

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: P317734

Luminaire Tested: **GAN-SA0C-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA0C-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 65187 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5

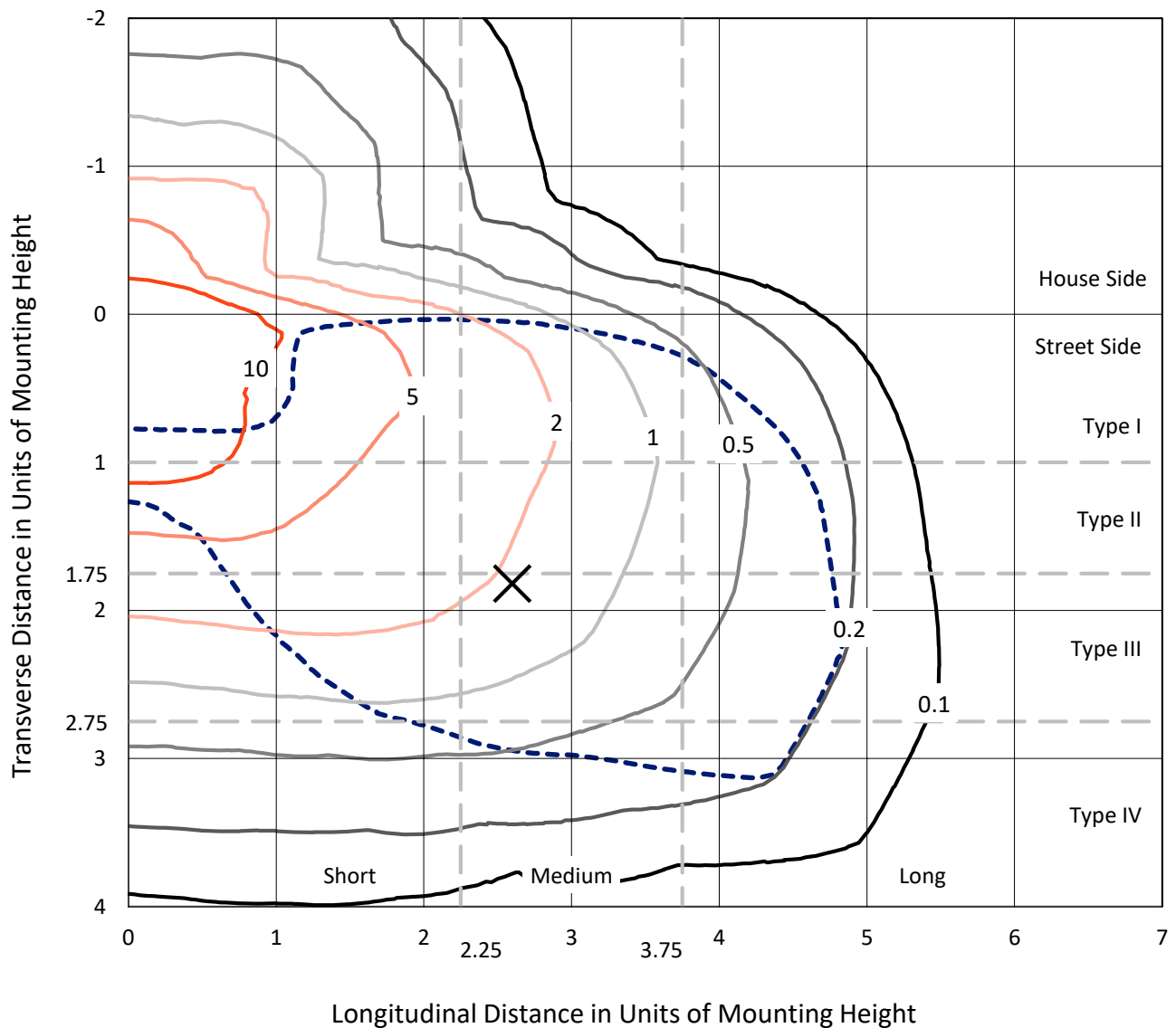
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

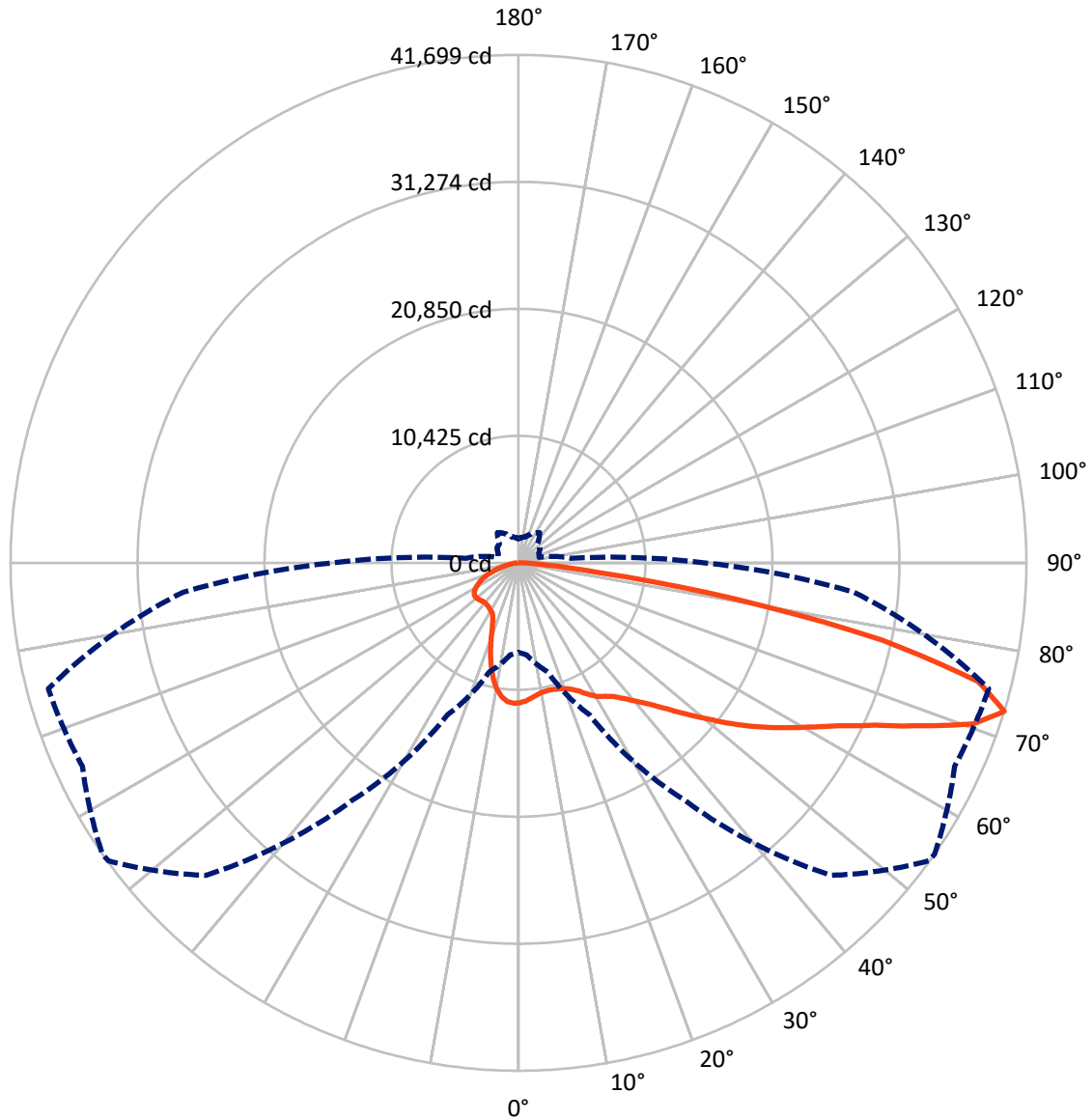
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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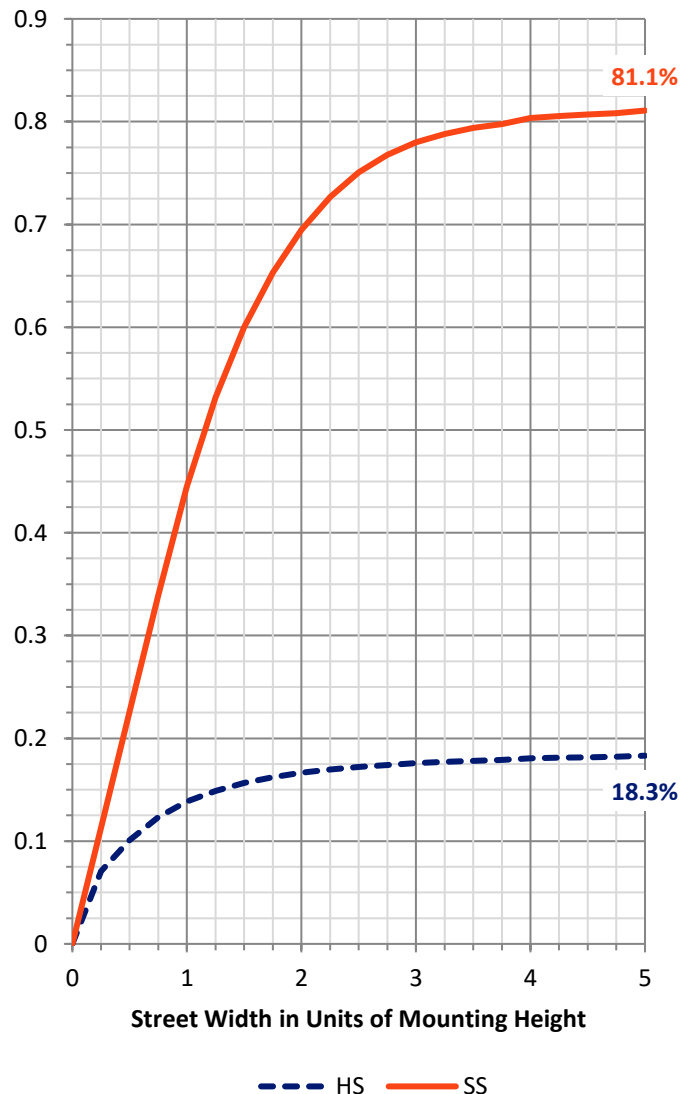
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12116.1  | 0.0    | 12116.1 |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 53070.9  | 0.0    | 53070.9 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 65187.0  | 0.0    | 65187.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1040.4  | 1.6       |
| 10°-20°   | 2769.9  | 4.2       |
| 20°-30°   | 4566.9  | 7.0       |
| 30°-40°   | 6755.6  | 10.4      |
| 40°-50°   | 9429.4  | 14.5      |
| 50°-60°   | 12277.4 | 18.8      |
| 60°-70°   | 15088.5 | 23.1      |
| 70°-80°   | 11827.6 | 18.1      |
| 80°-90°   | 1431.3  | 2.2       |
| 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°    | 65187.0 | 100.0     |
| 0°-180°   | 65187.0 | 100.0     |

**Coefficient of Utilization**

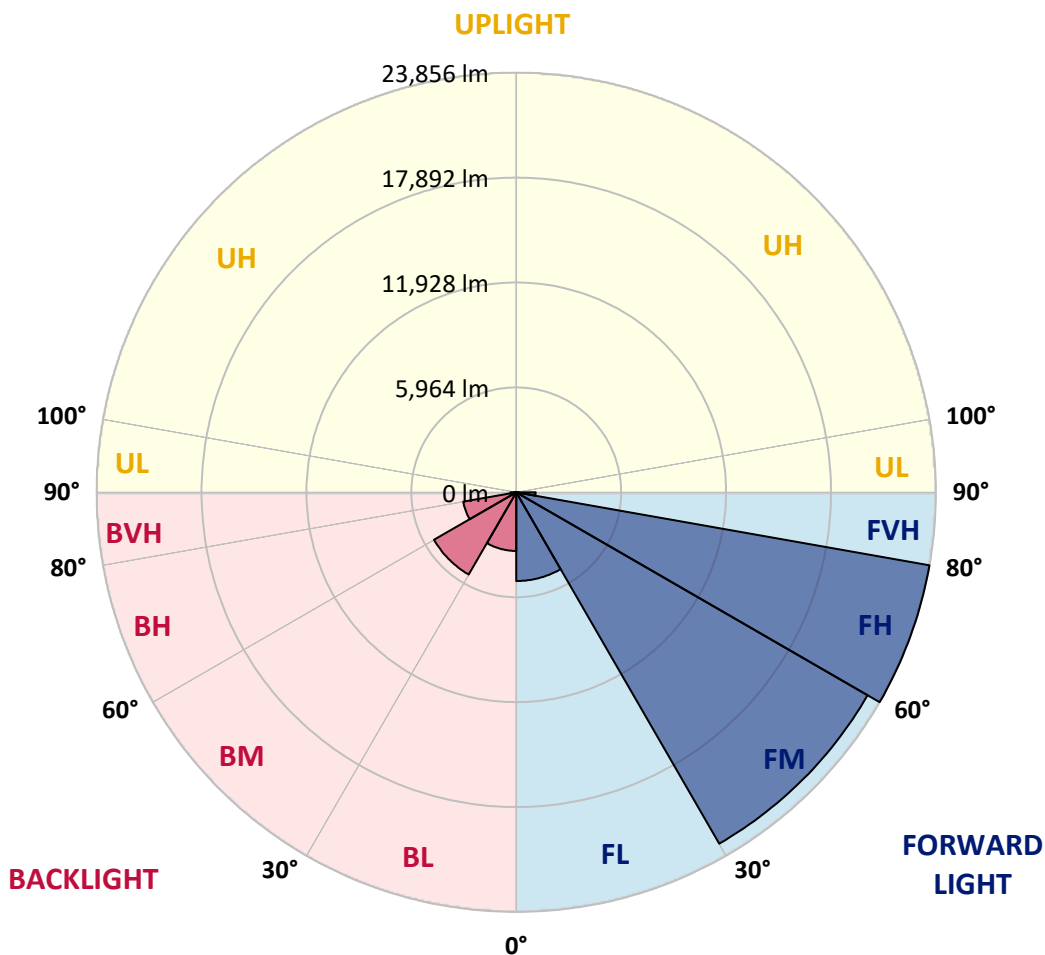


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 5043.6  | 7.7       |                         |      |         |
| FM (30°-60°)   | 23064.5 | 35.4      |                         |      |         |
