

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: P192646

Luminaire Tested: **GAN-AF-08-LED-U-5WQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
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-5WQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53310.9 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 511
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

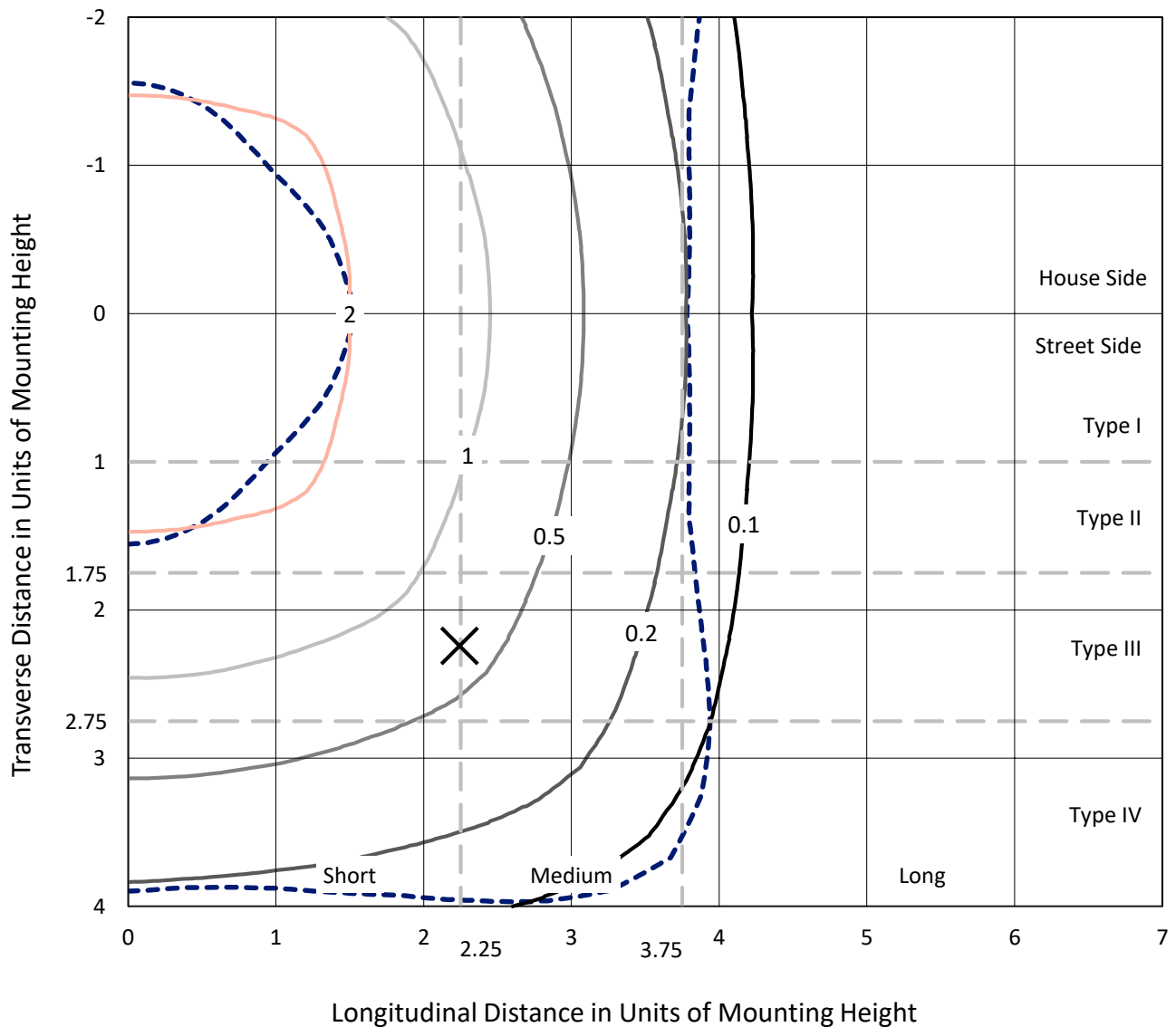


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

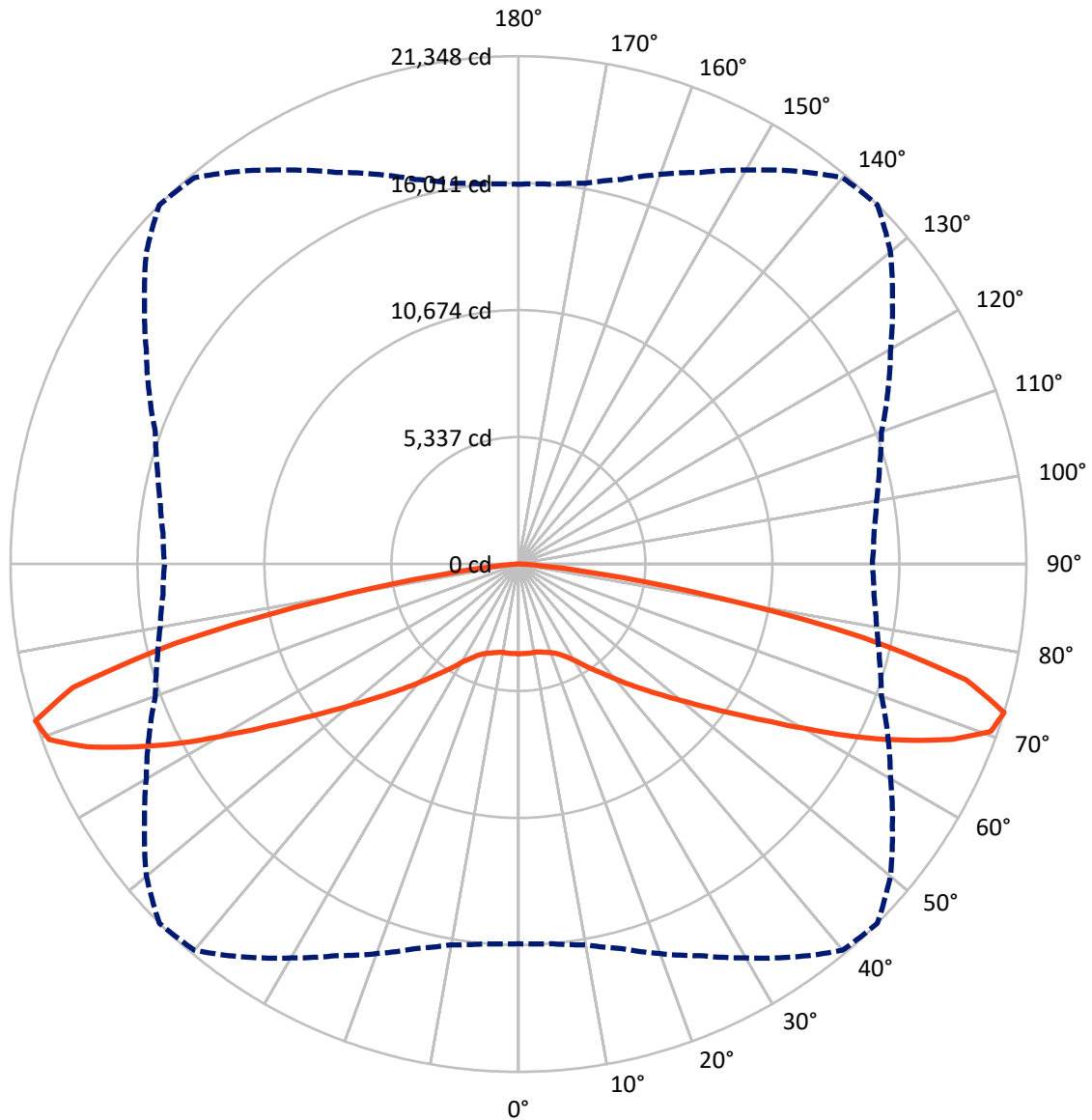


Based on 30 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 26655.4 | 0.0 | 26655.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 26655.4 | 0.0 | 26655.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 53310.9 | 0.0 | 53310.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 360.5 | 0.7 |
| 10°-20° | 1094.9 | 2.1 |
| 20°-30° | 2000.7 | 3.8 |
| 30°-40° | 3449.6 | 6.5 |
| 40°-50° | 5897.1 | 11.1 |
| 50°-60° | 9558.4 | 17.9 |
| 60°-70° | 15857.1 | 29.7 |
| 70°-80° | 13966.4 | 26.2 |
| 80°-90° | 1126.1 | 2.1 |
| 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° | 53310.9 | 100.0 |
| 0°-180° | 53310.9 | 100.0 |



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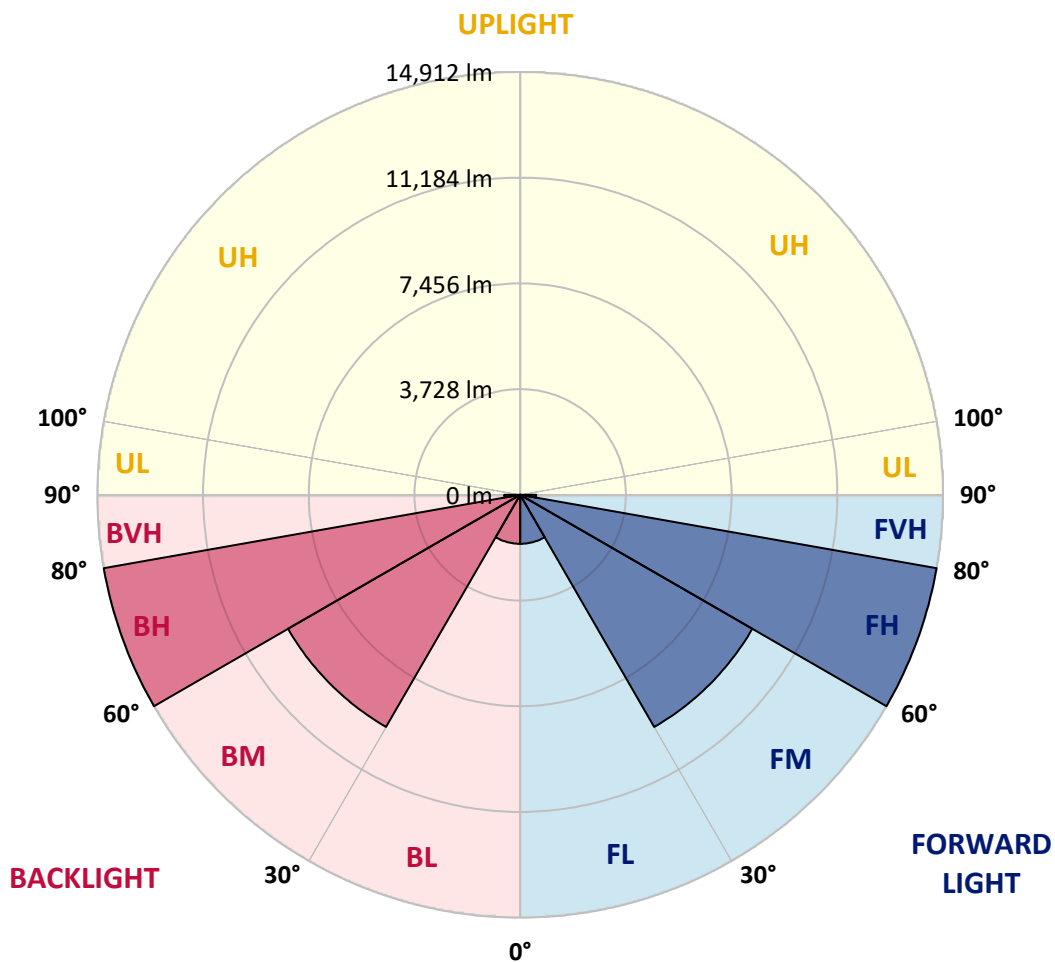
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1728.0 | 3.2 | | | |
| FM (30°-60°) | 9452.6 | 17.7 | | | |
| FH (60°-80°) | 14911.8 | 28.0 | | | G5 |
