

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: P322334

Luminaire Tested: **GAN-SA0C-760-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322334  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-760-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51018 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 558  
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: 24 FT

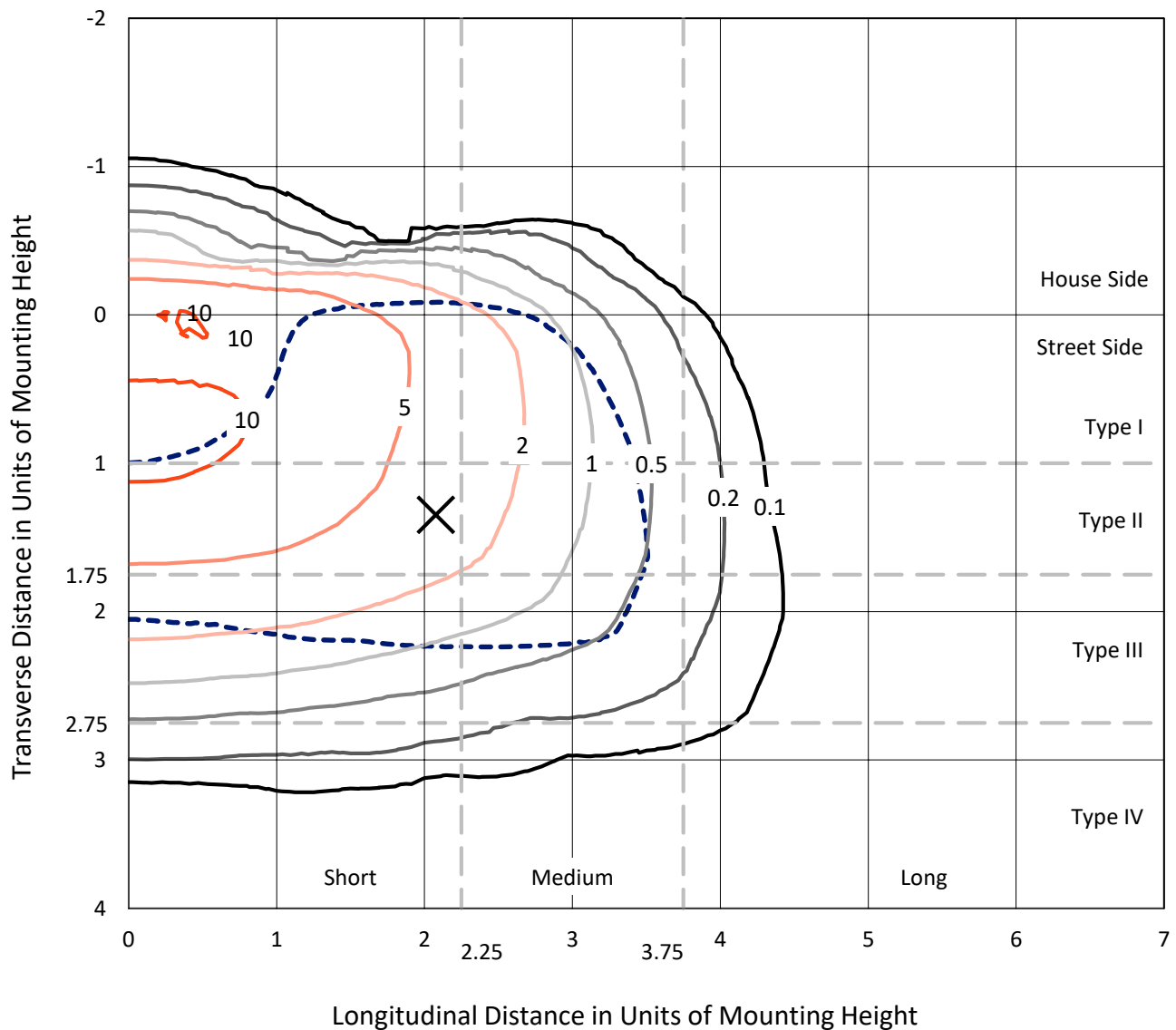


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## Iso-Footcandle Lines of Horizontal Illumination

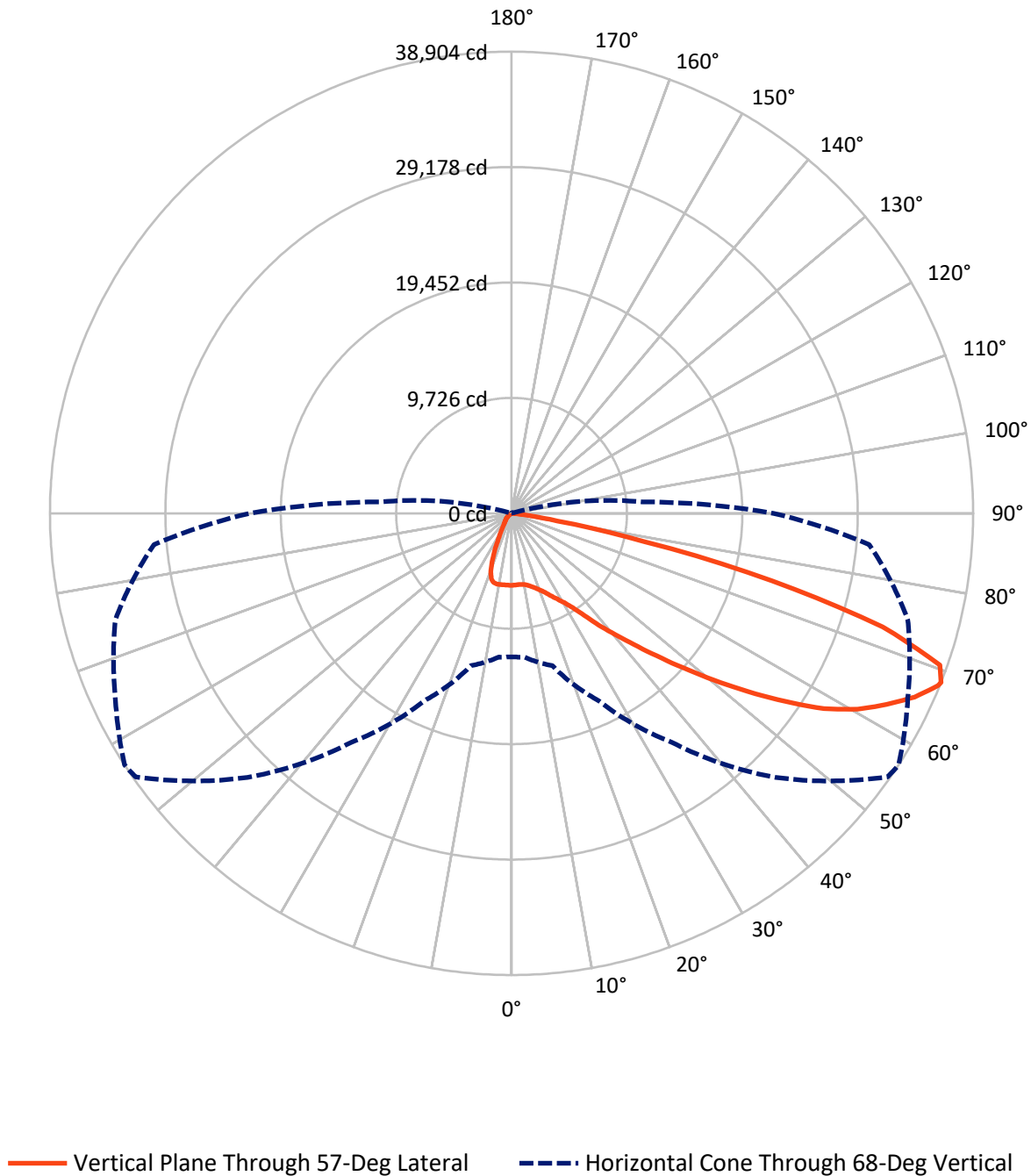
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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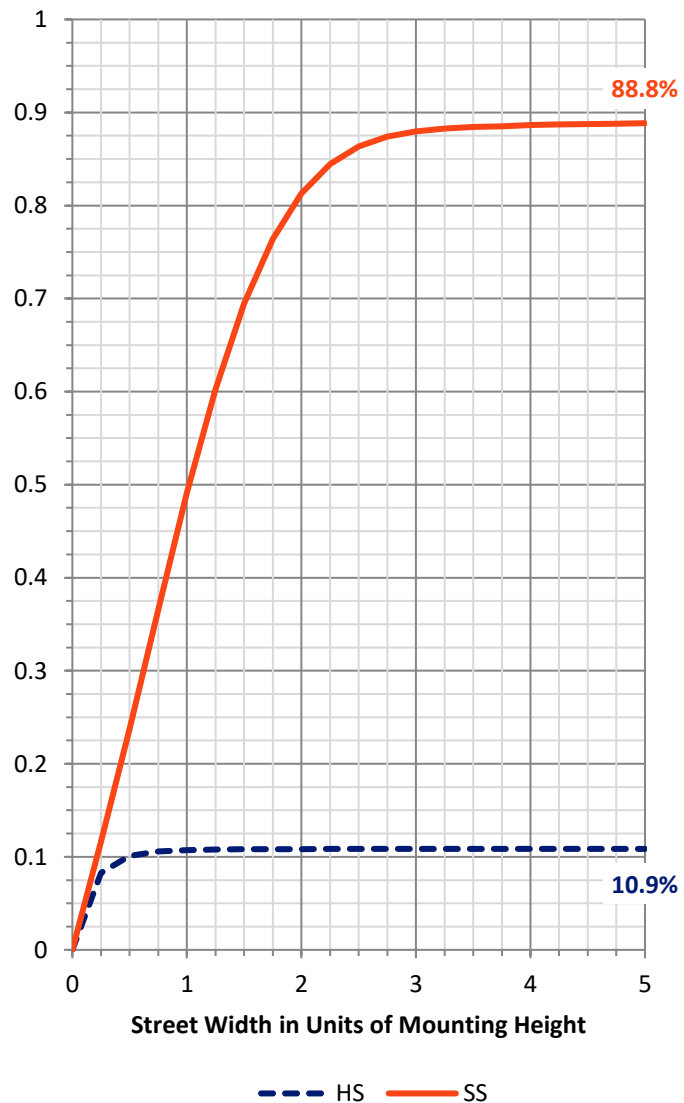
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5594.4   | 0.0    | 5594.4  |
|                    | % Fixture | 11.0     | 0.0    | 11.0    |
| <b>Street Side</b> | Lumens    | 45423.6  | 0.0    | 45423.6 |
|                    | % Fixture | 89.0     | 0.0    | 89.0    |
| <b>Total</b>       | Lumens    | 51018.0  | 0.0    | 51018.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 567.3   | 1.1       |
| 10°-20°   | 1572.1  | 3.1       |
| 20°-30°   | 2712.1  | 5.3       |
| 30°-40°   | 4680.9  | 9.2       |
| 40°-50°   | 8006.9  | 15.7      |
| 50°-60°   | 12810.2 | 25.1      |
| 60°-70°   | 14800.8 | 29.0      |
| 70°-80°   | 5655.6  | 11.1      |
| 80°-90°   | 212.0   | 0.4       |
| 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°    | 51018.0 | 100.0     |
| 0°-180°   | 51018.0 | 100.0     |

