

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: P528934

Luminaire Tested: **GLAN-SA4A-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-740-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15334 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 121  
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



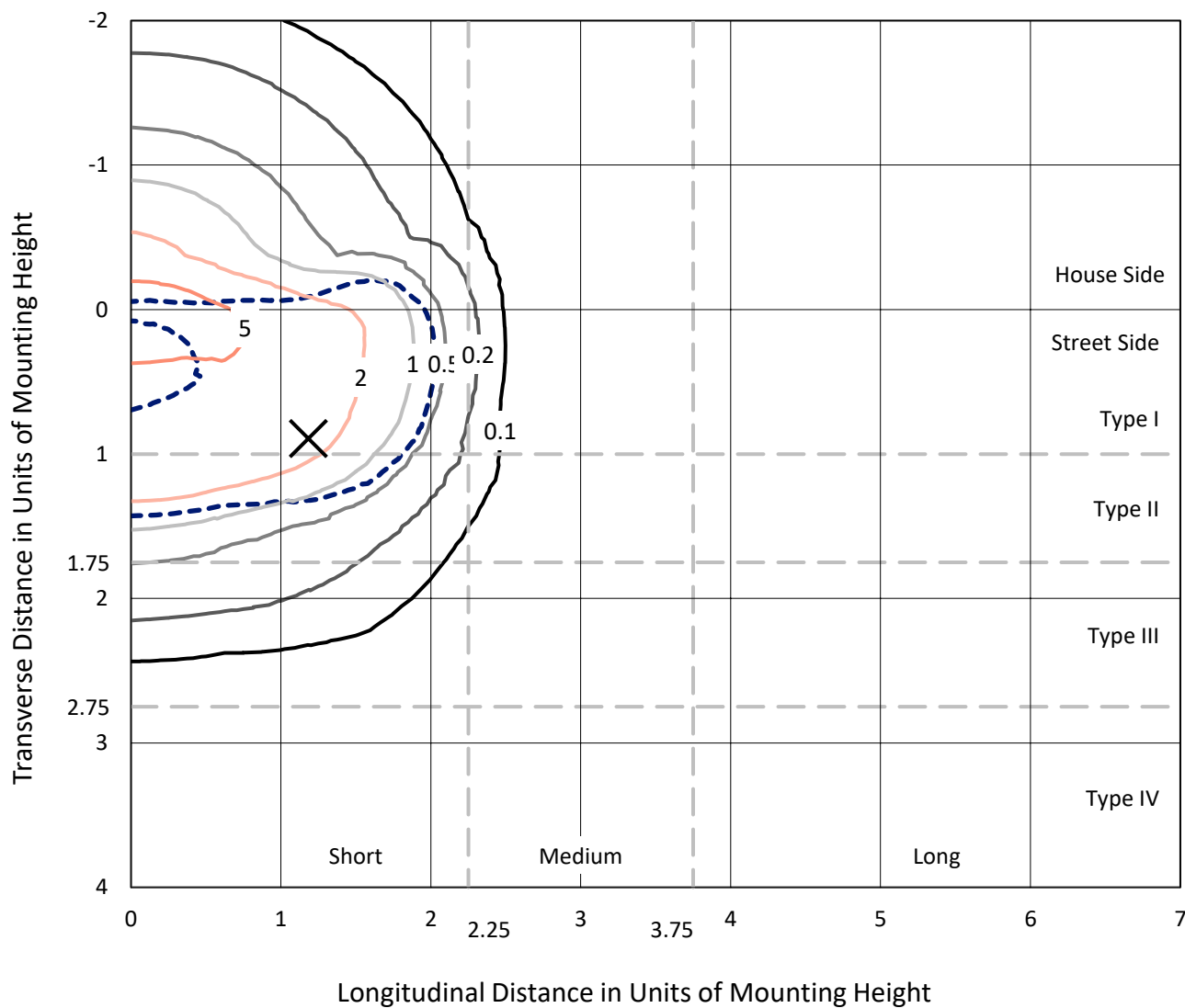
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

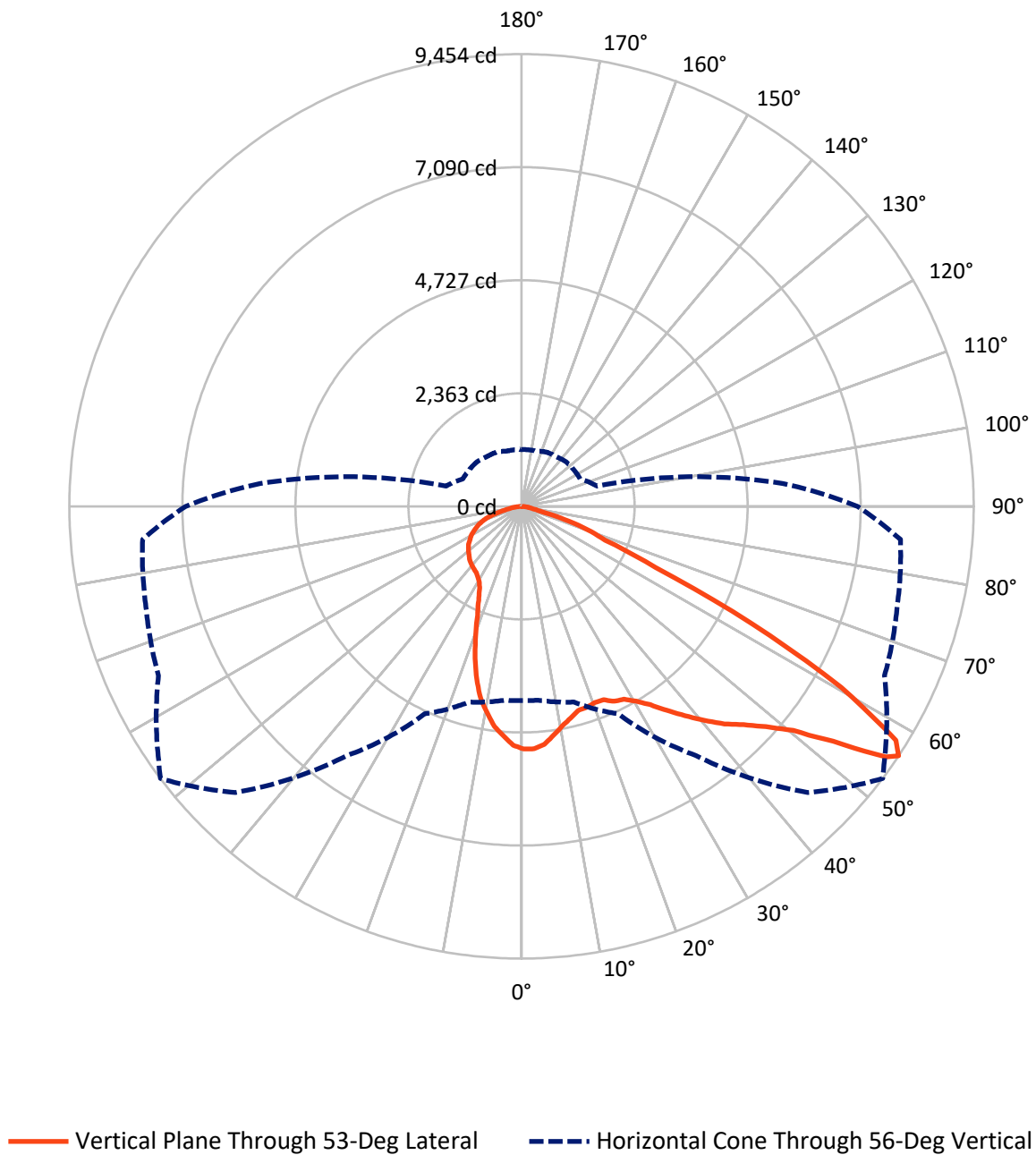


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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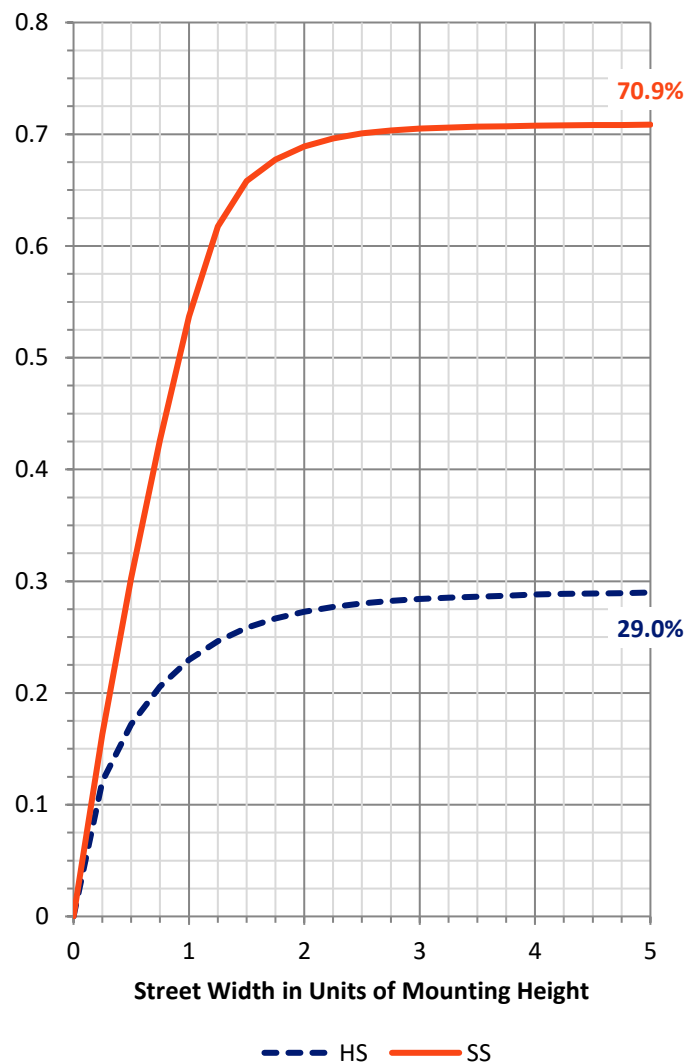
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4474.8   | 0.0    | 4474.8  |
|                    | % Fixture | 29.2     | 0.0    | 29.2    |
| <b>Street Side</b> | Lumens    | 10859.2  | 0.0    | 10859.2 |
|                    | % Fixture | 70.8     | 0.0    | 70.8    |
| <b>Total</b>       | Lumens    | 15334.0  | 0.0    | 15334.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 449.1   | 2.9       |
| 10°-20°   | 1121.7  | 7.3       |
| 20°-30°   | 1654.0  | 10.8      |
| 30°-40°   | 2363.3  | 15.4      |
| 40°-50°   | 3252.7  | 21.2      |
| 50°-60°   | 3843.9  | 25.1      |
| 60°-70°   | 2048.5  | 13.4      |
| 70°-80°   | 519.7   | 3.4       |
| 80°-90°   | 81.0    | 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°    | 15334.0 | 100.0     |
| 0°-180°   | 15334.0 | 100.0     |

