

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: P453734

Luminaire Tested: **GLAN-SA4D-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4D-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25046 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 245  
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

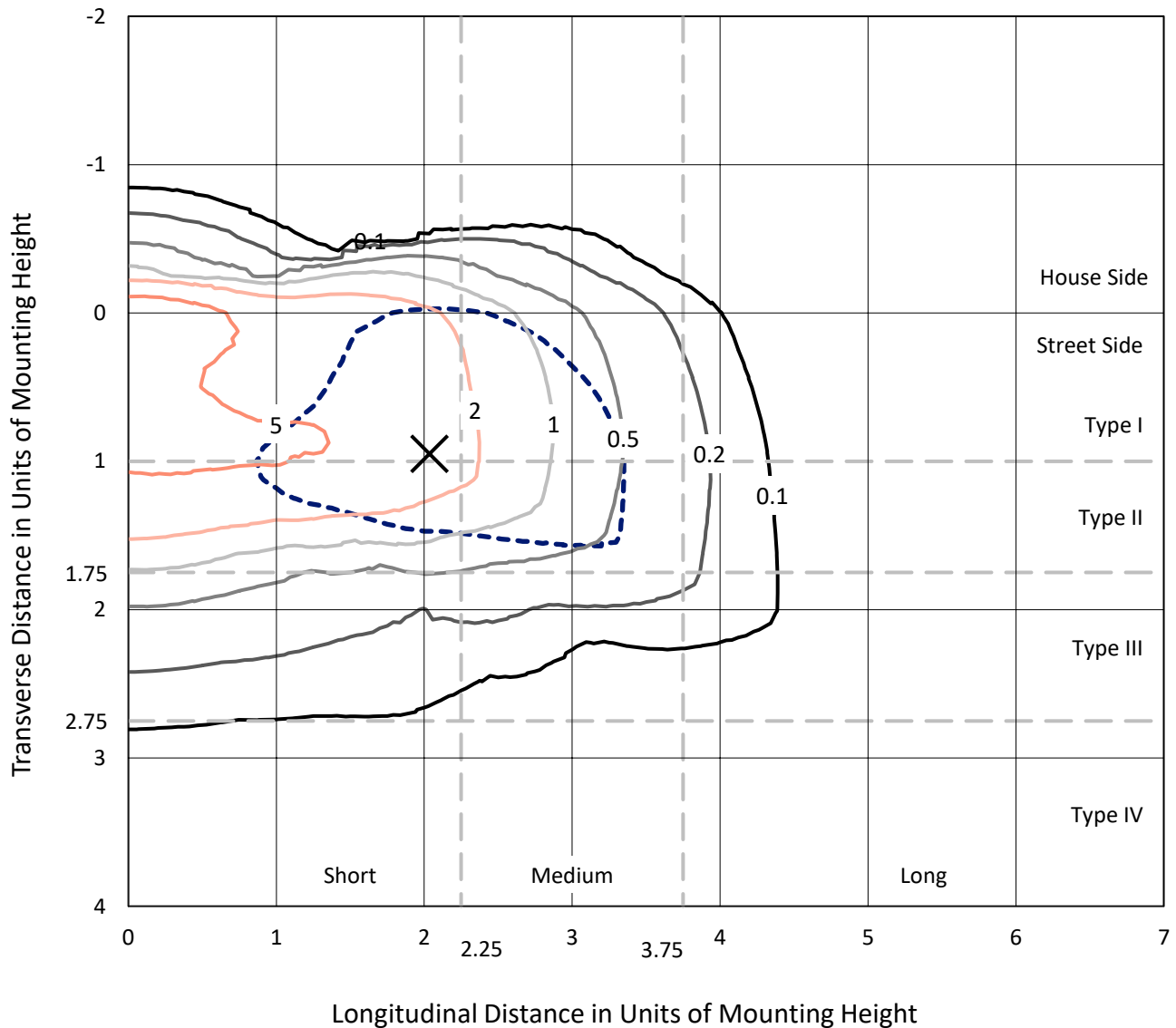


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

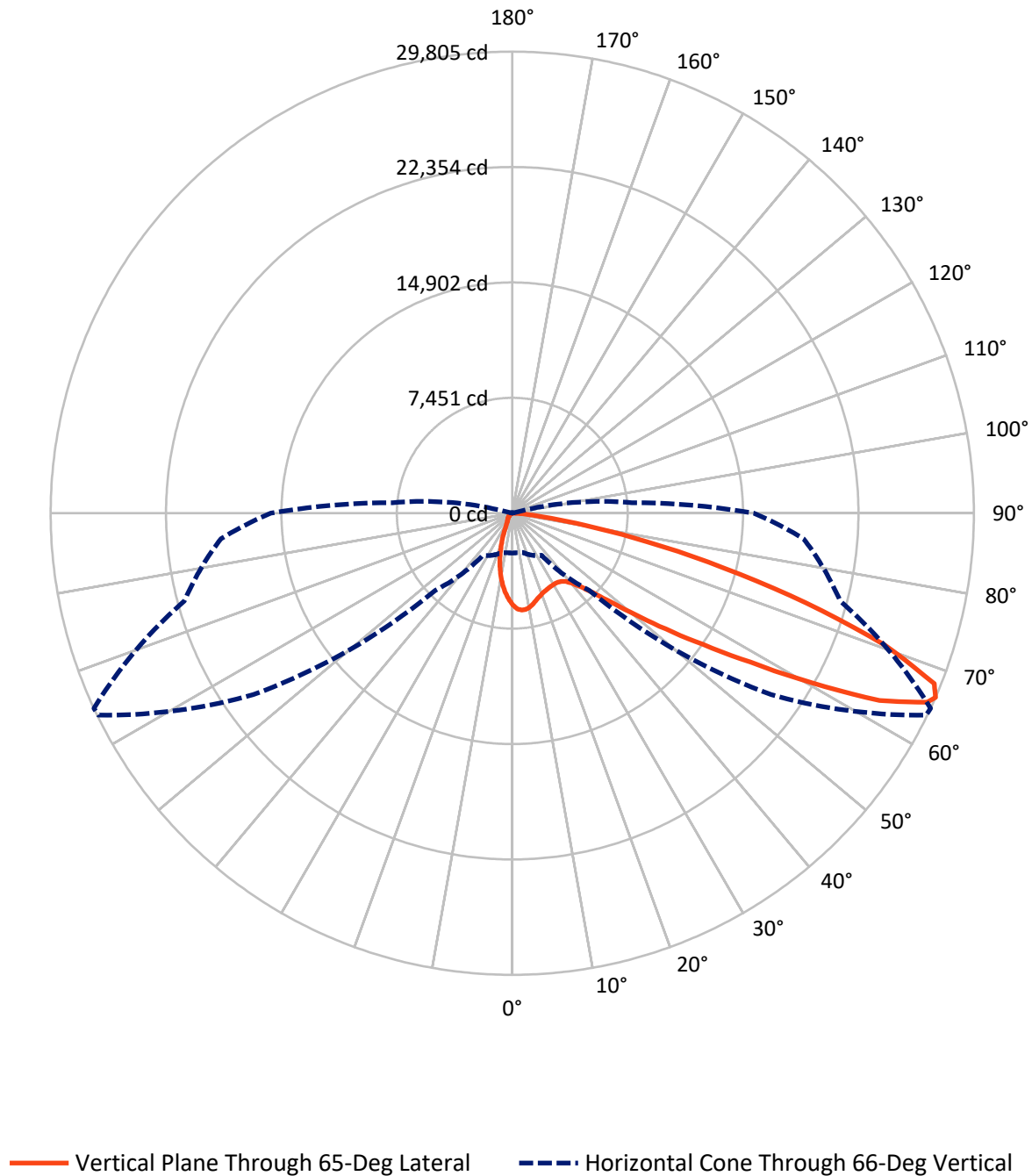


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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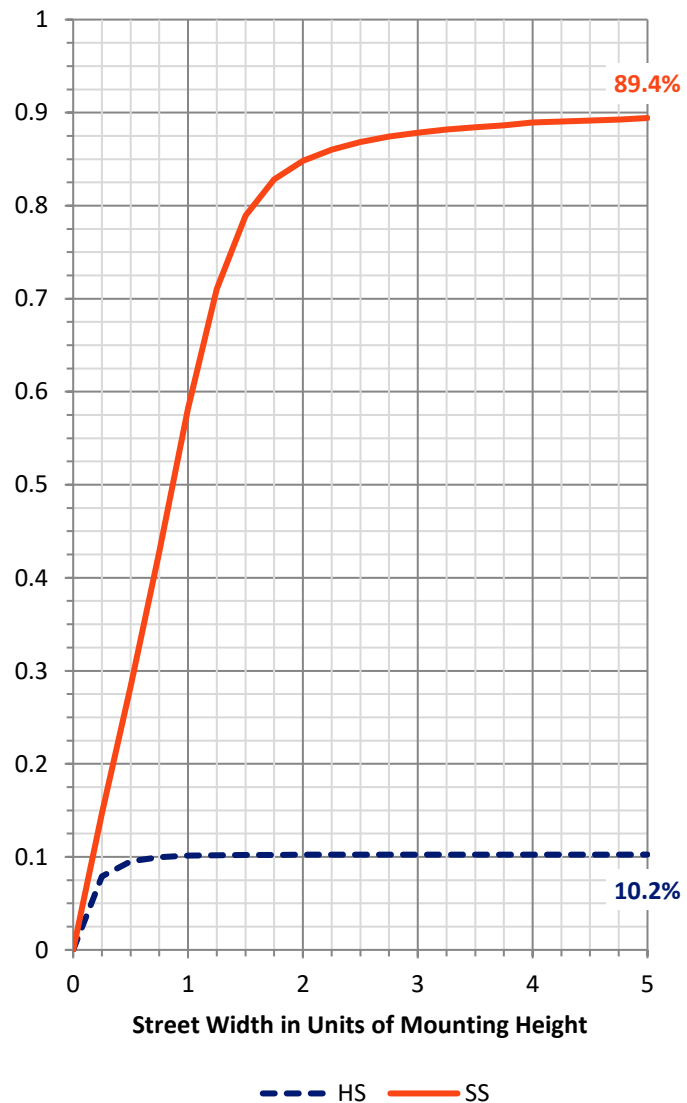
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2590.1   | 0.0    | 2590.1  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 22455.9  | 0.0    | 22455.9 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 25046.0  | 0.0    | 25046.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 485.7   | 1.9       |
| 10°-20°   | 1058.4  | 4.2       |
| 20°-30°   | 1516.1  | 6.1       |
| 30°-40°   | 2214.4  | 8.8       |
| 40°-50°   | 3713.2  | 14.8      |
| 50°-60°   | 6196.7  | 24.7      |
| 60°-70°   | 6577.6  | 26.3      |
| 70°-80°   | 2979.0  | 11.9      |
| 80°-90°   | 304.8   | 1.2       |
| 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°    | 25046.0 | 100.0     |
| 0°-180°   | 25046.0 | 100.0     |

**Coefficient of Utilization**



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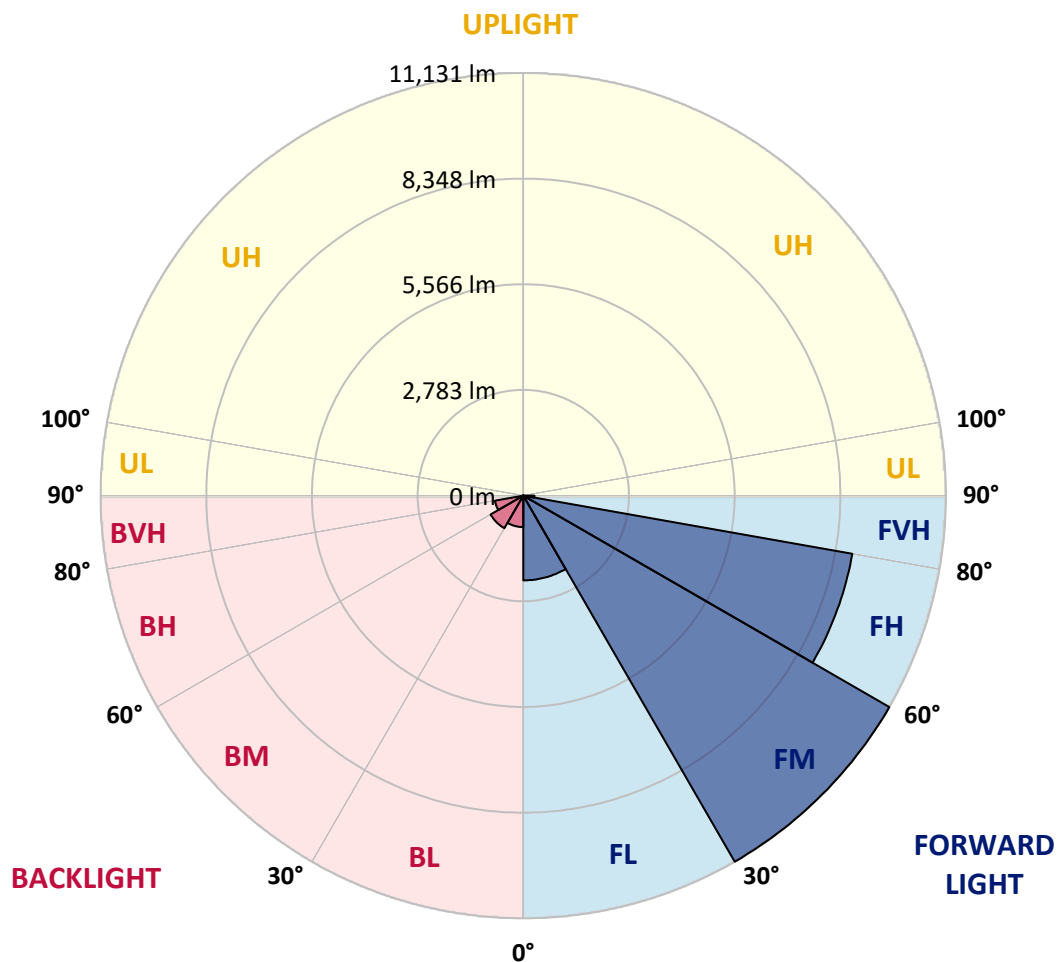
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2231.7  | 8.9       |                         |      |          |