**Coefficient of Utilization**



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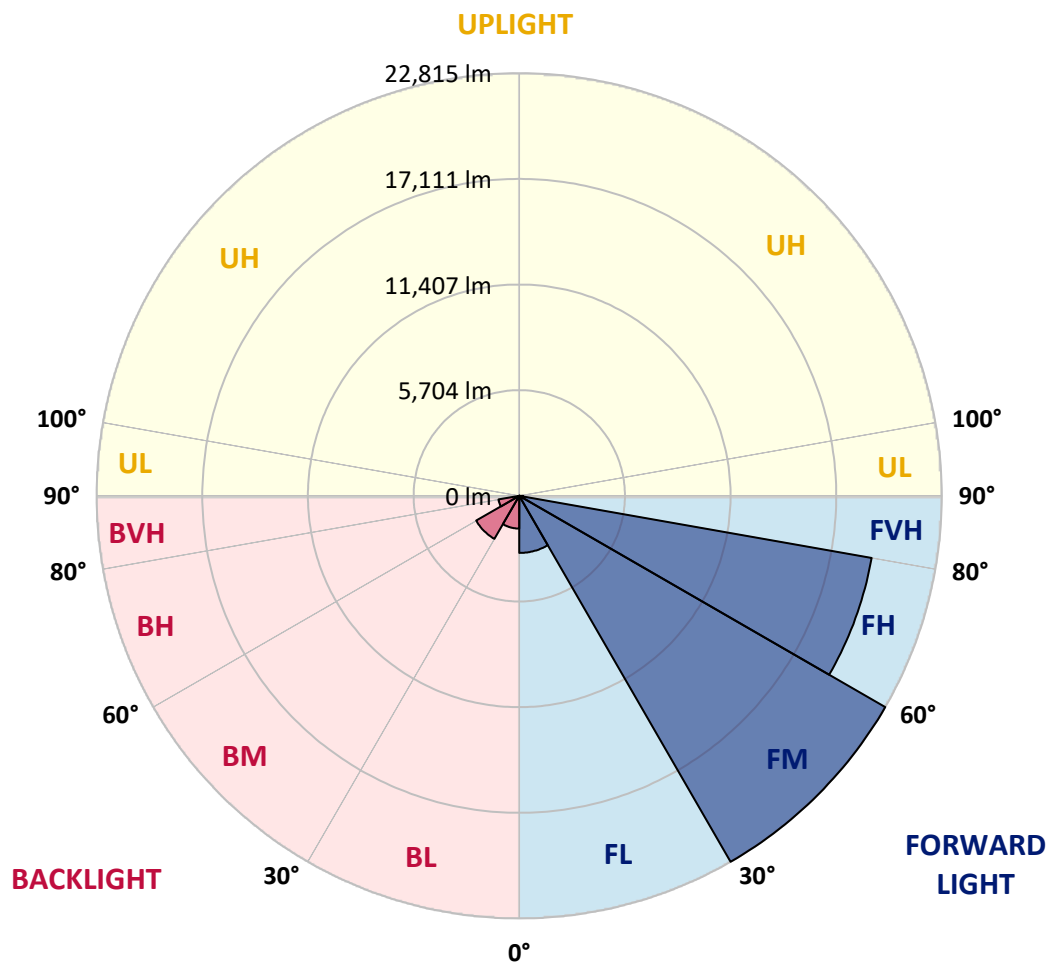
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3083.6  | 6.0       |                         |      |         |
| FM   | (30°-60°)   | 22814.8 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 19317.1 | 37.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 208.1   | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1768.0  | 3.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2683.2  | 5.3       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1139.3  | 2.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 3.9     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6062.3  | 6062.3  | 6062.3  | 6062.3  | 6062.3  | 6062.3  | 6062.3  | 6062.3  | 6062.3  | 6062.3  | 6062.3  |
| 2.5°  | 5920.0  | 5946.5  | 5965.8  | 5977.9  | 5992.3  | 6023.7  | 6033.3  | 6047.8  | 6055.0  | 6055.0  | 6071.9  |
| 5°    | 5686.0  | 5714.9  | 5755.9  | 5789.7  | 5857.2  | 5944.1  | 6006.8  | 6030.9  | 6074.3  | 6112.9  | 6134.7  |
| 7.5°  | 5468.8  | 5502.6  | 5550.9  | 5630.5  | 5746.3  | 5886.2  | 6016.4  | 6050.2  | 6134.7  | 6216.7  | 6257.7  |
| 10°   | 5328.9  | 5355.5  | 5418.2  | 5531.6  | 5683.5  | 5878.9  | 6062.3  | 6103.3  | 6248.0  | 6385.5  | 6462.7  |
| 12.5° | 5280.7  | 5304.8  | 5369.9  | 5497.8  | 5686.0  | 5915.1  | 6168.4  | 6228.7  | 6441.0  | 6641.3  | 6749.8  |
| 15°   | 5350.6  | 5355.5  | 5425.4  | 5546.0  | 5731.8  | 6004.4  | 6344.5  | 6416.9  | 6684.7  | 6945.2  | 7080.3  |
