

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: P192758

Luminaire Tested: **GAN-AF-10-LED-U-RW-7030**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P192758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)  
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-RW-7030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 58247.2 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B5 - U0 - G4

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: 28.75 FT

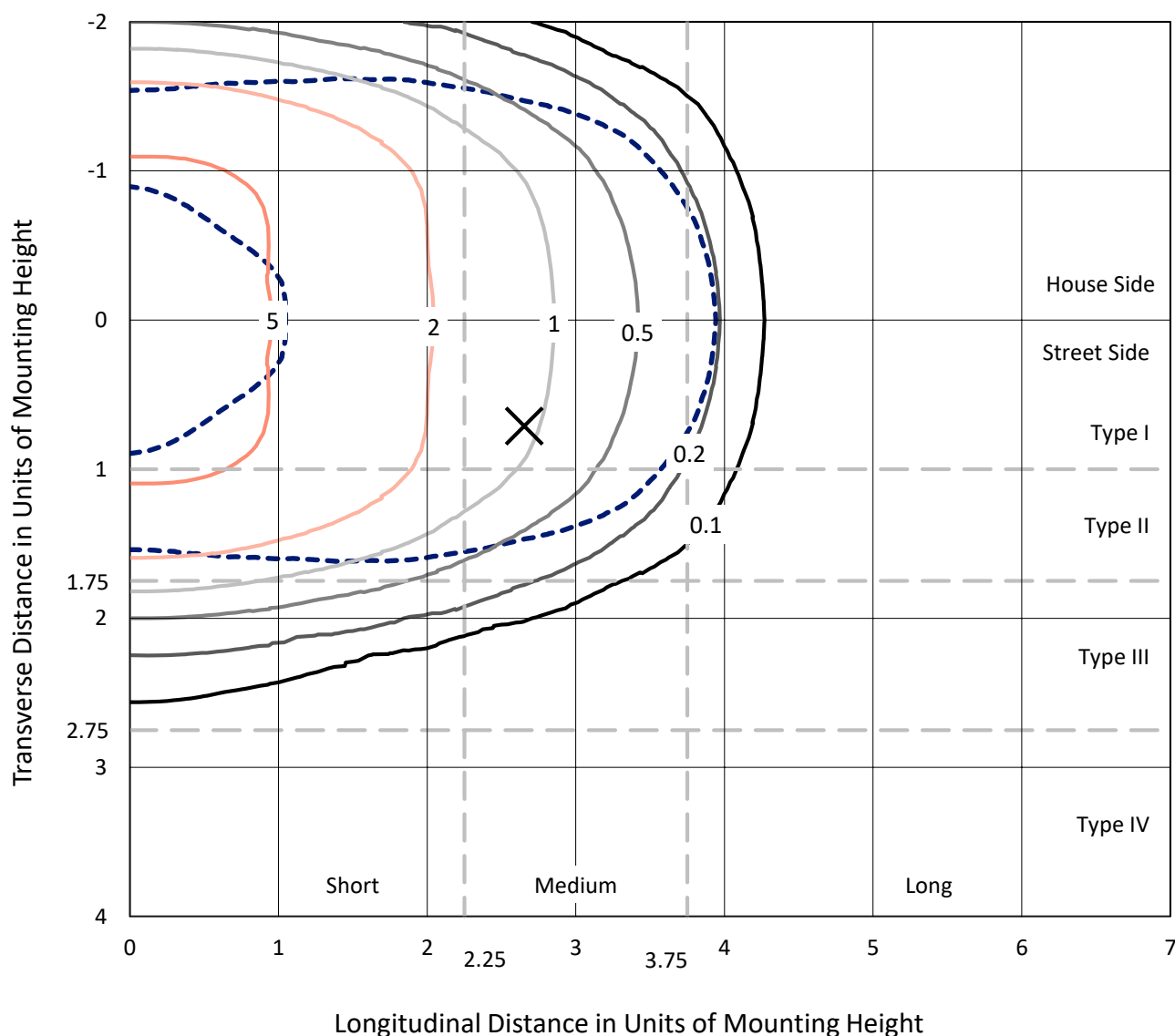


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 --- 1/2 Max cd

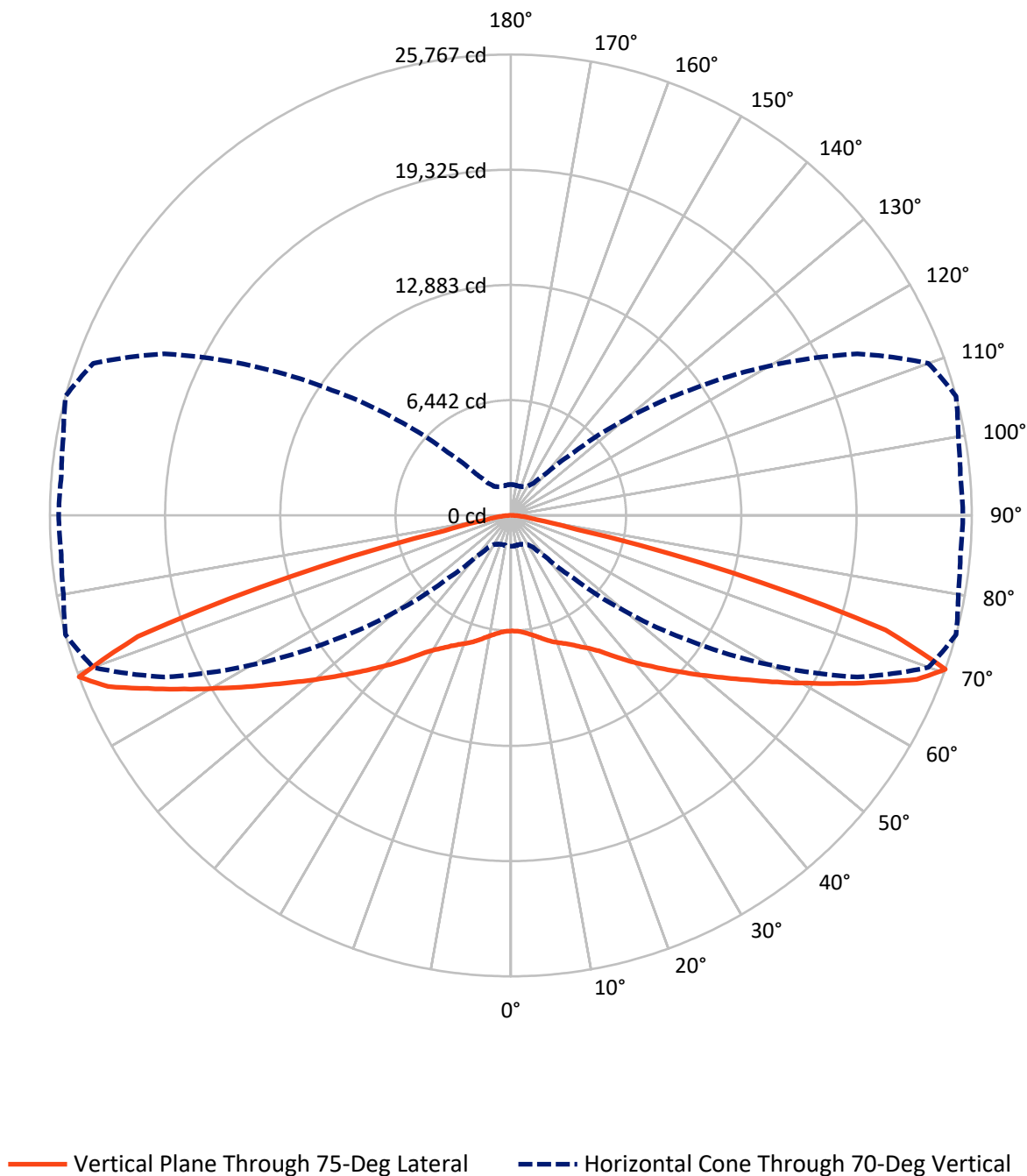


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type V - Medium - Full Cutoff

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## Luminous Intensity Polar Plot



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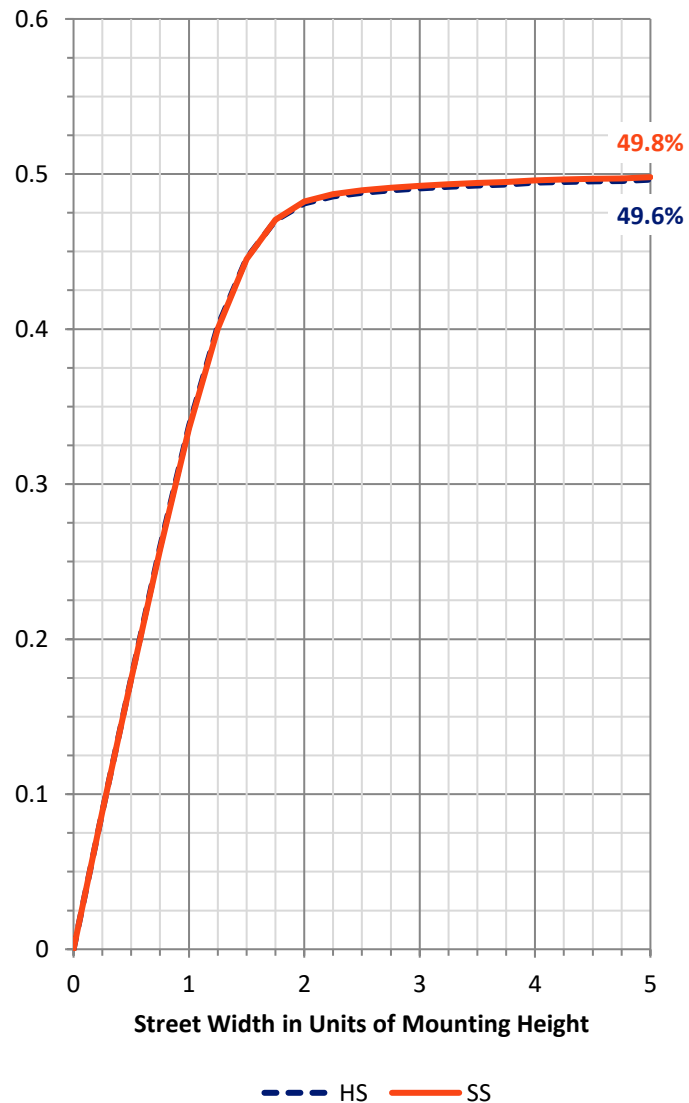
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 29123.6  | 0.0    | 29123.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 29123.6  | 0.0    | 29123.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 58247.2  | 0.0    | 58247.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 619.7   | 1.1       |
| 10°-20°   | 1925.4  | 3.3       |
| 20°-30°   | 3623.8  | 6.2       |
| 30°-40°   | 6417.1  | 11.0      |
| 40°-50°   | 10731.5 | 18.4      |
| 50°-60°   | 14954.3 | 25.7      |
| 60°-70°   | 13867.7 | 23.8      |