| FM   | (30°-60°)   | 11131.0 | 44.4      |                         |      |          |
| FH   | (60°-80°)   | 8798.1  | 35.1      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 295.1   | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 828.5   | 3.3       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 993.3   | 4.0       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 758.5   | 3.0       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 9.7     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5939.3  | 5939.3  | 5939.3  | 5939.3  | 5939.3  | 5939.3  | 5939.3  | 5939.3  | 5939.3  | 5939.3  | 5939.3  |
| 2.5°  | 6259.0  | 6265.8  | 6274.3  | 6286.1  | 6294.6  | 6269.2  | 6233.7  | 6193.1  | 6184.6  | 6098.3  | 5993.5  |
| 5°    | 5924.1  | 5934.3  | 6008.7  | 6049.3  | 6140.6  | 6223.5  | 6276.0  | 6282.7  | 6279.3  | 6198.2  | 6030.7  |
| 7.5°  | 5447.1  | 5475.8  | 5548.6  | 5619.6  | 5790.5  | 5947.8  | 6133.9  | 6264.1  | 6272.6  | 6250.6  | 6042.5  |
| 10°   | 5059.7  | 5078.3  | 5115.5  | 5255.9  | 5398.0  | 5638.2  | 5898.7  | 6144.0  | 6164.3  | 6252.3  | 6032.4  |
| 12.5° | 4756.9  | 4783.9  | 4829.6  | 4937.9  | 5108.7  | 5335.4  | 5631.5  | 5961.3  | 6003.6  | 6220.1  | 6003.6  |
| 15°   | 4545.4  | 4559.0  | 4604.6  | 4711.2  | 4877.0  | 5086.7  | 5386.2  | 5770.2  | 5807.4  | 6177.9  | 5998.5  |
| 17.5° | 4445.6  | 4460.8  | 4493.0  | 4577.6  | 4714.6  | 4909.1  | 5201.8  | 5616.2  | 5663.6  | 6150.8  | 6017.1  |
