

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: P532768

Luminaire Tested: **GLAN-SA8A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532768  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8A-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23145 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

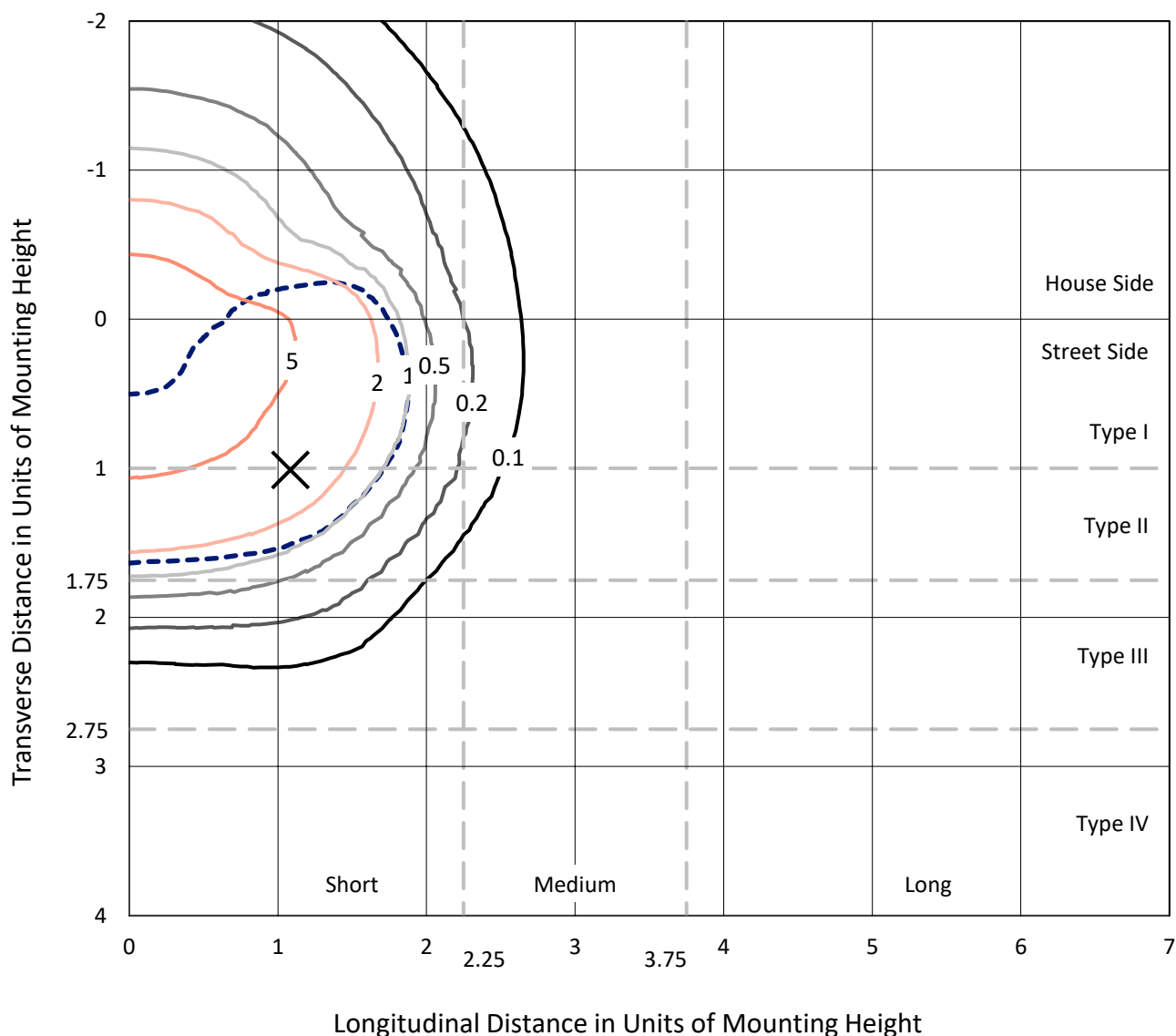
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

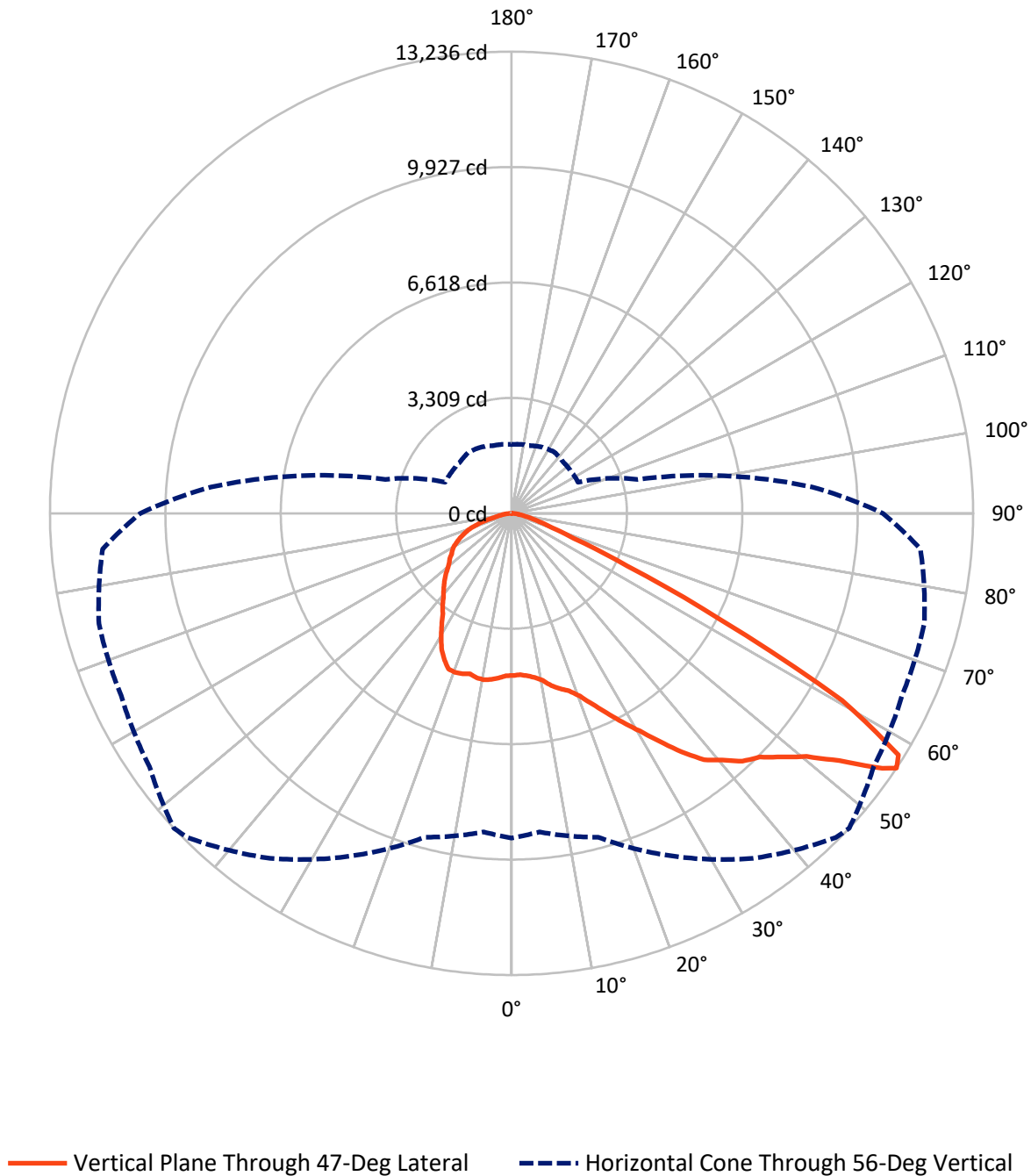
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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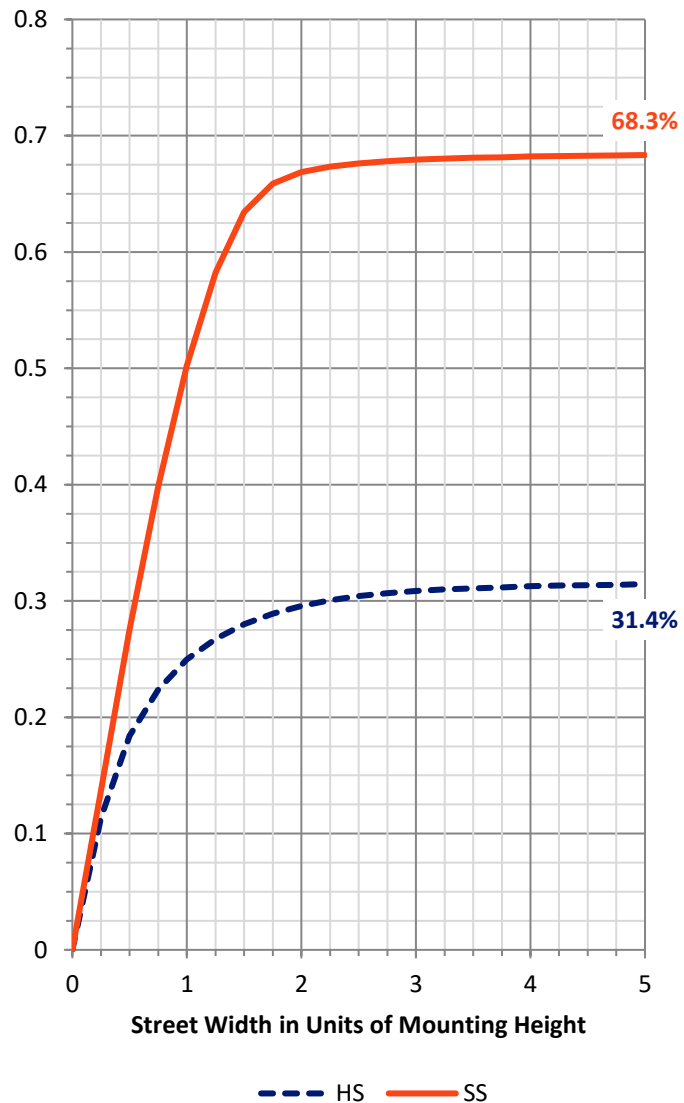
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7334.4   | 0.0    | 7334.4  |
|                    | % Fixture | 31.7     | 0.0    | 31.7    |
| <b>Street Side</b> | Lumens    | 15810.6  | 0.0    | 15810.6 |
|                    | % Fixture | 68.3     | 0.0    | 68.3    |
| <b>Total</b>       | Lumens    | 23145.0  | 0.0    | 23145.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 453.0   | 2.0       |
| 10°-20°   | 1429.0  | 6.2       |
| 20°-30°   | 2526.1  | 10.9      |
| 30°-40°   | 3794.1  | 16.4      |
| 40°-50°   | 5207.0  | 22.5      |
| 50°-60°   | 6203.5  | 26.8      |
| 60°-70°   | 2654.7  | 11.5      |
| 70°-80°   | 751.3   | 3.2       |
| 80°-90°   | 126.4   | 0.5       |
| 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°    | 23145.0 | 100.0     |
| 0°-180°   | 23145.0 | 100.0     |

**Coefficient of Utilization**



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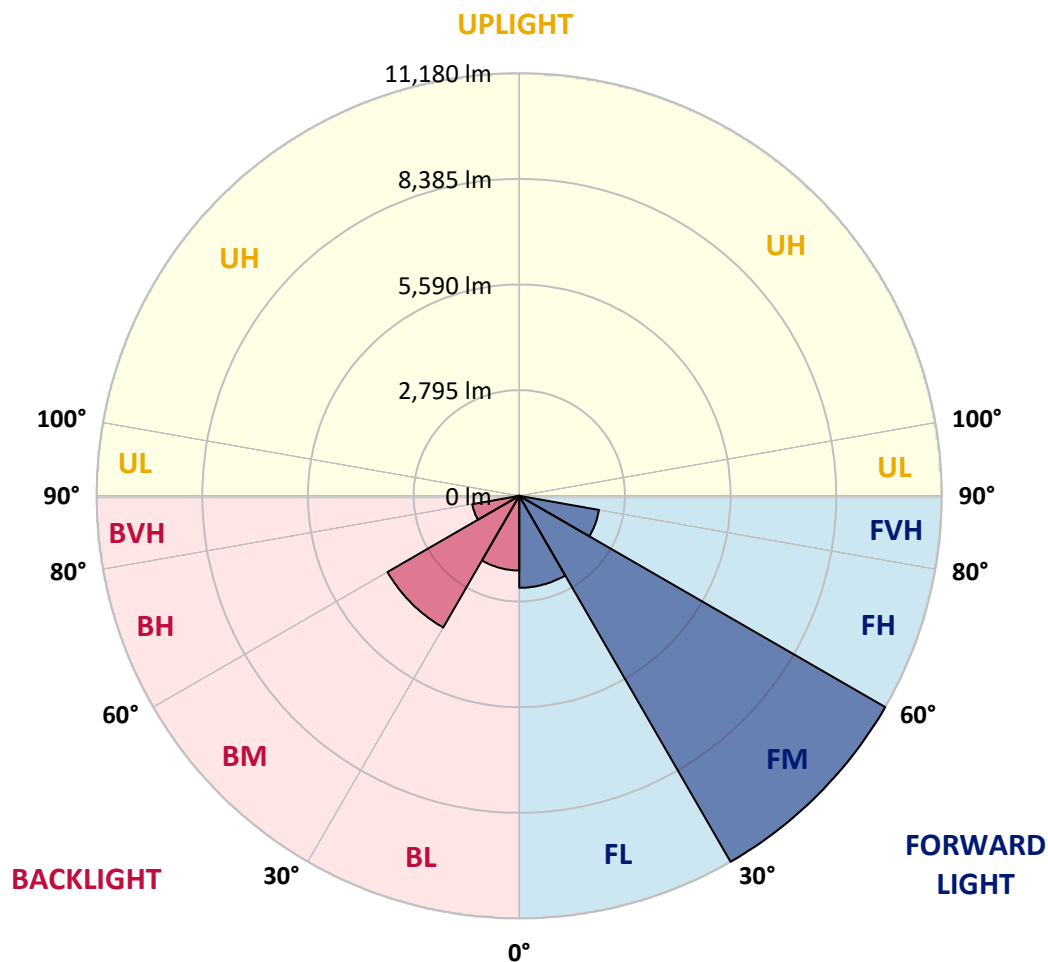