| FVH (80°-90°) | 563.0 | 1.1 | | | G4/750 |
| BL (0°-30°) | 1728.0 | 3.2 | B3/2500 | | |
| BM (30°-60°) | 9452.6 | 17.7 | B5 | | |
| BH (60°-80°) | 14911.8 | 28.0 | B5 | | G5 |
| BVH (80°-90°) | 563.0 | 1.1 | | | G4/750 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 |
| 2.5° | 3775.2 | 3777.6 | 3780.2 | 3777.6 | 3777.6 | 3775.2 | 3772.8 | 3775.2 | 3772.8 | 3768.0 | 3770.3 |
| 5° | 3787.5 | 3792.4 | 3792.4 | 3787.5 | 3789.8 | 3787.5 | 3782.5 | 3785.1 | 3780.2 | 3772.8 | 3772.8 |
| 7.5° | 3802.1 | 3804.6 | 3804.6 | 3799.7 | 3802.1 | 3797.2 | 3792.4 | 3789.8 | 3785.1 | 3775.2 | 3768.0 |
| 10° | 3824.2 | 3826.6 | 3824.2 | 3819.2 | 3819.2 | 3811.9 | 3799.7 | 3794.8 | 3785.1 | 3770.3 | 3763.0 |
| 12.5° | 3848.5 | 3851.1 | 3848.5 | 3843.7 | 3841.2 | 3829.0 | 3819.2 | 3811.9 | 3804.6 | 3792.4 | 3780.2 |
| 15° | 3882.8 | 3887.7 | 3882.8 | 3873.0 | 3865.7 | 3856.0 | 3851.1 | 3853.5 | 3856.0 | 3846.2 | 3833.9 |
| 17.5° | 3946.5 | 3948.8 | 3941.5 | 3919.4 | 3909.8 | 3899.9 | 3899.9 | 3904.8 | 3912.1 | 3907.2 | 3895.1 |
| 20° | 4063.8 | 4056.5 | 4039.4 | 4012.4 | 4000.2 | 3983.0 | 3980.7 | 3983.0 | 3983.0 | 3980.7 | 3970.8 |
| 22.5° | 4210.5 | 4205.6 | 4183.5 | 4149.3 | 4132.1 | 4122.5 | 4107.8 | 4095.6 | 4093.1 | 4085.7 | 4076.0 |
| 25° | 4386.5 | 4384.0 | 4357.2 | 4327.9 | 4315.6 | 4303.4 | 4291.1 | 4274.0 | 4259.4 | 4242.2 | 4232.4 |
| 27.5° | 4611.5 | 4601.7 | 4562.5 | 4547.9 | 4530.8 | 4523.5 | 4506.3 | 4486.7 | 4474.5 | 4452.6 | 4440.3 |