| FH (60°-80°)   | 23856.2 | 36.6      |                         |      | G5      |
| FVH (80°-90°)  | 1106.6  | 1.7       |                         |      | G5      |
| BL (0°-30°)    | 3333.7  | 5.1       | B4/5000                 |      |         |
| BM (30°-60°)   | 5397.9  | 8.3       | B4/8500                 |      |         |
| BH (60°-80°)   | 3059.9  | 4.7       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 324.7   | 0.5       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 |
| 2.5°  | 11123.3 | 11096.9 | 11129.9 | 11176.1 | 11226.8 | 11295.0 | 11334.7 | 11352.3 | 11420.5 | 11446.9 | 11504.2 |
| 5°    | 10608.1 | 10594.9 | 10649.9 | 10729.2 | 10841.5 | 11000.0 | 11127.7 | 11151.9 | 11332.5 | 11460.2 | 11576.8 |
| 7.5°  | 10233.8 | 10233.8 | 10297.6 | 10392.3 | 10517.8 | 10731.4 | 10911.9 | 10944.9 | 11251.0 | 11526.2 | 11742.0 |
| 10°   | 9936.5  | 9947.5  | 10022.4 | 10134.7 | 10282.2 | 10509.0 | 10749.0 | 10786.4 | 11229.0 | 11680.3 | 12023.8 |
| 12.5° | 9738.4  | 9764.8  | 9833.1  | 9934.3  | 10117.1 | 10392.3 | 10696.1 | 10746.8 | 11275.2 | 11900.5 | 12362.9 |
| 15°   | 9863.9  | 9907.9  | 9914.5  | 9956.4  | 10057.6 | 10357.1 | 10727.0 | 10779.8 | 11374.3 | 12125.1 | 12748.2 |
| 17.5° | 10414.3 | 10429.7 | 10361.5 | 10273.4 | 10225.0 | 10416.5 | 10819.4 | 10874.5 | 11493.2 | 12347.5 | 13118.1 |
| 20°   | 11251.0 | 11242.2 | 11094.7 | 10856.9 | 10610.3 | 10641.1 | 10971.4 | 11028.6 | 11653.9 | 12543.4 | 13488.0 |
