

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: P522890

Luminaire Tested: **GLAN-SA8C-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41764 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 429  
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

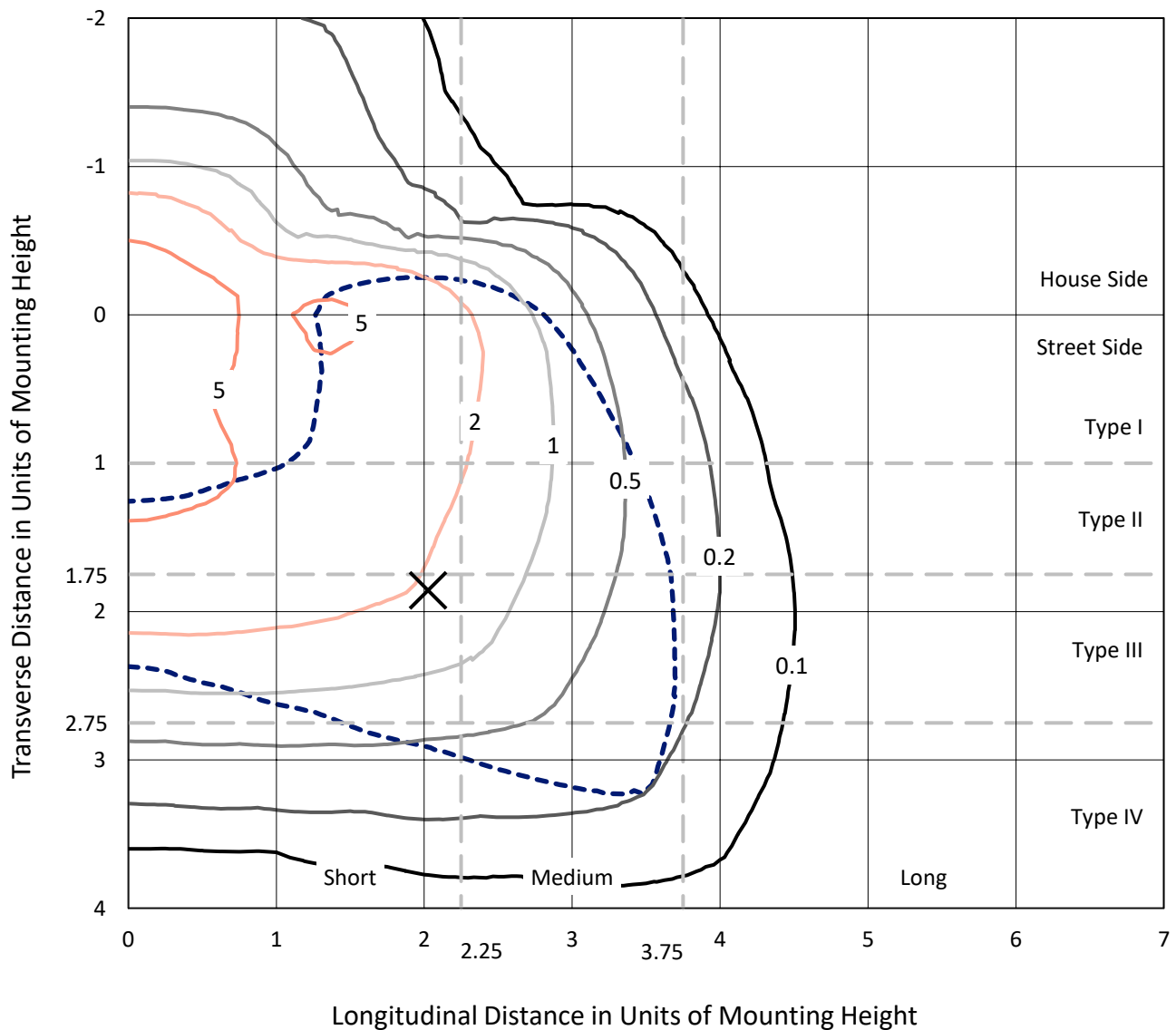


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

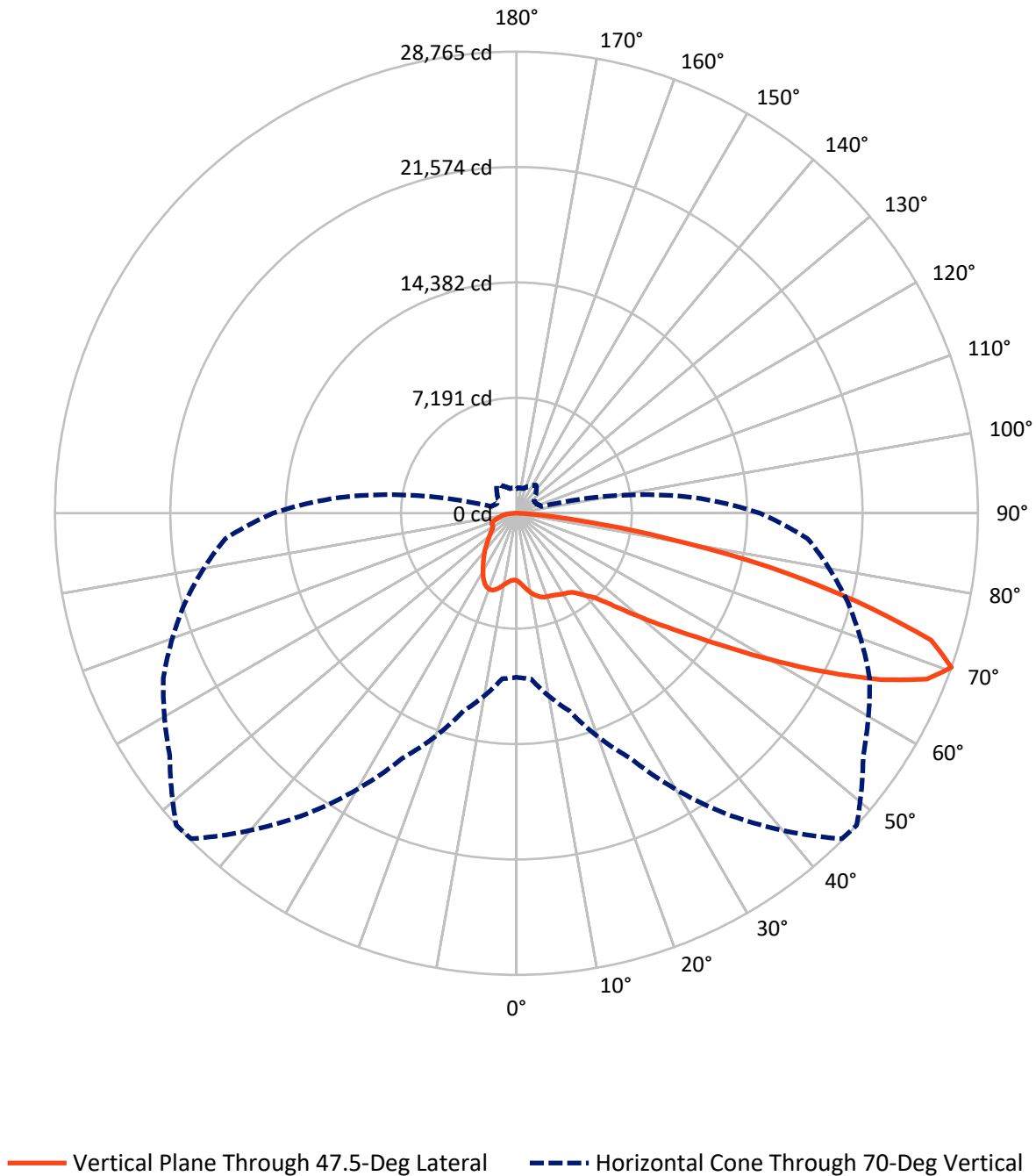


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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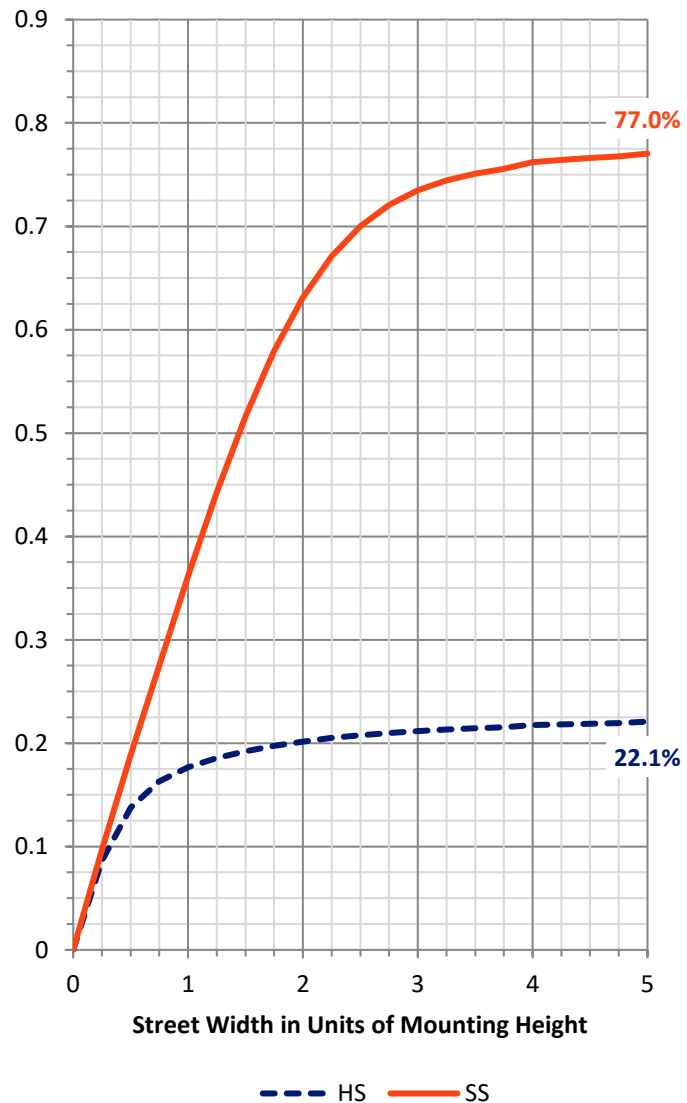
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9456.2   | 0.0    | 9456.2  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 32307.8  | 0.0    | 32307.8 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 41764.0  | 0.0    | 41764.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 432.2   | 1.0       |
| 10°-20°   | 1444.8  | 3.5       |
| 20°-30°   | 2402.6  | 5.8       |
| 30°-40°   | 3405.4  | 8.2       |
| 40°-50°   | 5027.1  | 12.0      |
| 50°-60°   | 8707.1  | 20.8      |
| 60°-70°   | 12299.1 | 29.4      |
| 70°-80°   | 7070.2  | 16.9      |
| 80°-90°   | 975.5   | 2.3       |
| 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°    | 41764.0 | 100.0     |
| 0°-180°   | 41764.0 | 100.0     |

**Coefficient of Utilization**



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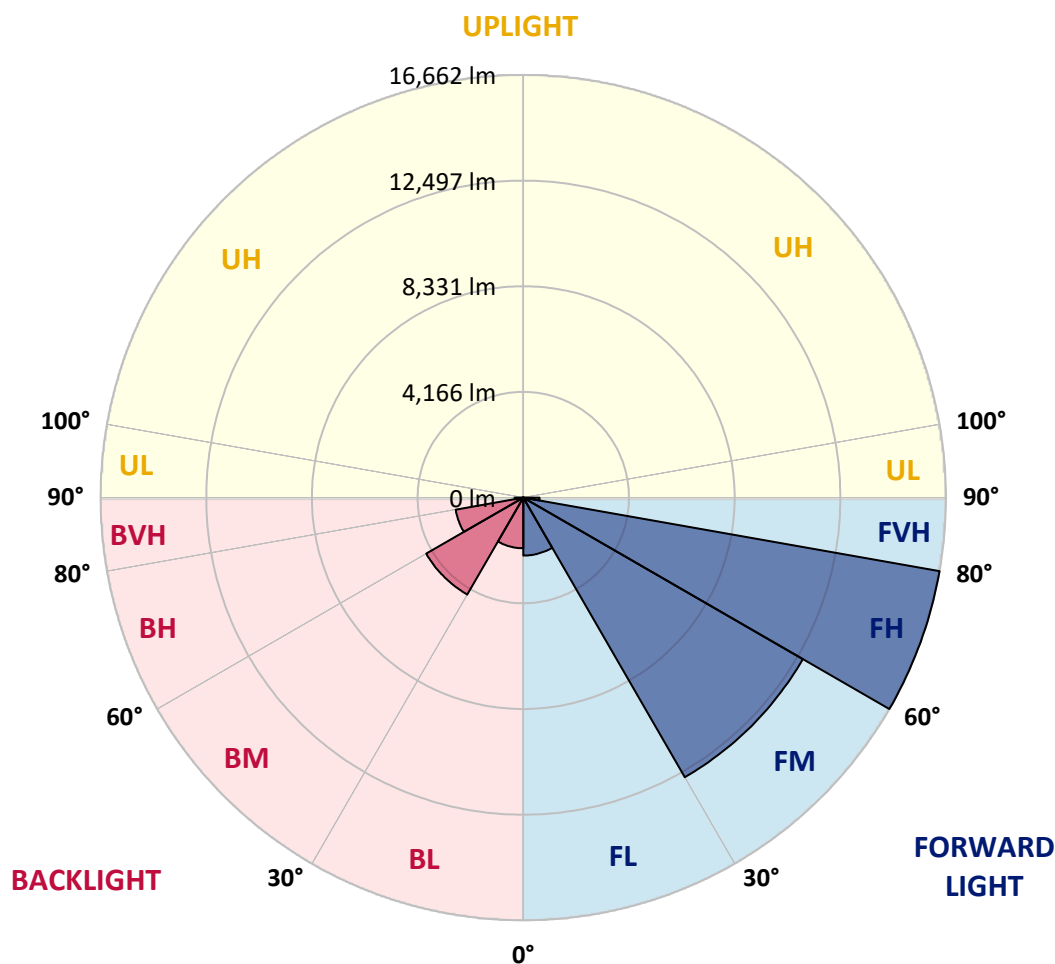
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2283.8  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 12724.7 | 30.5      |                         |      |         |
