

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: P233399

Luminaire Tested: **UFLD-C40-X-U-66-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-16-1196-2)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UFLD-C40-X-U-66-7050
Description: NIGHT FALCON LED FLOOD LIGHT
Light Source: (2) 5000K CCT, 72 CRI LEDS
Ballast/Driver: PHILLIPS
XI150C150V100CNF1

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16872.5 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1.33' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

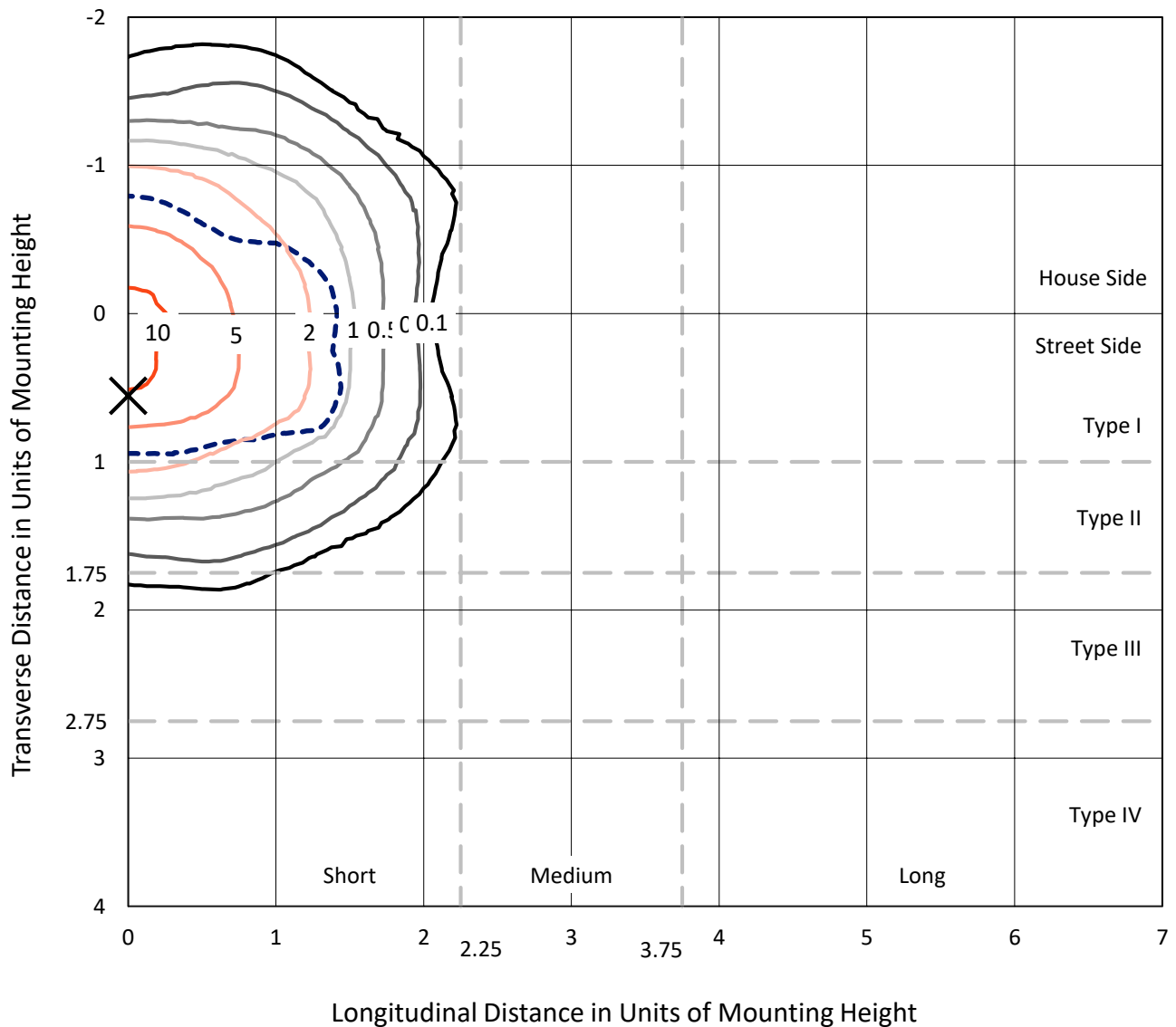
Input Watts (W): 127.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

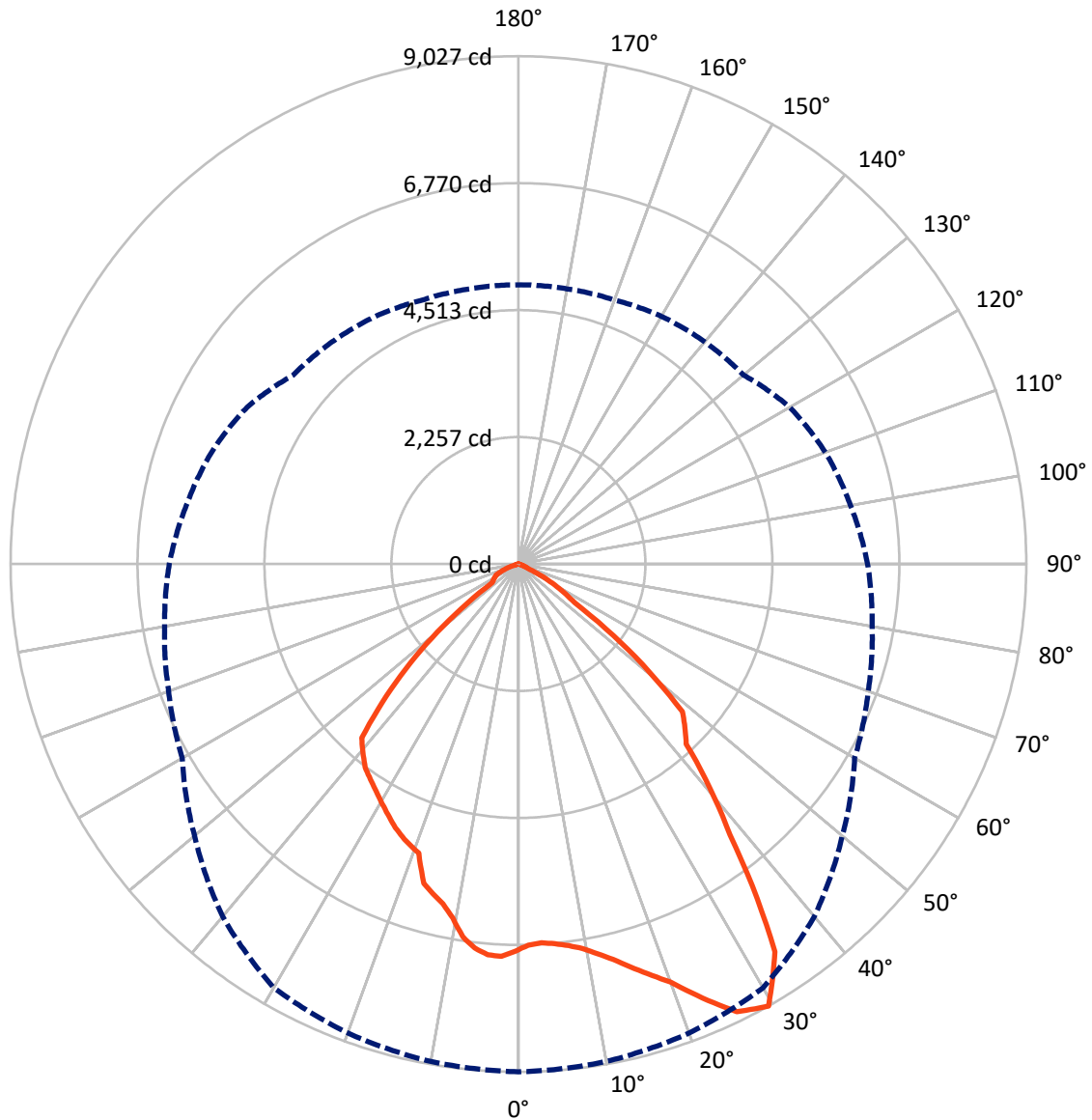


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 29-Deg Vertical

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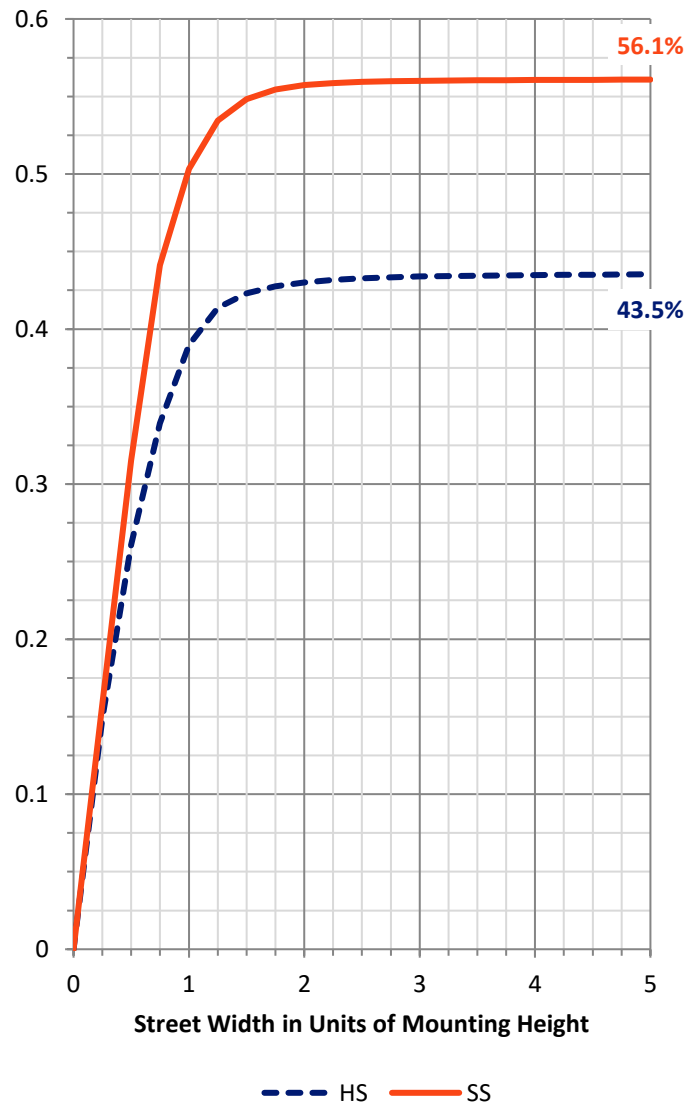
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7410.7 | 0.0 | 7410.7 |
| | % Fixture | 43.9 | 0.0 | 43.9 |
| Street Side | Lumens | 9461.8 | 0.0 | 9461.8 |
| | % Fixture | 56.1 | 0.0 | 56.1 |
| Total | Lumens | 16872.5 | 0.0 | 16872.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 653.7 | 3.9 |
| 10°-20° | 1905.2 | 11.3 |
| 20°-30° | 3063.8 | 18.2 |
| 30°-40° | 3782.9 | 22.4 |
| 40°-50° | 3727.9 | 22.1 |
