

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: P192548

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192548
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-10-LED-U-5MQ-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48363.6 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 419
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

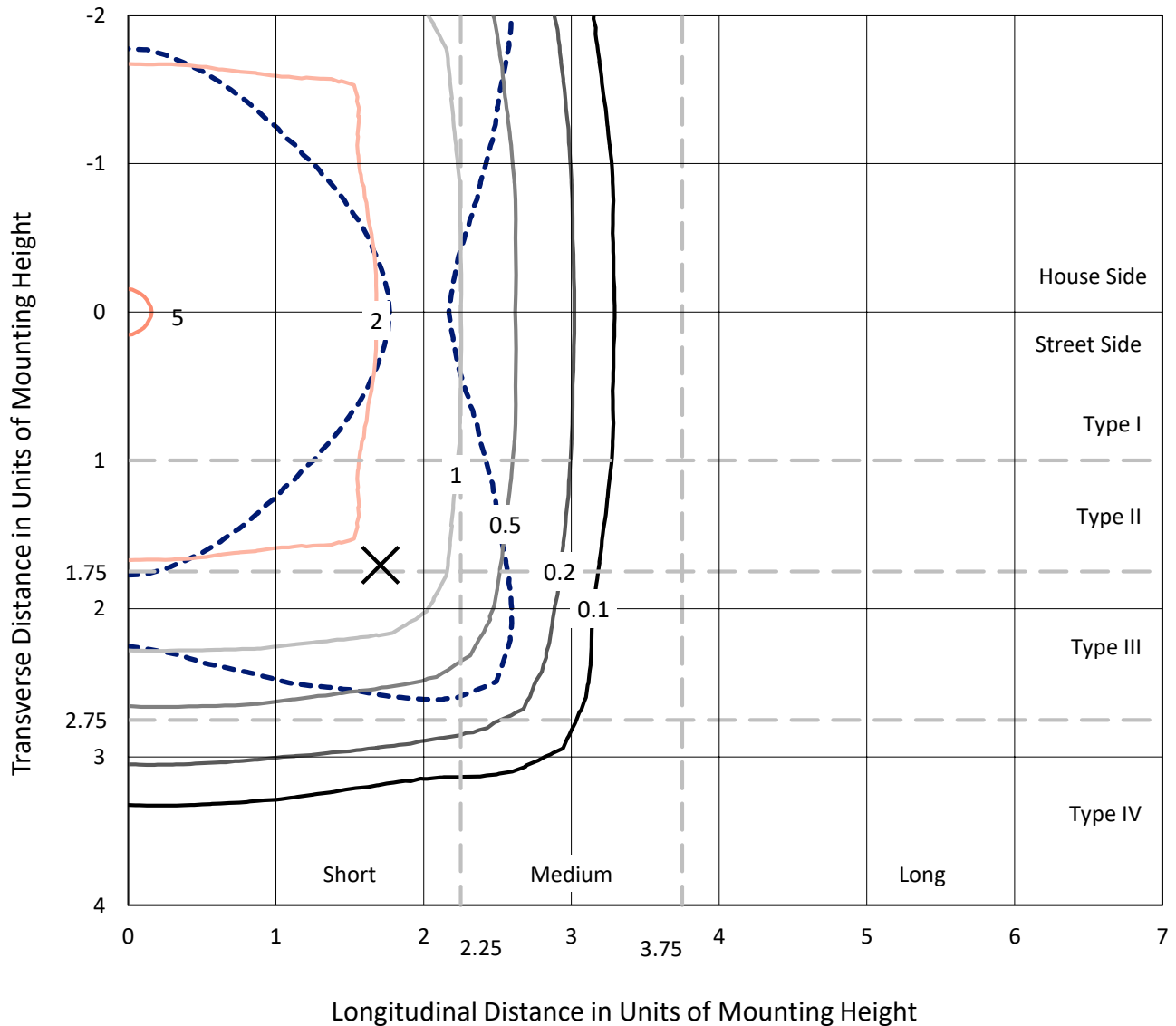


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

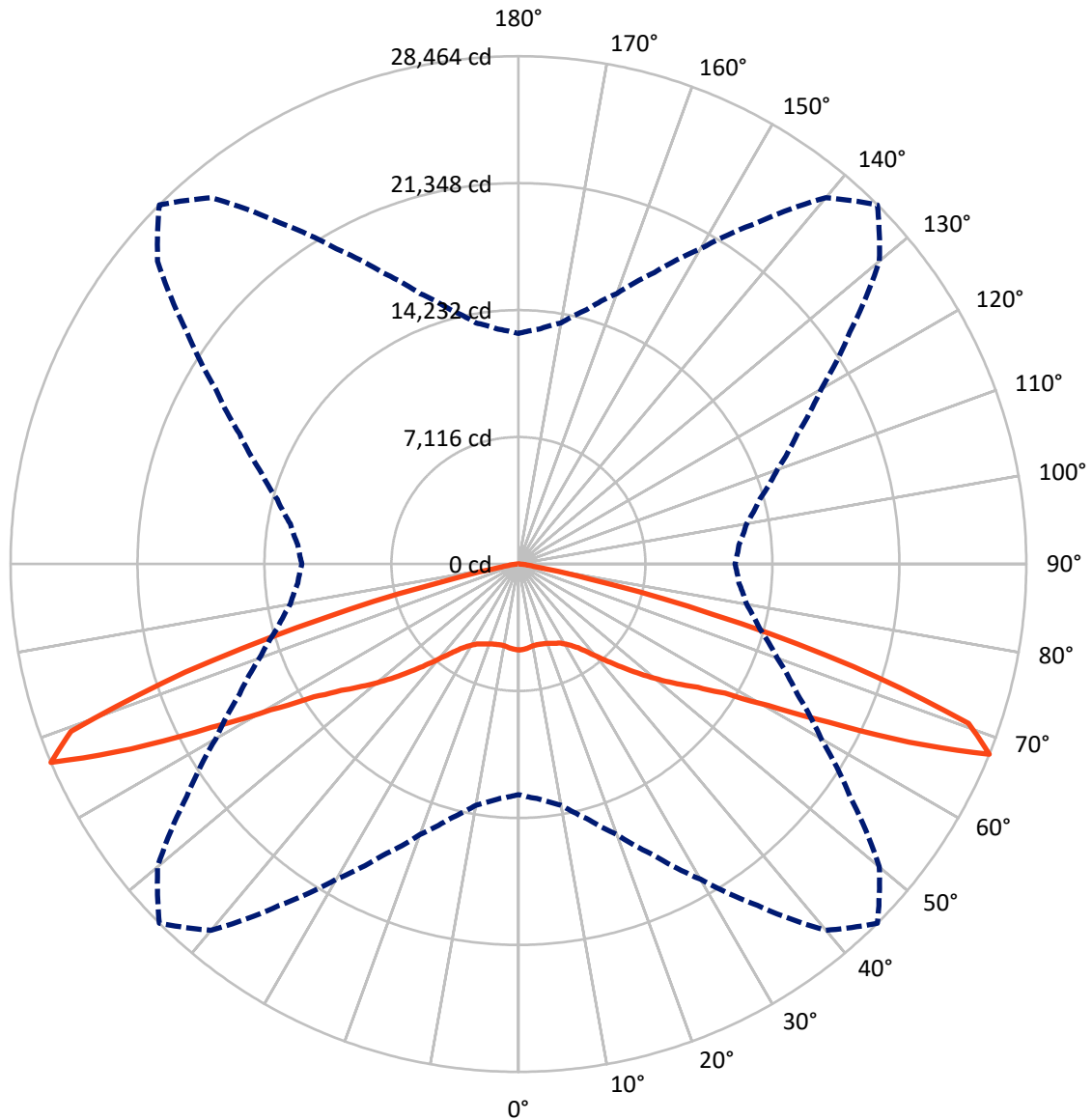


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - Full Cutoff

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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 | 24181.8 | 0.0 | 24181.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 24181.8 | 0.0 | 24181.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 48363.6 | 0.0 | 48363.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 451.1 | 0.9 |
| 10°-20° | 1309.0 | 2.7 |
| 20°-30° | 2225.3 | 4.6 |
| 30°-40° | 3637.6 | 7.5 |
| 40°-50° | 6493.8 | 13.4 |
| 50°-60° | 10948.8 | 22.6 |
| 60°-70° | 16990.8 | 35.1 |
| 70°-80° | 5969.8 | 12.3 |
| 80°-90° | 337.4 | 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° | 48363.6 | 100.0 |
| 0°-180° | 48363.6 | 100.0 |



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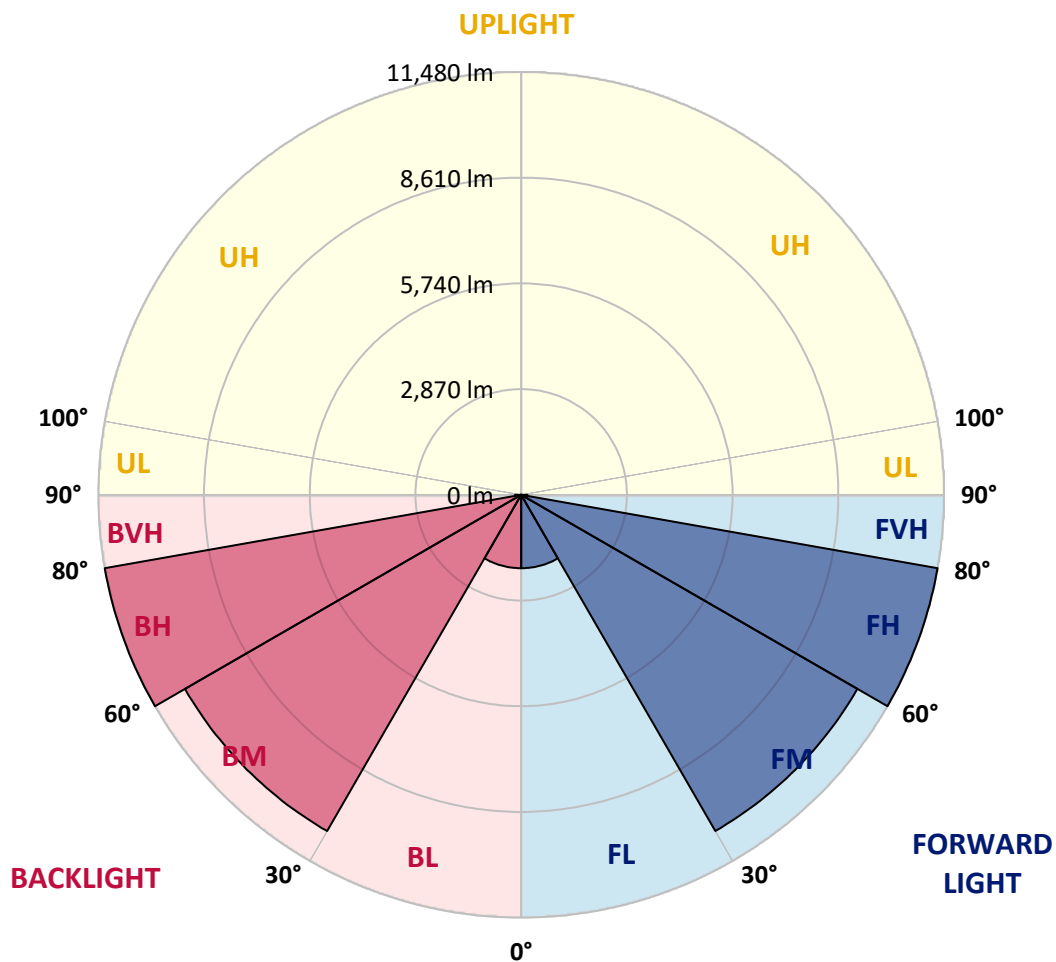
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1992.7 | 4.1 | | | |
| FM (30°-60°) | 10540.1 | 21.8 | | | |
