

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: P192568

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192568
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-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65667 lumens
Efficiency: N/A
Efficacy: 102.6 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 - G5

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

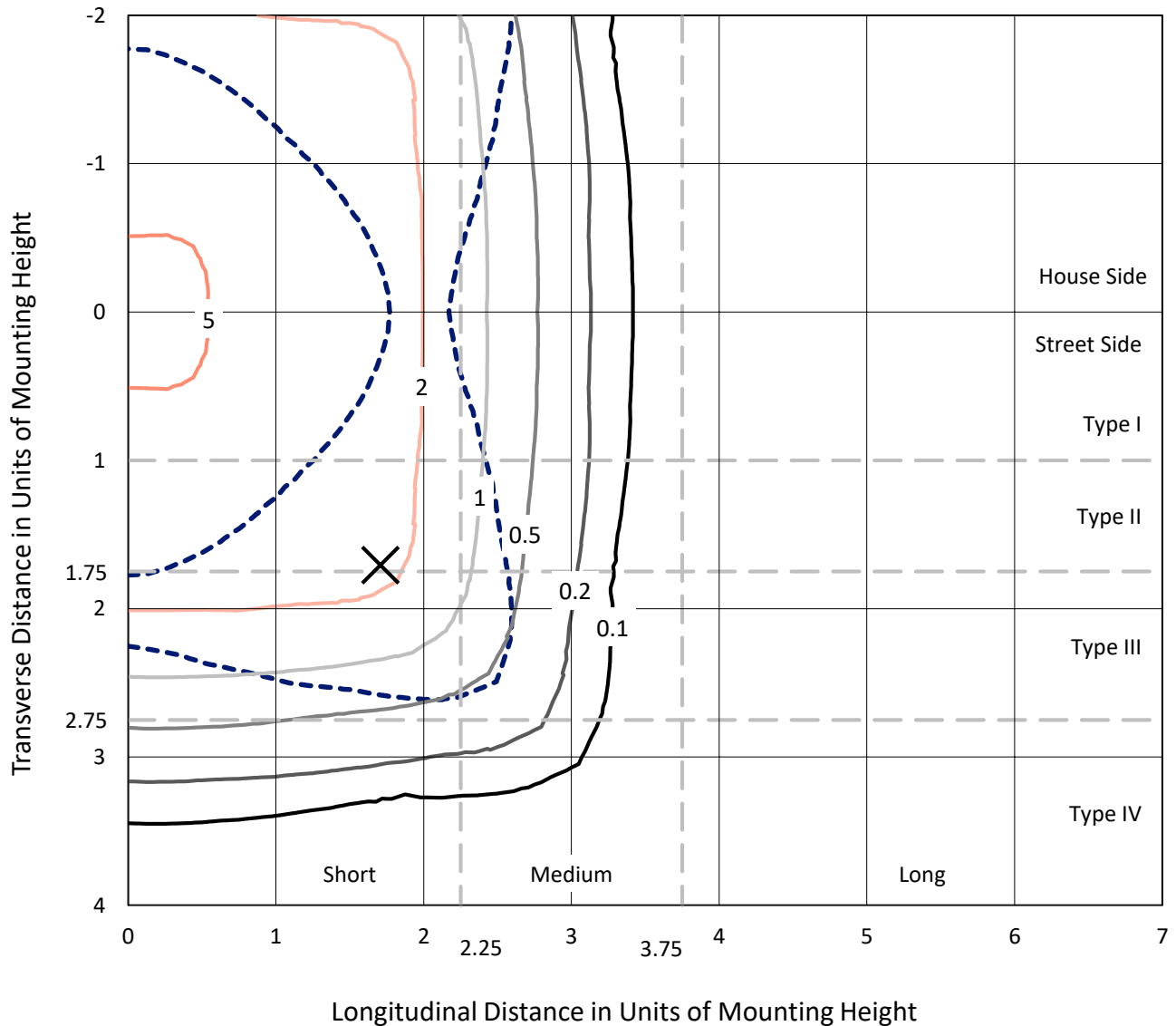


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

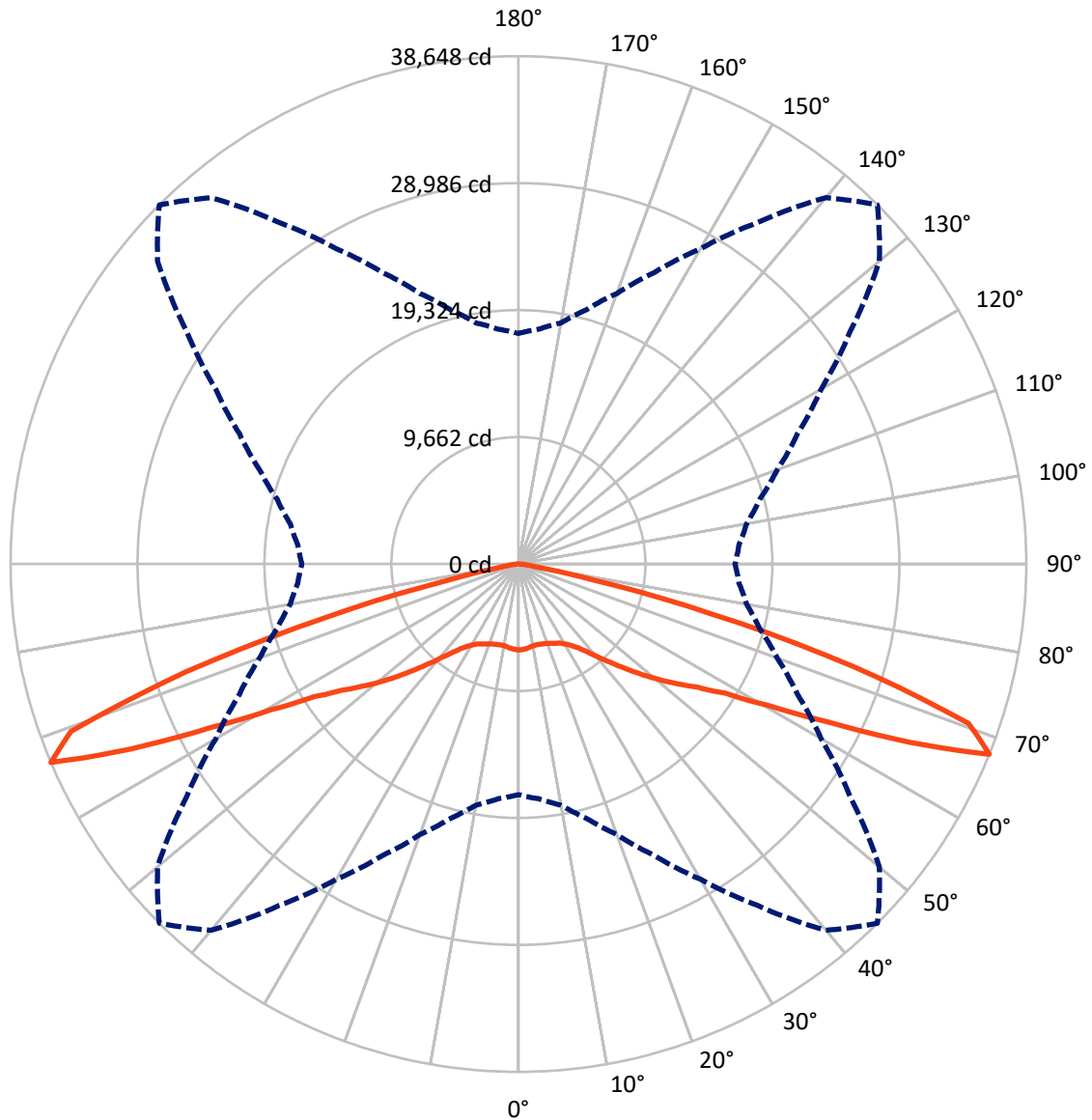


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Full Cutoff

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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 | 32833.5 | 0.0 | 32833.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 32833.5 | 0.0 | 32833.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 65667.0 | 0.0 | 65667.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 612.5 | 0.9 |
| 10°-20° | 1777.3 | 2.7 |
| 20°-30° | 3021.4 | 4.6 |
| 30°-40° | 4939.1 | 7.5 |
| 40°-50° | 8817.2 | 13.4 |
| 50°-60° | 14866.0 | 22.6 |
| 60°-70° | 23069.8 | 35.1 |
| 70°-80° | 8105.7 | 12.3 |
| 80°-90° | 458.1 | 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° | 65667.0 | 100.0 |
| 0°-180° | 65667.0 | 100.0 |



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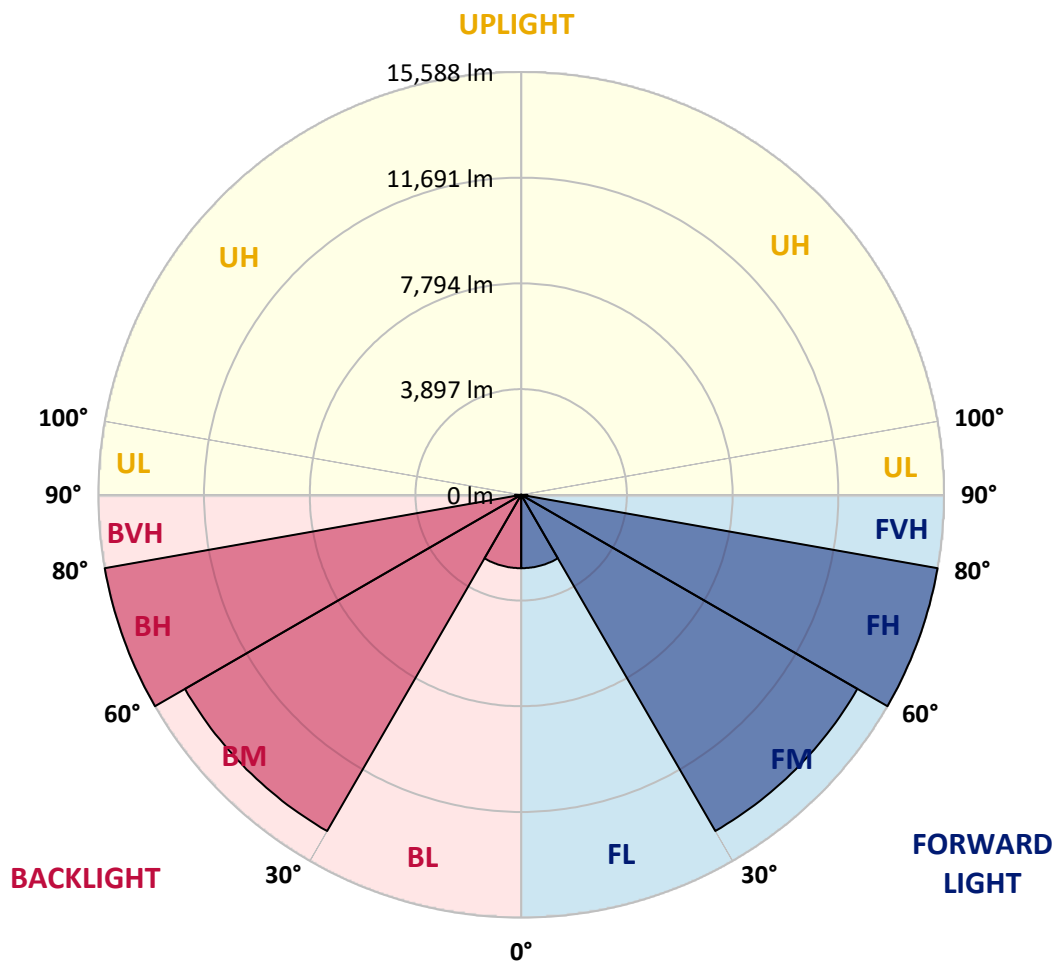
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 2705.6 | 4.1 | | | |
| FM | (30°-60°) | 14311.1 | 21.8 | | | |