| FH   | (60°-80°)   | 16662.1 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 637.2   | 1.5       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1995.8  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4414.9  | 10.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2707.2  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 338.3   | 0.8       |                         |      | 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 Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 47.5°   | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4192.6  | 4192.6  | 4192.6  | 4192.6  | 4192.6  | 4192.6  | 4192.6  | 4192.6  | 4192.6  | 4192.6  | 4192.6  |
| 2.5°  | 4463.0  | 4447.4  | 4445.1  | 4411.6  | 4393.7  | 4360.2  | 4346.8  | 4315.5  | 4277.5  | 4239.5  | 4203.8  |
| 5°    | 4813.9  | 4813.9  | 4798.3  | 4751.3  | 4677.6  | 4601.6  | 4568.1  | 4507.7  | 4400.4  | 4313.3  | 4239.5  |
| 7.5°  | 5173.7  | 5178.2  | 5146.9  | 5077.6  | 4972.6  | 4849.7  | 4818.4  | 4729.0  | 4577.0  | 4449.6  | 4340.1  |
| 10°   | 5484.4  | 5484.4  | 5441.9  | 5348.0  | 5216.2  | 5082.1  | 5050.8  | 4950.2  | 4780.4  | 4621.7  | 4478.7  |
| 12.5° | 5721.2  | 5721.2  | 5665.4  | 5542.5  | 5399.4  | 5278.7  | 5243.0  | 5146.9  | 4988.2  | 4811.7  | 4630.6  |
| 15°   | 5875.5  | 5864.3  | 5801.7  | 5663.1  | 5524.6  | 5419.5  | 5395.0  | 5314.5  | 5169.2  | 4990.4  | 4787.1  |