| FH (60°-80°) | 11480.3 | 23.7 | | | G4/12000 |
| FVH (80°-90°) | 168.7 | 0.3 | | | G2/225 |
| BL (0°-30°) | 1992.7 | 4.1 | B3/2500 | | |
| BM (30°-60°) | 10540.1 | 21.8 | B5 | | |
| BH (60°-80°) | 11480.3 | 23.7 | B5 | | G4/12000 |
| BVH (80°-90°) | 168.7 | 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° | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 |
| 2.5° | 4801.8 | 4806.4 | 4806.4 | 4806.4 | 4804.0 | 4804.0 | 4799.6 | 4804.0 | 4801.8 | 4795.2 | 4797.3 |
| 5° | 4761.8 | 4766.2 | 4766.2 | 4764.0 | 4770.7 | 4768.5 | 4761.8 | 4766.2 | 4764.0 | 4759.6 | 4761.8 |
| 7.5° | 4703.9 | 4710.6 | 4710.6 | 4708.4 | 4715.1 | 4712.9 | 4708.4 | 4710.6 | 4710.6 | 4703.9 | 4703.9 |
| 10° | 4639.4 | 4643.9 | 4643.9 | 4641.7 | 4652.8 | 4652.8 | 4650.6 | 4657.2 | 4659.5 | 4652.8 | 4648.4 |
| 12.5° | 4579.4 | 4586.1 | 4586.1 | 4595.0 | 4606.2 | 4610.5 | 4621.6 | 4630.6 | 4639.4 | 4637.3 | 4628.3 |
| 15° | 4543.9 | 4548.3 | 4557.2 | 4568.3 | 4586.1 | 4601.7 | 4619.5 | 4639.4 | 4657.2 | 4661.8 | 4648.4 |
| 17.5° | 4521.5 | 4528.2 | 4541.6 | 4557.2 | 4581.7 | 4608.3 | 4635.0 | 4661.8 | 4686.2 | 4695.1 | 4679.5 |
| 20° | 4514.9 | 4519.4 | 4532.7 | 4559.4 | 4592.8 | 4632.8 | 4670.7 | 4701.8 | 4735.1 | 4746.2 | 4735.1 |
| 22.5° | 4528.2 | 4537.2 | 4552.8 | 4583.9 | 4628.3 | 4679.5 | 4724.1 | 4766.2 | 4808.5 | 4828.5 | 4813.0 |
| 25° | 4588.4 | 4597.2 | 4617.3 | 4657.2 | 4706.3 | 4759.6 | 4810.8 | 4859.7 | 4897.4 | 4917.5 | 4906.4 |