| 70°-80°   | 5526.7  | 9.5       |
| 80°-90°   | 580.9   | 1.0       |
| 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°    | 58247.2 | 100.0     |
| 0°-180°   | 58247.2 | 100.0     |

**Coefficient of Utilization**



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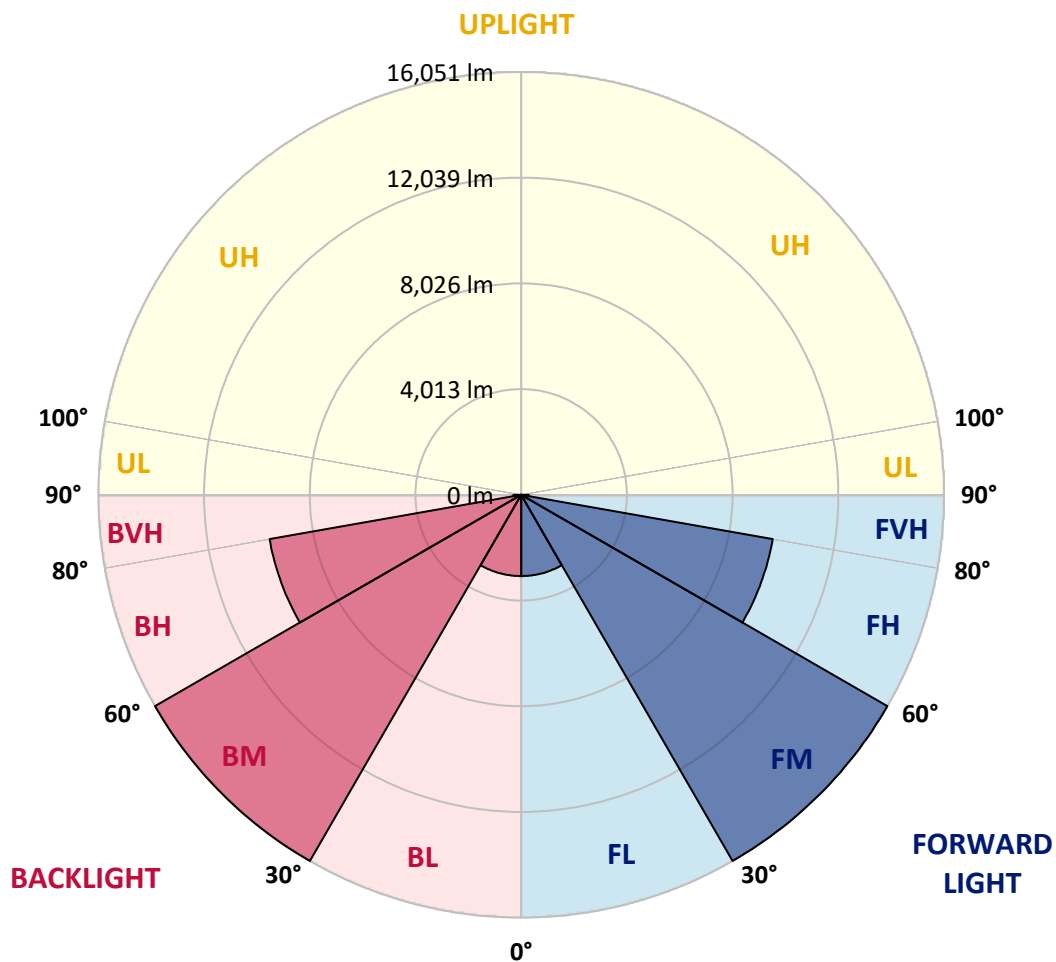
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3084.4  | 5.3       |                         |      |          |
| FM   | (30°-60°)   | 16051.5 | 27.6      |                         |      |          |
| FH   | (60°-80°)   | 9697.2  | 16.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 290.5   | 0.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 3084.4  | 5.3       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 16051.5 | 27.6      | B5                      |      |          |
| BH   | (60°-80°)   | 9697.2  | 16.6      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 290.5   | 0.5       |                         |      | G3/500   |
| 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 10°     | 15°     | 20°     | 25°     | 30°     | 35°     | 40°     | 45°     | 50°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  |
| 2.5°  | 6450.0  | 6444.4  | 6450.0  | 6447.2  | 6452.8  | 6452.8  | 6458.2  | 6469.2  | 6469.2  | 6477.4  | 6474.7  |
| 5°    | 6386.6  | 6383.9  | 6392.1  | 6400.4  | 6408.7  | 6425.2  | 6441.7  | 6466.5  | 6485.7  | 6499.5  | 6513.3  |
