

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: P522863

Luminaire Tested: **GLAN-SA7D-827-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522863  
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-SA7D-827-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39639 lumens  
Efficiency: N/A  
Efficacy: 91.5 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): 433  
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

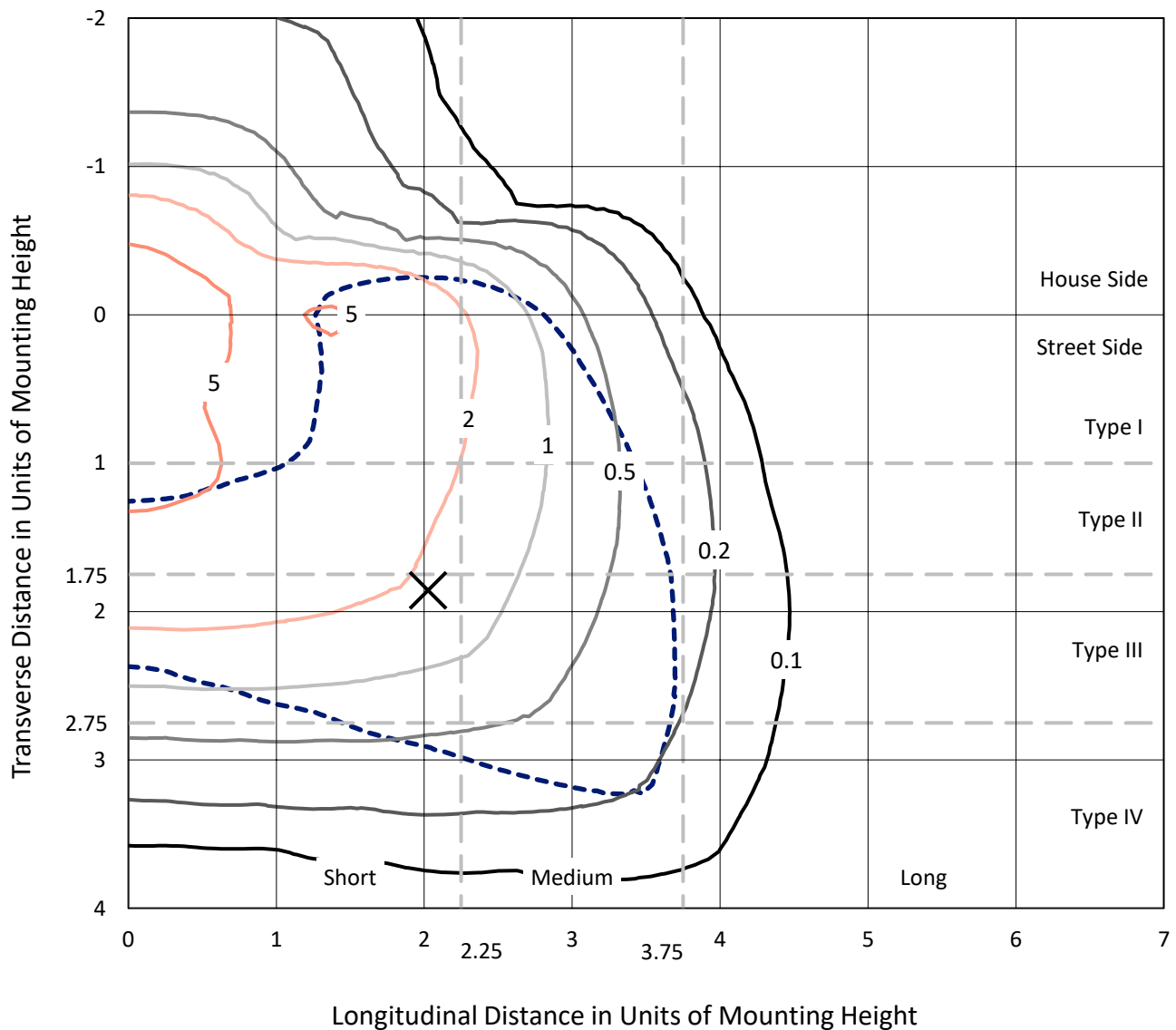


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

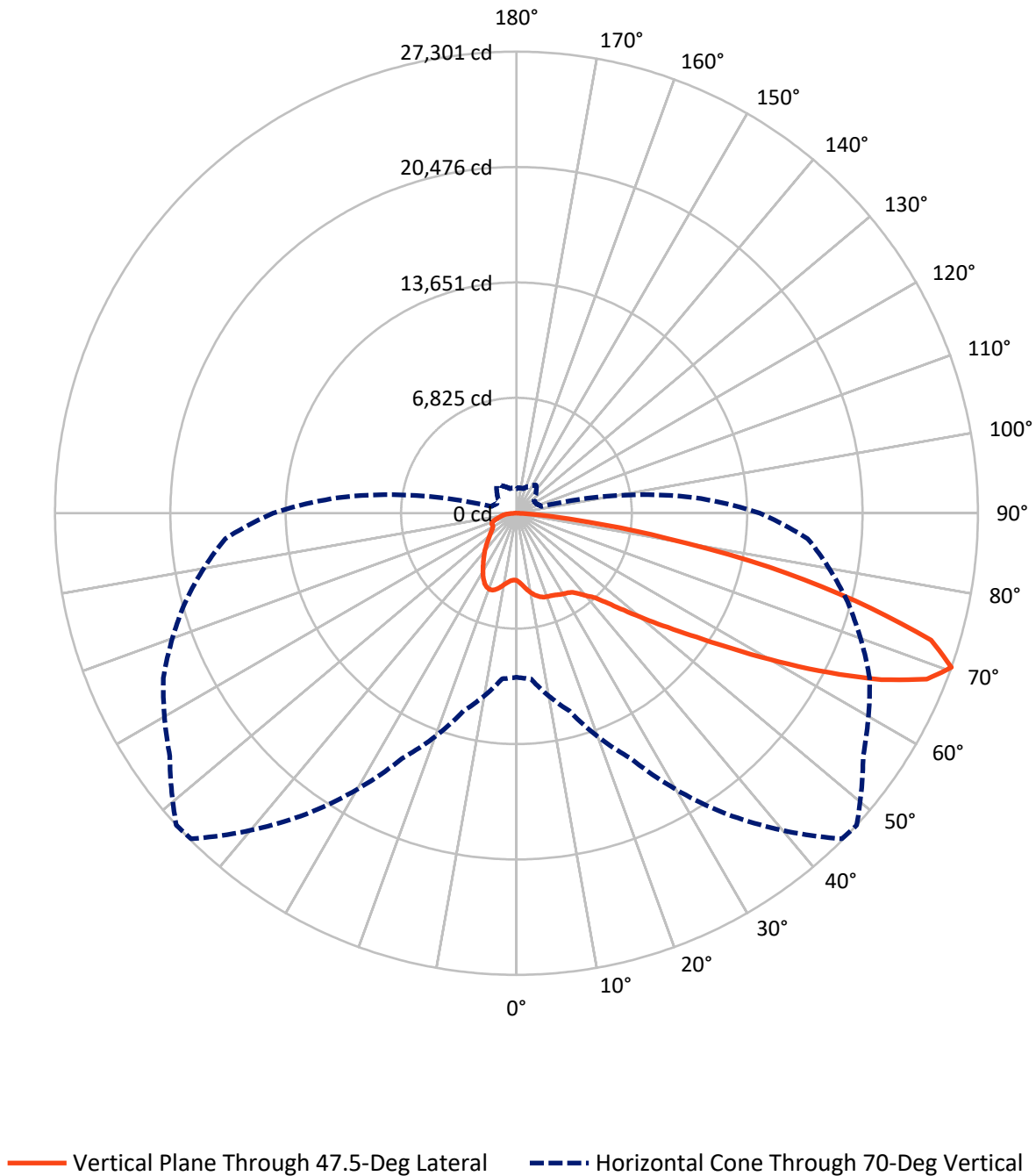


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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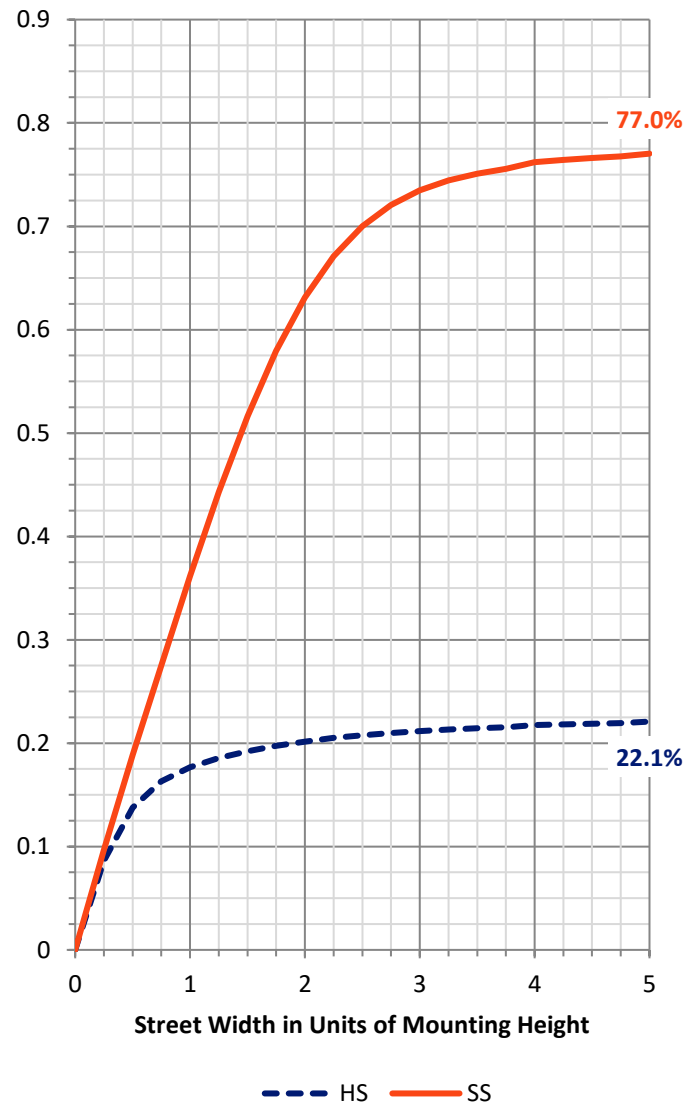
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8975.0   | 0.0    | 8975.0  |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 30664.0  | 0.0    | 30664.0 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 39639.0  | 0.0    | 39639.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 410.2   | 1.0       |
| 10°-20°   | 1371.3  | 3.5       |
| 20°-30°   | 2280.4  | 5.8       |
| 30°-40°   | 3232.1  | 8.2       |
| 40°-50°   | 4771.3  | 12.0      |
| 50°-60°   | 8264.1  | 20.8      |
| 60°-70°   | 11673.3 | 29.4      |
| 70°-80°   | 6710.4  | 16.9      |
| 80°-90°   | 925.9   | 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°    | 39639.0 | 100.0     |
| 0°-180°   | 39639.0 | 100.0     |

**Coefficient of Utilization**



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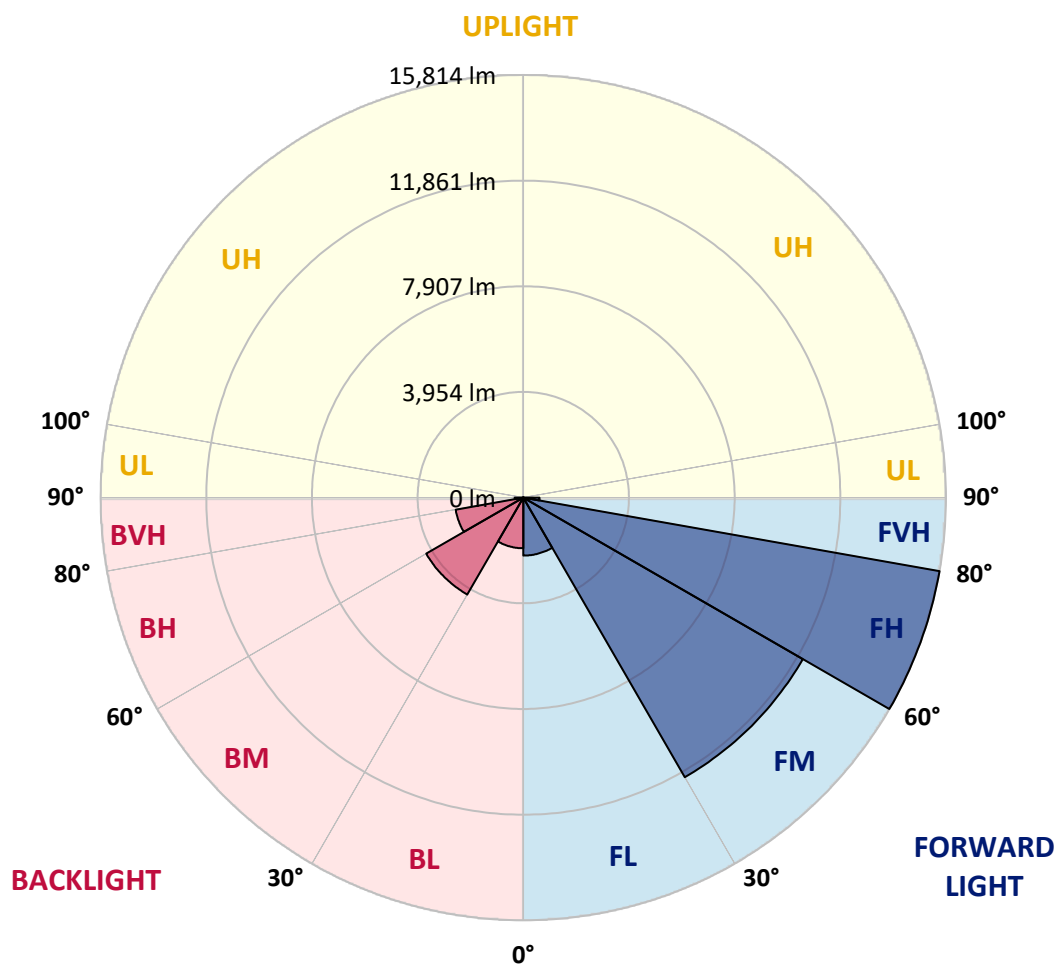