| 22.5° | 12307.8 | 12277.0 | 12050.2 | 11612.1 | 11191.5 | 11015.4 | 11237.8 | 11286.2 | 11896.1 | 12823.0 | 13884.3 |
| 25°   | 13589.3 | 13521.0 | 13221.6 | 12633.7 | 12015.0 | 11561.4 | 11638.5 | 11684.7 | 12248.4 | 13135.7 | 14247.6 |
| 27.5° | 14941.1 | 14872.9 | 14492.0 | 13780.8 | 12957.4 | 12250.6 | 12191.1 | 12230.8 | 12649.1 | 13366.9 | 14516.2 |
| 30°   | 16354.7 | 16282.0 | 15934.1 | 15137.1 | 13956.9 | 12964.0 | 12706.3 | 12721.8 | 12930.9 | 13492.4 | 14736.4 |
| 32.5° | 17774.8 | 17706.5 | 17316.8 | 16392.1 | 15042.4 | 13730.2 | 13078.4 | 13058.6 | 13100.5 | 13622.3 | 14985.2 |
| 35°   | 19214.7 | 19241.2 | 18785.4 | 17761.6 | 16244.6 | 14582.2 | 13518.8 | 13477.0 | 13384.5 | 13888.7 | 15337.5 |
| 37.5° | 20756.0 | 20738.4 | 20148.3 | 19078.2 | 17501.8 | 15507.0 | 14150.7 | 14144.1 | 13824.8 | 14392.9 | 15890.1 |
| 40°   | 21786.4 | 21797.4 | 21438.5 | 20425.7 | 18772.2 | 16530.8 | 14961.0 | 14945.5 | 14527.2 | 15148.1 | 16614.5 |
| 42.5° | 22189.3 | 22262.0 | 22354.5 | 21711.5 | 20102.1 | 17717.6 | 15927.5 | 15905.5 | 15507.0 | 16231.4 | 17466.6 |
| 45°   | 22217.9 | 22363.3 | 22935.7 | 22854.3 | 21449.5 | 19076.0 | 17162.7 | 17101.1 | 16814.8 | 17671.3 | 18483.8 |
| 47.5° | 21971.4 | 22121.1 | 23072.2 | 23534.6 | 22653.9 | 20509.4 | 18607.1 | 18558.6 | 18312.0 | 19472.4 | 19584.6 |
| 50°   | 21431.9 | 21575.0 | 22790.4 | 23867.1 | 23644.7 | 21887.7 | 20271.6 | 20143.9 | 20011.8 | 21553.0 | 20844.1 |
| 52.5° | 20421.3 | 20696.5 | 22413.9 | 23946.3 | 24237.0 | 23111.9 | 22022.0 | 21938.3 | 22011.0 | 23748.2 | 22105.7 |