| 27.5° | 4699.6 | 4710.6 | 4735.1 | 4775.1 | 4828.5 | 4886.4 | 4942.1 | 4982.0 | 5013.2 | 5019.8 | 5006.5 |
| 30° | 4866.3 | 4890.8 | 4919.7 | 4964.2 | 5026.5 | 5075.4 | 5131.1 | 5166.7 | 5204.4 | 5204.4 | 5193.3 |
| 32.5° | 5126.6 | 5151.0 | 5182.1 | 5224.4 | 5273.4 | 5326.7 | 5375.7 | 5406.8 | 5446.8 | 5449.1 | 5422.3 |
| 35° | 5515.7 | 5526.9 | 5553.5 | 5580.3 | 5624.7 | 5671.4 | 5713.7 | 5733.7 | 5767.1 | 5769.3 | 5744.9 |
| 37.5° | 6029.6 | 6031.7 | 6049.5 | 6058.4 | 6098.6 | 6149.6 | 6189.6 | 6203.0 | 6234.2 | 6229.8 | 6205.3 |
| 40° | 6627.8 | 6638.9 | 6645.5 | 6659.1 | 6701.2 | 6750.1 | 6792.4 | 6799.1 | 6832.4 | 6825.8 | 6794.7 |
| 42.5° | 7319.5 | 7323.9 | 7361.8 | 7381.8 | 7421.9 | 7446.3 | 7499.7 | 7506.3 | 7546.4 | 7528.6 | 7493.0 |
| 45° | 8095.8 | 8135.8 | 8171.4 | 8211.4 | 8253.7 | 8282.6 | 8324.8 | 8315.9 | 8342.6 | 8315.9 | 8295.9 |
| 47.5° | 8911.9 | 8940.9 | 9021.0 | 9083.3 | 9152.2 | 9176.6 | 9236.7 | 9210.0 | 9236.7 | 9198.9 | 9192.2 |
| 50° | 9810.5 | 9861.7 | 9930.7 | 10001.8 | 10075.3 | 10115.2 | 10193.2 | 10159.7 | 10195.3 | 10159.7 | 10139.7 |
| 52.5° | 10695.7 | 10709.0 | 10860.3 | 10964.8 | 11067.2 | 11113.9 | 11160.7 | 11145.0 | 11147.1 | 11145.0 | 11125.0 |
| 55° | 11536.4 | 11567.6 | 11718.8 | 11861.1 | 12039.1 | 12170.3 | 12250.3 | 12241.5 | 12221.4 | 12201.4 | 12168.1 |
| 57.5° | 12483.9 | 12515.0 | 12688.5 | 12864.1 | 13066.7 | 13253.4 | 13415.8 | 13582.6 | 13647.1 | 13664.9 | 13591.6 |