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2433.3  | 10.5      |                         |      |         |
| FM   | (30°-60°)   | 11179.6 | 48.3      |                         |      |         |
| FH   | (60°-80°)   | 2144.1  | 9.3       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 53.7    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1974.7  | 8.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4025.0  | 17.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1261.9  | 5.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 72.8    | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4649.1  | 4649.1  | 4649.1  | 4649.1  | 4649.1  | 4649.1  | 4649.1  | 4649.1  | 4649.1  | 4649.1  | 4649.1  |
| 2.5°  | 4631.4  | 4622.6  | 4616.7  | 4663.9  | 4646.2  | 4649.1  | 4631.4  | 4649.1  | 4660.9  | 4634.4  | 4672.7  |
| 5°    | 4622.6  | 4649.1  | 4625.5  | 4640.3  | 4678.6  | 4666.8  | 4678.6  | 4714.1  | 4705.2  | 4696.4  | 4684.5  |
| 7.5°  | 4705.2  | 4708.2  | 4725.9  | 4731.8  | 4743.6  | 4731.8  | 4749.5  | 4782.0  | 4773.1  | 4722.9  | 4728.8  |
| 10°   | 4823.3  | 4829.2  | 4832.1  | 4864.6  | 4885.3  | 4888.2  | 4867.6  | 4838.0  | 4835.1  | 4903.0  | 4855.8  |
| 12.5° | 4959.1  | 4944.3  | 4979.7  | 4991.5  | 5015.2  | 5041.7  | 5068.3  | 5006.3  | 5044.7  | 5047.6  | 4991.5  |
| 15°   | 5156.8  | 5171.6  | 5130.3  | 5130.3  | 5139.1  | 5142.1  | 5215.9  | 5186.4  | 5180.5  | 5148.0  | 5171.6  |
| 17.5° | 5452.0  | 5351.7  | 5348.7  | 5307.4  | 5301.5  | 5325.1  | 5351.7  | 5375.3  | 5455.0  | 5390.0  | 5263.1  |