| 7.5°  | 6262.7  | 6262.7  | 6273.7  | 6293.0  | 6312.4  | 6348.1  | 6386.6  | 6436.3  | 6485.7  | 6527.0  | 6562.8  |
| 10°   | 6160.9  | 6166.4  | 6180.1  | 6213.2  | 6246.3  | 6301.3  | 6353.7  | 6425.2  | 6494.1  | 6562.8  | 6617.9  |
| 12.5° | 6100.4  | 6108.5  | 6133.4  | 6183.0  | 6237.9  | 6312.4  | 6392.1  | 6483.0  | 6560.0  | 6642.6  | 6697.7  |
| 15°   | 6119.6  | 6125.1  | 6160.9  | 6221.4  | 6293.0  | 6386.6  | 6494.1  | 6601.3  | 6692.2  | 6780.3  | 6854.6  |
| 17.5° | 6227.0  | 6235.2  | 6276.5  | 6345.3  | 6419.6  | 6529.8  | 6645.3  | 6766.5  | 6879.4  | 6978.5  | 7069.4  |
| 20°   | 6419.6  | 6427.9  | 6480.2  | 6554.6  | 6642.6  | 6755.5  | 6871.1  | 6997.7  | 7124.4  | 7229.0  | 7330.9  |
| 22.5° | 6692.2  | 6706.0  | 6755.5  | 6829.9  | 6929.0  | 7050.1  | 7187.7  | 7322.7  | 7443.8  | 7540.1  | 7630.8  |
| 25°   | 7050.1  | 7080.3  | 7127.2  | 7209.8  | 7314.4  | 7424.5  | 7573.1  | 7710.8  | 7826.4  | 7917.3  | 7983.3  |
| 27.5° | 7556.6  | 7597.9  | 7633.7  | 7713.4  | 7815.5  | 7919.9  | 8068.7  | 8189.7  | 8299.9  | 8388.0  | 8437.5  |
| 30°   | 8228.4  | 8269.7  | 8305.4  | 8382.5  | 8476.2  | 8575.2  | 8715.6  | 8822.9  | 8891.7  | 8960.6  | 8957.8  |
| 32.5° | 9043.2  | 9087.2  | 9101.0  | 9183.6  | 9279.9  | 9387.2  | 9513.9  | 9574.5  | 9629.6  | 9637.8  | 9588.3  |
| 35°   | 9954.4  | 9976.4  | 10031.4 | 10141.6 | 10251.7 | 10339.8 | 10460.9 | 10491.2 | 10491.2 | 10449.9 | 10339.8 |