| FH | (60°-80°) | 15587.7 | 23.7 | | | G5 |
| FVH | (80°-90°) | 229.0 | 0.3 | | | G3/500 |
| BL | (0°-30°) | 2705.6 | 4.1 | B4/5000 | | |
| BM | (30°-60°) | 14311.1 | 21.8 | B5 | | |
| BH | (60°-80°) | 15587.7 | 23.7 | B5 | | G5 |
| BVH | (80°-90°) | 229.0 | 0.3 | | | G3/500 |
| 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° | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 |
| 2.5° | 6519.8 | 6525.8 | 6525.8 | 6525.8 | 6522.9 | 6522.9 | 6516.8 | 6522.9 | 6519.8 | 6510.8 | 6513.8 |
| 5° | 6465.5 | 6471.5 | 6471.5 | 6468.4 | 6477.6 | 6474.4 | 6465.5 | 6471.5 | 6468.4 | 6462.4 | 6465.5 |
| 7.5° | 6387.0 | 6396.0 | 6396.0 | 6393.0 | 6402.0 | 6399.0 | 6393.0 | 6396.0 | 6396.0 | 6387.0 | 6387.0 |
| 10° | 6299.4 | 6305.5 | 6305.5 | 6302.4 | 6317.5 | 6317.5 | 6314.5 | 6323.6 | 6326.5 | 6317.5 | 6311.5 |
| 12.5° | 6217.8 | 6226.9 | 6226.9 | 6239.0 | 6254.1 | 6260.1 | 6275.2 | 6287.4 | 6299.4 | 6296.4 | 6284.3 |
| 15° | 6169.6 | 6175.6 | 6187.7 | 6202.7 | 6226.9 | 6248.1 | 6272.2 | 6299.4 | 6323.6 | 6329.6 | 6311.5 |
| 17.5° | 6139.4 | 6148.3 | 6166.5 | 6187.7 | 6220.9 | 6257.1 | 6293.4 | 6329.6 | 6362.8 | 6374.8 | 6353.8 |
| 20° | 6130.3 | 6136.3 | 6154.5 | 6190.6 | 6236.0 | 6290.3 | 6341.6 | 6383.9 | 6429.3 | 6444.3 | 6429.3 |
| 22.5° | 6148.3 | 6160.5 | 6181.6 | 6223.9 | 6284.3 | 6353.8 | 6414.2 | 6471.5 | 6528.9 | 6556.1 | 6534.9 |
| 25° | 6230.0 | 6242.0 | 6269.2 | 6323.6 | 6390.0 | 6462.4 | 6531.9 | 6598.3 | 6649.7 | 6676.9 | 6661.7 |