| 17.5° | 5620.8  | 5599.1  | 5635.3  | 5688.4  | 5835.5  | 6122.6  | 6530.3  | 6638.8  | 6995.9  | 7302.2  | 7430.1  |
| 20°   | 6296.3  | 6296.3  | 6214.3  | 6069.5  | 6071.9  | 6305.9  | 6781.2  | 6904.2  | 7340.8  | 7695.5  | 7811.3  |
| 22.5° | 7451.8  | 7430.1  | 7266.1  | 6911.4  | 6585.8  | 6622.0  | 7087.5  | 7246.8  | 7755.8  | 8134.5  | 8173.1  |
| 25°   | 8841.3  | 8814.8  | 8561.5  | 8062.1  | 7497.6  | 7133.4  | 7502.5  | 7685.8  | 8250.3  | 8585.6  | 8506.0  |
| 27.5° | 10312.9 | 10291.2 | 10040.3 | 9420.3  | 8617.0  | 7948.8  | 7997.0  | 8170.7  | 8754.5  | 9085.0  | 8831.7  |
| 30°   | 11738.6 | 11745.8 | 11497.4 | 10860.5 | 9951.0  | 8988.5  | 8624.2  | 8725.5  | 9244.2  | 9579.5  | 9217.7  |
| 32.5° | 13094.3 | 13104.0 | 12889.3 | 12177.6 | 11328.5 | 10197.1 | 9492.7  | 9466.1  | 9813.5  | 10144.0 | 9729.1  |
| 35°   | 14302.9 | 14327.1 | 14179.9 | 13627.5 | 12727.7 | 11543.2 | 10619.2 | 10556.5 | 10621.7 | 10995.6 | 10513.1 |
| 37.5° | 15468.1 | 15482.6 | 15371.6 | 14906.0 | 14153.4 | 13022.0 | 12042.5 | 11953.3 | 11813.4 | 12100.4 | 11548.0 |
| 40°   | 16744.3 | 16708.1 | 16580.2 | 16158.0 | 15511.5 | 14655.1 | 13572.0 | 13417.6 | 13173.9 | 13429.7 | 12908.6 |
| 42.5° | 17931.1 | 17890.1 | 17911.8 | 17434.2 | 16889.0 | 16334.2 | 15354.7 | 15089.4 | 14947.0 | 15241.3 | 14577.9 |
| 45°   | 19414.7 | 19393.0 | 19465.4 | 19050.5 | 18609.0 | 18206.1 | 17398.0 | 17108.5 | 17045.8 | 17390.8 | 16597.1 |
| 47.5° | 20879.1 | 20932.1 | 21156.5 | 20980.4 | 20801.9 | 20447.2 | 19561.9 | 19431.6 | 19470.2 | 19887.6 | 18727.2 |