| 17.5° | 5882.2  | 5877.7  | 5817.3  | 5701.1  | 5580.5  | 5508.9  | 5493.3  | 5439.7  | 5325.7  | 5155.8  | 4941.3  |
| 20°   | 5752.5  | 5761.5  | 5721.2  | 5638.6  | 5580.5  | 5549.2  | 5542.5  | 5524.6  | 5444.1  | 5285.5  | 5070.9  |
| 22.5° | 5614.0  | 5629.6  | 5591.6  | 5546.9  | 5542.5  | 5573.7  | 5578.2  | 5582.7  | 5531.3  | 5377.1  | 5180.4  |
| 25°   | 5580.5  | 5591.6  | 5553.6  | 5513.4  | 5538.0  | 5620.7  | 5638.6  | 5656.4  | 5616.2  | 5486.6  | 5310.0  |
| 27.5° | 5750.3  | 5741.4  | 5667.6  | 5580.5  | 5596.1  | 5707.8  | 5732.4  | 5752.5  | 5732.4  | 5620.7  | 5470.9  |
| 30°   | 6230.8  | 6201.7  | 6054.2  | 5799.5  | 5719.0  | 5797.2  | 5821.8  | 5877.7  | 5877.7  | 5795.0  | 5645.3  |
| 32.5° | 7035.3  | 6979.5  | 6709.1  | 6208.4  | 5929.1  | 5882.2  | 5906.7  | 5998.4  | 6045.3  | 5980.5  | 5817.3  |
| 35°   | 8012.0  | 7953.9  | 7567.2  | 6894.6  | 6313.5  | 6052.0  | 6045.3  | 6148.1  | 6273.3  | 6128.0  | 5915.7  |
| 37.5° | 8993.1  | 8932.7  | 8467.9  | 7712.5  | 6874.4  | 6409.6  | 6369.4  | 6405.1  | 6458.8  | 6192.8  | 6052.0  |
| 40°   | 9974.2  | 9902.7  | 9495.9  | 8626.6  | 7560.5  | 6883.4  | 6778.3  | 6617.4  | 6595.1  | 6405.1  | 6315.7  |
| 42.5° | 10946.4 | 10881.5 | 10675.9 | 9652.4  | 8383.0  | 7346.0  | 7185.1  | 6908.0  | 6992.9  | 6878.9  | 6800.7  |
| 45°   | 11927.5 | 11931.9 | 11712.9 | 10803.3 | 9375.3  | 8199.7  | 7982.9  | 7549.4  | 7750.5  | 7708.0  | 7752.7  |
| 47.5° | 12796.8 | 12785.7 | 12707.4 | 11920.8 | 10606.7 | 9299.3  | 9019.9  | 8517.1  | 8861.2  | 9017.7  | 9359.6  |
