

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: P530467

Luminaire Tested: **GLAN-SA5D-722-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530467  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-722-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16623 lumens  
Efficiency: N/A  
Efficacy: 53.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 309  
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



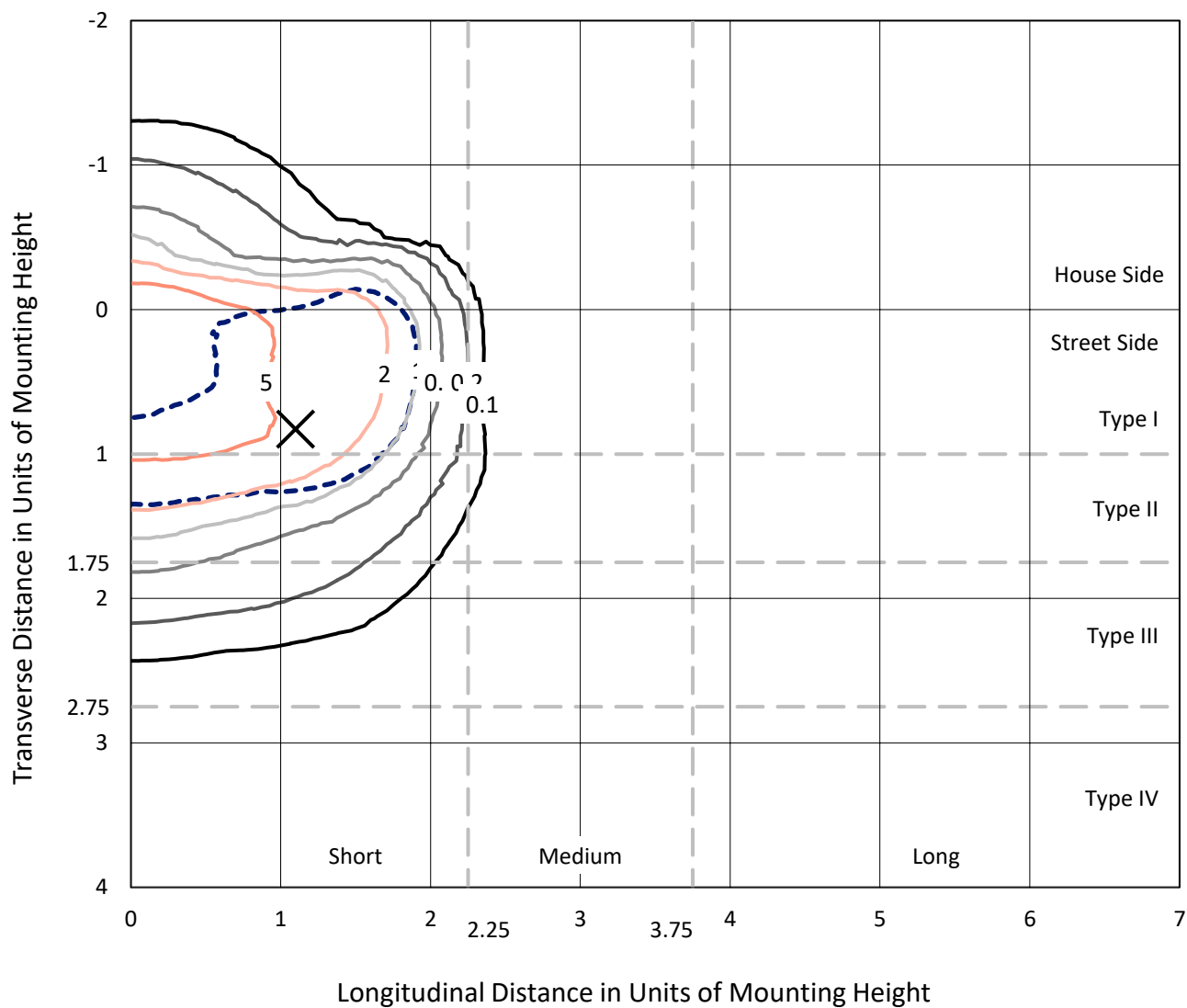
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