| 50°-60° | 2619.4 | 15.5 |
| 60°-70° | 1096.3 | 6.5 |
| 70°-80° | 231.6 | 1.4 |
| 80°-90° | 31.4 | 0.2 |
| 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° | 16872.5 | 100.0 |
| 0°-180° | 16872.5 | 100.0 |



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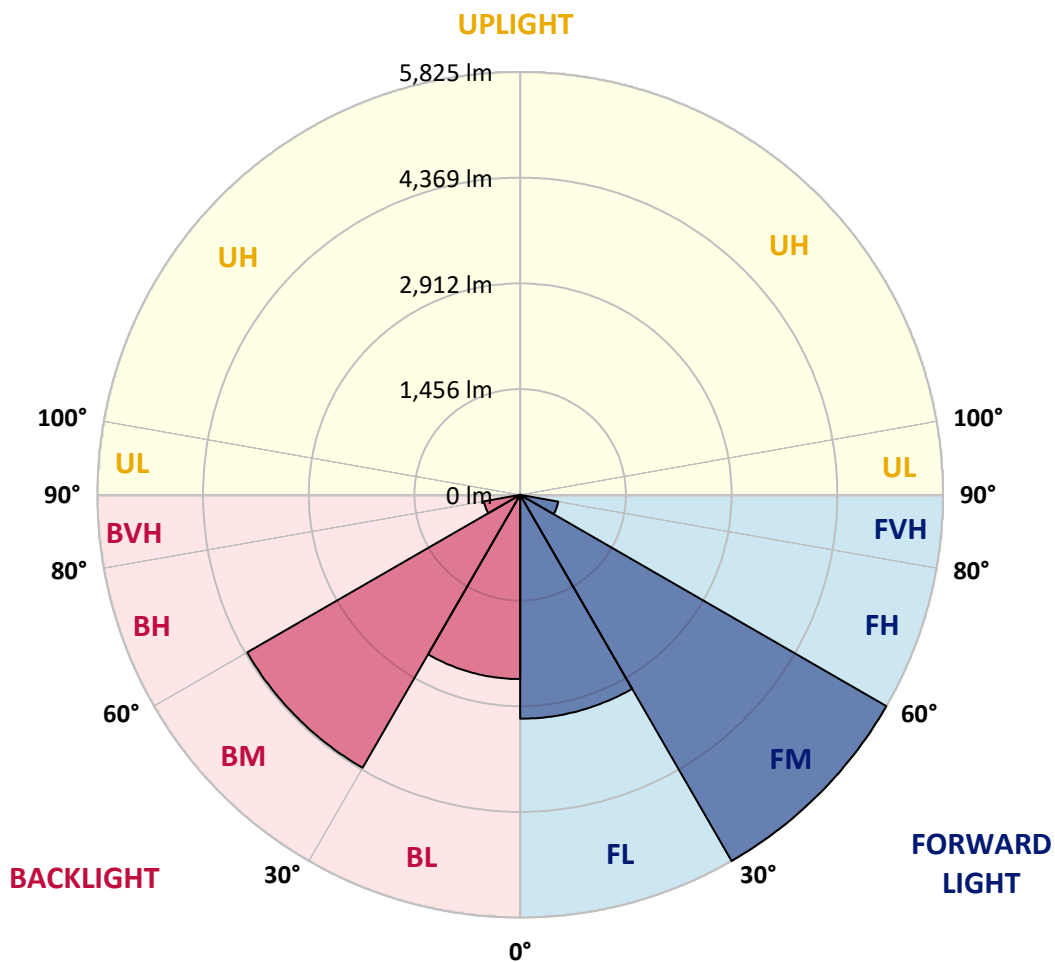
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3084.6 | 18.3 | | | |
| FM | (30°-60°) | 5824.9 | 34.5 | | | |
| FH | (60°-80°) | 531.5 | 3.1 | | | G0/660 |
| FVH | (80°-90°) | 13.0 | 0.1 | | | G1/100 |
| BL | (0°-30°) | 2537.8 | 15.0 | B4/5000 | | |
| BM | (30°-60°) | 4341.9 | 25.7 | B3/5000 | | |
| BH | (60°-80°) | 506.8 | 3.0 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 17.9 | 0.1 | | | 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 I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | 90° | 100° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 |
| 1° | 6777.0 | 6778.4 | 6781.4 | 6785.6 | 6791.1 | 6797.6 | 6805.0 | 6813.0 | 6821.4 | 6829.9 | 6839.4 |
| 3° | 6744.1 | 6744.4 | 6746.7 | 6754.6 | 6763.8 | 6774.1 | 6785.3 | 6796.8 | 6822.5 | 6848.9 | 6874.5 |
| 5° | 6779.0 | 6778.5 | 6774.7 | 6770.4 | 6766.7 | 6762.1 | 6772.6 | 6792.4 | 6817.0 | 6861.8 | 6899.7 |
| 7° | 6838.9 | 6833.5 | 6822.5 | 6806.3 | 6787.6 | 6774.6 | 6767.6 | 6784.5 | 6826.1 | 6878.8 | 6921.1 |