**Coefficient of Utilization**



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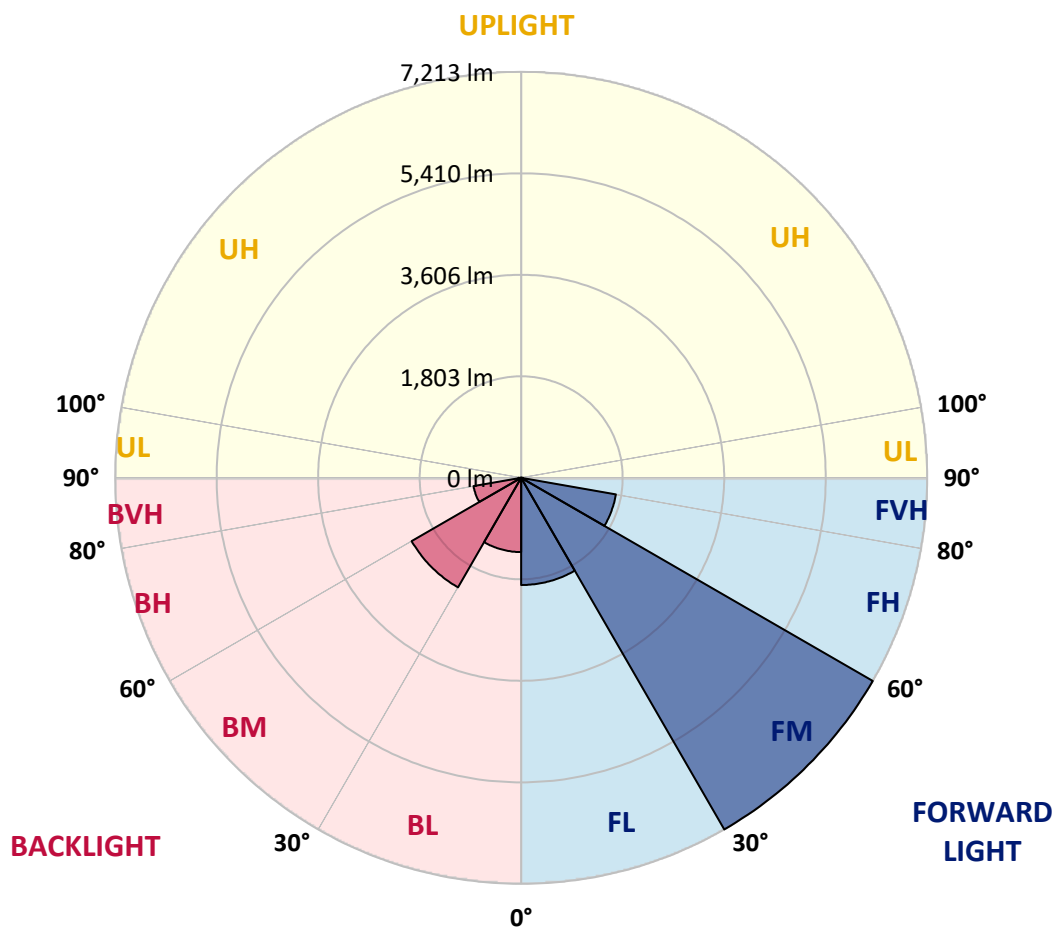
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1905.0 | 12.4      |                         |      |         |
| FM   | (30°-60°)   | 7212.8 | 47.0      |                         |      |         |
| FH   | (60°-80°)   | 1708.8 | 11.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 32.6   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1319.8 | 8.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2247.1 | 14.7      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 859.4  | 5.6       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 48.5   | 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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 53°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 |
| 2.5°  | 5010.1 | 4966.9 | 4992.4 | 4982.6 | 5063.3 | 5086.9 | 5075.1 | 5084.9 | 5130.1 | 5108.5 | 5063.3 |
| 5°    | 4681.6 | 4742.6 | 4754.4 | 4783.9 | 4831.1 | 4923.6 | 4996.4 | 5016.0 | 5037.7 | 5138.0 | 5128.2 |
| 7.5°  | 4382.6 | 4424.0 | 4402.3 | 4488.9 | 4591.2 | 4740.7 | 4829.2 | 4844.9 | 5043.6 | 5098.7 | 5140.0 |
| 10°   | 4193.8 | 4152.5 | 4250.9 | 4274.5 | 4390.5 | 4561.7 | 4667.9 | 4732.8 | 4913.8 | 5132.1 | 5157.7 |
| 12.5° | 4018.7 | 4005.0 | 4064.0 | 4130.9 | 4260.7 | 4437.7 | 4545.9 | 4571.5 | 4850.8 | 5081.0 | 5201.0 |
| 15°   | 3888.9 | 3873.2 | 3932.2 | 3981.4 | 4132.8 | 4290.2 | 4427.9 | 4500.7 | 4782.0 | 5051.5 | 5163.6 |
