.3 | 14894.6 |
| 67.5° | 23509.2 | 20292.0 | 17869.9 | 15998.5 | 14500.6 | 13454.3 | 12866.6 | 12573.9 |
| 70° | 20658.4 | 16828.2 | 14194.0 | 12320.4 | 10956.1 | 9840.6 | 9308.3 | 8994.9 |
| 72.5° | 14212.5 | 10704.9 | 8464.8 | 6909.2 | 5819.1 | 4885.8 | 4517.0 | 4489.4 |
| 75° | 6381.4 | 4226.6 | 2913.0 | 2244.7 | 1889.8 | 1643.2 | 1567.1 | 1509.5 |
| 77.5° | 1786.1 | 1320.5 | 1177.7 | 1101.6 | 1027.9 | 942.6 | 910.3 | 917.2 |
| 80° | 868.8 | 820.4 | 788.2 | 739.8 | 672.9 | 601.5 | 569.2 | 583.1 |
| 82.5° | 576.2 | 569.2 | 590.0 | 555.4 | 458.6 | 389.5 | 327.3 | 299.6 |
| 85° | 350.3 | 354.9 | 361.8 | 364.1 | 308.8 | 216.6 | 147.5 | 165.9 |
| 87.5° | 138.3 | 159.0 | 172.8 | 179.8 | 168.2 | 103.7 | 83.0 | 85.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)