| 27.5° | 6381.0 | 6396.0 | 6429.3 | 6483.6 | 6556.1 | 6634.6 | 6710.0 | 6764.5 | 6806.8 | 6815.8 | 6797.7 |
| 30° | 6607.5 | 6640.7 | 6679.9 | 6740.3 | 6824.9 | 6891.3 | 6966.8 | 7015.1 | 7066.5 | 7066.5 | 7051.4 |
| 32.5° | 6960.7 | 6993.9 | 7036.2 | 7093.6 | 7160.1 | 7232.5 | 7298.9 | 7341.2 | 7395.5 | 7398.6 | 7362.3 |
| 35° | 7489.1 | 7504.3 | 7540.5 | 7576.8 | 7637.2 | 7700.6 | 7758.0 | 7785.2 | 7830.4 | 7833.5 | 7800.2 |
| 37.5° | 8186.8 | 8189.8 | 8214.0 | 8226.0 | 8280.4 | 8349.8 | 8404.2 | 8422.4 | 8464.7 | 8458.6 | 8425.3 |
| 40° | 8999.1 | 9014.2 | 9023.2 | 9041.4 | 9098.8 | 9165.2 | 9222.6 | 9231.7 | 9276.9 | 9267.9 | 9225.7 |
| 42.5° | 9938.3 | 9944.3 | 9995.7 | 10022.9 | 10077.2 | 10110.5 | 10182.9 | 10191.9 | 10246.4 | 10222.2 | 10173.9 |
| 45° | 10992.2 | 11046.5 | 11094.8 | 11149.3 | 11206.6 | 11245.8 | 11303.3 | 11291.2 | 11327.5 | 11291.2 | 11264.0 |
| 47.5° | 12100.5 | 12139.8 | 12248.5 | 12333.0 | 12426.6 | 12459.8 | 12541.5 | 12505.2 | 12541.5 | 12490.1 | 12481.0 |
| 50° | 13320.6 | 13389.9 | 13483.5 | 13580.3 | 13680.0 | 13734.2 | 13840.0 | 13794.6 | 13842.9 | 13794.6 | 13767.4 |
| 52.5° | 14522.4 | 14540.6 | 14745.8 | 14887.7 | 15026.8 | 15090.2 | 15153.6 | 15132.4 | 15135.4 | 15132.4 | 15105.2 |
| 55° | 15664.0 | 15706.2 | 15911.5 | 16104.9 | 16346.4 | 16524.6 | 16633.3 | 16621.2 | 16594.0 | 16566.9 | 16521.5 |
| 57.5° | 16950.4 | 16992.6 | 17228.2 | 17466.7 | 17741.5 | 17995.2 | 18215.7 | 18442.2 | 18529.8 | 18553.9 | 18454.2 |
