

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: P192584

Luminaire Tested: **GAN-AF-06-LED-U-5NQ-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-5NQ-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28695.9 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - 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

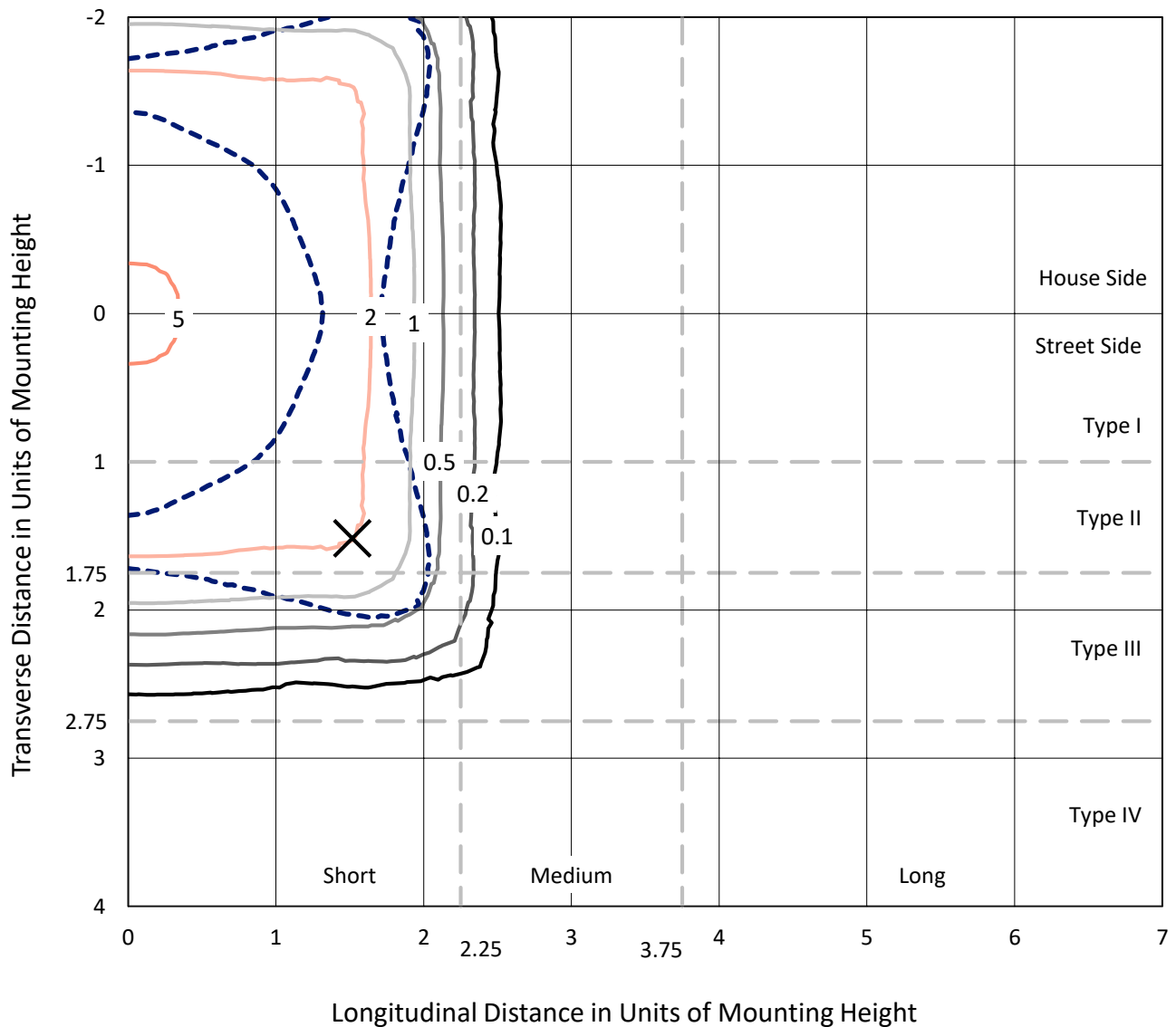


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

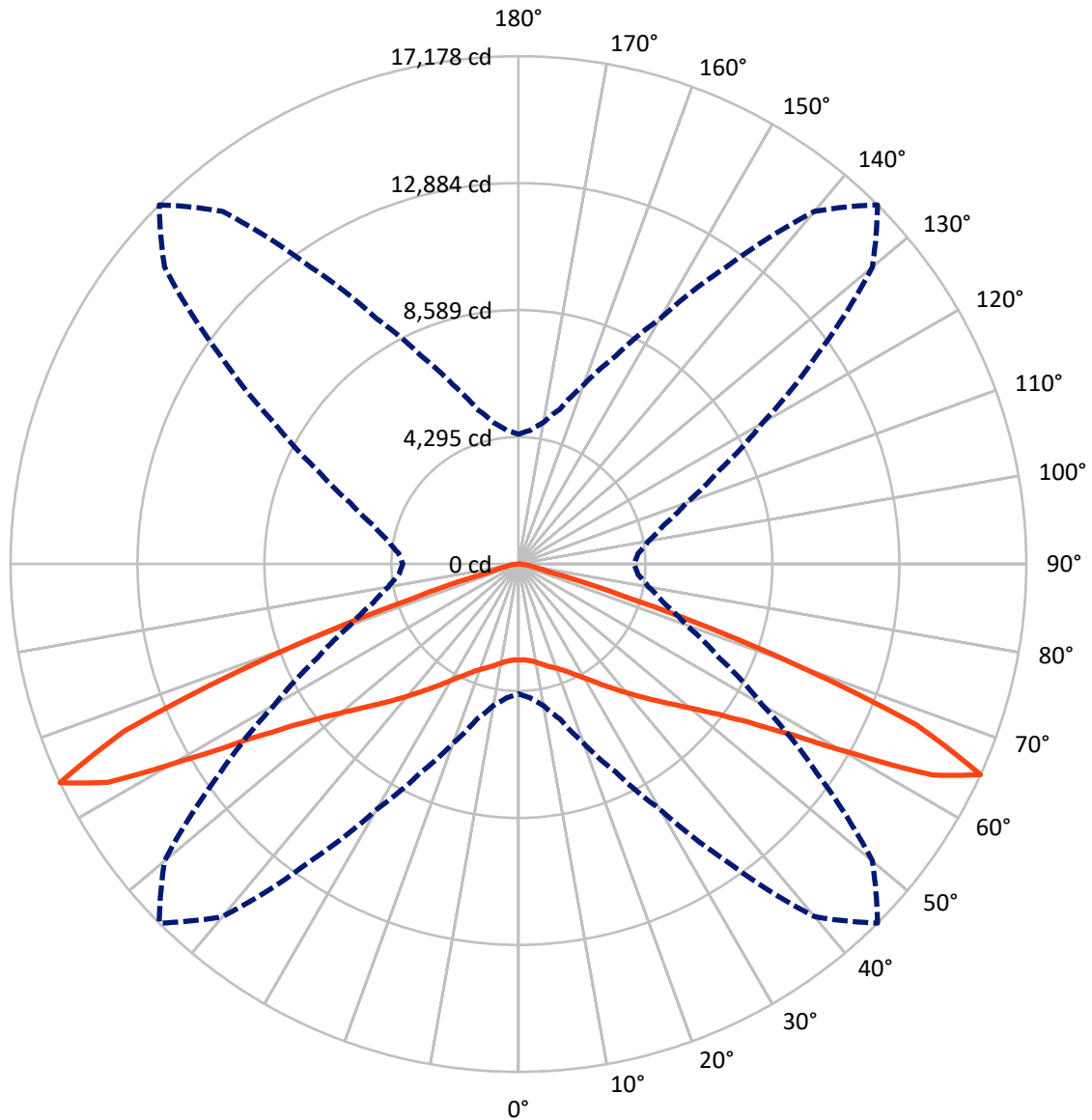


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14347.9 | 0.0 | 14347.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14347.9 | 0.0 | 14347.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28695.9 | 0.0 | 28695.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 316.5 | 1.1 |
| 10°-20° | 1015.0 | 3.5 |
| 20°-30° | 1897.8 | 6.6 |
| 30°-40° | 3209.8 | 11.2 |
| 40°-50° | 5248.3 | 18.3 |
| 50°-60° | 8345.6 | 29.1 |
| 60°-70° | 7543.9 | 26.3 |
| 70°-80° | 954.7 | 3.3 |
| 80°-90° | 164.2 | 0.6 |
| 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° | 28695.9 | 100.0 |
| 0°-180° | 28695.9 | 100.0 |



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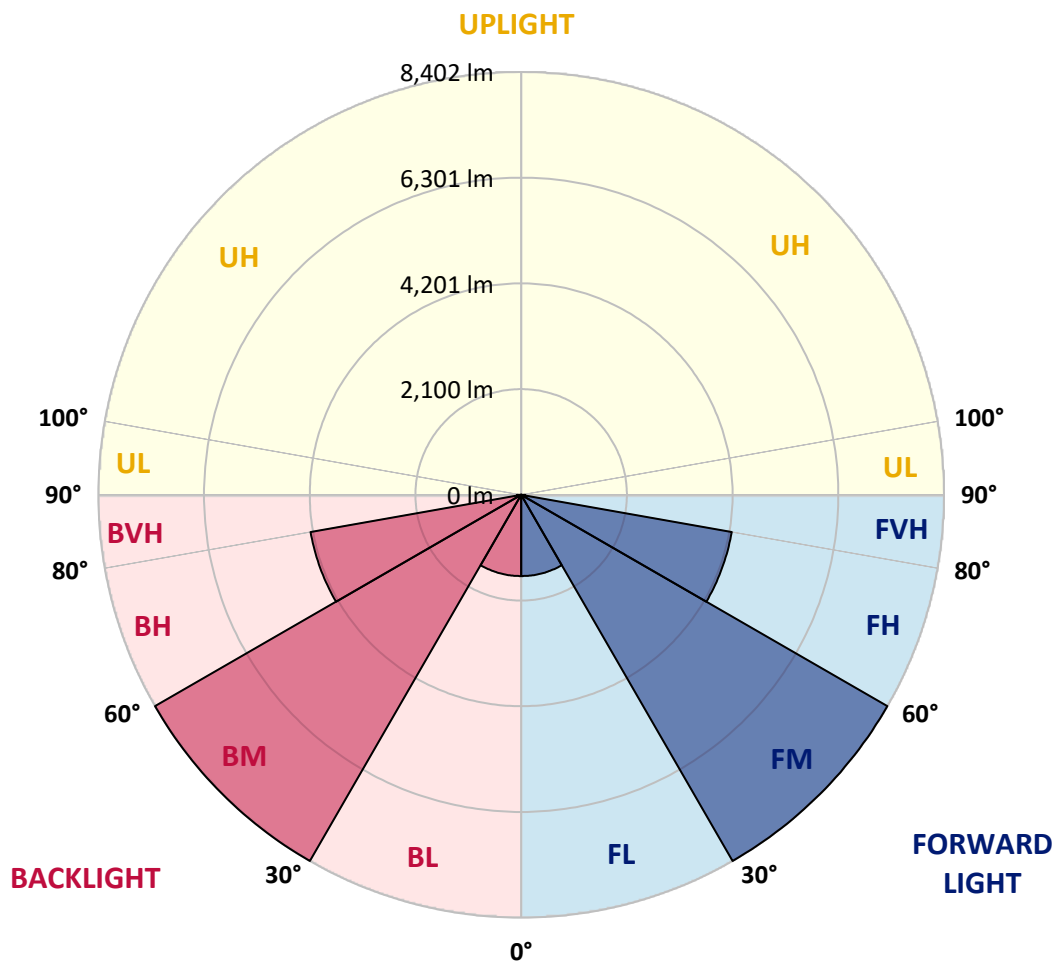
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1614.6 | 5.6 | | | |
| FM (30°-60°) | 8401.9 | 29.3 | | | |
| FH (60°-80°) | 4249.3 | 14.8 | | | G2/5000 |