| 20°   | 4472.7  | 4486.2  | 4487.9  | 4531.9  | 4624.9  | 4789.0  | 5066.4  | 5472.4  | 5533.3  | 6133.9  | 6047.6  |
| 22.5° | 4626.6  | 4628.3  | 4608.0  | 4587.7  | 4619.9  | 4738.3  | 4983.6  | 5381.1  | 5443.7  | 6130.5  | 6083.1  |
| 25°   | 4856.7  | 4861.8  | 4827.9  | 4756.9  | 4692.6  | 4753.5  | 4964.9  | 5321.9  | 5377.7  | 6122.0  | 6105.1  |
| 27.5° | 5174.7  | 5173.0  | 5162.9  | 5044.5  | 4861.8  | 4821.2  | 4980.2  | 5289.7  | 5337.1  | 6098.3  | 6113.6  |
| 30°   | 5619.6  | 5606.1  | 5584.1  | 5450.4  | 5171.3  | 4985.2  | 5044.5  | 5269.4  | 5313.4  | 6064.5  | 6091.6  |
| 32.5° | 6057.7  | 6108.5  | 6105.1  | 5978.2  | 5629.8  | 5277.9  | 5178.1  | 5296.5  | 5328.7  | 6042.5  | 6059.4  |
| 35°   | 6568.6  | 6566.9  | 6697.2  | 6649.8  | 6242.1  | 5651.8  | 5406.5  | 5386.2  | 5411.5  | 6057.7  | 6044.2  |
| 37.5° | 7042.3  | 7086.3  | 7289.3  | 7338.3  | 6966.2  | 6179.5  | 5729.6  | 5579.0  | 5587.5  | 6160.9  | 6081.4  |
| 40°   | 7632.7  | 7717.2  | 8020.0  | 8184.1  | 7856.0  | 6962.8  | 6206.6  | 5932.6  | 5934.3  | 6414.7  | 6221.8  |
| 42.5° | 8393.9  | 8527.5  | 8810.0  | 9084.1  | 8908.1  | 7889.8  | 6922.2  | 6492.5  | 6489.1  | 6861.3  | 6543.2  |
| 45°   | 9319.2  | 9412.3  | 9733.7  | 10168.4 | 10056.8 | 9183.9  | 7964.2  | 7360.3  | 7316.3  | 7593.7  | 7113.3  |
| 47.5° | 10117.7 | 10244.5 | 10571.0 | 11066.7 | 11574.2 | 10763.9 | 9209.3  | 8552.9  | 8524.1  | 8759.3  | 8091.1  |
| 50°   | 10466.1 | 10577.8 | 10921.2 | 11616.5 | 12846.3 | 12837.8 | 11063.3 | 10293.6 | 10244.5 | 10371.4 | 9603.4  |