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2167.6  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 12077.2 | 30.5      |                         |      |         |
| FH   | (60°-80°)   | 15814.3 | 39.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 604.8   | 1.5       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1894.2  | 4.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4190.3  | 10.6      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2569.4  | 6.5       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 321.1   | 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°    | 3979.3  | 3979.3  | 3979.3  | 3979.3  | 3979.3  | 3979.3  | 3979.3  | 3979.3  | 3979.3  | 3979.3  | 3979.3  |
| 2.5°  | 4235.9  | 4221.1  | 4219.0  | 4187.2  | 4170.2  | 4138.4  | 4125.6  | 4095.9  | 4059.9  | 4023.8  | 3989.9  |
| 5°    | 4569.0  | 4569.0  | 4554.1  | 4509.6  | 4439.6  | 4367.4  | 4335.6  | 4278.4  | 4176.5  | 4093.8  | 4023.8  |
| 7.5°  | 4910.5  | 4914.7  | 4885.0  | 4819.3  | 4719.6  | 4602.9  | 4573.2  | 4488.4  | 4344.1  | 4223.2  | 4119.3  |
| 10°   | 5205.3  | 5205.3  | 5165.0  | 5075.9  | 4950.8  | 4823.5  | 4793.8  | 4698.3  | 4537.1  | 4386.5  | 4250.8  |
| 12.5° | 5430.1  | 5430.1  | 5377.1  | 5260.5  | 5124.7  | 5010.2  | 4976.2  | 4885.0  | 4734.4  | 4566.8  | 4395.0  |
| 15°   | 5576.5  | 5565.9  | 5506.5  | 5375.0  | 5243.5  | 5143.8  | 5120.5  | 5044.1  | 4906.2  | 4736.5  | 4543.5  |