| 60° | 18689.8 | 18686.7 | 19000.8 | 19290.7 | 19683.3 | 20060.8 | 20544.0 | 21036.2 | 21600.9 | 21863.7 | 21516.3 |
| 62.5° | 20459.5 | 20531.9 | 20984.9 | 21498.3 | 22307.6 | 23095.8 | 23986.6 | 24862.4 | 25756.2 | 26484.0 | 25710.9 |
| 65° | 20248.0 | 20525.9 | 21199.2 | 22361.9 | 23856.8 | 25632.4 | 27553.0 | 29585.3 | 31421.5 | 32683.7 | 31267.4 |
| 67.5° | 17548.2 | 17943.8 | 18629.4 | 20042.6 | 21912.0 | 24472.8 | 27698.0 | 31717.4 | 36389.2 | 38648.0 | 35848.5 |
| 70° | 12719.5 | 13166.5 | 13885.2 | 15265.2 | 17116.4 | 19550.5 | 23053.4 | 27879.1 | 34063.8 | 36340.7 | 33257.5 |
| 72.5° | 6329.6 | 6571.2 | 7015.1 | 7893.9 | 9295.1 | 11270.1 | 14447.0 | 19085.4 | 24557.3 | 26647.0 | 23829.6 |
| 75° | 2150.1 | 2261.8 | 2337.4 | 2624.2 | 3068.1 | 3844.3 | 5423.6 | 8343.8 | 12728.6 | 15259.2 | 12547.5 |
| 77.5° | 1241.1 | 1244.1 | 1295.5 | 1346.8 | 1422.3 | 1506.9 | 1718.3 | 2255.7 | 3901.6 | 5541.4 | 4037.5 |
| 80° | 803.3 | 800.3 | 842.5 | 881.8 | 933.2 | 975.3 | 987.4 | 1044.8 | 1204.9 | 1428.3 | 1277.4 |
| 82.5° | 416.8 | 468.0 | 561.7 | 613.1 | 709.6 | 727.7 | 703.6 | 682.5 | 721.7 | 749.0 | 767.0 |
| 85° | 229.6 | 199.3 | 299.0 | 386.6 | 428.9 | 434.9 | 434.9 | 410.7 | 425.8 | 416.8 | 453.0 |
| 87.5° | 105.7 | 96.5 | 117.8 | 190.2 | 202.3 | 172.1 | 181.2 | 160.1 | 114.7 | 111.8 | 126.8 |
| 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° | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 | 6544.0 |