| 9° | 6929.7 | 6921.7 | 6900.3 | 6860.8 | 6816.8 | 6789.1 | 6772.9 | 6772.6 | 6827.4 | 6886.8 | 6922.7 |
| 11° | 7069.4 | 7055.2 | 7014.6 | 6944.5 | 6873.3 | 6807.7 | 6779.7 | 6781.7 | 6832.7 | 6887.8 | 6897.4 |
| 13° | 7228.1 | 7206.8 | 7149.2 | 7064.6 | 6954.4 | 6848.0 | 6784.0 | 6784.9 | 6839.8 | 6881.8 | 6861.8 |
| 15° | 7429.7 | 7398.7 | 7311.6 | 7188.6 | 7050.2 | 6908.0 | 6802.6 | 6792.4 | 6865.4 | 6870.8 | 6811.5 |
| 17° | 7634.3 | 7604.8 | 7505.9 | 7335.9 | 7148.9 | 6980.9 | 6830.9 | 6801.1 | 6865.7 | 6843.9 | 6730.5 |
| 19.5° | 7904.8 | 7893.5 | 7771.4 | 7549.1 | 7292.9 | 7062.3 | 6876.5 | 6788.8 | 6825.2 | 7003.6 | 6612.8 |
| 22.5° | 8377.9 | 8337.6 | 8156.5 | 7858.2 | 7518.2 | 7182.1 | 6907.5 | 6754.9 | 6720.5 | 6857.8 | 6420.5 |
| 25.5° | 8854.0 | 8785.6 | 8576.3 | 8259.7 | 7822.1 | 7362.4 | 6919.9 | 6675.5 | 6581.7 | 6442.6 | 6227.7 |
| 29° | 9026.7 | 8979.4 | 8871.6 | 8695.6 | 8181.3 | 7514.9 | 6900.0 | 6615.1 | 6384.3 | 6205.1 | 5994.4 |
| 33° | 8260.1 | 8242.3 | 8431.3 | 8758.9 | 8406.3 | 7636.3 | 6922.9 | 6575.2 | 6174.6 | 5819.8 | 5657.9 |
| 37.5° | 6112.3 | 6218.4 | 6793.6 | 7644.9 | 8029.3 | 7742.7 | 7008.4 | 6556.0 | 5981.5 | 5606.2 | 5346.2 |
| 42.5° | 4374.6 | 4504.9 | 4923.9 | 5447.8 | 6398.9 | 7267.7 | 7146.3 | 6593.1 | 5790.0 | 5506.4 | 5208.6 |