| 52.5° | 10083.8 | 10188.7 | 10535.5 | 11401.6 | 13445.1 | 15365.1 | 13749.6 | 12477.5 | 12418.3 | 12255.9 | 11410.1 |
| 55°   | 8774.5  | 8860.8  | 9373.3  | 10368.0 | 13215.1 | 17050.0 | 17450.9 | 15175.7 | 14945.6 | 14314.6 | 13455.3 |
| 57.5° | 6986.5  | 6942.5  | 7260.5  | 8415.9  | 11865.1 | 17615.0 | 21250.3 | 18536.9 | 18125.9 | 16094.2 | 15185.8 |
| 60°   | 4841.5  | 4976.8  | 5105.4  | 5866.6  | 8921.7  | 16635.5 | 23613.5 | 22762.6 | 22221.3 | 17845.1 | 16843.6 |
| 62.5° | 3559.2  | 3648.9  | 3733.4  | 4085.3  | 5609.5  | 13282.7 | 24031.4 | 27103.4 | 26623.0 | 19704.2 | 18425.3 |
| 65°   | 2814.9  | 2821.6  | 2855.5  | 3202.3  | 3696.2  | 8637.5  | 22023.4 | 29551.2 | 29427.7 | 21493.9 | 19066.4 |
| 66°   | 2564.5  | 2566.2  | 2618.7  | 2990.8  | 3317.3  | 7033.8  | 20414.7 | 29737.3 | 29804.9 | 21923.6 | 18878.6 |
| 67.5° | 2241.4  | 2234.6  | 2310.8  | 2688.0  | 3021.3  | 5071.5  | 17535.5 | 28982.8 | 29383.7 | 22253.5 | 18203.7 |
| 70°   | 1737.3  | 1728.9  | 1821.9  | 2254.9  | 2782.7  | 3383.3  | 11655.4 | 24885.6 | 25531.8 | 21578.5 | 16106.1 |
| 72.5° | 1157.1  | 1163.8  | 1322.9  | 1779.6  | 2655.9  | 2979.0  | 7011.8  | 18931.1 | 19844.6 | 17819.7 | 12670.3 |
| 75°   | 675.0   | 686.8   | 867.8   | 1322.9  | 2305.7  | 2840.3  | 3968.6  | 13499.2 | 14082.9 | 12305.0 | 7893.2  |
| 77.5° | 353.6   | 358.6   | 485.5   | 872.9   | 1767.8  | 2637.3  | 2644.0  | 8624.0  | 8898.0  | 5979.9  | 3124.4  |