| 17.5° | 3786.6 | 3784.7 | 3818.1 | 3906.6 | 4062.0 | 4193.8 | 4416.1 | 4420.0 | 4746.6 | 5096.7 | 5195.1 |
| 20°   | 3780.7 | 3778.8 | 3784.7 | 3883.0 | 4024.6 | 4185.9 | 4378.7 | 4414.1 | 4746.6 | 5065.2 | 5197.0 |
| 22.5° | 3829.9 | 3798.4 | 3833.8 | 3896.8 | 3999.1 | 4199.7 | 4392.5 | 4471.2 | 4860.6 | 5220.6 | 5285.5 |
| 25°   | 3908.6 | 3916.5 | 3936.1 | 3957.8 | 4016.8 | 4231.2 | 4514.4 | 4579.4 | 4994.4 | 5354.4 | 5407.5 |
| 27.5° | 4052.2 | 4048.2 | 4056.1 | 4067.9 | 4119.1 | 4260.7 | 4563.6 | 4730.8 | 5273.7 | 5592.4 | 5539.3 |
| 30°   | 4262.7 | 4248.9 | 4280.4 | 4321.7 | 4274.5 | 4355.1 | 4726.9 | 4852.8 | 5533.4 | 5832.4 | 5686.8 |
| 32.5° | 4453.5 | 4504.6 | 4563.6 | 4581.3 | 4524.3 | 4540.0 | 4943.3 | 5071.1 | 5749.8 | 6127.4 | 5867.8 |
| 35°   | 4691.5 | 4732.8 | 4811.5 | 4866.5 | 4856.7 | 4809.5 | 5238.3 | 5407.5 | 6062.5 | 6343.8 | 6058.6 |
| 37.5° | 4923.6 | 4972.8 | 5102.6 | 5265.9 | 5175.4 | 5153.7 | 5553.1 | 5692.7 | 6158.9 | 6459.9 | 6198.3 |
| 40°   | 5297.3 | 5295.4 | 5519.6 | 5604.2 | 5684.9 | 5647.5 | 5879.6 | 5926.8 | 6210.1 | 6434.3 | 6202.2 |
| 42.5° | 5736.0 | 5708.5 | 5936.6 | 6068.4 | 6172.7 | 6176.6 | 6219.9 | 6204.2 | 6233.7 | 6304.5 | 6160.9 |
| 45°   | 6153.0 | 6212.0 | 6442.2 | 6678.2 | 6782.5 | 6794.3 | 6507.1 | 6477.6 | 6275.0 | 6267.1 | 6082.2 |
| 47.5° | 6662.5 | 6676.3 | 6865.1 | 7175.9 | 7417.8 | 7335.2 | 6878.9 | 6814.0 | 6455.9 | 6516.9 | 6214.0 |
| 50°   | 6692.0 | 6794.3 | 6963.5 | 7329.3 | 8072.9 | 8051.2 | 7360.8 | 7238.8 | 6747.1 | 6871.0 | 6581.8 |