| 37.5° | 10953.7 | 10967.5 | 11044.5 | 11168.4 | 11281.2 | 11372.0 | 11454.6 | 11515.3 | 11484.9 | 11396.9 | 11212.4 |
| 40°   | 12049.3 | 12074.0 | 12184.1 | 12294.3 | 12420.9 | 12506.3 | 12594.4 | 12605.4 | 12575.0 | 12445.7 | 12195.2 |
| 42.5° | 13095.4 | 13117.4 | 13227.5 | 13400.9 | 13566.0 | 13684.5 | 13767.1 | 13783.6 | 13687.2 | 13568.9 | 13257.8 |
| 45°   | 13995.6 | 14053.4 | 14196.5 | 14400.3 | 14639.7 | 14807.7 | 14920.6 | 14967.3 | 14881.9 | 14727.8 | 14367.1 |
| 47.5° | 14708.6 | 14766.4 | 14970.0 | 15212.2 | 15509.7 | 15782.2 | 15969.4 | 16068.4 | 16046.5 | 15930.9 | 15537.2 |
| 50°   | 15231.7 | 15286.7 | 15506.8 | 15804.3 | 16151.0 | 16489.6 | 16809.0 | 17045.7 | 17128.3 | 17076.0 | 16715.3 |
| 52.5° | 15292.2 | 15383.0 | 15641.8 | 16040.9 | 16492.3 | 16954.9 | 17409.2 | 17811.0 | 18083.6 | 18124.9 | 17857.9 |
| 55°   | 14447.1 | 14537.9 | 14895.8 | 15487.6 | 16159.3 | 16913.6 | 17640.4 | 18317.6 | 18854.4 | 19129.6 | 18989.3 |
| 57.5° | 12453.9 | 12616.3 | 12993.5 | 13687.2 | 14675.4 | 15804.3 | 16963.1 | 18166.1 | 19259.0 | 19988.6 | 20129.0 |
| 60°   | 9544.3  | 9736.8  | 10116.8 | 10854.6 | 11955.7 | 13301.9 | 14849.0 | 16627.3 | 18557.0 | 20197.7 | 21177.8 |
| 62.5° | 6122.4  | 6304.0  | 6703.3  | 7344.6  | 8242.1  | 9701.1  | 11361.1 | 13472.5 | 16065.7 | 18656.1 | 20990.6 |
| 65°   | 3146.5  | 3245.6  | 3454.9  | 3842.9  | 4542.2  | 5632.4  | 7121.6  | 9227.6  | 12192.5 | 15388.5 | 18763.5 |
