

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: P193408

Luminaire Tested: **GAN-AF-10-LED-U-5NQ-8030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193408
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-10-LED-U-5NQ-8030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54402 lumens
Efficiency: N/A
Efficacy: 85.0 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): 640
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

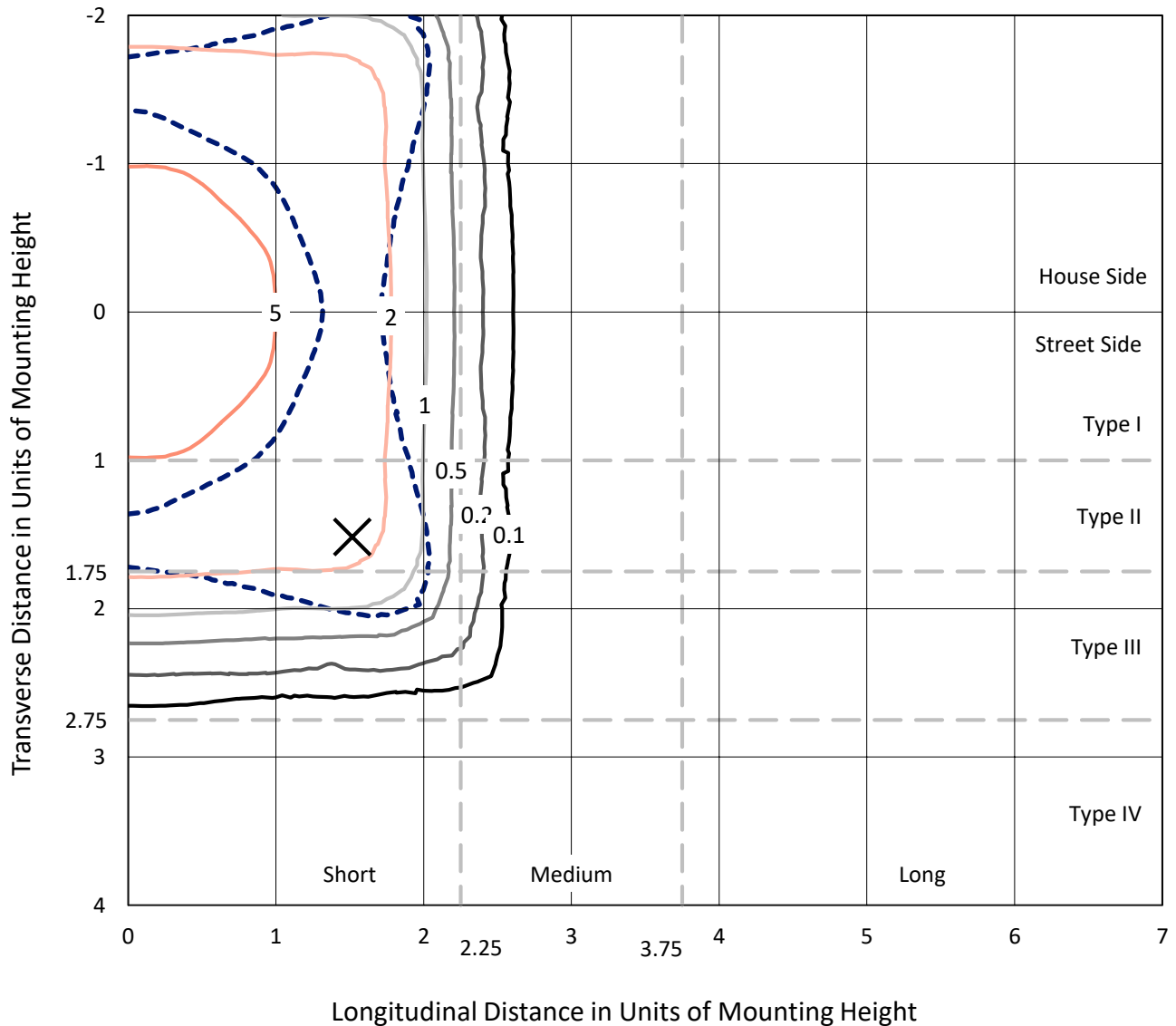


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

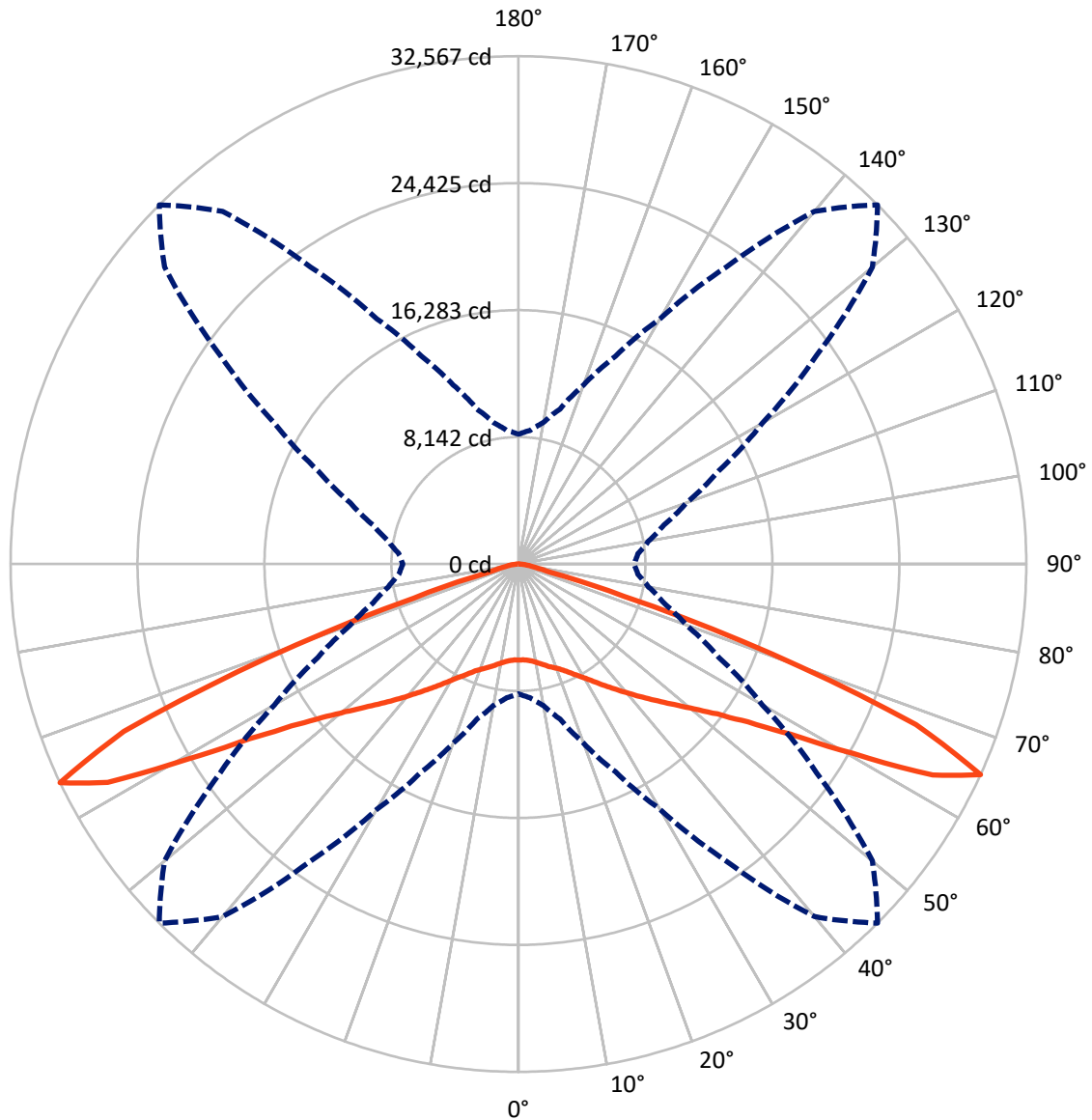


Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type V - Short - Full Cutoff

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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 | 27201.0 | 0.0 | 27201.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 27201.0 | 0.0 | 27201.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 54402.0 | 0.0 | 54402.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 600.0 | 1.1 |
| 10°-20° | 1924.2 | 3.5 |
| 20°-30° | 3597.9 | 6.6 |
| 30°-40° | 6085.1 | 11.2 |
| 40°-50° | 9949.8 | 18.3 |
| 50°-60° | 15821.8 | 29.1 |
| 60°-70° | 14301.8 | 26.3 |
| 70°-80° | 1810.0 | 3.3 |
| 80°-90° | 311.4 | 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° | 54402.0 | 100.0 |
| 0°-180° | 54402.0 | 100.0 |



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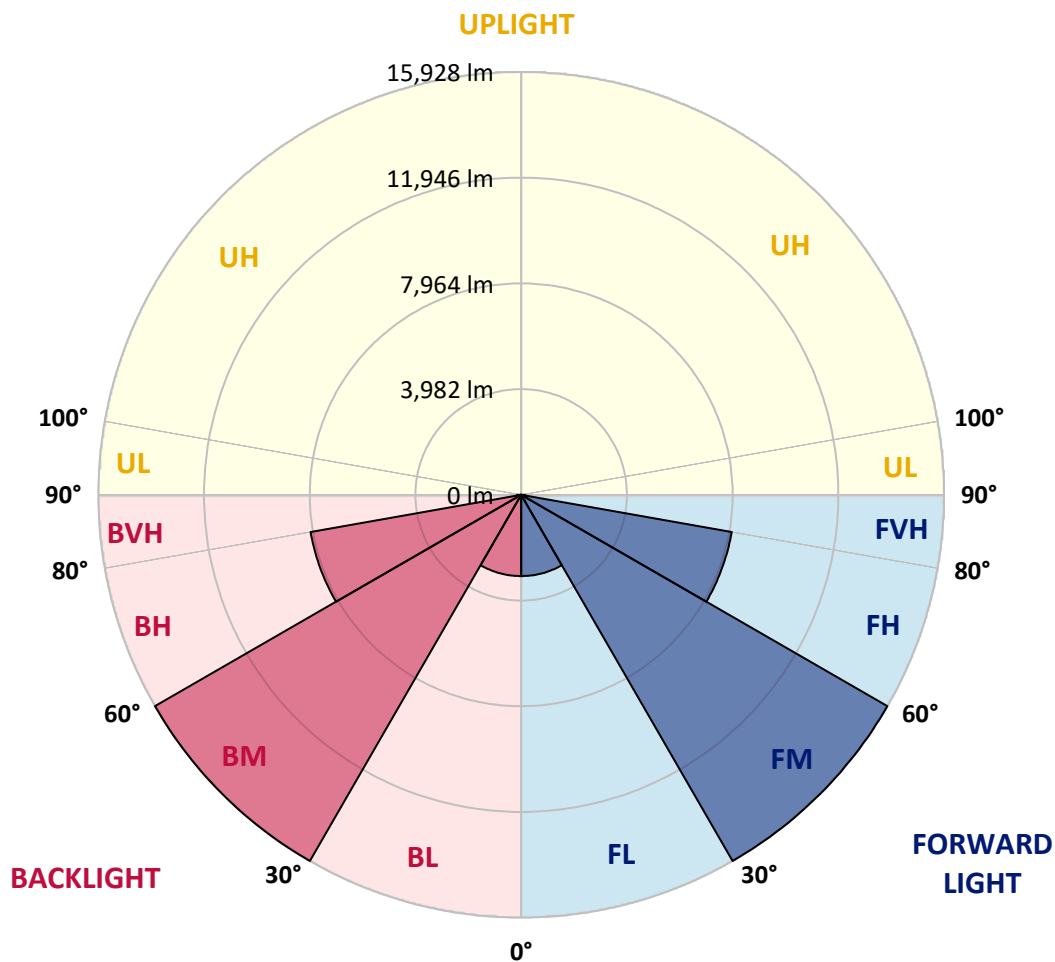