| 17.5° | 5582.9  | 5578.6  | 5521.4  | 5411.1  | 5296.5  | 5228.6  | 5213.8  | 5162.9  | 5054.7  | 4893.5  | 4689.9  |
| 20°   | 5459.8  | 5468.3  | 5430.1  | 5351.7  | 5296.5  | 5266.8  | 5260.5  | 5243.5  | 5167.1  | 5016.5  | 4812.9  |
| 22.5° | 5328.3  | 5343.2  | 5307.1  | 5264.7  | 5260.5  | 5290.1  | 5294.4  | 5298.6  | 5249.8  | 5103.5  | 4916.8  |
| 25°   | 5296.5  | 5307.1  | 5271.1  | 5232.9  | 5256.2  | 5334.7  | 5351.7  | 5368.6  | 5330.5  | 5207.4  | 5039.9  |
| 27.5° | 5457.7  | 5449.2  | 5379.2  | 5296.5  | 5311.4  | 5417.4  | 5440.8  | 5459.8  | 5440.8  | 5334.7  | 5192.6  |
| 30°   | 5913.8  | 5886.2  | 5746.2  | 5504.4  | 5428.0  | 5502.3  | 5525.6  | 5578.6  | 5578.6  | 5500.1  | 5358.0  |
| 32.5° | 6677.4  | 6624.4  | 6367.7  | 5892.6  | 5627.4  | 5582.9  | 5606.2  | 5693.2  | 5737.7  | 5676.2  | 5521.4  |
| 35°   | 7604.3  | 7549.2  | 7182.2  | 6543.7  | 5992.3  | 5744.1  | 5737.7  | 5835.3  | 5954.1  | 5816.2  | 5614.7  |
| 37.5° | 8535.5  | 8478.2  | 8037.0  | 7320.1  | 6524.7  | 6083.5  | 6045.3  | 6079.2  | 6130.1  | 5877.7  | 5744.1  |
| 40°   | 9466.7  | 9398.8  | 9012.8  | 8187.6  | 7175.9  | 6533.1  | 6433.4  | 6280.7  | 6259.5  | 6079.2  | 5994.4  |
| 42.5° | 10389.4 | 10327.9 | 10132.7 | 9161.2  | 7956.4  | 6972.2  | 6819.5  | 6556.5  | 6637.1  | 6528.9  | 6454.7  |
| 45°   | 11320.6 | 11324.8 | 11117.0 | 10253.6 | 8898.2  | 7782.5  | 7576.8  | 7165.2  | 7356.2  | 7315.8  | 7358.3  |
| 47.5° | 12145.7 | 12135.1 | 12060.9 | 11314.2 | 10067.0 | 8826.1  | 8561.0  | 8083.7  | 8410.4  | 8558.8  | 8883.4  |