| 50°   | 13639.4 | 13632.7 | 13637.1 | 13187.9 | 12037.0 | 10606.7 | 10298.2 | 9770.8  | 10546.3 | 11089.4 | 11701.7 |
| 52.5° | 14846.2 | 14884.2 | 14613.8 | 14495.3 | 13775.7 | 12151.0 | 11811.3 | 11265.9 | 12537.6 | 13393.5 | 14589.2 |
| 55°   | 16057.5 | 16026.2 | 15813.9 | 15936.8 | 15594.9 | 13979.1 | 13623.7 | 13190.2 | 14754.6 | 15691.0 | 17487.8 |
| 57.5° | 16770.4 | 16781.6 | 16998.4 | 17599.5 | 17840.9 | 16258.6 | 15936.8 | 15601.6 | 17246.4 | 17910.2 | 20066.8 |
| 60°   | 17411.8 | 17463.2 | 18086.7 | 19222.1 | 19876.9 | 19058.9 | 18772.8 | 18446.6 | 19532.7 | 19796.4 | 22306.2 |
| 62.5° | 17613.0 | 17771.6 | 18860.0 | 20558.5 | 21861.4 | 22219.0 | 21863.7 | 21144.0 | 21709.5 | 21606.7 | 23823.6 |
| 65°   | 16609.5 | 16826.3 | 18777.3 | 21059.1 | 23633.7 | 25218.2 | 24992.5 | 23656.0 | 23564.4 | 22945.3 | 24071.7 |
| 67.5° | 13967.9 | 14184.7 | 16690.0 | 20008.7 | 24366.7 | 27815.1 | 27589.4 | 25488.6 | 24690.8 | 23070.5 | 22194.4 |
| 70°   | 10220.0 | 10356.4 | 12752.1 | 16846.4 | 22893.9 | 28686.7 | 28764.9 | 26382.6 | 24288.5 | 21369.8 | 18223.1 |
| 72.5° | 5888.9  | 6190.6  | 7869.0  | 11851.5 | 18703.6 | 26483.1 | 27026.2 | 24523.2 | 21745.2 | 17827.5 | 12741.0 |
| 75°   | 2532.1  | 2538.8  | 3638.4  | 6537.0  | 12667.2 | 21287.1 | 21812.3 | 20328.3 | 17076.6 | 12327.5 | 6802.9  |
| 77.5° | 1204.6  | 1226.9  | 1600.2  | 2918.7  | 6972.8  | 14707.6 | 16124.5 | 14361.2 | 10921.8 | 5922.4  | 2570.1  |
| 80°   | 782.2   | 797.8   | 978.9   | 1448.2  | 3419.3  | 8528.2  | 9516.0  | 8284.6  | 4818.4  | 2116.4  | 1108.5  |