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3061.1 | 5.6 | | | |
| FM | (30°-60°) | 15928.3 | 29.3 | | | |
| FH | (60°-80°) | 8055.9 | 14.8 | | | G4/12000 |
| FVH | (80°-90°) | 155.7 | 0.3 | | | G2/225 |
| BL | (0°-30°) | 3061.1 | 5.6 | B4/5000 | | |
| BM | (30°-60°) | 15928.3 | 29.3 | B5 | | |
| BH | (60°-80°) | 8055.9 | 14.8 | B5 | | G4/12000 |
| BVH | (80°-90°) | 155.7 | 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° | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 |
| 2.5° | 6160.7 | 6165.8 | 6170.9 | 6165.8 | 6170.9 | 6163.3 | 6158.2 | 6165.8 | 6158.2 | 6150.5 | 6155.6 |
| 5° | 6214.2 | 6216.8 | 6216.8 | 6209.1 | 6216.8 | 6211.7 | 6204.0 | 6214.2 | 6206.6 | 6198.9 | 6204.0 |
| 7.5° | 6303.4 | 6313.6 | 6305.9 | 6298.3 | 6303.4 | 6298.3 | 6293.2 | 6295.7 | 6293.2 | 6285.6 | 6288.1 |
| 10° | 6423.1 | 6430.8 | 6425.7 | 6423.1 | 6428.2 | 6425.7 | 6420.6 | 6418.0 | 6420.6 | 6412.9 | 6412.9 |
| 12.5° | 6568.4 | 6565.8 | 6563.3 | 6565.8 | 6573.5 | 6573.5 | 6570.9 | 6573.5 | 6578.6 | 6581.1 | 6576.0 |
| 15° | 6711.0 | 6716.1 | 6716.1 | 6716.1 | 6731.4 | 6744.2 | 6751.8 | 6756.9 | 6767.1 | 6769.6 | 6759.5 |
| 17.5° | 6889.4 | 6889.4 | 6886.8 | 6889.4 | 6904.7 | 6925.1 | 6932.7 | 6942.9 | 6953.1 | 6960.7 | 6948.0 |
| 20° | 7088.1 | 7093.2 | 7093.2 | 7098.3 | 7118.7 | 7141.6 | 7141.6 | 7146.7 | 7141.6 | 7146.7 | 7139.1 |
| 22.5° | 7330.2 | 7345.5 | 7345.5 | 7348.0 | 7368.4 | 7396.4 | 7388.8 | 7396.4 | 7383.7 | 7393.9 | 7383.7 |