| 60° | 13765.0 | 13762.8 | 13994.0 | 14207.6 | 14496.7 | 14774.7 | 15130.6 | 15493.1 | 15909.0 | 16102.5 | 15846.8 |
| 62.5° | 15068.3 | 15121.7 | 15455.3 | 15833.5 | 16429.5 | 17009.9 | 17666.0 | 18311.1 | 18969.4 | 19505.4 | 18936.0 |
| 65° | 14912.6 | 15117.2 | 15613.2 | 16469.5 | 17570.4 | 18878.3 | 20292.7 | 21789.6 | 23141.8 | 24071.5 | 23028.3 |
| 67.5° | 12924.3 | 13215.7 | 13720.6 | 14761.4 | 16138.1 | 18024.2 | 20399.5 | 23359.7 | 26800.5 | 28464.1 | 26402.4 |
| 70° | 9367.9 | 9697.1 | 10226.4 | 11242.9 | 12606.3 | 14398.8 | 16978.8 | 20533.0 | 25087.9 | 26764.9 | 24494.1 |
| 72.5° | 4661.8 | 4839.6 | 5166.7 | 5813.8 | 6845.7 | 8300.3 | 10640.1 | 14056.3 | 18086.4 | 19625.4 | 17550.5 |
| 75° | 1583.6 | 1665.8 | 1721.5 | 1932.8 | 2259.7 | 2831.2 | 3994.5 | 6145.2 | 9374.6 | 11238.4 | 9241.1 |
| 77.5° | 914.1 | 916.3 | 954.2 | 992.0 | 1047.6 | 1109.8 | 1265.5 | 1661.4 | 2873.5 | 4081.3 | 2973.6 |
| 80° | 591.6 | 589.4 | 620.5 | 649.4 | 687.2 | 718.4 | 727.2 | 769.5 | 887.4 | 1051.9 | 940.8 |
| 82.5° | 306.9 | 344.7 | 413.6 | 451.5 | 522.7 | 536.0 | 518.2 | 502.7 | 531.5 | 551.5 | 564.9 |
| 85° | 169.1 | 146.9 | 220.1 | 284.7 | 315.9 | 320.2 | 320.2 | 302.4 | 313.6 | 306.9 | 333.6 |
| 87.5° | 77.8 | 71.1 | 86.8 | 140.1 | 149.0 | 126.7 | 133.4 | 117.9 | 84.5 | 82.3 | 93.4 |
| 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° | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 | 4819.7 |