| 47.5° | 3922.5 | 3884.8 | 3959.9 | 3996.4 | 4509.9 | 5842.1 | 7016.0 | 6537.3 | 5483.9 | 5287.9 | 5138.8 |
| 55° | 1211.7 | 1400.9 | 1873.6 | 2323.7 | 2972.5 | 3352.7 | 5186.8 | 5171.2 | 4389.9 | 4565.2 | 4288.4 |
| 65° | 173.7 | 197.5 | 414.2 | 417.5 | 601.1 | 972.5 | 1214.1 | 1317.4 | 837.9 | 246.5 | 829.2 |
| 75° | 24.0 | 29.2 | 47.7 | 43.5 | 48.1 | 46.3 | 77.4 | 87.5 | 87.4 | 147.7 | 133.9 |
| 85° | 1.0 | 17.0 | 24.8 | 24.9 | 26.9 | 27.2 | 30.8 | 32.5 | 31.5 | 34.9 | 36.0 |
| 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):

| | 110° | 120° | 130° | 140° | 150° | 160° | 170° | 180° | 190° | 200° | 210° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 |
| 1° | 6848.5 | 6857.1 | 6864.8 | 6871.4 | 6876.8 | 6880.8 | 6883.1 | 6883.8 | 6883.1 | 6880.8 | 6876.8 |
| 3° | 6898.7 | 6917.9 | 6935.4 | 6950.9 | 6963.9 | 6973.8 | 6979.4 | 6980.6 | 6979.4 | 6973.8 | 6963.9 |
| 5° | 6931.3 | 6961.2 | 6978.5 | 6973.9 | 6971.0 | 6969.2 | 6968.7 | 6965.6 | 6968.7 | 6969.2 | 6971.0 |
| 7° | 6953.7 | 6962.6 | 6947.2 | 6926.0 | 6900.3 | 6882.8 | 6874.5 | 6869.8 | 6874.5 | 6882.8 | 6900.3 |
| 9° | 6946.4 | 6915.1 | 6872.0 | 6820.5 | 6761.2 | 6723.4 | 6701.8 | 6697.1 | 6701.8 | 6723.4 | 6761.2 |
| 11° | 6879.2 | 6813.1 | 6732.2 | 6642.6 | 6559.2 | 6478.9 | 6420.2 | 6400.7 | 6420.2 | 6478.9 | 6559.2 |