| 80°   | 187.8   | 182.7   | 260.5   | 526.1   | 1216.3  | 2315.8  | 2145.0  | 4565.7  | 4746.7  | 1776.2  | 790.0   |
| 82.5° | 71.0    | 77.8    | 138.7   | 345.1   | 718.9   | 1662.9  | 1847.3  | 2018.1  | 1955.5  | 390.8   | 331.6   |
| 85°   | 13.5    | 16.9    | 59.2    | 204.7   | 362.0   | 695.3   | 1361.8  | 989.6   | 916.9   | 147.2   | 191.2   |
| 87.5° | 1.7     | 3.4     | 16.9    | 49.1    | 52.4    | 235.1   | 402.6   | 274.0   | 236.8   | 54.1    | 79.5    |
| 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°    | 5939.3  | 5939.3 | 5939.3 | 5939.3 | 5939.3 | 5939.3 | 5939.3 | 5939.3 | 5939.3 | 5939.3 | 5939.3 |
| 2.5°  | 5942.7  | 5897.0 | 5744.8 | 5594.2 | 5440.3 | 5301.6 | 5206.9 | 5052.9 | 5014.0 | 4958.2 | 4926.0 |
| 5°    | 5930.9  | 5824.3 | 5531.6 | 5211.9 | 4914.2 | 4592.8 | 4347.5 | 4110.7 | 3983.8 | 3919.5 | 3895.8 |
| 7.5°  | 5897.0  | 5727.9 | 5271.1 | 4770.4 | 4293.4 | 3812.9 | 3395.1 | 3077.1 | 2872.4 | 2732.0 | 2637.3 |
| 10°   | 5829.4  | 5595.9 | 4968.3 | 4279.8 | 3559.2 | 2924.8 | 2395.4 | 1992.7 | 1681.5 | 1583.4 | 1586.8 |
| 12.5° | 5760.0  | 5448.8 | 4630.0 | 3735.1 | 2841.9 | 2041.8 | 1480.2 | 1162.2 | 1013.3 | 964.2  | 954.1  |
| 15°   | 5695.7  | 5308.4 | 4298.4 | 3207.3 | 2116.2 | 1322.9 | 954.1  | 842.4  | 801.8  | 793.4  | 791.7  |
| 17.5° | 5661.9  | 5178.1 | 3944.9 | 2603.4 | 1476.8 | 898.3  | 764.6  | 734.2  | 722.3  | 713.9  | 710.5  |
| 20°   | 5633.1  | 5064.8 | 3606.6 | 2038.4 | 1009.9 | 735.9  | 685.1  | 656.4  | 636.1  | 627.6  | 622.5  |
| 22.5° | 5612.8  | 4948.0 | 3256.4 | 1578.3 | 773.1  | 653.0  | 607.3  | 570.1  | 541.3  | 531.2  | 524.4  |