| 2.5° | 4797.3 | 4799.6 | 4799.6 | 4806.4 | 4808.5 | 4813.0 | 4817.5 | 4819.7 |
| 5° | 4759.6 | 4766.2 | 4761.8 | 4768.5 | 4768.5 | 4772.9 | 4772.9 | 4775.1 |
| 7.5° | 4703.9 | 4710.6 | 4710.6 | 4710.6 | 4708.4 | 4715.1 | 4715.1 | 4715.1 |
| 10° | 4646.1 | 4650.6 | 4648.4 | 4643.9 | 4639.4 | 4646.1 | 4643.9 | 4641.7 |
| 12.5° | 4628.3 | 4617.3 | 4608.3 | 4603.8 | 4595.0 | 4597.2 | 4590.5 | 4590.5 |
| 15° | 4639.4 | 4619.5 | 4603.8 | 4597.2 | 4588.4 | 4583.9 | 4579.4 | 4581.7 |
| 17.5° | 4668.4 | 4643.9 | 4624.0 | 4612.8 | 4601.7 | 4595.0 | 4586.1 | 4588.4 |
| 20° | 4719.6 | 4690.6 | 4661.8 | 4639.4 | 4619.5 | 4608.3 | 4601.7 | 4599.5 |
| 22.5° | 4795.2 | 4752.9 | 4710.6 | 4677.3 | 4650.6 | 4635.0 | 4628.3 | 4624.0 |
| 25° | 4881.9 | 4835.2 | 4786.3 | 4748.5 | 4721.7 | 4701.8 | 4688.5 | 4688.5 |
| 27.5° | 4990.9 | 4953.0 | 4908.6 | 4864.1 | 4839.6 | 4819.7 | 4810.8 | 4806.4 |
| 30° | 5173.3 | 5137.7 | 5102.1 | 5059.8 | 5028.6 | 5008.7 | 4993.1 | 4979.8 |
| 32.5° | 5406.8 | 5377.8 | 5349.0 | 5317.8 | 5288.9 | 5262.3 | 5237.8 | 5226.6 |
| 35° | 5736.0 | 5713.7 | 5693.7 | 5658.1 | 5646.9 | 5631.4 | 5618.1 | 5606.9 |
| 37.5° | 6189.6 | 6180.8 | 6180.8 | 6143.0 | 6134.1 | 6127.4 | 6114.0 | 6116.4 |
| 40° | 6785.8 | 6794.7 | 6783.5 | 6770.1 | 6763.4 | 6745.6 | 6745.6 | 6761.3 |
| 42.5° | 7490.9 | 7497.5 | 7522.0 | 7499.7 | 7524.1 | 7502.0 | 7488.5 | 7499.7 |
| 45° | 8309.2 | 8333.8 | 8382.7 | 8360.4 | 8376.1 | 8338.1 | 8291.4 | 8293.7 |