| 13° | 6799.8 | 6683.3 | 6544.7 | 6431.3 | 6328.2 | 6257.2 | 6204.7 | 6187.1 | 6204.7 | 6257.2 | 6328.2 |
| 15° | 6696.8 | 6533.1 | 6377.6 | 6261.9 | 6157.6 | 6101.2 | 6066.9 | 6056.4 | 6066.9 | 6101.2 | 6157.6 |
| 17° | 6559.3 | 6382.9 | 6248.7 | 6134.3 | 6040.0 | 5974.8 | 5934.7 | 5918.6 | 5934.7 | 5974.8 | 6040.0 |
| 19.5° | 6415.4 | 6265.0 | 6125.9 | 5987.3 | 5885.2 | 5644.0 | 5498.0 | 5436.6 | 5498.0 | 5644.0 | 5885.2 |
| 22.5° | 6278.6 | 6138.2 | 5937.1 | 5755.6 | 5428.5 | 5354.2 | 5326.3 | 5315.8 | 5326.3 | 5354.2 | 5428.5 |
| 25.5° | 6095.0 | 5909.0 | 5747.6 | 5370.0 | 5279.8 | 5206.7 | 5179.1 | 5172.1 | 5179.1 | 5206.7 | 5279.8 |
| 29° | 5805.5 | 5569.6 | 5224.1 | 5152.8 | 5082.9 | 4992.0 | 4965.9 | 4961.5 | 4965.9 | 4992.0 | 5082.9 |
| 33° | 5449.3 | 5156.0 | 4871.6 | 4853.9 | 4774.4 | 4736.2 | 4729.7 | 4739.9 | 4729.7 | 4736.2 | 4774.4 |
| 37.5° | 5105.7 | 4773.3 | 4582.1 | 4491.9 | 4472.7 | 4499.9 | 4513.6 | 4525.3 | 4513.6 | 4499.9 | 4472.7 |
| 42.5° | 4840.2 | 4500.1 | 4250.4 | 4159.4 | 4179.6 | 4168.4 | 4167.2 | 4162.0 | 4167.2 | 4168.4 | 4179.6 |
| 47.5° | 4680.1 | 4315.6 | 3914.6 | 3809.7 | 3640.8 | 3180.6 | 2889.1 | 2751.7 | 2889.1 | 3180.6 | 3640.8 |
| 55° | 4025.3 | 3953.2 | 3299.5 | 2463.8 | 1684.8 | 1107.4 | 766.2 | 568.9 | 766.2 | 1107.4 | 1684.8 |