| 52.5° | 6074.3 | 6050.7 | 6251.4 | 6849.4 | 8023.7 | 8763.3 | 8159.4 | 7868.3 | 7372.6 | 7278.2 | 7177.9 |
| 55°   | 4628.5 | 4683.6 | 4860.6 | 5464.5 | 6967.4 | 8773.2 | 9247.2 | 9009.2 | 8041.4 | 7880.1 | 7764.1 |
| 56°   | 4060.0 | 4067.9 | 4235.1 | 4785.9 | 6357.6 | 8460.4 | 9453.8 | 9261.0 | 8373.8 | 8128.0 | 7950.9 |
| 57.5° | 3365.7 | 3320.4 | 3407.0 | 3707.9 | 5366.2 | 7799.5 | 9227.6 | 9416.4 | 8763.3 | 8395.5 | 8149.6 |
| 60°   | 2649.7 | 2639.8 | 2604.4 | 2659.5 | 3391.2 | 5875.7 | 7681.4 | 8106.3 | 8724.0 | 8143.7 | 7805.4 |
| 62.5° | 2163.8 | 2114.6 | 2185.4 | 2264.1 | 2356.6 | 3645.0 | 5397.7 | 5647.5 | 6926.1 | 6501.2 | 5863.9 |
| 65°   | 1677.9 | 1654.3 | 1742.8 | 1998.6 | 2053.6 | 2315.2 | 3074.5 | 3267.3 | 4089.6 | 4016.8 | 3536.8 |
| 67.5° | 1154.7 | 1158.6 | 1235.3 | 1624.8 | 1904.1 | 1880.5 | 1882.5 | 1982.8 | 2134.3 | 1585.5 | 1380.9 |
| 70°   | 731.8  | 729.8  | 771.1  | 1046.5 | 1532.4 | 1548.1 | 1469.4 | 1439.9 | 1365.2 | 826.2  | 875.3  |
| 72.5° | 470.1  | 456.4  | 478.0  | 578.3  | 792.7  | 916.7  | 944.2  | 961.9  | 790.8  | 649.1  | 704.2  |
| 75°   | 265.6  | 251.8  | 243.9  | 269.5  | 312.8  | 361.9  | 397.3  | 409.2  | 458.3  | 491.8  | 521.3  |
| 77.5° | 80.7   | 72.8   | 88.5   | 118.0  | 155.4  | 208.5  | 253.8  | 261.6  | 308.8  | 348.2  | 377.7  |
| 80°   | 35.4   | 39.3   | 55.1   | 78.7   | 110.2  | 147.5  | 179.0  | 190.8  | 222.3  | 251.8  | 259.7  |