| 2.5° | 6513.8 | 6516.8 | 6516.8 | 6525.8 | 6528.9 | 6534.9 | 6541.1 | 6544.0 |
| 5° | 6462.4 | 6471.5 | 6465.5 | 6474.4 | 6474.4 | 6480.6 | 6480.6 | 6483.6 |
| 7.5° | 6387.0 | 6396.0 | 6396.0 | 6396.0 | 6393.0 | 6402.0 | 6402.0 | 6402.0 |
| 10° | 6308.4 | 6314.5 | 6311.5 | 6305.5 | 6299.4 | 6308.4 | 6305.5 | 6302.4 |
| 12.5° | 6284.3 | 6269.2 | 6257.1 | 6251.0 | 6239.0 | 6242.0 | 6232.9 | 6232.9 |
| 15° | 6299.4 | 6272.2 | 6251.0 | 6242.0 | 6230.0 | 6223.9 | 6217.8 | 6220.9 |
| 17.5° | 6338.6 | 6305.5 | 6278.2 | 6263.2 | 6248.1 | 6239.0 | 6226.9 | 6230.0 |
| 20° | 6408.0 | 6368.8 | 6329.6 | 6299.4 | 6272.2 | 6257.1 | 6248.1 | 6245.0 |
| 22.5° | 6510.8 | 6453.4 | 6396.0 | 6350.7 | 6314.5 | 6293.4 | 6284.3 | 6278.2 |
| 25° | 6628.5 | 6565.2 | 6498.7 | 6447.4 | 6411.2 | 6383.9 | 6365.8 | 6365.8 |
| 27.5° | 6776.5 | 6725.2 | 6664.9 | 6604.4 | 6571.2 | 6544.0 | 6531.9 | 6525.8 |
| 30° | 7024.2 | 6975.8 | 6927.5 | 6870.1 | 6827.8 | 6800.8 | 6779.5 | 6761.4 |
| 32.5° | 7341.2 | 7302.1 | 7262.7 | 7220.4 | 7181.2 | 7144.9 | 7111.6 | 7096.6 |
| 35° | 7788.2 | 7758.0 | 7730.7 | 7682.4 | 7667.4 | 7646.2 | 7628.2 | 7612.9 |
| 37.5° | 8404.2 | 8392.1 | 8392.1 | 8340.9 | 8328.8 | 8319.6 | 8301.5 | 8304.6 |
| 40° | 9213.5 | 9225.7 | 9210.5 | 9192.4 | 9183.4 | 9159.2 | 9159.2 | 9180.3 |
| 42.5° | 10170.8 | 10179.9 | 10213.1 | 10182.9 | 10216.1 | 10185.9 | 10167.7 | 10182.9 |
| 45° | 11282.1 | 11315.3 | 11381.7 | 11351.6 | 11372.7 | 11321.3 | 11258.0 | 11261.1 |