| 25° | 7646.1 | 7669.0 | 7663.9 | 7663.9 | 7679.2 | 7697.1 | 7699.6 | 7714.9 | 7712.4 | 7725.1 | 7717.5 |
| 27.5° | 8002.8 | 8038.5 | 8048.7 | 8046.1 | 8056.3 | 8074.1 | 8079.2 | 8097.1 | 8086.9 | 8097.1 | 8092.0 |
| 30° | 8430.8 | 8446.1 | 8466.5 | 8474.2 | 8486.9 | 8504.7 | 8504.7 | 8507.3 | 8494.5 | 8509.8 | 8517.5 |
| 32.5° | 8874.2 | 8902.2 | 8922.6 | 8968.4 | 8991.4 | 9004.1 | 9001.6 | 9006.7 | 8993.9 | 9014.3 | 9029.6 |
| 35° | 9460.2 | 9480.6 | 9513.7 | 9549.4 | 9579.9 | 9577.4 | 9569.7 | 9572.3 | 9572.3 | 9590.1 | 9605.4 |
| 37.5° | 10165.9 | 10171.0 | 10214.3 | 10265.3 | 10280.6 | 10265.3 | 10219.4 | 10209.3 | 10186.3 | 10209.3 | 10234.7 |
| 40° | 10912.5 | 10930.3 | 11016.9 | 11050.0 | 11057.7 | 11029.7 | 10963.4 | 10925.2 | 10874.2 | 10902.3 | 10937.9 |
| 42.5° | 11694.7 | 11730.3 | 11809.3 | 11867.9 | 11893.4 | 11875.5 | 11783.8 | 11725.2 | 11659.0 | 11674.3 | 11709.9 |
| 45° | 12560.9 | 12604.2 | 12716.3 | 12772.4 | 12820.8 | 12792.8 | 12703.6 | 12614.4 | 12510.0 | 12517.6 | 12573.7 |
| 47.5° | 13529.1 | 13572.4 | 13717.6 | 13811.9 | 13837.4 | 13832.3 | 13732.9 | 13610.6 | 13468.0 | 13462.9 | 13511.3 |
| 50° | 14614.5 | 14657.8 | 14838.7 | 14983.9 | 15057.8 | 15050.2 | 14933.0 | 14759.7 | 14586.5 | 14589.0 | 14650.2 |
| 52.5° | 15674.4 | 15727.9 | 15916.4 | 16166.1 | 16311.4 | 16415.8 | 16344.5 | 16181.4 | 15969.9 | 15975.0 | 16031.1 |
| 55° | 16668.1 | 16757.2 | 16973.8 | 17312.7 | 17582.7 | 17875.7 | 17959.8 | 17954.7 | 17827.3 | 17863.0 | 17919.1 |