| 67.5° | 1993.1  | 2012.3  | 2059.1  | 2114.1  | 2293.2  | 2670.3  | 3364.0  | 4677.2  | 7116.2  | 10449.9 | 14400.3 |
| 70°   | 1723.3  | 1723.3  | 1701.2  | 1693.0  | 1715.1  | 1767.4  | 1874.7  | 2180.3  | 3003.4  | 4960.7  | 8305.4  |
| 72.5° | 1577.3  | 1560.9  | 1522.3  | 1492.1  | 1486.6  | 1486.6  | 1508.6  | 1555.5  | 1687.5  | 2020.6  | 3251.1  |
| 75°   | 1453.4  | 1406.7  | 1354.4  | 1318.6  | 1304.9  | 1291.1  | 1288.3  | 1296.6  | 1324.1  | 1376.4  | 1552.6  |
| 77.5° | 1302.2  | 1241.5  | 1181.0  | 1145.1  | 1128.6  | 1109.4  | 1092.9  | 1073.6  | 1059.9  | 1076.4  | 1153.4  |
| 80°   | 1120.5  | 1051.6  | 1004.7  | 982.8   | 966.3   | 938.7   | 902.9   | 869.9   | 839.6   | 834.0   | 880.9   |
| 82.5° | 902.9   | 823.2   | 825.9   | 834.0   | 803.8   | 765.3   | 726.8   | 690.9   | 638.6   | 611.1   | 638.6   |
| 85°   | 729.6   | 688.3   | 669.0   | 721.2   | 677.2   | 619.4   | 558.9   | 495.5   | 412.9   | 346.9   | 377.2   |
| 87.5° | 283.5   | 283.5   | 423.9   | 652.4   | 586.4   | 479.0   | 410.2   | 349.6   | 217.4   | 167.9   | 170.7   |
| 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°    | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  | 6460.9  |
| 2.5°  | 6472.0  | 6477.4  | 6474.7  | 6472.0  | 6472.0  | 6469.2  | 6472.0  | 6472.0  |
| 5°    | 6521.5  | 6535.4  | 6535.4  | 6540.8  | 6540.8  | 6543.5  | 6546.3  | 6543.5  |
| 7.5°  | 6595.9  | 6620.7  | 6637.2  | 6656.4  | 6659.2  | 6662.0  | 6667.4  | 6662.0  |