| 50°   | 22099.7 | 22162.4 | 22777.6 | 22980.2 | 23238.4 | 23030.9 | 22143.1 | 22063.5 | 22215.5 | 22591.8 | 21019.0 |
| 52.5° | 22982.6 | 23110.5 | 23875.2 | 24808.8 | 25749.6 | 25889.5 | 25004.2 | 24931.8 | 25136.9 | 25194.8 | 22789.7 |
| 55°   | 23595.4 | 23708.8 | 24574.8 | 26282.8 | 28198.2 | 28801.3 | 28251.3 | 27971.4 | 27932.8 | 27361.1 | 24652.0 |
| 57.5° | 23703.9 | 23691.9 | 24936.7 | 27235.6 | 30118.4 | 31674.4 | 31327.0 | 31052.0 | 30260.8 | 29363.4 | 26786.9 |
| 60°   | 23091.2 | 23161.2 | 24606.2 | 27566.1 | 31324.6 | 33848.0 | 33874.5 | 33517.5 | 32284.7 | 31310.1 | 28856.8 |
| 62.5° | 21204.7 | 21489.4 | 22948.9 | 26700.1 | 31310.1 | 34723.6 | 35741.7 | 35469.1 | 33995.1 | 32904.7 | 30955.5 |
| 65°   | 18145.8 | 18247.2 | 19639.1 | 23732.9 | 29194.5 | 34357.0 | 37423.1 | 37321.8 | 35536.6 | 34453.5 | 32033.8 |
| 67.5° | 13251.1 | 13031.6 | 14493.5 | 18688.6 | 24717.1 | 32219.6 | 38629.3 | 38757.1 | 36725.9 | 34771.9 | 30885.6 |
| 68°   | 12093.2 | 12158.3 | 13297.0 | 17441.4 | 23544.7 | 31464.5 | 38708.9 | 38904.3 | 36844.1 | 34564.4 | 30258.3 |
| 70°   | 7208.2  | 7333.6  | 8349.2  | 12008.8 | 17911.8 | 27192.2 | 37850.1 | 38296.4 | 36139.7 | 32424.7 | 26171.8 |
| 72.5° | 1840.6  | 1990.2  | 2950.3  | 5374.8  | 10230.9 | 19159.0 | 31951.8 | 32706.9 | 31377.7 | 26304.5 | 17668.2 |
| 75°   | 757.5   | 796.1   | 1054.2  | 1770.7  | 3811.5  | 8631.5  | 21060.0 | 22676.3 | 21752.3 | 15747.9 | 7984.9  |
| 77.5° | 523.5   | 550.0   | 677.9   | 981.8   | 1650.1  | 2926.2  | 10324.9 | 11492.5 | 10353.9 | 5374.8  | 1741.7  |