| 82.5° | 473.8   | 478.3   | 654.8   | 885.0   | 1881.8  | 3861.8  | 4552.4  | 3595.9  | 2056.1  | 1267.2  | 652.6   |
| 85°   | 288.3   | 290.5   | 397.8   | 547.5   | 1142.0  | 1334.2  | 1370.0  | 1358.8  | 1206.8  | 829.1   | 348.6   |
| 87.5° | 138.6   | 143.0   | 205.6   | 259.2   | 449.2   | 413.4   | 391.1   | 453.7   | 569.9   | 447.0   | 149.7   |
| 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):**

|       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4192.6  | 4192.6  | 4192.6 | 4192.6 | 4192.6 | 4192.6 | 4192.6 | 4192.6 | 4192.6 | 4192.6 | 4192.6 |
| 2.5°  | 4188.1  | 4181.4  | 4165.8 | 4159.1 | 4154.6 | 4156.8 | 4154.6 | 4154.6 | 4156.8 | 4156.8 | 4156.8 |
| 5°    | 4208.2  | 4197.1  | 4172.5 | 4172.5 | 4185.9 | 4217.2 | 4246.2 | 4268.6 | 4293.2 | 4290.9 | 4290.9 |
| 7.5°  | 4295.4  | 4275.3  | 4246.2 | 4255.2 | 4288.7 | 4337.9 | 4389.3 | 4438.4 | 4487.6 | 4492.1 | 4489.8 |
| 10°   | 4422.8  | 4402.7  | 4371.4 | 4382.6 | 4436.2 | 4510.0 | 4574.8 | 4646.3 | 4699.9 | 4715.6 | 4711.1 |
| 12.5° | 4568.1  | 4527.8  | 4501.0 | 4532.3 | 4617.2 | 4715.6 | 4778.1 | 4831.8 | 4869.8 | 4892.1 | 4883.2 |
| 15°   | 4715.6  | 4677.6  | 4646.3 | 4711.1 | 4813.9 | 4905.5 | 4936.8 | 4945.8 | 4952.5 | 4974.8 | 4970.3 |
| 17.5° | 4858.6  | 4807.2  | 4796.0 | 4880.9 | 4979.3 | 5019.5 | 5001.6 | 4963.6 | 4934.6 | 4952.5 | 4950.2 |
| 20°   | 4986.0  | 4945.8  | 4941.3 | 5026.2 | 5064.2 | 5026.2 | 4950.2 | 4883.2 | 4831.8 | 4836.2 | 4834.0 |