| 50°   | 12945.4 | 12939.0 | 12943.3 | 12516.9 | 11424.5 | 10067.0 | 9774.3  | 9273.7  | 10009.7 | 10525.1 | 11106.3 |
| 52.5° | 14090.8 | 14126.9 | 13870.2 | 13757.8 | 13074.8 | 11532.7 | 11210.3 | 10692.7 | 11899.7 | 12712.1 | 13846.9 |
| 55°   | 15240.5 | 15210.8 | 15009.3 | 15125.9 | 14801.4 | 13267.8 | 12930.5 | 12519.0 | 14003.8 | 14892.6 | 16598.0 |
| 57.5° | 15917.1 | 15927.7 | 16133.5 | 16704.1 | 16933.1 | 15431.4 | 15125.9 | 14807.8 | 16368.9 | 16998.9 | 19045.8 |
| 60°   | 16525.9 | 16574.7 | 17166.5 | 18244.0 | 18865.5 | 18089.2 | 17817.7 | 17508.0 | 18538.9 | 18789.2 | 21171.2 |
| 62.5° | 16716.8 | 16867.4 | 17900.4 | 19512.5 | 20749.1 | 21088.5 | 20751.2 | 20068.2 | 20604.9 | 20507.3 | 22611.5 |
| 65°   | 15764.4 | 15970.1 | 17821.9 | 19987.6 | 22431.2 | 23935.1 | 23720.8 | 22452.4 | 22365.4 | 21777.9 | 22846.9 |
| 67.5° | 13257.2 | 13462.9 | 15840.8 | 18990.7 | 23126.9 | 26399.8 | 26185.6 | 24191.7 | 23434.5 | 21896.6 | 21065.1 |
| 70°   | 9700.0  | 9829.4  | 12103.3 | 15989.2 | 21729.1 | 27227.1 | 27301.3 | 25040.2 | 23052.7 | 20282.4 | 17295.9 |
| 72.5° | 5589.2  | 5875.6  | 7468.6  | 11248.5 | 17751.9 | 25135.6 | 25651.1 | 23275.4 | 20638.8 | 16920.4 | 12092.7 |
| 75°   | 2403.3  | 2409.6  | 3453.2  | 6204.4  | 12022.7 | 20204.0 | 20702.4 | 19294.0 | 16207.7 | 11700.3 | 6456.8  |
| 77.5° | 1143.3  | 1164.5  | 1518.7  | 2770.2  | 6618.0  | 13959.3 | 15304.1 | 13630.5 | 10366.1 | 5621.0  | 2439.3  |