| FVH (80°-90°) | 82.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1614.6 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 8401.9 | 29.3 | B4/8500 | | |
| BH (60°-80°) | 4249.3 | 14.8 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 82.1 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 |
| 2.5° | 3249.6 | 3252.3 | 3255.1 | 3252.3 | 3255.1 | 3251.0 | 3248.3 | 3252.3 | 3248.3 | 3244.2 | 3246.9 |
| 5° | 3277.9 | 3279.2 | 3279.2 | 3275.1 | 3279.2 | 3276.4 | 3272.6 | 3277.9 | 3273.9 | 3269.8 | 3272.6 |
| 7.5° | 3324.9 | 3330.2 | 3326.3 | 3322.2 | 3324.9 | 3322.2 | 3319.6 | 3320.8 | 3319.6 | 3315.5 | 3316.8 |
| 10° | 3388.0 | 3392.1 | 3389.4 | 3388.0 | 3390.8 | 3389.4 | 3386.7 | 3385.4 | 3386.7 | 3382.6 | 3382.6 |
| 12.5° | 3464.7 | 3463.3 | 3462.0 | 3463.3 | 3467.4 | 3467.4 | 3466.0 | 3467.4 | 3470.1 | 3471.3 | 3468.7 |
| 15° | 3539.9 | 3542.6 | 3542.6 | 3542.6 | 3550.7 | 3557.4 | 3561.5 | 3564.1 | 3569.5 | 3570.8 | 3565.4 |
| 17.5° | 3634.0 | 3634.0 | 3632.7 | 3634.0 | 3642.0 | 3652.9 | 3656.8 | 3662.3 | 3667.7 | 3671.6 | 3664.9 |
| 20° | 3738.9 | 3741.5 | 3741.5 | 3744.2 | 3754.9 | 3767.0 | 3767.0 | 3769.8 | 3767.0 | 3769.8 | 3765.7 |
| 22.5° | 3866.4 | 3874.6 | 3874.6 | 3875.9 | 3886.7 | 3901.4 | 3897.4 | 3901.4 | 3894.8 | 3900.1 | 3894.8 |
| 25° | 4033.2 | 4045.3 | 4042.6 | 4042.6 | 4050.7 | 4060.1 | 4061.3 | 4069.5 | 4068.0 | 4074.9 | 4070.8 |