| 47.5° | 12529.3 | 12559.5 | 12586.6 | 12565.6 | 12568.5 | 12484.1 | 12399.5 | 12378.3 |
| 50° | 13824.8 | 13836.9 | 13852.0 | 13821.9 | 13827.9 | 13734.2 | 13637.6 | 13640.6 |
| 52.5° | 15105.2 | 15162.6 | 15223.0 | 15141.4 | 15123.3 | 15017.6 | 14881.7 | 14827.5 |
| 55° | 16569.8 | 16651.4 | 16581.9 | 16440.0 | 16298.1 | 16156.1 | 15978.0 | 15947.8 |
| 57.5° | 18375.8 | 18236.8 | 18019.4 | 17750.6 | 17554.3 | 17355.1 | 17173.8 | 17098.3 |
| 60° | 20888.1 | 20365.8 | 19973.2 | 19574.6 | 19323.9 | 19079.4 | 18840.7 | 18804.5 |
| 62.5° | 24439.5 | 23536.6 | 22754.5 | 21930.1 | 21256.6 | 20731.2 | 20311.4 | 20193.7 |
| 65° | 28890.8 | 26755.7 | 24904.7 | 23177.2 | 21676.4 | 20544.0 | 19831.3 | 19517.2 |
| 67.5° | 30805.4 | 26589.7 | 23415.8 | 20963.7 | 19000.8 | 17629.8 | 16859.8 | 16476.3 |
| 70° | 27069.8 | 22050.9 | 18599.2 | 16144.0 | 14356.3 | 12894.7 | 12197.1 | 11786.5 |
| 72.5° | 18623.4 | 14027.1 | 11091.9 | 9053.4 | 7625.1 | 6402.0 | 5918.9 | 5882.6 |
| 75° | 8361.9 | 5538.4 | 3817.1 | 2941.4 | 2476.3 | 2153.2 | 2053.5 | 1978.0 |
| 77.5° | 2340.4 | 1730.3 | 1543.2 | 1443.6 | 1346.8 | 1235.0 | 1192.8 | 1201.9 |
| 80° | 1138.5 | 1075.1 | 1032.8 | 969.3 | 881.8 | 788.2 | 745.9 | 764.0 |
| 82.5° | 755.0 | 745.9 | 773.1 | 727.7 | 600.9 | 510.4 | 428.9 | 392.6 |
| 85° | 459.0 | 465.0 | 474.0 | 477.1 | 404.7 | 283.8 | 193.3 | 217.4 |
| 87.5° | 181.2 | 208.3 | 226.5 | 235.6 | 220.4 | 135.9 | 108.7 | 111.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)