| 20°   | 5667.5  | 5691.1  | 5605.5  | 5555.3  | 5564.2  | 5617.3  | 5590.8  | 5697.0  | 5753.1  | 5646.8  | 5522.9  |
| 22.5° | 6048.3  | 5968.6  | 5989.3  | 5877.1  | 5885.9  | 5942.0  | 5939.1  | 6048.3  | 6080.8  | 5912.5  | 5732.4  |
| 25°   | 6305.1  | 6284.4  | 6302.2  | 6213.6  | 6225.4  | 6269.7  | 6340.5  | 6520.6  | 6467.5  | 6281.5  | 5865.3  |
| 27.5° | 6680.0  | 6638.7  | 6623.9  | 6591.4  | 6579.6  | 6697.7  | 6780.3  | 6972.2  | 6933.8  | 6662.3  | 6101.4  |
| 30°   | 7063.7  | 7037.2  | 7051.9  | 6919.1  | 6966.3  | 7217.2  | 7240.8  | 7503.5  | 7485.8  | 7007.6  | 6364.1  |
| 32.5° | 7329.4  | 7344.1  | 7370.7  | 7296.9  | 7506.5  | 7707.2  | 7786.9  | 8085.1  | 8099.8  | 7601.0  | 6871.9  |
| 35°   | 7757.4  | 7707.2  | 7722.0  | 7807.6  | 7905.0  | 8271.0  | 8400.9  | 8598.7  | 8722.6  | 8223.8  | 7358.9  |
| 37.5° | 8026.0  | 8079.2  | 8017.2  | 8152.9  | 8406.8  | 8846.6  | 8964.7  | 9168.4  | 9298.3  | 8837.8  | 8023.1  |
| 40°   | 8445.2  | 8359.6  | 8403.9  | 8501.3  | 8761.0  | 9333.7  | 9301.2  | 9510.8  | 9552.1  | 9360.2  | 8642.9  |
| 42.5° | 8896.8  | 8855.5  | 8793.5  | 9014.9  | 9233.3  | 9649.5  | 9714.5  | 9617.1  | 9826.6  | 9870.9  | 9528.5  |
| 45°   | 9437.0  | 9487.2  | 9496.0  | 9501.9  | 9693.8  | 10056.9 | 9968.3  | 9882.7  | 10124.8 | 10446.5 | 10077.5 |
| 47.5° | 9938.8  | 9779.4  | 9894.5  | 10053.9 | 10325.5 | 10328.4 | 10431.8 | 10228.1 | 10484.9 | 10771.2 | 10573.4 |