| 27.5° | 4221.3 | 4240.2 | 4245.5 | 4244.1 | 4249.5 | 4258.9 | 4261.6 | 4271.1 | 4265.7 | 4271.1 | 4268.3 |
| 30° | 4447.1 | 4455.1 | 4465.9 | 4469.9 | 4476.7 | 4486.0 | 4486.0 | 4487.4 | 4480.7 | 4488.7 | 4492.7 |
| 32.5° | 4680.8 | 4695.8 | 4706.5 | 4730.7 | 4742.7 | 4749.5 | 4748.1 | 4750.8 | 4744.1 | 4754.9 | 4762.9 |
| 35° | 4990.1 | 5000.8 | 5018.3 | 5037.1 | 5053.2 | 5051.8 | 5047.8 | 5049.2 | 5049.2 | 5058.6 | 5066.7 |
| 37.5° | 5362.3 | 5364.9 | 5387.8 | 5414.7 | 5422.7 | 5414.7 | 5390.6 | 5385.2 | 5373.1 | 5385.2 | 5398.6 |
| 40° | 5756.1 | 5765.5 | 5811.2 | 5828.7 | 5832.7 | 5817.9 | 5783.0 | 5762.8 | 5735.9 | 5750.8 | 5769.6 |
| 42.5° | 6168.7 | 6187.5 | 6229.2 | 6260.0 | 6273.4 | 6264.1 | 6215.8 | 6184.8 | 6149.8 | 6158.0 | 6176.8 |
| 45° | 6625.6 | 6648.4 | 6707.5 | 6737.2 | 6762.7 | 6747.9 | 6700.9 | 6653.8 | 6598.7 | 6602.7 | 6632.4 |
| 47.5° | 7136.3 | 7159.1 | 7235.8 | 7285.5 | 7298.9 | 7296.3 | 7243.8 | 7179.3 | 7104.0 | 7101.5 | 7126.9 |
| 50° | 7708.8 | 7731.6 | 7827.2 | 7903.7 | 7942.7 | 7938.7 | 7876.8 | 7785.4 | 7694.0 | 7695.3 | 7727.7 |
| 52.5° | 8267.8 | 8296.2 | 8395.6 | 8527.2 | 8603.8 | 8659.1 | 8621.3 | 8535.4 | 8423.8 | 8426.5 | 8456.0 |
| 55° | 8792.0 | 8839.1 | 8953.4 | 9132.0 | 9274.5 | 9429.1 | 9473.5 | 9470.7 | 9403.5 | 9422.3 | 9451.9 |
| 57.5° | 9046.0 | 9115.9 | 9292.0 | 9574.2 | 9864.5 | 10179.0 | 10445.0 | 10643.9 | 10728.6 | 10856.3 | 10826.7 |