| 10°   | 6670.2  | 6719.8  | 6755.5  | 6791.3  | 6807.8  | 6813.3  | 6818.9  | 6818.9  |
| 12.5° | 6763.8  | 6832.6  | 6895.9  | 6959.3  | 6989.6  | 7006.0  | 7006.0  | 7017.0  |
| 15°   | 6918.0  | 6986.8  | 7061.1  | 7146.4  | 7198.8  | 7226.3  | 7234.5  | 7234.5  |
| 17.5° | 7135.4  | 7196.1  | 7259.3  | 7341.9  | 7408.0  | 7443.8  | 7452.0  | 7449.3  |
| 20°   | 7388.6  | 7446.4  | 7482.3  | 7534.6  | 7592.4  | 7633.7  | 7644.7  | 7644.7  |
| 22.5° | 7677.7  | 7710.8  | 7716.3  | 7732.9  | 7779.6  | 7834.7  | 7859.4  | 7864.9  |
| 25°   | 7997.1  | 8005.3  | 7983.3  | 7983.3  | 8013.6  | 8065.8  | 8090.6  | 8093.4  |
| 27.5° | 8410.0  | 8368.7  | 8313.6  | 8294.4  | 8313.6  | 8374.1  | 8404.4  | 8415.4  |
| 30°   | 8924.8  | 8825.6  | 8699.0  | 8630.3  | 8619.3  | 8699.0  | 8754.1  | 8762.4  |
| 32.5° | 9513.9  | 9370.7  | 9202.8  | 9062.4  | 9026.7  | 9076.1  | 9142.3  | 9139.5  |
| 35°   | 10213.1 | 10042.4 | 9838.7  | 9659.8  | 9577.2  | 9626.8  | 9720.4  | 9731.4  |
| 37.5° | 11019.7 | 10796.8 | 10562.7 | 10337.0 | 10207.6 | 10221.4 | 10320.5 | 10353.5 |
| 40°   | 11919.8 | 11630.8 | 11336.3 | 11033.4 | 10849.0 | 10813.3 | 10934.3 | 10953.7 |
| 42.5° | 12883.5 | 12511.8 | 12140.2 | 11765.7 | 11529.0 | 11474.0 | 11614.4 | 11606.1 |
| 45°   | 13910.3 | 13436.7 | 13001.8 | 12588.9 | 12308.0 | 12225.4 | 12341.1 | 12341.1 |
| 47.5° | 15014.1 | 14430.5 | 13913.0 | 13445.0 | 13139.4 | 13021.1 | 13131.3 | 13139.4 |