| 30° | 4858.4 | 4858.4 | 4826.6 | 4821.7 | 4821.7 | 4804.6 | 4785.1 | 4750.8 | 4728.8 | 4706.8 | 4699.5 |
| 32.5° | 5105.3 | 5107.9 | 5076.0 | 5085.8 | 5093.1 | 5105.3 | 5110.3 | 5098.0 | 5083.4 | 5080.9 | 5066.3 |
| 35° | 5462.3 | 5452.6 | 5420.8 | 5428.1 | 5425.7 | 5423.2 | 5423.2 | 5450.2 | 5455.0 | 5459.9 | 5430.6 |
| 37.5° | 5904.9 | 5904.9 | 5873.1 | 5873.1 | 5858.5 | 5843.8 | 5824.3 | 5841.3 | 5868.2 | 5875.5 | 5856.0 |
| 40° | 6411.0 | 6428.2 | 6389.1 | 6386.6 | 6391.4 | 6345.0 | 6323.1 | 6349.9 | 6367.1 | 6396.4 | 6374.4 |
| 42.5° | 7007.7 | 6995.5 | 6956.3 | 6951.4 | 6924.6 | 6909.9 | 6890.3 | 6912.3 | 6939.2 | 6958.7 | 6966.1 |
| 45° | 7579.9 | 7570.0 | 7526.0 | 7526.0 | 7499.1 | 7486.9 | 7496.8 | 7533.3 | 7545.6 | 7572.4 | 7599.4 |
| 47.5° | 8144.6 | 8132.3 | 8103.1 | 8115.3 | 8117.8 | 8139.7 | 8171.5 | 8205.8 | 8240.0 | 8276.7 | 8288.9 |
| 50° | 8721.7 | 8724.2 | 8692.3 | 8721.7 | 8758.3 | 8819.5 | 8905.0 | 8961.3 | 9032.3 | 9078.7 | 9093.3 |
| 52.5° | 9247.3 | 9257.2 | 9291.4 | 9359.8 | 9433.2 | 9553.0 | 9699.7 | 9836.6 | 9954.1 | 10032.3 | 10027.4 |
| 55° | 9878.2 | 9892.9 | 9976.0 | 10093.4 | 10213.2 | 10394.2 | 10611.7 | 10853.9 | 11049.4 | 11161.9 | 11091.0 |
| 57.5° | 10685.1 | 10716.9 | 10809.8 | 10968.7 | 11147.1 | 11382.0 | 11680.3 | 12044.5 | 12347.7 | 12499.4 | 12384.4 |
| 60° | 11792.7 | 11812.2 | 11924.8 | 12100.8 | 12316.0 | 12607.0 | 13005.4 | 13494.5 | 13922.4 | 14123.0 | 13990.8 |