| 55°   | 18028.0 | 18336.2 | 21442.9 | 23880.3 | 24675.1 | 24140.1 | 23772.4 | 23768.0 | 24144.5 | 26051.2 | 23459.7 |
| 57.5° | 16687.1 | 16905.1 | 19465.7 | 23768.0 | 25194.7 | 25161.7 | 25505.2 | 25547.0 | 26280.2 | 28559.0 | 24877.7 |
| 60°   | 15929.7 | 16158.7 | 18463.9 | 23351.9 | 26000.6 | 26482.8 | 27273.2 | 27356.9 | 28451.1 | 31335.4 | 26584.0 |
| 62.5° | 15240.6 | 15491.6 | 17843.1 | 22504.2 | 26949.5 | 28371.9 | 29391.3 | 29466.1 | 30749.8 | 34188.9 | 28233.2 |
| 65°   | 14062.6 | 14346.7 | 16933.7 | 21947.1 | 27812.6 | 30835.6 | 32084.0 | 32134.7 | 33389.7 | 37178.9 | 29494.8 |
| 67.5° | 12398.1 | 12657.9 | 15218.6 | 20716.3 | 28451.1 | 33827.8 | 35664.1 | 35692.7 | 36007.6 | 39290.4 | 30139.9 |
| 70°   | 10454.0 | 10553.0 | 12774.6 | 18175.5 | 27695.9 | 36626.3 | 39587.6 | 39594.2 | 38394.3 | 40642.3 | 30034.2 |
| 72.5° | 7345.1  | 7578.5  | 9273.8  | 13758.8 | 23801.0 | 36285.0 | 41624.2 | 41699.1 | 39504.0 | 39959.7 | 27634.3 |
| 75°   | 4504.8  | 4751.4  | 5817.0  | 8338.1  | 15099.7 | 28537.0 | 38458.1 | 38977.7 | 37423.3 | 35628.9 | 22574.6 |
| 77.5° | 3012.0  | 3104.5  | 3795.8  | 4861.5  | 6840.9  | 16418.5 | 29567.4 | 30545.0 | 31088.8 | 25983.0 | 14436.9 |
| 80°   | 1679.9  | 1856.1  | 2516.6  | 3020.8  | 3042.8  | 6523.8  | 17728.6 | 17957.5 | 17297.0 | 10346.1 | 4454.2  |
| 82.5° | 889.5   | 986.4   | 1679.9  | 1774.6  | 1660.1  | 2184.1  | 6607.5  | 6614.1  | 5526.4  | 2774.2  | 1323.3  |