| 50°   | 16184.1 | 15564.7 | 14956.3 | 14436.0 | 14069.9 | 13918.4 | 14061.6 | 14083.6 |
| 52.5° | 17348.5 | 16745.6 | 16131.8 | 15537.2 | 15093.9 | 14909.5 | 15074.7 | 15146.3 |
| 55°   | 18529.5 | 17937.6 | 17351.4 | 16770.4 | 16244.6 | 16027.1 | 16203.3 | 16294.2 |
| 57.5° | 19776.6 | 19228.7 | 18669.9 | 18083.6 | 17577.1 | 17238.5 | 17425.6 | 17546.7 |
| 60°   | 21238.4 | 20770.4 | 20189.5 | 19542.5 | 19030.6 | 18686.4 | 18793.8 | 18901.2 |
| 62.5° | 22394.6 | 22576.2 | 22083.5 | 21334.7 | 20676.8 | 20236.4 | 20340.9 | 20453.8 |
| 65°   | 21835.7 | 23699.4 | 24137.1 | 23380.1 | 22468.8 | 21783.4 | 21739.4 | 21797.2 |
| 67.5° | 18251.5 | 21871.5 | 24511.5 | 25232.8 | 24470.2 | 23517.7 | 23341.5 | 23426.9 |
| 70°   | 12208.9 | 16718.2 | 21376.0 | 24844.6 | 25766.8 | 25398.0 | 25224.4 | 25276.8 |
| 72.5° | 5863.6  | 9736.8  | 14502.1 | 19113.2 | 21921.0 | 23209.4 | 23622.3 | 23823.3 |
| 75°   | 2144.4  | 3865.0  | 6989.6  | 10532.5 | 12715.5 | 14719.5 | 16027.1 | 16561.2 |
| 77.5° | 1293.8  | 1560.9  | 2232.6  | 3361.3  | 3807.2  | 4261.4  | 4085.2  | 4173.3  |
| 80°   | 957.9   | 1081.8  | 1225.1  | 1376.4  | 1426.0  | 1426.0  | 1370.8  | 1326.9  |
| 82.5° | 671.7   | 751.4   | 820.3   | 902.9   | 925.0   | 883.7   | 726.8   | 578.1   |
| 85°   | 432.2   | 467.9   | 498.2   | 550.5   | 536.8   | 512.0   | 344.0   | 305.6   |
| 87.5° | 198.2   | 225.7   | 236.8   | 261.5   | 250.5   | 239.5   | 170.7   | 143.1   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)