| 62.5° | 13252.5 | 13289.1 | 13379.6 | 13558.1 | 13778.1 | 14108.2 | 14594.9 | 15206.0 | 15739.2 | 16017.9 | 15719.5 |
| 65° | 14995.9 | 15113.2 | 15189.0 | 15369.9 | 15575.4 | 15925.0 | 16433.5 | 17088.8 | 17661.0 | 17844.3 | 17499.6 |
| 67.5° | 16722.0 | 16824.8 | 16956.8 | 17164.6 | 17372.4 | 17766.1 | 18238.0 | 18873.8 | 19502.1 | 19668.5 | 19132.9 |
| 70° | 17477.5 | 17536.2 | 17741.6 | 18025.3 | 18423.9 | 18888.4 | 19433.7 | 20147.6 | 20925.3 | 21062.1 | 20382.5 |
| 72.5° | 15964.1 | 16022.8 | 16252.7 | 16734.2 | 17428.7 | 18167.1 | 19118.3 | 20167.2 | 21194.1 | 21348.1 | 20411.7 |
| 75° | 12073.9 | 11978.5 | 12318.4 | 12956.6 | 13893.1 | 14922.4 | 16252.7 | 17756.4 | 19240.5 | 19433.7 | 18316.2 |
| 77.5° | 6239.9 | 6227.7 | 6484.4 | 7276.6 | 8394.1 | 9565.2 | 11029.8 | 12729.2 | 14181.7 | 14768.5 | 13858.9 |
| 80° | 1758.0 | 1777.5 | 1899.8 | 2293.5 | 2946.4 | 3792.4 | 4936.7 | 6528.5 | 7716.8 | 8323.2 | 7814.6 |
| 82.5° | 689.5 | 743.3 | 789.7 | 863.1 | 948.7 | 1073.4 | 1432.8 | 2132.0 | 2860.7 | 3418.2 | 2799.7 |
| 85° | 246.9 | 264.1 | 374.1 | 442.6 | 449.9 | 474.4 | 540.4 | 630.9 | 760.5 | 907.2 | 745.8 |
| 87.5° | 92.9 | 102.7 | 119.8 | 198.1 | 195.6 | 178.5 | 217.7 | 227.4 | 171.2 | 156.5 | 193.2 |
| 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° | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 | 3775.2 |
| 2.5° | 3765.5 | 3768.0 | 3768.0 | 3770.3 | 3772.8 | 3772.8 | 3777.6 | 3777.6 |