| 80°   | 376.3   | 398.0   | 484.9   | 653.8   | 948.1   | 1044.6  | 3365.3  | 3891.2  | 3090.2  | 1179.6  | 431.8   |
| 82.5° | 224.4   | 241.2   | 361.9   | 465.6   | 576.6   | 499.4   | 837.1   | 950.5   | 895.0   | 586.2   | 193.0   |
| 85°   | 111.0   | 130.3   | 243.6   | 332.9   | 311.2   | 209.9   | 255.7   | 284.7   | 352.2   | 357.0   | 103.7   |
| 87.5° | 7.2     | 14.5    | 142.3   | 200.2   | 86.8    | 48.2    | 74.8    | 91.7    | 125.4   | 176.1   | 43.4    |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 6062.3  | 6062.3  | 6062.3 | 6062.3 | 6062.3 | 6062.3 | 6062.3 | 6062.3 | 6062.3 | 6062.3 | 6062.3 |
| 2.5°  | 6079.2  | 6081.6  | 6064.7 | 6057.5 | 6062.3 | 6033.3 | 6021.3 | 6026.1 | 6026.1 | 6033.3 | 6021.3 |
| 5°    | 6139.5  | 6139.5  | 6110.5 | 6071.9 | 6050.2 | 5994.7 | 5958.6 | 5948.9 | 5941.7 | 5936.8 | 5927.2 |
| 7.5°  | 6269.7  | 6255.3  | 6204.6 | 6120.2 | 6047.8 | 5927.2 | 5835.5 | 5787.3 | 5763.1 | 5753.5 | 5746.3 |
| 10°   | 6479.6  | 6453.1  | 6368.7 | 6211.9 | 6045.4 | 5830.7 | 5630.5 | 5488.1 | 5369.9 | 5321.7 | 5292.7 |
| 12.5° | 6761.9  | 6723.3  | 6580.9 | 6320.4 | 6028.5 | 5632.9 | 5198.7 | 4781.3 | 4392.9 | 4233.7 | 4154.1 |
| 15°   | 7087.5  | 7032.1  | 6807.7 | 6412.1 | 5929.6 | 5186.6 | 4243.4 | 3512.4 | 2974.5 | 2771.8 | 2685.0 |
| 17.5° | 7418.0  | 7345.7  | 7005.5 | 6470.0 | 5632.9 | 4262.7 | 2976.9 | 2248.3 | 1888.9 | 1792.4 | 1758.6 |
| 20°   | 7750.9  | 7644.8  | 7176.8 | 6426.6 | 4962.2 | 3073.4 | 1963.7 | 1642.8 | 1539.1 | 1510.1 | 1500.5 |