| 65° | 1288.8 | 991.6 | 597.2 | 452.3 | 541.4 | 472.5 | 428.1 | 426.2 | 428.1 | 472.5 | 541.4 |
| 75° | 168.8 | 125.9 | 126.7 | 90.1 | 115.4 | 94.9 | 61.0 | 48.9 | 61.0 | 94.9 | 115.4 |
| 85° | 34.2 | 31.5 | 31.5 | 29.7 | 28.3 | 32.5 | 28.1 | 2.0 | 28.1 | 32.5 | 28.3 |
| 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):

| | 220° | 230° | 240° | 250° | 260° | 270° | 280° | 290° | 300° | 310° | 320° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 | 6826.9 |
| 1° | 6871.4 | 6864.8 | 6857.1 | 6848.5 | 6839.4 | 6829.9 | 6821.4 | 6813.0 | 6805.0 | 6797.6 | 6791.1 |
| 3° | 6950.9 | 6935.4 | 6917.9 | 6898.7 | 6874.5 | 6848.9 | 6822.5 | 6796.8 | 6785.3 | 6774.1 | 6763.8 |
| 5° | 6973.9 | 6978.5 | 6961.2 | 6931.3 | 6899.7 | 6861.8 | 6817.0 | 6792.4 | 6772.6 | 6762.1 | 6766.7 |
| 7° | 6926.0 | 6947.2 | 6962.6 | 6953.7 | 6921.1 | 6878.8 | 6826.1 | 6784.5 | 6767.6 | 6774.6 | 6787.6 |
| 9° | 6820.5 | 6872.0 | 6915.1 | 6946.4 | 6922.7 | 6886.8 | 6827.4 | 6772.6 | 6772.9 | 6789.1 | 6816.8 |
| 11° | 6642.6 | 6732.2 | 6813.1 | 6879.2 | 6897.4 | 6887.8 | 6832.7 | 6781.7 | 6779.7 | 6807.7 | 6873.3 |
| 13° | 6431.3 | 6544.7 | 6683.3 | 6799.8 | 6861.8 | 6881.8 | 6839.8 | 6784.9 | 6784.0 | 6848.0 | 6954.4 |