| 5° | 3768.0 | 3768.0 | 3763.0 | 3765.5 | 3763.0 | 3763.0 | 3765.5 | 3765.5 |
| 7.5° | 3763.0 | 3760.6 | 3755.7 | 3753.3 | 3748.3 | 3748.3 | 3748.3 | 3748.3 |
| 10° | 3755.7 | 3753.3 | 3748.3 | 3745.9 | 3743.4 | 3743.4 | 3743.4 | 3743.4 |
| 12.5° | 3775.2 | 3768.0 | 3763.0 | 3760.6 | 3760.6 | 3760.6 | 3760.6 | 3760.6 |
| 15° | 3826.6 | 3809.5 | 3797.2 | 3797.2 | 3799.7 | 3804.6 | 3804.6 | 3809.5 |
| 17.5° | 3890.1 | 3870.6 | 3858.4 | 3848.5 | 3853.5 | 3860.7 | 3865.7 | 3870.6 |
| 20° | 3966.0 | 3956.2 | 3939.1 | 3929.3 | 3929.3 | 3939.1 | 3943.9 | 3946.5 |
| 22.5° | 4071.1 | 4063.8 | 4056.5 | 4044.2 | 4044.2 | 4049.0 | 4058.9 | 4058.9 |
| 25° | 4227.6 | 4222.7 | 4217.9 | 4208.0 | 4205.6 | 4205.6 | 4210.5 | 4215.3 |
| 27.5° | 4423.2 | 4425.6 | 4420.7 | 4418.3 | 4411.1 | 4408.5 | 4415.8 | 4413.4 |
| 30° | 4684.8 | 4697.0 | 4709.3 | 4699.5 | 4687.2 | 4679.9 | 4672.6 | 4662.8 |
| 32.5° | 5039.4 | 5024.8 | 5014.9 | 4997.7 | 4975.7 | 4956.2 | 4941.6 | 4924.5 |
| 35° | 5374.4 | 5349.9 | 5340.1 | 5354.8 | 5352.3 | 5340.1 | 5323.0 | 5308.4 |
| 37.5° | 5785.1 | 5780.3 | 5785.1 | 5812.0 | 5807.1 | 5819.3 | 5785.1 | 5782.6 |
| 40° | 6303.5 | 6308.4 | 6342.6 | 6374.4 | 6391.4 | 6408.6 | 6389.1 | 6369.5 |
| 42.5° | 6904.9 | 6902.6 | 6914.8 | 6958.7 | 6988.1 | 7007.7 | 6966.1 | 6961.2 |
| 45° | 7540.7 | 7523.6 | 7533.3 | 7570.0 | 7599.4 | 7621.4 | 7575.0 | 7575.0 |
| 47.5° | 8240.0 | 8210.7 | 8178.8 | 8220.4 | 8237.6 | 8252.3 | 8215.5 | 8203.3 |