| 80°   | 742.4   | 757.3   | 929.1   | 1374.5  | 3245.4  | 8094.3  | 9031.9  | 7863.1  | 4573.2  | 2008.7  | 1052.1  |
| 82.5° | 449.7   | 453.9   | 621.5   | 840.0   | 1786.0  | 3665.3  | 4320.8  | 3412.9  | 1951.5  | 1202.7  | 619.4   |
| 85°   | 273.6   | 275.7   | 377.6   | 519.7   | 1083.9  | 1266.3  | 1300.3  | 1289.7  | 1145.4  | 786.9   | 330.9   |
| 87.5° | 131.5   | 135.8   | 195.1   | 246.1   | 426.4   | 392.4   | 371.2   | 430.6   | 540.9   | 424.2   | 142.1   |
| 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°    | 3979.3  | 3979.3  | 3979.3 | 3979.3 | 3979.3 | 3979.3 | 3979.3 | 3979.3 | 3979.3 | 3979.3 | 3979.3 |
| 2.5°  | 3975.0  | 3968.7  | 3953.8 | 3947.5 | 3943.2 | 3945.3 | 3943.2 | 3943.2 | 3945.3 | 3945.3 | 3945.3 |
| 5°    | 3994.1  | 3983.5  | 3960.2 | 3960.2 | 3972.9 | 4002.6 | 4030.2 | 4051.4 | 4074.7 | 4072.6 | 4072.6 |
| 7.5°  | 4076.9  | 4057.8  | 4030.2 | 4038.7 | 4070.5 | 4117.2 | 4165.9 | 4212.6 | 4259.3 | 4263.5 | 4261.4 |
| 10°   | 4197.8  | 4178.7  | 4149.0 | 4159.6 | 4210.5 | 4280.5 | 4342.0 | 4409.9 | 4460.8 | 4475.6 | 4471.4 |
| 12.5° | 4335.6  | 4297.5  | 4272.0 | 4301.7 | 4382.3 | 4475.6 | 4535.0 | 4585.9 | 4622.0 | 4643.2 | 4634.7 |
| 15°   | 4475.6  | 4439.6  | 4409.9 | 4471.4 | 4569.0 | 4655.9 | 4685.6 | 4694.1 | 4700.5 | 4721.7 | 4717.4 |
| 17.5° | 4611.4  | 4562.6  | 4552.0 | 4632.6 | 4725.9 | 4764.1 | 4747.1 | 4711.1 | 4683.5 | 4700.5 | 4698.3 |
| 20°   | 4732.3  | 4694.1  | 4689.9 | 4770.5 | 4806.5 | 4770.5 | 4698.3 | 4634.7 | 4585.9 | 4590.2 | 4588.0 |