| 15° | 6261.9 | 6377.6 | 6533.1 | 6696.8 | 6811.5 | 6870.8 | 6865.4 | 6792.4 | 6802.6 | 6908.0 | 7050.2 |
| 17° | 6134.3 | 6248.7 | 6382.9 | 6559.3 | 6730.5 | 6843.9 | 6865.7 | 6801.1 | 6830.9 | 6980.9 | 7148.9 |
| 19.5° | 5987.3 | 6125.9 | 6265.0 | 6415.4 | 6612.8 | 7003.6 | 6825.2 | 6788.8 | 6876.5 | 7062.3 | 7292.9 |
| 22.5° | 5755.6 | 5937.1 | 6138.2 | 6278.6 | 6420.5 | 6857.8 | 6720.5 | 6754.9 | 6907.5 | 7182.1 | 7518.2 |
| 25.5° | 5370.0 | 5747.6 | 5909.0 | 6095.0 | 6227.7 | 6442.6 | 6581.7 | 6675.5 | 6919.9 | 7362.4 | 7822.1 |
| 29° | 5152.8 | 5224.1 | 5569.6 | 5805.5 | 5994.4 | 6205.1 | 6384.3 | 6615.1 | 6900.0 | 7514.9 | 8181.3 |
| 33° | 4853.9 | 4871.6 | 5156.0 | 5449.3 | 5657.9 | 5819.8 | 6174.6 | 6575.2 | 6922.9 | 7636.3 | 8406.3 |
| 37.5° | 4491.9 | 4582.1 | 4773.3 | 5105.7 | 5346.2 | 5606.2 | 5981.5 | 6556.0 | 7008.4 | 7742.7 | 8029.3 |
| 42.5° | 4159.4 | 4250.4 | 4500.1 | 4840.2 | 5208.6 | 5506.4 | 5790.0 | 6593.1 | 7146.3 | 7267.7 | 6398.9 |
| 47.5° | 3809.7 | 3914.6 | 4315.6 | 4680.1 | 5138.8 | 5287.9 | 5483.9 | 6537.3 | 7016.0 | 5842.1 | 4509.9 |
| 55° | 2463.8 | 3299.5 | 3953.2 | 4025.3 | 4288.4 | 4565.2 | 4389.9 | 5171.2 | 5186.8 | 3352.7 | 2972.5 |
| 65° | 452.3 | 597.2 | 991.6 | 1288.8 | 829.2 | 246.5 | 837.9 | 1317.4 | 1214.1 | 972.5 | 601.1 |