| 50° | 9020.0 | 8958.8 | 8890.4 | 8907.5 | 8907.5 | 8902.7 | 8856.1 | 8853.8 |
| 52.5° | 9914.8 | 9802.4 | 9677.7 | 9631.2 | 9604.3 | 9575.1 | 9494.3 | 9455.2 |
| 55° | 10944.3 | 10775.5 | 10580.0 | 10460.2 | 10396.6 | 10315.9 | 10181.5 | 10144.7 |
| 57.5° | 12147.2 | 11883.1 | 11545.8 | 11399.0 | 11257.2 | 11125.3 | 10976.0 | 10934.4 |
| 60° | 13572.7 | 13184.0 | 12736.6 | 12465.2 | 12311.2 | 12183.9 | 12029.9 | 12022.6 |
| 62.5° | 15162.1 | 14548.3 | 14042.2 | 13797.7 | 13685.3 | 13572.7 | 13426.1 | 13445.7 |
| 65° | 16778.3 | 16137.7 | 15663.3 | 15465.3 | 15360.1 | 15267.3 | 15120.5 | 15142.6 |
| 67.5° | 18372.5 | 17783.2 | 17262.4 | 17059.5 | 16942.1 | 16824.8 | 16692.7 | 16714.7 |
| 70° | 19516.8 | 18785.7 | 18198.9 | 17748.9 | 17467.9 | 17150.0 | 16944.6 | 16893.2 |
| 72.5° | 19189.2 | 18061.9 | 17130.4 | 16237.9 | 15714.6 | 15289.2 | 15000.7 | 14875.9 |
| 75° | 16607.1 | 15066.8 | 13868.6 | 12773.2 | 12157.1 | 11655.8 | 11291.5 | 11064.1 |
| 77.5° | 12333.0 | 10602.0 | 9186.3 | 7924.6 | 6926.9 | 6257.1 | 5785.1 | 5479.5 |
| 80° | 6750.9 | 5134.7 | 3753.3 | 2638.3 | 1939.0 | 1611.3 | 1423.1 | 1332.6 |
| 82.5° | 2102.8 | 1357.0 | 1000.0 | 863.1 | 802.0 | 767.8 | 711.5 | 621.0 |
| 85° | 670.0 | 586.8 | 545.2 | 520.8 | 496.4 | 432.7 | 298.3 | 271.4 |
| 87.5° | 259.2 | 266.5 | 264.1 | 249.4 | 254.2 | 183.3 | 146.7 | 129.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)