| 50°   | 10107.1 | 10030.3 | 10183.8 | 10484.9 | 10904.0 | 10948.3 | 10960.1 | 10670.9 | 10803.7 | 11031.0 | 10744.6 |
| 52.5° | 10042.1 | 10015.5 | 10408.1 | 10874.5 | 11488.5 | 11712.8 | 11771.9 | 11414.7 | 11488.5 | 11385.2 | 11122.5 |
| 55°   | 9732.2  | 9811.9  | 10207.4 | 11157.9 | 12099.5 | 12793.2 | 12905.4 | 12453.8 | 11984.4 | 12064.1 | 11774.8 |
| 56°   | 9307.1  | 9168.4  | 9611.1  | 10836.2 | 12073.0 | 13144.5 | 13236.0 | 12672.2 | 12353.4 | 12250.1 | 11768.9 |
| 57.5° | 7896.1  | 7716.1  | 8297.6  | 9749.9  | 11402.9 | 13011.7 | 13079.5 | 12763.7 | 12291.4 | 12081.8 | 10910.0 |
| 60°   | 4622.6  | 4711.1  | 5449.1  | 6724.3  | 8796.4  | 10667.9 | 10895.2 | 11125.4 | 10809.6 | 9870.9  | 8120.5  |
| 62.5° | 2231.6  | 2175.5  | 2703.9  | 3855.1  | 5360.5  | 6809.9  | 6742.0  | 7388.4  | 7742.6  | 7013.5  | 5127.3  |
| 65°   | 1168.9  | 1163.0  | 1475.9  | 2104.7  | 2945.9  | 3577.6  | 3639.6  | 3987.9  | 4475.0  | 3613.0  | 2603.5  |
| 67.5° | 859.0   | 882.6   | 1039.0  | 1478.9  | 1895.1  | 1933.4  | 1924.6  | 2098.7  | 2146.0  | 1815.4  | 1599.9  |
| 70°   | 673.0   | 684.8   | 799.9   | 1124.6  | 1411.0  | 1263.4  | 1236.8  | 1257.5  | 1396.2  | 1455.3  | 1384.4  |
| 72.5° | 487.1   | 498.9   | 596.3   | 758.6   | 882.6   | 861.9   | 879.6   | 994.8   | 1166.0  | 1228.0  | 1154.2  |
| 75°   | 324.7   | 333.6   | 386.7   | 463.4   | 522.5   | 563.8   | 596.3   | 729.1   | 888.5   | 923.9   | 888.5   |
| 77.5° | 224.3   | 233.2   | 268.6   | 327.7   | 333.6   | 360.1   | 371.9   | 433.9   | 531.3   | 575.6   | 552.0   |