| 25°   | 5582.4  | 4819.5 | 2902.8 | 1153.7 | 651.3  | 580.2  | 527.8  | 483.8  | 446.6  | 428.0  | 424.6  |
| 27.5° | 5538.4  | 4674.0 | 2515.5 | 854.3  | 581.9  | 515.9  | 451.7  | 397.5  | 360.3  | 340.0  | 341.7  |
| 30°   | 5467.4  | 4521.7 | 2128.1 | 678.3  | 526.1  | 450.0  | 380.6  | 328.2  | 292.7  | 277.4  | 275.7  |
| 32.5° | 5382.8  | 4337.4 | 1772.8 | 581.9  | 475.3  | 390.8  | 318.0  | 272.4  | 245.3  | 233.4  | 231.8  |
| 35°   | 5303.3  | 4151.3 | 1410.8 | 522.7  | 422.9  | 336.6  | 267.3  | 228.4  | 208.1  | 197.9  | 199.6  |
| 37.5° | 5259.3  | 3985.5 | 1099.6 | 475.3  | 380.6  | 289.3  | 230.1  | 196.2  | 177.6  | 169.2  | 167.5  |
| 40°   | 5288.1  | 3850.2 | 874.6  | 433.1  | 333.3  | 248.7  | 197.9  | 169.2  | 150.6  | 138.7  | 138.7  |
| 42.5° | 5423.4  | 3791.0 | 705.4  | 392.5  | 289.3  | 214.8  | 172.5  | 145.5  | 125.2  | 113.3  | 115.0  |
| 45°   | 5836.1  | 3853.5 | 590.4  | 355.2  | 248.7  | 186.1  | 148.9  | 120.1  | 101.5  | 93.0   | 91.3   |
| 47.5° | 6521.3  | 4088.7 | 510.9  | 316.3  | 213.1  | 159.0  | 125.2  | 99.8   | 81.2   | 74.4   | 72.7   |
| 50°   | 7718.9  | 4574.2 | 451.7  | 277.4  | 181.0  | 135.3  | 103.2  | 79.5   | 64.3   | 57.5   | 57.5   |
| 52.5° | 9366.6  | 5633.1 | 409.4  | 233.4  | 152.2  | 115.0  | 84.6   | 64.3   | 50.7   | 45.7   | 44.0   |
| 55°   | 11088.7 | 6749.6 | 387.4  | 196.2  | 126.9  | 94.7   | 67.7   | 50.7   | 38.9   | 33.8   | 32.1   |
| 57.5° | 12744.8 | 7625.9 | 362.0  | 159.0  | 101.5  | 72.7   | 52.4   | 38.9   | 27.1   | 23.7   | 22.0   |