| 22.5° | 5106.7  | 5075.4  | 5079.8 | 5115.6 | 5055.3 | 4925.6 | 4800.5 | 4708.9 | 4653.0 | 4664.2 | 4670.9 |
| 25°   | 5240.8  | 5209.5  | 5220.6 | 5162.5 | 4963.6 | 4737.9 | 4556.9 | 4478.7 | 4456.3 | 4478.7 | 4494.3 |
| 27.5° | 5415.1  | 5395.0  | 5388.3 | 5164.8 | 4800.5 | 4460.8 | 4255.2 | 4226.1 | 4246.2 | 4295.4 | 4320.0 |
| 30°   | 5602.8  | 5602.8  | 5567.0 | 5126.8 | 4577.0 | 4127.8 | 3949.0 | 3953.5 | 4022.8 | 4092.0 | 4116.6 |
| 32.5° | 5783.8  | 5821.8  | 5710.1 | 5024.0 | 4288.7 | 3803.7 | 3667.4 | 3671.9 | 3732.2 | 3817.1 | 3839.5 |
| 35°   | 5933.6  | 6043.1  | 5833.0 | 4836.2 | 3949.0 | 3531.1 | 3428.3 | 3367.9 | 3370.2 | 3435.0 | 3452.9 |
| 37.5° | 6139.2  | 6342.5  | 5904.5 | 4556.9 | 3587.0 | 3298.7 | 3182.4 | 3077.4 | 3008.1 | 2981.3 | 2981.3 |
| 40°   | 6496.7  | 6796.2  | 5922.4 | 4143.4 | 3245.0 | 3077.4 | 2912.0 | 2786.9 | 2652.8 | 2532.1 | 2509.8 |
| 42.5° | 7102.4  | 7480.1  | 5886.6 | 3667.4 | 2936.6 | 2833.8 | 2672.9 | 2518.7 | 2333.2 | 2163.3 | 2149.9 |
| 45°   | 8175.1  | 8369.6  | 5790.5 | 3173.5 | 2661.7 | 2599.1 | 2442.7 | 2275.1 | 2078.4 | 1926.5 | 1915.3 |
| 47.5° | 9893.7  | 9618.9  | 5663.1 | 2735.5 | 2411.4 | 2393.5 | 2272.9 | 2078.4 | 1881.8 | 1776.7 | 1765.5 |
| 50°   | 12403.5 | 11585.5 | 5645.3 | 2418.1 | 2210.3 | 2219.2 | 2120.9 | 1942.1 | 1770.0 | 1682.9 | 1669.4 |
| 52.5° | 15425.0 | 13961.2 | 5763.7 | 2194.6 | 2033.7 | 2067.2 | 2018.1 | 1852.7 | 1700.7 | 1627.0 | 1613.6 |
| 55°   | 18357.2 | 16097.7 | 5835.2 | 2020.3 | 1868.3 | 1930.9 | 1937.6 | 1799.1 | 1660.5 | 1586.8 | 1577.8 |