| 82.5° | 21.6   | 23.6   | 37.4   | 53.1   | 76.7   | 104.3  | 127.9  | 131.8  | 163.3  | 186.9  | 192.8  |
| 85°   | 7.9    | 9.8    | 19.7   | 31.5   | 49.2   | 66.9   | 66.9   | 72.8   | 66.9   | 66.9   | 72.8   |
| 87.5° | 0.0    | 0.0    | 2.0    | 3.9    | 3.9    | 5.9    | 7.9    | 7.9    | 9.8    | 11.8   | 13.8   |
| 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°    | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 | 5073.1 |
| 2.5°  | 5086.9 | 5077.0 | 5061.3 | 5004.2 | 4998.3 | 4980.6 | 4882.3 | 4866.5 | 4882.3 | 4835.1 | 4839.0 |
| 5°    | 5077.0 | 5106.5 | 4988.5 | 4931.5 | 4825.2 | 4748.5 | 4660.0 | 4614.8 | 4534.1 | 4483.0 | 4540.0 |
| 7.5°  | 5120.3 | 5108.5 | 4961.0 | 4837.0 | 4677.7 | 4483.0 | 4327.6 | 4239.1 | 4097.4 | 4058.1 | 4087.6 |
| 10°   | 5104.6 | 5041.6 | 4868.5 | 4705.2 | 4404.3 | 4233.1 | 3981.4 | 3737.4 | 3603.7 | 3534.8 | 3525.0 |
| 12.5° | 5082.9 | 5065.2 | 4776.1 | 4494.8 | 4178.1 | 3818.1 | 3464.0 | 3233.9 | 3015.5 | 2921.1 | 2934.9 |
| 15°   | 5108.5 | 4959.0 | 4603.0 | 4246.9 | 3826.0 | 3353.9 | 2972.3 | 2675.2 | 2523.8 | 2462.8 | 2462.8 |
| 17.5° | 5096.7 | 4907.9 | 4520.3 | 3969.6 | 3436.5 | 2877.8 | 2458.8 | 2279.8 | 2216.9 | 2216.9 | 2234.6 |
| 20°   | 5102.6 | 4941.3 | 4353.1 | 3692.2 | 2976.2 | 2423.4 | 2118.5 | 2053.6 | 2081.2 | 2091.0 | 2100.8 |
| 22.5° | 5136.0 | 4831.1 | 4189.9 | 3387.3 | 2549.3 | 2073.3 | 1923.8 | 1925.8 | 1974.9 | 2028.1 | 2018.2 |