| 47.5° | 9227.8 | 9250.1 | 9270.1 | 9254.5 | 9256.8 | 9194.5 | 9132.2 | 9116.6 |
| 50° | 10182.0 | 10190.8 | 10202.0 | 10179.6 | 10184.2 | 10115.2 | 10044.1 | 10046.3 |
| 52.5° | 11125.0 | 11167.3 | 11211.7 | 11151.6 | 11138.3 | 11060.6 | 10960.4 | 10920.4 |
| 55° | 12203.7 | 12263.7 | 12212.6 | 12108.0 | 12003.6 | 11899.0 | 11767.8 | 11745.5 |
| 57.5° | 13533.7 | 13431.4 | 13271.2 | 13073.3 | 12928.7 | 12781.9 | 12648.5 | 12592.9 |
| 60° | 15384.1 | 14999.3 | 14710.2 | 14416.6 | 14232.0 | 14052.0 | 13876.2 | 13849.4 |
| 62.5° | 17999.7 | 17334.6 | 16758.6 | 16151.5 | 15655.4 | 15268.4 | 14959.3 | 14872.6 |
| 65° | 21278.0 | 19705.6 | 18342.2 | 17070.0 | 15964.6 | 15130.6 | 14605.7 | 14374.3 |
| 67.5° | 22688.1 | 19583.3 | 17245.7 | 15439.8 | 13994.0 | 12984.4 | 12417.2 | 12134.8 |
| 70° | 19936.9 | 16240.4 | 13698.3 | 11890.0 | 10573.3 | 9497.0 | 8983.2 | 8680.6 |
| 72.5° | 13716.1 | 10331.0 | 8169.1 | 6667.9 | 5615.8 | 4715.1 | 4359.2 | 4332.5 |
| 75° | 6158.5 | 4078.9 | 2811.2 | 2166.3 | 1823.7 | 1585.8 | 1512.3 | 1456.8 |
| 77.5° | 1723.7 | 1274.4 | 1136.6 | 1063.1 | 992.0 | 909.7 | 878.6 | 885.2 |
| 80° | 838.4 | 791.8 | 760.7 | 713.9 | 649.4 | 580.5 | 549.3 | 562.6 |
| 82.5° | 556.0 | 549.3 | 569.4 | 536.0 | 442.6 | 375.9 | 315.9 | 289.1 |
| 85° | 338.0 | 342.5 | 349.2 | 351.4 | 298.1 | 209.0 | 142.4 | 160.2 |
| 87.5° | 133.4 | 153.5 | 166.8 | 173.5 | 162.4 | 100.1 | 80.1 | 82.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)