| 57.5° | 20737.3 | 17706.8 | 5517.9 | 1861.6 | 1725.3 | 1821.4 | 1870.6 | 1767.8 | 1640.4 | 1584.5 | 1575.6 |
| 60°   | 22393.3 | 18466.7 | 4615.0 | 1720.8 | 1620.3 | 1734.3 | 1846.0 | 1770.0 | 1689.6 | 1696.3 | 1700.7 |
| 62.5° | 22920.8 | 18129.2 | 3461.8 | 1615.8 | 1548.8 | 1705.2 | 1886.2 | 1861.6 | 1779.0 | 1830.4 | 1839.3 |
| 65°   | 22046.9 | 16734.7 | 2509.8 | 1533.1 | 1486.2 | 1725.3 | 2006.9 | 1928.7 | 1747.7 | 1785.7 | 1785.7 |
| 67.5° | 19121.5 | 14417.1 | 1953.3 | 1457.1 | 1414.7 | 1763.3 | 2127.6 | 1922.0 | 1673.9 | 1718.6 | 1678.4 |
| 70°   | 15168.0 | 11152.0 | 1627.0 | 1372.2 | 1338.7 | 1707.4 | 2138.8 | 1852.7 | 1586.8 | 1595.7 | 1519.7 |
| 72.5° | 10065.8 | 7332.6  | 1399.0 | 1291.8 | 1222.5 | 1535.4 | 2047.1 | 1763.3 | 1501.8 | 1450.4 | 1374.4 |
| 75°   | 4932.3  | 3656.2  | 1220.2 | 1191.2 | 1070.5 | 1336.4 | 1922.0 | 1678.4 | 1410.2 | 1329.7 | 1287.3 |
| 77.5° | 1910.8  | 1555.5  | 1041.4 | 1063.8 | 931.9  | 1177.8 | 1756.6 | 1557.7 | 1289.5 | 1180.0 | 1146.5 |
| 80°   | 927.5   | 882.8   | 853.7  | 887.2  | 766.6  | 1003.5 | 1604.6 | 1452.7 | 1177.8 | 1057.1 | 1007.9 |
| 82.5° | 576.6   | 545.3   | 654.8  | 690.6  | 590.0  | 916.3  | 1521.9 | 1363.3 | 1037.0 | 876.1  | 835.8  |
| 85°   | 292.8   | 312.9   | 438.0  | 471.6  | 422.4  | 728.6  | 1253.8 | 1023.6 | 748.7  | 621.3  | 625.8  |
| 87.5° | 111.7   | 149.7   | 230.2  | 248.1  | 225.7  | 384.4  | 690.6  | 596.7  | 480.5  | 326.3  | 301.7  |
| 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)