| 57.5° | 17149.6 | 17282.1 | 17615.9 | 18150.9 | 18701.2 | 19297.4 | 19801.9 | 20179.0 | 20339.5 | 20581.6 | 20525.5 |
| 60° | 16237.5 | 16448.9 | 16940.7 | 17728.0 | 18815.9 | 20059.3 | 21391.8 | 22693.7 | 23804.6 | 24642.8 | 24161.3 |
| 62.5° | 13294.7 | 13569.9 | 14166.1 | 15175.0 | 16820.9 | 18810.8 | 21361.2 | 24439.0 | 27792.0 | 29815.0 | 28370.4 |
| 65° | 8318.7 | 8604.1 | 9210.5 | 10290.8 | 12217.0 | 14690.9 | 18150.9 | 23251.7 | 29516.9 | 32566.7 | 29626.4 |
| 67.5° | 3243.4 | 3398.8 | 3727.5 | 4418.0 | 5865.2 | 8066.5 | 11539.2 | 17328.0 | 24821.2 | 27493.9 | 24360.0 |
| 70° | 1625.5 | 1640.8 | 1702.0 | 1829.4 | 2140.2 | 2779.7 | 4229.4 | 8033.4 | 14234.9 | 17192.9 | 13722.7 |
| 72.5° | 1174.6 | 1177.1 | 1207.7 | 1263.7 | 1363.1 | 1505.8 | 1781.0 | 2458.7 | 4629.5 | 7075.4 | 4339.0 |
| 75° | 899.4 | 909.6 | 927.4 | 958.0 | 1011.5 | 1082.8 | 1182.2 | 1416.6 | 1755.5 | 2035.7 | 1712.2 |
| 77.5° | 693.0 | 713.4 | 726.1 | 754.2 | 787.3 | 835.7 | 863.7 | 952.9 | 1108.3 | 1166.9 | 1149.1 |
| 80° | 527.4 | 545.2 | 573.3 | 596.2 | 619.1 | 642.1 | 631.9 | 672.6 | 754.2 | 802.6 | 777.1 |
| 82.5° | 336.3 | 356.7 | 438.2 | 458.6 | 468.8 | 484.1 | 466.3 | 468.8 | 504.5 | 535.0 | 504.5 |
| 85° | 216.6 | 229.3 | 277.7 | 303.2 | 305.7 | 315.9 | 308.3 | 290.5 | 290.5 | 265.0 | 298.1 |
| 87.5° | 99.4 | 101.9 | 124.8 | 147.8 | 152.9 | 137.6 | 135.0 | 129.9 | 104.5 | 99.4 | 107.0 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 | 6155.6 |