| 85°   | 689.2   | 770.6   | 1151.5  | 1083.3  | 847.7   | 968.8   | 2179.7  | 2298.6  | 1880.3  | 1136.1  | 431.5   |
| 87.5° | 343.5   | 427.1   | 781.6   | 686.9   | 332.5   | 277.4   | 779.4   | 832.3   | 742.0   | 444.8   | 156.3   |
| 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):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 | 11497.6 |
| 2.5°  | 11526.2 | 11546.0 | 11570.2 | 11543.8 | 11535.0 | 11499.8 | 11440.3 | 11427.1 | 11396.3 | 11398.5 | 11416.1 |
| 5°    | 11627.5 | 11660.5 | 11647.3 | 11546.0 | 11424.9 | 11255.4 | 11079.3 | 10929.5 | 10830.5 | 10823.8 | 10817.2 |
| 7.5°  | 11821.2 | 11843.3 | 11739.8 | 11451.3 | 11112.3 | 10720.4 | 10350.5 | 10026.8 | 9830.9  | 9782.4  | 9771.4  |
| 10°   | 12125.1 | 12120.7 | 11836.7 | 11255.4 | 10579.5 | 9879.3  | 9284.8  | 8835.7  | 8573.6  | 8496.6  | 8476.8  |
| 12.5° | 12464.2 | 12413.5 | 11869.7 | 10898.7 | 9826.4  | 8855.5  | 8102.5  | 7602.7  | 7329.7  | 7241.6  | 7219.6  |
| 15°   | 12814.2 | 12688.7 | 11788.2 | 10365.9 | 8901.7  | 7752.4  | 6962.0  | 6499.6  | 6352.1  | 6303.6  | 6294.8  |
| 17.5° | 13140.1 | 12897.9 | 11554.8 | 9643.7  | 7847.1  | 6653.7  | 6037.2  | 5852.3  | 5887.5  | 5951.4  | 5953.6  |
| 20°   | 13459.4 | 13038.8 | 11180.5 | 8732.2  | 6735.2  | 5748.8  | 5539.6  | 5676.1  | 5843.5  | 5973.4  | 5991.0  |
| 22.5° | 13774.2 | 13137.9 | 10698.3 | 7679.7  | 5740.0  | 5240.2  | 5387.7  | 5636.5  | 5828.1  | 5969.0  | 5993.2  |
| 25°   | 14038.4 | 13162.1 | 10033.4 | 6556.8  | 5048.6  | 5048.6  | 5315.0  | 5550.6  | 5740.0  | 5878.7  | 5902.9  |