| 25°   | 5177.3 | 4787.9 | 3991.2 | 3084.4 | 2222.8 | 1902.2 | 1855.0 | 1849.1 | 1886.4 | 1914.0 | 1917.9 |
| 27.5° | 5141.9 | 4713.1 | 3788.6 | 2706.7 | 1955.3 | 1788.1 | 1778.2 | 1782.2 | 1794.0 | 1849.1 | 1831.3 |
| 30°   | 5258.0 | 4734.8 | 3534.8 | 2390.0 | 1807.7 | 1750.7 | 1738.9 | 1733.0 | 1750.7 | 1766.4 | 1752.7 |
| 32.5° | 5401.6 | 4658.0 | 3346.0 | 2085.1 | 1735.0 | 1723.2 | 1699.6 | 1691.7 | 1701.5 | 1685.8 | 1693.7 |
| 35°   | 5464.5 | 4644.3 | 3100.1 | 1866.8 | 1677.9 | 1668.1 | 1654.3 | 1652.3 | 1654.3 | 1640.5 | 1628.7 |
| 37.5° | 5499.9 | 4709.2 | 2818.8 | 1766.4 | 1642.5 | 1652.3 | 1620.9 | 1616.9 | 1581.5 | 1589.4 | 1595.3 |
| 40°   | 5560.9 | 4608.9 | 2590.6 | 1670.0 | 1620.9 | 1601.2 | 1573.7 | 1567.8 | 1544.2 | 1530.4 | 1544.2 |
| 42.5° | 5472.4 | 4579.4 | 2366.4 | 1628.7 | 1589.4 | 1567.8 | 1548.1 | 1514.6 | 1506.8 | 1495.0 | 1487.1 |
| 45°   | 5401.6 | 4410.2 | 2165.8 | 1577.6 | 1552.0 | 1540.2 | 1502.8 | 1467.4 | 1437.9 | 1449.7 | 1432.0 |
| 47.5° | 5454.7 | 4351.2 | 1967.1 | 1534.3 | 1500.9 | 1487.1 | 1449.7 | 1422.2 | 1392.7 | 1378.9 | 1375.0 |
| 50°   | 5667.1 | 4461.3 | 1799.9 | 1502.8 | 1457.6 | 1449.7 | 1400.6 | 1369.1 | 1341.5 | 1331.7 | 1335.6 |
| 52.5° | 6174.7 | 4762.3 | 1685.8 | 1437.9 | 1416.3 | 1380.9 | 1353.3 | 1314.0 | 1296.3 | 1264.8 | 1284.5 |
| 55°   | 6817.9 | 5252.1 | 1656.3 | 1377.0 | 1365.2 | 1333.7 | 1296.3 | 1266.8 | 1233.4 | 1207.8 | 1201.9 |
| 56°   | 7024.4 | 5486.2 | 1632.7 | 1353.3 | 1333.7 | 1316.0 | 1266.8 | 1249.1 | 1196.0 | 1190.1 | 1186.1 |