| 60° | 8565.0 | 8676.5 | 8935.9 | 9351.1 | 9925.0 | 10580.7 | 11283.6 | 11970.5 | 12556.4 | 12998.6 | 12744.5 |
| 62.5° | 7012.7 | 7157.8 | 7472.2 | 8004.5 | 8872.6 | 9922.3 | 11267.6 | 12891.1 | 14659.7 | 15726.8 | 14964.7 |
| 65° | 4388.0 | 4538.5 | 4858.3 | 5428.1 | 6444.2 | 7749.1 | 9574.2 | 12264.8 | 15569.6 | 17178.2 | 15627.3 |
| 67.5° | 1710.8 | 1792.8 | 1966.2 | 2330.4 | 3093.7 | 4254.9 | 6086.8 | 9140.1 | 13092.6 | 14502.4 | 12849.3 |
| 70° | 857.4 | 865.5 | 897.8 | 965.0 | 1128.8 | 1466.3 | 2231.0 | 4237.4 | 7508.7 | 9068.8 | 7238.4 |
| 72.5° | 619.6 | 620.9 | 637.0 | 666.6 | 719.0 | 794.4 | 939.4 | 1296.9 | 2442.0 | 3732.1 | 2288.8 |
| 75° | 474.4 | 479.7 | 489.2 | 505.4 | 533.5 | 571.2 | 623.6 | 747.3 | 926.0 | 1073.8 | 903.1 |
| 77.5° | 365.6 | 376.3 | 383.1 | 397.8 | 415.3 | 440.9 | 455.6 | 502.6 | 584.6 | 615.5 | 606.1 |
| 80° | 278.2 | 287.6 | 302.4 | 314.4 | 326.5 | 338.7 | 333.3 | 354.8 | 397.8 | 423.4 | 409.9 |
| 82.5° | 177.4 | 188.2 | 231.2 | 241.9 | 247.3 | 255.3 | 246.0 | 247.3 | 266.0 | 282.2 | 266.0 |
| 85° | 114.2 | 121.0 | 146.5 | 159.9 | 161.2 | 166.6 | 162.6 | 153.2 | 153.2 | 139.8 | 157.3 |
| 87.5° | 52.5 | 53.7 | 65.9 | 77.9 | 80.7 | 72.5 | 71.2 | 68.5 | 55.0 | 52.5 | 56.5 |
| 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° | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 | 3246.9 |
| 2.5° | 3245.6 | 3248.3 | 3249.6 | 3253.6 | 3255.1 | 3255.1 | 3256.4 | 3259.1 |