| 27.5° | 14135.3 | 12999.2 | 9095.5  | 5517.6  | 4700.8  | 4960.6  | 5213.8  | 5409.7  | 5570.4  | 5718.0  | 5744.4  |
| 30°   | 14172.7 | 12697.5 | 8012.2  | 4683.1  | 4557.6  | 4865.9  | 5077.3  | 5244.6  | 5396.5  | 5535.2  | 5559.4  |
| 32.5° | 14179.3 | 12334.3 | 6862.9  | 4209.8  | 4458.6  | 4766.8  | 4907.7  | 5055.2  | 5218.2  | 5273.2  | 5282.0  |
| 35°   | 14221.2 | 11904.9 | 5651.9  | 3967.6  | 4366.1  | 4674.3  | 4786.6  | 4892.3  | 4628.1  | 4647.9  | 4665.5  |
| 37.5° | 14342.3 | 11480.0 | 4639.1  | 3831.1  | 4306.6  | 4625.9  | 4760.2  | 4377.1  | 4170.1  | 4121.7  | 4115.1  |
| 40°   | 14569.0 | 11026.4 | 3888.3  | 3721.0  | 4284.6  | 4650.1  | 4590.7  | 4086.5  | 3729.8  | 3463.4  | 3423.7  |
| 42.5° | 14883.9 | 10537.6 | 3408.3  | 3648.3  | 4300.0  | 4766.8  | 4355.1  | 3806.8  | 3214.6  | 3042.8  | 3020.8  |
| 45°   | 15238.4 | 10024.6 | 3148.5  | 3597.7  | 4352.9  | 4857.1  | 4306.6  | 3434.7  | 2974.6  | 2844.7  | 2833.7  |
| 47.5° | 15581.8 | 9397.1  | 3014.2  | 3575.7  | 4425.5  | 4784.4  | 4101.9  | 3320.3  | 2860.1  | 2791.8  | 2798.4  |
| 50°   | 15976.0 | 8831.3  | 2932.7  | 3551.4  | 4489.4  | 4738.2  | 3870.7  | 3260.8  | 2816.0  | 2899.7  | 2987.8  |
| 52.5° | 16308.4 | 8245.6  | 2860.1  | 3503.0  | 4513.6  | 4656.7  | 3811.2  | 3271.8  | 2816.0  | 2976.8  | 3060.4  |
| 55°   | 16702.5 | 7803.0  | 2776.4  | 3401.7  | 4467.4  | 4425.5  | 3769.4  | 3337.9  | 2849.1  | 2747.8  | 2756.6  |
| 57.5° | 17211.1 | 7657.7  | 2683.9  | 3243.2  | 4313.2  | 4088.7  | 3749.6  | 3401.7  | 2829.3  | 2765.4  | 2787.4  |