| 80°   | 126.9   | 126.9   | 144.6   | 168.3   | 206.6   | 242.0   | 248.0   | 298.1   | 342.4   | 371.9   | 377.8   |
| 82.5° | 59.0    | 62.0    | 76.7    | 103.3   | 135.8   | 168.3   | 174.2   | 206.6   | 239.1   | 268.6   | 277.5   |
| 85°   | 29.5    | 32.5    | 44.3    | 62.0    | 82.7    | 100.4   | 97.4    | 100.4   | 106.3   | 100.4   | 103.3   |
| 87.5° | 8.9     | 8.9     | 11.8    | 14.8    | 11.8    | 14.8    | 14.8    | 17.7    | 20.7    | 23.6    | 26.6    |
| 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°    | 4649.1  | 4649.1 | 4649.1 | 4649.1 | 4649.1 | 4649.1 | 4649.1 | 4649.1 | 4649.1 | 4649.1 | 4649.1 |
| 2.5°  | 4675.7  | 4684.5 | 4625.5 | 4681.6 | 4660.9 | 4658.0 | 4699.3 | 4693.4 | 4708.2 | 4702.3 | 4666.8 |
| 5°    | 4678.6  | 4658.0 | 4720.0 | 4663.9 | 4690.5 | 4746.5 | 4708.2 | 4796.7 | 4752.4 | 4782.0 | 4717.0 |
| 7.5°  | 4770.2  | 4776.1 | 4764.2 | 4787.9 | 4776.1 | 4802.6 | 4782.0 | 4802.6 | 4767.2 | 4770.2 | 4829.2 |
| 10°   | 4849.9  | 4832.1 | 4852.8 | 4823.3 | 4843.9 | 4835.1 | 4787.9 | 4773.1 | 4784.9 | 4770.2 | 4808.5 |
| 12.5° | 4997.4  | 4965.0 | 4950.2 | 4914.8 | 4891.2 | 4802.6 | 4728.8 | 4687.5 | 4743.6 | 4752.4 | 4734.7 |
| 15°   | 5148.0  | 5150.9 | 5083.0 | 5003.3 | 4855.8 | 4722.9 | 4740.6 | 4755.4 | 4755.4 | 4779.0 | 4734.7 |
| 17.5° | 5242.4  | 5242.4 | 5180.5 | 5021.1 | 4870.5 | 4793.8 | 4776.1 | 4728.8 | 4687.5 | 4681.6 | 4678.6 |
| 20°   | 5407.7  | 5357.6 | 5215.9 | 5018.1 | 4864.6 | 4829.2 | 4696.4 | 4584.2 | 4498.6 | 4469.1 | 4466.1 |