| 22.5° | 4846.8  | 4817.1  | 4821.4 | 4855.3 | 4798.0 | 4675.0 | 4556.2 | 4469.3 | 4416.2 | 4426.8 | 4433.2 |
| 25°   | 4974.1  | 4944.4  | 4955.0 | 4899.9 | 4711.1 | 4496.8 | 4325.0 | 4250.8 | 4229.6 | 4250.8 | 4265.6 |
| 27.5° | 5139.5  | 5120.5  | 5114.1 | 4902.0 | 4556.2 | 4233.8 | 4038.7 | 4011.1 | 4030.2 | 4076.9 | 4100.2 |
| 30°   | 5317.7  | 5317.7  | 5283.8 | 4865.9 | 4344.1 | 3917.8 | 3748.1 | 3752.3 | 3818.1 | 3883.8 | 3907.2 |
| 32.5° | 5489.5  | 5525.6  | 5419.5 | 4768.3 | 4070.5 | 3610.2 | 3480.8 | 3485.1 | 3542.3 | 3622.9 | 3644.1 |
| 35°   | 5631.7  | 5735.6  | 5536.2 | 4590.2 | 3748.1 | 3351.4 | 3253.8 | 3196.6 | 3198.7 | 3260.2 | 3277.2 |
| 37.5° | 5826.8  | 6019.8  | 5604.1 | 4325.0 | 3404.4 | 3130.8 | 3020.5 | 2920.8 | 2855.1 | 2829.6 | 2829.6 |
| 40°   | 6166.2  | 6450.4  | 5621.0 | 3932.6 | 3079.9 | 2920.8 | 2763.9 | 2645.1 | 2517.8 | 2403.3 | 2382.1 |
| 42.5° | 6741.0  | 7099.5  | 5587.1 | 3480.8 | 2787.2 | 2689.6 | 2536.9 | 2390.5 | 2214.5 | 2053.3 | 2040.5 |
| 45°   | 7759.2  | 7943.7  | 5495.9 | 3012.0 | 2526.3 | 2466.9 | 2318.4 | 2159.3 | 1972.7 | 1828.4 | 1817.8 |
| 47.5° | 9390.3  | 9129.4  | 5375.0 | 2596.3 | 2288.7 | 2271.8 | 2157.2 | 1972.7 | 1786.0 | 1686.3 | 1675.7 |
| 50°   | 11772.4 | 10996.0 | 5358.0 | 2295.1 | 2097.8 | 2106.3 | 2013.0 | 1843.3 | 1680.0 | 1597.2 | 1584.5 |
| 52.5° | 14640.2 | 13250.8 | 5470.4 | 2083.0 | 1930.2 | 1962.1 | 1915.4 | 1758.4 | 1614.2 | 1544.2 | 1531.5 |
| 55°   | 17423.1 | 15278.6 | 5538.3 | 1917.5 | 1773.3 | 1832.7 | 1839.0 | 1707.5 | 1576.0 | 1506.0 | 1497.5 |