| 5° | 3271.1 | 3275.1 | 3276.4 | 3281.9 | 3283.2 | 3281.9 | 3284.6 | 3286.0 |
| 7.5° | 3316.8 | 3323.5 | 3326.3 | 3331.7 | 3327.6 | 3333.0 | 3334.3 | 3334.3 |
| 10° | 3384.1 | 3390.8 | 3392.1 | 3397.5 | 3394.8 | 3397.5 | 3397.5 | 3394.8 |
| 12.5° | 3472.7 | 3474.1 | 3470.1 | 3474.1 | 3468.7 | 3471.3 | 3467.4 | 3464.7 |
| 15° | 3570.8 | 3566.8 | 3557.4 | 3557.4 | 3549.3 | 3550.7 | 3549.3 | 3547.9 |
| 17.5° | 3666.3 | 3658.2 | 3651.5 | 3648.8 | 3642.0 | 3640.7 | 3636.7 | 3636.7 |
| 20° | 3771.1 | 3767.0 | 3763.0 | 3757.7 | 3751.0 | 3744.2 | 3742.9 | 3745.5 |
| 22.5° | 3897.4 | 3896.0 | 3896.0 | 3893.4 | 3883.9 | 3877.3 | 3873.2 | 3873.2 |
| 25° | 4066.7 | 4054.6 | 4054.6 | 4053.3 | 4049.2 | 4045.3 | 4037.2 | 4041.2 |
| 27.5° | 4257.7 | 4250.8 | 4256.2 | 4254.9 | 4250.8 | 4250.8 | 4245.5 | 4245.5 |
| 30° | 4492.7 | 4490.1 | 4498.2 | 4491.4 | 4478.0 | 4476.7 | 4471.3 | 4464.6 |
| 32.5° | 4764.2 | 4761.5 | 4773.6 | 4765.6 | 4744.1 | 4732.0 | 4721.2 | 4715.8 |
| 35° | 5066.7 | 5068.0 | 5082.7 | 5077.4 | 5053.2 | 5045.1 | 5026.4 | 5023.6 |
| 37.5° | 5397.3 | 5418.7 | 5444.3 | 5449.7 | 5429.5 | 5424.1 | 5404.0 | 5393.2 |
| 40° | 5785.6 | 5813.9 | 5852.8 | 5862.3 | 5840.8 | 5836.7 | 5808.4 | 5793.7 |
| 42.5° | 6199.6 | 6248.0 | 6296.4 | 6304.4 | 6283.0 | 6261.4 | 6234.6 | 6223.7 |
| 45° | 6661.9 | 6719.7 | 6782.9 | 6798.9 | 6766.8 | 6741.2 | 6706.3 | 6706.3 |