| 57.5° | 7191.6 | 5692.7 | 1636.6 | 1308.1 | 1288.4 | 1272.7 | 1243.2 | 1199.9 | 1164.5 | 1142.9 | 1152.7 |
| 60°   | 6814.0 | 5328.8 | 1561.9 | 1239.3 | 1235.3 | 1205.8 | 1164.5 | 1144.8 | 1101.6 | 1076.0 | 1070.1 |
| 62.5° | 5065.2 | 3617.5 | 1266.8 | 1150.7 | 1148.8 | 1117.3 | 1070.1 | 1048.5 | 1040.6 | 1005.2 | 1005.2 |
| 65°   | 2917.2 | 2268.0 | 1095.7 | 1078.0 | 1062.2 | 1030.7 | 983.5  | 965.8  | 946.2  | 934.4  | 924.5  |
| 67.5° | 1245.2 | 1176.3 | 995.3  | 993.4  | 975.7  | 936.3  | 889.1  | 861.6  | 836.0  | 812.4  | 824.2  |
| 70°   | 902.9  | 916.7  | 899.0  | 889.1  | 867.5  | 818.3  | 777.0  | 743.6  | 704.2  | 688.5  | 700.3  |
| 72.5° | 716.0  | 745.5  | 771.1  | 773.1  | 747.5  | 690.4  | 645.2  | 600.0  | 556.7  | 535.0  | 544.9  |
| 75°   | 542.9  | 562.6  | 588.2  | 594.1  | 556.7  | 517.3  | 474.1  | 426.9  | 393.4  | 367.8  | 371.8  |
| 77.5° | 391.4  | 387.5  | 411.1  | 407.2  | 389.5  | 361.9  | 322.6  | 279.3  | 242.0  | 218.3  | 220.3  |
| 80°   | 267.5  | 273.4  | 287.2  | 285.2  | 263.6  | 245.9  | 216.4  | 181.0  | 153.4  | 133.8  | 129.8  |
| 82.5° | 186.9  | 196.7  | 208.5  | 198.7  | 181.0  | 163.3  | 141.6  | 116.1  | 94.4   | 78.7   | 74.7   |
| 85°   | 66.9   | 76.7   | 88.5   | 94.4   | 100.3  | 96.4   | 80.7   | 64.9   | 47.2   | 39.3   | 37.4   |
| 87.5° | 13.8   | 15.7   | 17.7   | 17.7   | 17.7   | 15.7   | 13.8   | 13.8   | 11.8   | 5.9    | 5.9    |
| 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)