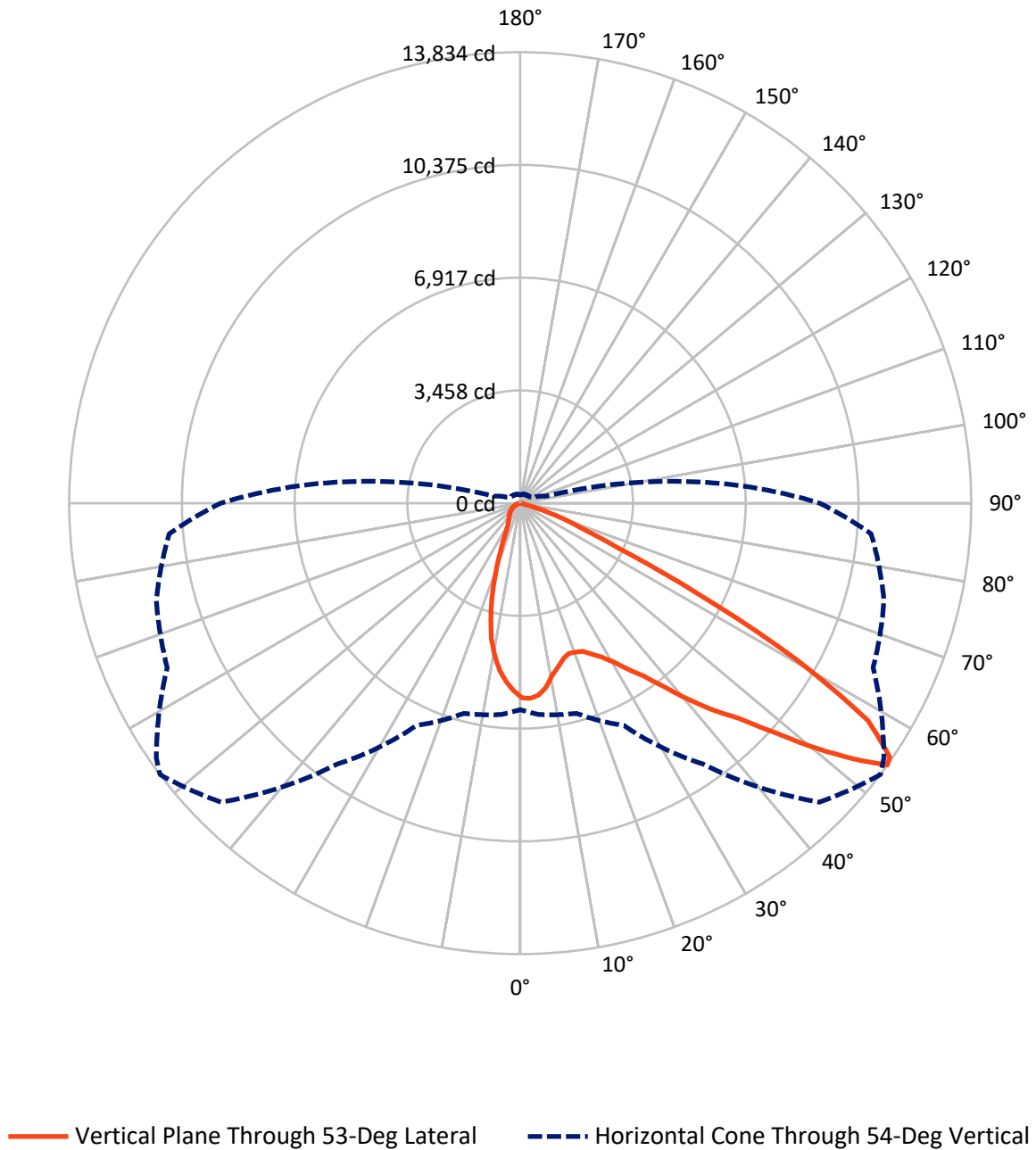


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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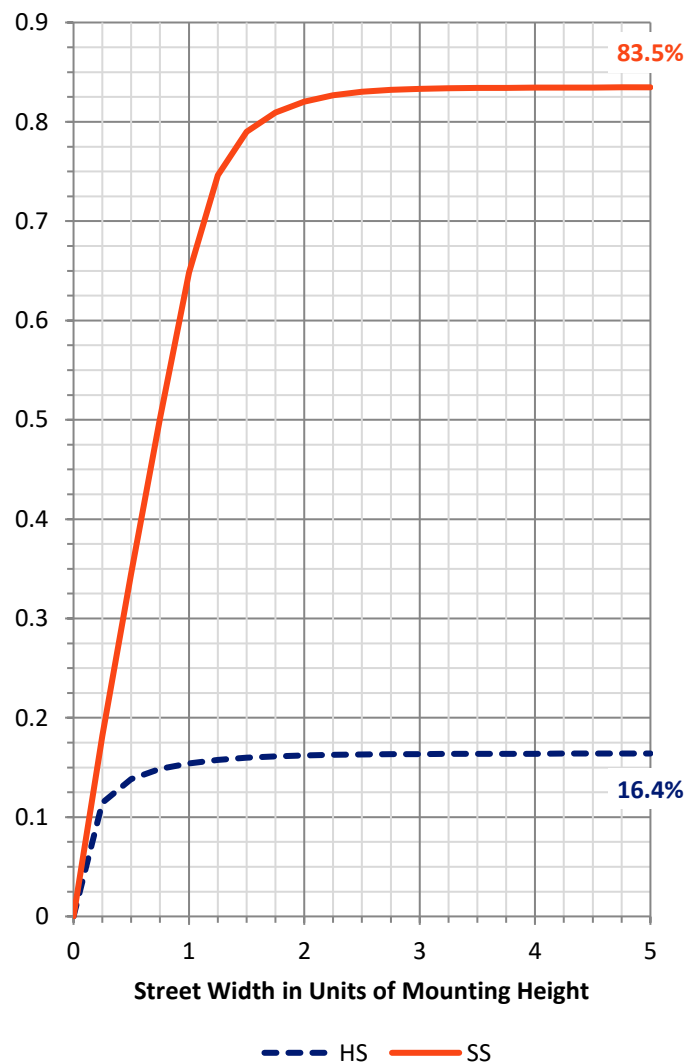
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2750.3   | 0.0    | 2750.3  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 13872.7  | 0.0    | 13872.7 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 16623.0  | 0.0    | 16623.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 512.3   | 3.1       |
| 10°-20°   | 1174.5  | 7.1       |
| 20°-30°   | 1669.2  | 10.0      |
| 30°-40°   | 2576.0  | 15.5      |
| 40°-50°   | 4038.9  | 24.3      |
| 50°-60°   | 4691.8  | 28.2      |
| 60°-70°   | 1772.8  | 10.7      |
| 70°-80°   | 168.6   | 1.0       |
| 80°-90°   | 19.0    | 0.1       |
| 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°    | 16623.0 | 100.0     |
| 0°-180°   | 16623.0 | 100.0     |