| 22.5° | 5596.7  | 5469.7 | 5272.0 | 5024.0 | 4855.8 | 4805.6 | 4557.6 | 4389.4 | 4235.9 | 4170.9 | 4179.8 |
| 25°   | 5770.8  | 5567.1 | 5304.4 | 4997.4 | 4823.3 | 4581.2 | 4303.8 | 4070.6 | 3911.2 | 3858.0 | 3831.5 |
| 27.5° | 5891.8  | 5670.5 | 5304.4 | 5021.1 | 4702.3 | 4330.3 | 4047.0 | 3748.8 | 3610.1 | 3574.7 | 3580.6 |
| 30°   | 6054.2  | 5800.3 | 5395.9 | 4970.9 | 4460.2 | 4005.6 | 3666.2 | 3471.3 | 3388.7 | 3359.2 | 3379.8 |
| 32.5° | 6435.0  | 6139.8 | 5522.9 | 4849.9 | 4173.9 | 3680.9 | 3406.4 | 3297.2 | 3176.2 | 3117.1 | 3096.5 |
| 35°   | 6848.2  | 6461.5 | 5646.8 | 4646.2 | 3852.1 | 3385.7 | 3214.5 | 3114.2 | 2969.5 | 2904.6 | 2916.4 |
| 37.5° | 7432.7  | 6874.8 | 5655.7 | 4309.7 | 3503.8 | 3220.4 | 3064.0 | 2907.5 | 2789.5 | 2689.1 | 2659.6 |
| 40°   | 8220.8  | 7438.6 | 5635.0 | 3955.4 | 3223.4 | 3025.6 | 2910.5 | 2715.7 | 2582.8 | 2512.0 | 2526.8 |
| 42.5° | 8914.5  | 8099.8 | 5549.4 | 3554.0 | 2969.5 | 2892.8 | 2762.9 | 2571.0 | 2441.2 | 2367.4 | 2361.5 |
| 45°   | 9499.0  | 8586.9 | 5387.1 | 3211.6 | 2757.0 | 2745.2 | 2594.7 | 2447.1 | 2343.8 | 2275.9 | 2305.4 |
| 47.5° | 10039.2 | 8979.5 | 5142.1 | 2869.2 | 2562.2 | 2585.8 | 2441.2 | 2349.7 | 2284.7 | 2222.7 | 2219.8 |
| 50°   | 10234.0 | 8973.6 | 4926.6 | 2585.8 | 2405.7 | 2393.9 | 2388.0 | 2290.6 | 2222.7 | 2169.6 | 2193.2 |
| 52.5° | 10558.7 | 9073.9 | 4693.4 | 2391.0 | 2264.1 | 2267.0 | 2287.7 | 2216.8 | 2140.1 | 2107.6 | 2137.1 |
| 55°   | 11025.1 | 9088.7 | 4179.8 | 2163.7 | 2146.0 | 2166.6 | 2166.6 | 2119.4 | 2054.5 | 2027.9 | 2013.1 |