| 22.5° | 8067.0  | 7902.9  | 7331.2 | 6257.7 | 3929.7 | 2062.6 | 1553.6 | 1452.2 | 1418.5 | 1401.6 | 1396.8 |
| 25°   | 8342.0  | 8112.8  | 7466.3 | 5736.6 | 2781.5 | 1558.4 | 1399.2 | 1365.4 | 1322.0 | 1290.6 | 1293.0 |
| 27.5° | 8600.1  | 8322.7  | 7548.3 | 4877.8 | 1855.1 | 1331.6 | 1295.4 | 1249.6 | 1170.0 | 1124.2 | 1124.2 |
| 30°   | 8911.3  | 8602.5  | 7608.6 | 3753.6 | 1365.4 | 1177.2 | 1148.3 | 1078.3 | 969.8  | 909.5  | 909.5  |
| 32.5° | 9379.3  | 9027.1  | 7570.0 | 2634.3 | 1131.4 | 1034.9 | 967.4  | 870.9  | 752.7  | 694.8  | 692.3  |
| 35°   | 10095.8 | 9683.2  | 7295.0 | 1727.3 | 998.7  | 899.8  | 791.3  | 673.1  | 569.3  | 521.1  | 518.7  |
| 37.5° | 11060.7 | 10561.4 | 6677.4 | 1235.1 | 895.0  | 774.4  | 644.1  | 513.8  | 436.6  | 405.3  | 402.9  |
| 40°   | 12312.7 | 11581.8 | 5794.5 | 1001.1 | 798.5  | 653.8  | 496.9  | 398.0  | 345.0  | 320.8  | 323.3  |
| 42.5° | 13815.6 | 12674.6 | 4735.5 | 863.6  | 704.4  | 538.0  | 388.4  | 313.6  | 279.8  | 262.9  | 258.1  |
| 45°   | 15485.0 | 13752.9 | 3625.8 | 769.5  | 610.3  | 434.2  | 304.0  | 248.5  | 221.9  | 212.3  | 212.3  |
| 47.5° | 17320.8 | 14802.3 | 2653.6 | 687.5  | 509.0  | 335.3  | 243.6  | 202.6  | 180.9  | 173.7  | 171.3  |
| 50°   | 18987.8 | 15530.8 | 1913.0 | 600.7  | 417.3  | 265.4  | 197.8  | 168.9  | 154.4  | 144.7  | 144.7  |
| 52.5° | 20377.3 | 15760.0 | 1408.8 | 506.6  | 337.7  | 212.3  | 164.0  | 144.7  | 130.3  | 123.0  | 123.0  |
| 55°   | 21600.4 | 15665.9 | 1047.0 | 417.3  | 272.6  | 173.7  | 139.9  | 123.0  | 111.0  | 103.7  | 103.7  |