| 60°   | 14333.2 | 8334.7 | 307.9  | 126.9  | 79.5   | 52.4   | 38.9   | 27.1   | 18.6   | 15.2   | 15.2   |
| 62.5° | 15754.2 | 8747.4 | 241.9  | 101.5  | 60.9   | 37.2   | 25.4   | 20.3   | 13.5   | 10.1   | 10.1   |
| 65°   | 15920.0 | 8211.2 | 182.7  | 77.8   | 44.0   | 23.7   | 15.2   | 15.2   | 10.1   | 6.8    | 6.8    |
| 66°   | 15586.7 | 7756.1 | 160.7  | 71.0   | 38.9   | 20.3   | 13.5   | 11.8   | 8.5    | 5.1    | 5.1    |
| 67.5° | 14842.4 | 6979.7 | 138.7  | 60.9   | 32.1   | 15.2   | 10.1   | 10.1   | 6.8    | 3.4    | 3.4    |
| 70°   | 12824.3 | 5700.8 | 110.0  | 45.7   | 23.7   | 11.8   | 6.8    | 6.8    | 5.1    | 3.4    | 3.4    |
| 72.5° | 9774.3  | 4256.2 | 89.7   | 33.8   | 16.9   | 8.5    | 5.1    | 5.1    | 5.1    | 3.4    | 3.4    |
| 75°   | 5895.3  | 2292.2 | 69.4   | 25.4   | 15.2   | 6.8    | 3.4    | 5.1    | 6.8    | 5.1    | 3.4    |
| 77.5° | 2172.1  | 779.8  | 54.1   | 20.3   | 11.8   | 6.8    | 3.4    | 3.4    | 6.8    | 5.1    | 5.1    |
| 80°   | 532.9   | 203.0  | 38.9   | 16.9   | 11.8   | 6.8    | 3.4    | 3.4    | 6.8    | 6.8    | 6.8    |
| 82.5° | 247.0   | 86.3   | 27.1   | 15.2   | 11.8   | 6.8    | 3.4    | 3.4    | 5.1    | 6.8    | 6.8    |
| 85°   | 142.1   | 40.6   | 22.0   | 16.9   | 11.8   | 6.8    | 3.4    | 3.4    | 5.1    | 6.8    | 6.8    |
| 87.5° | 57.5    | 20.3   | 20.3   | 16.9   | 13.5   | 8.5    | 3.4    | 3.4    | 3.4    | 5.1    | 5.1    |
| 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)