**Coefficient of Utilization**



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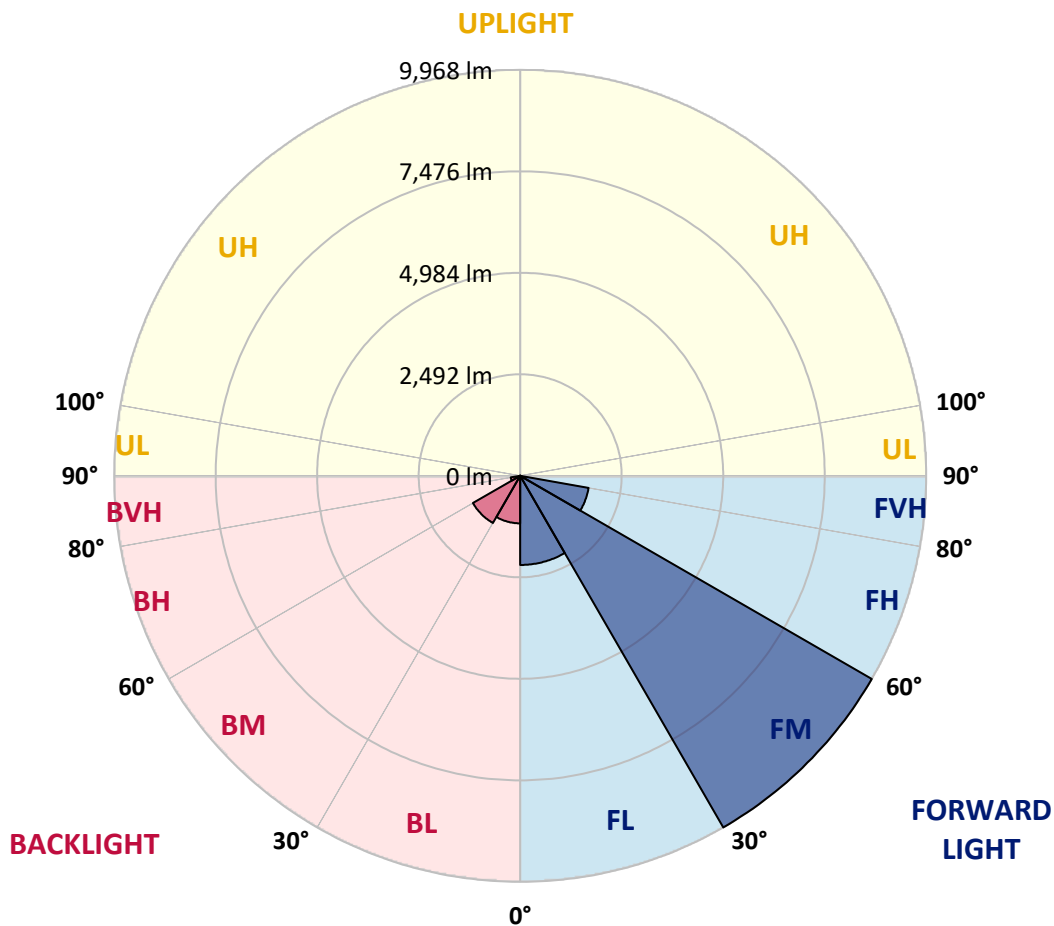
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2188.8 | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 9968.3 | 60.0      |                         |      |         |
| FH   | (60°-80°)   | 1705.8 | 10.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 9.8    | 0.1       |                         |      | G0/10   |
| BL   | (0°-30°)    | 1167.1 | 7.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1338.4 | 8.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 235.6  | 1.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 9.2    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 53°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5970.7 | 5970.7 | 5970.7 | 5970.7  | 5970.7  | 5970.7  | 5970.7  | 5970.7  | 5970.7  | 5970.7  | 5970.7  |
| 2.5°  | 5939.7 | 5887.1 | 5939.7 | 5945.9  | 5983.1  | 6017.2  | 5995.5  | 6045.0  | 6017.2  | 5986.2  | 5976.9  |
| 5°    | 5459.7 | 5531.0 | 5534.0 | 5645.5  | 5620.8  | 5825.2  | 5915.0  | 5890.2  | 6041.9  | 6032.6  | 6011.0  |
| 7.5°  | 5029.3 | 5001.4 | 5038.6 | 5168.6  | 5332.8  | 5568.1  | 5698.2  | 5695.1  | 5911.9  | 6066.7  | 6051.2  |
| 10°   | 4629.8 | 4626.7 | 4704.1 | 4806.3  | 4945.6  | 5193.4  | 5373.0  | 5462.8  | 5800.4  | 6035.7  | 6069.8  |
| 12.5° | 4360.3 | 4348.0 | 4431.6 | 4515.2  | 4735.1  | 4927.1  | 5156.2  | 5199.6  | 5586.7  | 5927.3  | 5983.1  |
| 15°   | 4183.8 | 4211.7 | 4217.9 | 4378.9  | 4518.3  | 4772.2  | 4951.8  | 5041.7  | 5487.6  | 5840.6  | 6054.3  |