| 75° | 90.1 | 126.7 | 125.9 | 168.8 | 133.9 | 147.7 | 87.4 | 87.5 | 77.4 | 46.3 | 48.1 |
| 85° | 29.7 | 31.5 | 31.5 | 34.2 | 36.0 | 34.9 | 31.5 | 32.5 | 30.8 | 27.2 | 26.9 |
| 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):

| | 330° | 340° | 350° | 360° |
|-------|--------|--------|--------|--------|
| 0° | 6826.9 | 6826.9 | 6826.9 | 6826.9 |
| 1° | 6785.6 | 6781.4 | 6778.4 | 6777.0 |
| 3° | 6754.6 | 6746.7 | 6744.4 | 6744.1 |
| 5° | 6770.4 | 6774.7 | 6778.5 | 6779.0 |
| 7° | 6806.3 | 6822.5 | 6833.5 | 6838.9 |
| 9° | 6860.8 | 6900.3 | 6921.7 | 6929.7 |
| 11° | 6944.5 | 7014.6 | 7055.2 | 7069.4 |
| 13° | 7064.6 | 7149.2 | 7206.8 | 7228.1 |
| 15° | 7188.6 | 7311.6 | 7398.7 | 7429.7 |
| 17° | 7335.9 | 7505.9 | 7604.8 | 7634.3 |
| 19.5° | 7549.1 | 7771.4 | 7893.5 | 7904.8 |
| 22.5° | 7858.2 | 8156.5 | 8337.6 | 8377.9 |
| 25.5° | 8259.7 | 8576.3 | 8785.6 | 8854.0 |
| 29° | 8695.6 | 8871.6 | 8979.4 | 9026.7 |
| 33° | 8758.9 | 8431.3 | 8242.3 | 8260.1 |
| 37.5° | 7644.9 | 6793.6 | 6218.4 | 6112.3 |
| 42.5° | 5447.8 | 4923.9 | 4504.9 | 4374.6 |
| 47.5° | 3996.4 | 3959.9 | 3884.8 | 3922.5 |
| 55° | 2323.7 | 1873.6 | 1400.9 | 1211.7 |
| 65° | 417.5 | 414.2 | 197.5 | 173.7 |
| 75° | 43.5 | 47.7 | 29.2 | 24.0 |
| 85° | 24.9 | 24.8 | 17.0 | 1.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)