| 2.5° | 6153.1 | 6158.2 | 6160.7 | 6168.4 | 6170.9 | 6170.9 | 6173.5 | 6178.5 |
| 5° | 6201.5 | 6209.1 | 6211.7 | 6221.9 | 6224.4 | 6221.9 | 6227.0 | 6229.5 |
| 7.5° | 6288.1 | 6300.8 | 6305.9 | 6316.1 | 6308.5 | 6318.7 | 6321.2 | 6321.2 |
| 10° | 6415.5 | 6428.2 | 6430.8 | 6441.0 | 6435.9 | 6441.0 | 6441.0 | 6435.9 |
| 12.5° | 6583.7 | 6586.2 | 6578.6 | 6586.2 | 6576.0 | 6581.1 | 6573.5 | 6568.4 |
| 15° | 6769.6 | 6762.0 | 6744.2 | 6744.2 | 6728.9 | 6731.4 | 6728.9 | 6726.3 |
| 17.5° | 6950.5 | 6935.3 | 6922.5 | 6917.4 | 6904.7 | 6902.1 | 6894.5 | 6894.5 |
| 20° | 7149.3 | 7141.6 | 7134.0 | 7123.8 | 7111.1 | 7098.3 | 7095.8 | 7100.9 |
| 22.5° | 7388.8 | 7386.2 | 7386.2 | 7381.1 | 7363.3 | 7350.6 | 7342.9 | 7342.9 |
| 25° | 7709.8 | 7686.9 | 7686.9 | 7684.3 | 7676.7 | 7669.0 | 7653.8 | 7661.4 |
| 27.5° | 8071.6 | 8058.9 | 8069.1 | 8066.5 | 8058.9 | 8058.9 | 8048.7 | 8048.7 |
| 30° | 8517.5 | 8512.4 | 8527.7 | 8514.9 | 8489.4 | 8486.9 | 8476.7 | 8464.0 |
| 32.5° | 9032.1 | 9027.0 | 9050.0 | 9034.7 | 8993.9 | 8971.0 | 8950.6 | 8940.4 |
| 35° | 9605.4 | 9608.0 | 9636.0 | 9625.8 | 9579.9 | 9564.6 | 9529.0 | 9523.9 |
| 37.5° | 10232.2 | 10272.9 | 10321.4 | 10331.5 | 10293.3 | 10283.1 | 10244.9 | 10224.5 |
| 40° | 10968.5 | 11022.0 | 11095.9 | 11113.7 | 11073.0 | 11065.3 | 11011.8 | 10983.8 |
| 42.5° | 11753.3 | 11845.0 | 11936.7 | 11952.0 | 11911.2 | 11870.5 | 11819.5 | 11799.1 |
| 45° | 12629.7 | 12739.3 | 12859.0 | 12889.6 | 12828.4 | 12780.0 | 12713.8 | 12713.8 |