| 57.5° | 22772.8 | 15362.0 | 781.6  | 340.1  | 219.5  | 139.9  | 118.2  | 103.7  | 91.7   | 86.8   | 86.8   |
| 60°   | 23730.5 | 14855.4 | 581.4  | 275.0  | 176.1  | 113.4  | 98.9   | 84.4   | 74.8   | 67.5   | 67.5   |
| 62.5° | 24507.3 | 14295.7 | 427.0  | 226.8  | 139.9  | 89.3   | 77.2   | 70.0   | 55.5   | 48.2   | 48.2   |
| 65°   | 24512.1 | 13366.9 | 320.8  | 188.2  | 108.6  | 70.0   | 57.9   | 55.5   | 36.2   | 28.9   | 26.5   |
| 67.5° | 22739.0 | 11523.9 | 246.1  | 161.6  | 84.4   | 53.1   | 43.4   | 45.8   | 19.3   | 12.1   | 9.6    |
| 68°   | 22094.9 | 11055.9 | 231.6  | 159.2  | 79.6   | 50.7   | 41.0   | 45.8   | 16.9   | 9.6    | 7.2    |
| 70°   | 18628.3 | 8795.5  | 185.8  | 154.4  | 70.0   | 38.6   | 33.8   | 45.8   | 14.5   | 7.2    | 4.8    |
| 72.5° | 11914.7 | 5104.6  | 137.5  | 123.0  | 53.1   | 28.9   | 21.7   | 41.0   | 14.5   | 4.8    | 2.4    |
| 75°   | 5070.8  | 1582.5  | 94.1   | 86.8   | 31.4   | 21.7   | 14.5   | 26.5   | 9.6    | 2.4    | 0.0    |
| 77.5° | 1068.7  | 357.0   | 55.5   | 53.1   | 21.7   | 14.5   | 9.6    | 7.2    | 2.4    | 0.0    | 0.0    |
| 80°   | 275.0   | 103.7   | 28.9   | 26.5   | 12.1   | 7.2    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 86.8    | 41.0    | 16.9   | 12.1   | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 43.4    | 24.1    | 9.6    | 4.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 24.1    | 7.2     | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°   | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)