| 60°   | 17915.7 | 7811.8  | 2646.5  | 3036.2  | 4073.3  | 3824.5  | 3751.8  | 3368.7  | 2690.5  | 2580.5  | 2582.7  |
| 62.5° | 18587.2 | 7983.6  | 2644.3  | 2906.3  | 3778.2  | 3588.9  | 3701.2  | 3260.8  | 2620.1  | 2556.2  | 2580.5  |
| 65°   | 18807.4 | 7809.6  | 2538.6  | 2761.0  | 3445.8  | 3307.0  | 3608.7  | 3146.3  | 2567.3  | 2470.4  | 2466.0  |
| 67.5° | 18512.4 | 7270.2  | 2325.1  | 2525.4  | 3064.8  | 2979.0  | 3487.6  | 3009.8  | 2483.6  | 2404.3  | 2391.1  |
| 70°   | 17636.1 | 6065.8  | 2060.8  | 2215.0  | 2631.1  | 2609.1  | 3296.0  | 2851.3  | 2371.3  | 2303.0  | 2245.8  |
| 72.5° | 15278.0 | 4322.1  | 1737.2  | 1842.9  | 2142.3  | 2212.8  | 3031.8  | 2644.3  | 2212.8  | 2065.2  | 1977.2  |
| 75°   | 12547.8 | 3199.2  | 1426.7  | 1448.8  | 1627.1  | 1818.7  | 2668.5  | 2402.1  | 2025.6  | 1774.6  | 1706.4  |
| 77.5° | 7684.1  | 1957.4  | 1136.1  | 1144.9  | 1166.9  | 1451.0  | 2197.4  | 2131.3  | 1787.8  | 1479.6  | 1431.1  |
| 80°   | 2488.0  | 1067.9  | 821.3   | 863.1   | 797.0   | 1063.4  | 1699.8  | 1814.2  | 1534.6  | 1237.4  | 1184.5  |
| 82.5° | 946.8   | 623.1   | 554.8   | 583.5   | 552.6   | 713.4   | 1239.6  | 1453.2  | 1257.2  | 1017.2  | 827.9   |
| 85°   | 458.0   | 352.3   | 328.1   | 367.7   | 341.3   | 365.5   | 792.6   | 1070.1  | 953.4   | 662.7   | 616.5   |
| 87.5° | 162.9   | 156.3   | 125.5   | 169.5   | 145.3   | 129.9   | 242.2   | 539.4   | 629.7   | 455.8   | 407.3   |
| 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)