| 47.5° | 13613.2 | 13750.8 | 13885.8 | 13969.9 | 13913.8 | 13862.9 | 13783.9 | 13732.9 |
| 50° | 14775.0 | 14963.5 | 15139.3 | 15226.0 | 15136.8 | 15040.0 | 14902.4 | 14856.5 |
| 52.5° | 16232.4 | 16436.2 | 16589.1 | 16543.2 | 16405.6 | 16270.6 | 16120.3 | 16059.1 |
| 55° | 18092.3 | 18161.1 | 18161.1 | 17987.8 | 17712.7 | 17485.9 | 17249.0 | 17170.0 |
| 57.5° | 20418.5 | 20153.5 | 19745.9 | 19228.7 | 18579.0 | 18013.3 | 17631.2 | 17450.3 |
| 60° | 23152.4 | 21878.4 | 20438.9 | 19024.8 | 17863.0 | 16905.0 | 16336.8 | 16077.0 |
| 62.5° | 24974.1 | 21641.5 | 18757.3 | 16487.2 | 14815.8 | 13661.6 | 12876.9 | 12571.1 |
| 65° | 23340.9 | 18049.0 | 14186.5 | 11470.4 | 9648.7 | 8474.2 | 7697.1 | 7411.7 |
| 67.5° | 17096.1 | 11309.9 | 7554.4 | 5414.2 | 3967.0 | 3164.4 | 2846.0 | 2713.5 |
| 70° | 7674.1 | 3982.3 | 2440.8 | 1905.8 | 1643.4 | 1508.3 | 1449.7 | 1429.3 |
| 72.5° | 2313.5 | 1673.9 | 1411.5 | 1273.9 | 1169.5 | 1103.2 | 1054.8 | 1049.7 |
| 75° | 1396.2 | 1161.8 | 1031.9 | 950.3 | 884.1 | 830.6 | 805.1 | 797.5 |
| 77.5° | 975.8 | 853.5 | 792.4 | 733.8 | 682.8 | 642.1 | 619.1 | 601.3 |
| 80° | 685.4 | 626.8 | 598.7 | 565.6 | 532.5 | 494.3 | 461.2 | 445.9 |
| 82.5° | 458.6 | 445.9 | 445.9 | 425.5 | 397.5 | 361.8 | 295.6 | 280.3 |
| 85° | 295.6 | 293.0 | 298.1 | 290.5 | 270.1 | 231.9 | 191.1 | 180.9 |
| 87.5° | 137.6 | 140.1 | 155.4 | 152.9 | 147.8 | 122.3 | 96.8 | 91.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)