| 56°   | 10644.3 | 8648.9 | 3748.8 | 2104.7 | 2086.9 | 2086.9 | 2143.0 | 2089.9 | 2010.2 | 1989.5 | 1971.8 |
| 57.5° | 9817.8  | 7577.3 | 3137.8 | 2033.8 | 2007.2 | 2048.6 | 2078.1 | 2022.0 | 1948.2 | 1918.7 | 1936.4 |
| 60°   | 6771.5  | 5127.3 | 2358.5 | 1880.3 | 1880.3 | 1948.2 | 1971.8 | 1889.2 | 1856.7 | 1853.7 | 1830.1 |
| 62.5° | 3952.5  | 2987.2 | 1844.9 | 1741.6 | 1747.5 | 1803.6 | 1821.3 | 1774.0 | 1732.7 | 1782.9 | 1806.5 |
| 65°   | 2095.8  | 1782.9 | 1582.2 | 1594.0 | 1596.9 | 1641.2 | 1718.0 | 1715.0 | 1712.1 | 1726.8 | 1729.8 |
| 67.5° | 1517.2  | 1481.8 | 1437.5 | 1425.7 | 1431.6 | 1464.1 | 1540.9 | 1599.9 | 1596.9 | 1561.5 | 1534.9 |
| 70°   | 1351.9  | 1301.8 | 1275.2 | 1278.1 | 1254.5 | 1292.9 | 1354.9 | 1393.3 | 1325.4 | 1284.0 | 1266.3 |
| 72.5° | 1124.6  | 1109.9 | 1092.2 | 1095.1 | 1047.9 | 1039.0 | 968.2  | 968.2  | 950.5  | 938.7  | 959.3  |
| 75°   | 859.0   | 853.1  | 861.9  | 847.2  | 797.0  | 743.9  | 702.5  | 664.2  | 605.1  | 581.5  | 569.7  |
| 77.5° | 543.1   | 560.8  | 581.5  | 549.0  | 528.4  | 490.0  | 448.7  | 410.3  | 363.1  | 336.5  | 336.5  |
| 80°   | 369.0   | 383.7  | 398.5  | 392.6  | 369.0  | 333.6  | 301.1  | 259.8  | 227.3  | 206.6  | 203.7  |
| 82.5° | 280.4   | 292.2  | 312.9  | 289.3  | 265.7  | 236.1  | 209.6  | 180.1  | 150.5  | 126.9  | 126.9  |
| 85°   | 100.4   | 115.1  | 126.9  | 138.7  | 147.6  | 150.5  | 129.9  | 106.3  | 85.6   | 67.9   | 64.9   |
| 87.5° | 26.6    | 29.5   | 32.5   | 29.5   | 29.5   | 29.5   | 32.5   | 29.5   | 26.6   | 20.7   | 20.7   |
| 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)