| 47.5° | 7180.6 | 7253.1 | 7324.4 | 7368.8 | 7339.3 | 7312.4 | 7270.6 | 7243.8 |
| 50° | 7793.5 | 7892.9 | 7985.6 | 8031.3 | 7984.3 | 7933.2 | 7860.6 | 7836.5 |
| 52.5° | 8562.2 | 8669.7 | 8750.3 | 8726.2 | 8653.7 | 8582.5 | 8503.1 | 8470.9 |
| 55° | 9543.2 | 9579.7 | 9579.7 | 9488.2 | 9343.1 | 9223.4 | 9098.4 | 9056.8 |
| 57.5° | 10770.3 | 10630.5 | 10415.4 | 10142.6 | 9800.0 | 9501.6 | 9300.0 | 9204.6 |
| 60° | 12212.4 | 11540.4 | 10781.0 | 10035.1 | 9422.3 | 8916.9 | 8617.3 | 8480.2 |
| 62.5° | 13173.3 | 11415.4 | 9894.1 | 8696.6 | 7815.0 | 7206.2 | 6792.2 | 6631.0 |
| 65° | 12311.8 | 9520.5 | 7483.0 | 6050.4 | 5089.6 | 4469.9 | 4060.1 | 3909.6 |
| 67.5° | 9017.8 | 5965.8 | 3984.8 | 2855.8 | 2092.6 | 1669.2 | 1501.2 | 1431.3 |
| 70° | 4047.9 | 2100.6 | 1287.5 | 1005.3 | 866.9 | 795.6 | 764.7 | 754.0 |
| 72.5° | 1220.3 | 883.0 | 744.5 | 672.0 | 616.9 | 582.0 | 556.3 | 553.7 |
| 75° | 736.5 | 612.8 | 544.3 | 501.3 | 466.3 | 438.1 | 424.7 | 420.6 |
| 77.5° | 514.7 | 450.2 | 417.9 | 387.1 | 360.2 | 338.7 | 326.5 | 317.2 |
| 80° | 361.5 | 330.6 | 315.9 | 298.4 | 280.9 | 260.7 | 243.2 | 235.2 |
| 82.5° | 241.9 | 235.2 | 235.2 | 224.4 | 209.7 | 190.8 | 155.9 | 147.8 |
| 85° | 155.9 | 154.6 | 157.3 | 153.2 | 142.5 | 122.3 | 100.8 | 95.4 |
| 87.5° | 72.5 | 74.0 | 82.0 | 80.7 | 77.9 | 64.5 | 51.1 | 48.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)