| 57.5° | 19682.2 | 16805.9 | 5237.1 | 1766.9 | 1637.5 | 1728.7 | 1775.4 | 1677.8 | 1556.9 | 1503.9 | 1495.4 |
| 60°   | 21253.9 | 17527.1 | 4380.2 | 1633.3 | 1537.8 | 1646.0 | 1752.1 | 1680.0 | 1603.6 | 1610.0 | 1614.2 |
| 62.5° | 21754.5 | 17206.8 | 3285.7 | 1533.6 | 1470.0 | 1618.4 | 1790.3 | 1766.9 | 1688.4 | 1737.2 | 1745.7 |
| 65°   | 20925.2 | 15883.2 | 2382.1 | 1455.1 | 1410.6 | 1637.5 | 1904.8 | 1830.6 | 1658.7 | 1694.8 | 1694.8 |
| 67.5° | 18148.6 | 13683.5 | 1853.9 | 1383.0 | 1342.7 | 1673.6 | 2019.3 | 1824.2 | 1588.7 | 1631.2 | 1593.0 |
| 70°   | 14396.2 | 10584.5 | 1544.2 | 1302.4 | 1270.6 | 1620.6 | 2029.9 | 1758.4 | 1506.0 | 1514.5 | 1442.4 |
| 72.5° | 9553.7  | 6959.5  | 1327.8 | 1226.0 | 1160.3 | 1457.2 | 1943.0 | 1673.6 | 1425.4 | 1376.6 | 1304.5 |
| 75°   | 4681.4  | 3470.2  | 1158.1 | 1130.6 | 1016.0 | 1268.4 | 1824.2 | 1593.0 | 1338.4 | 1262.1 | 1221.8 |
| 77.5° | 1813.6  | 1476.3  | 988.5  | 1009.7 | 884.5  | 1117.8 | 1667.2 | 1478.4 | 1223.9 | 1120.0 | 1088.2 |
| 80°   | 880.3   | 837.9   | 810.3  | 842.1  | 727.6  | 952.4  | 1523.0 | 1378.7 | 1117.8 | 1003.3 | 956.6  |
| 82.5° | 547.3   | 517.6   | 621.5  | 655.4  | 560.0  | 869.7  | 1444.5 | 1293.9 | 984.2  | 831.5  | 793.3  |
| 85°   | 277.9   | 297.0   | 415.7  | 447.6  | 400.9  | 691.5  | 1190.0 | 971.5  | 710.6  | 589.7  | 593.9  |
| 87.5° | 106.1   | 142.1   | 218.5  | 235.4  | 214.2  | 364.8  | 655.4  | 566.3  | 456.0  | 309.7  | 286.4  |
| 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)