| 17.5° | 4152.9 | 4190.0 | 4193.1 | 4326.3  | 4474.9  | 4688.6  | 4846.5  | 4967.3  | 5404.0  | 5884.0  | 6057.4  |
| 20°   | 4214.8 | 4193.1 | 4211.7 | 4295.3  | 4440.9  | 4645.3  | 4874.4  | 4914.7  | 5376.1  | 5905.7  | 6091.5  |
| 22.5° | 4391.3 | 4385.1 | 4338.7 | 4406.8  | 4509.0  | 4722.7  | 4939.5  | 5001.4  | 5456.6  | 6017.2  | 6119.3  |
| 25°   | 4586.4 | 4620.5 | 4577.1 | 4567.8  | 4639.1  | 4849.6  | 5137.7  | 5218.2  | 5726.1  | 6218.4  | 6206.1  |
| 27.5° | 4951.8 | 4917.8 | 4917.8 | 4874.4  | 4855.8  | 4958.0  | 5351.3  | 5484.5  | 6026.4  | 6478.6  | 6305.2  |
| 30°   | 5301.8 | 5338.9 | 5311.1 | 5326.6  | 5202.7  | 5193.4  | 5654.8  | 5819.0  | 6559.1  | 6875.0  | 6515.7  |
| 32.5° | 5856.1 | 5806.6 | 5853.0 | 5812.8  | 5648.6  | 5481.4  | 6066.7  | 6237.0  | 7203.2  | 7330.2  | 6831.6  |
| 35°   | 6317.5 | 6295.9 | 6494.1 | 6487.9  | 6221.5  | 6057.4  | 6503.4  | 6757.3  | 7652.3  | 7875.3  | 7203.2  |
| 37.5° | 6974.1 | 6933.8 | 7159.9 | 7268.3  | 7029.8  | 6785.2  | 7128.9  | 7423.1  | 8070.4  | 8311.9  | 7584.2  |
| 40°   | 7649.2 | 7751.4 | 8054.9 | 8234.5  | 7980.5  | 7655.4  | 7893.8  | 7983.6  | 8349.1  | 8596.8  | 7844.3  |
| 42.5° | 8503.9 | 8652.6 | 8962.2 | 9117.1  | 9095.4  | 8742.4  | 8671.1  | 8668.0  | 8550.4  | 8516.3  | 8036.3  |
| 45°   | 9324.6 | 9268.8 | 9745.7 | 10083.3 | 10355.8 | 10253.6 | 9420.6  | 9327.7  | 8869.3  | 8637.1  | 8085.8  |
| 47.5° | 9683.8 | 9665.2 | 9990.4 | 10591.2 | 11520.2 | 11647.2 | 10510.7 | 10151.4 | 9408.2  | 9145.0  | 8355.3  |
| 50°   | 9219.3 | 9315.3 | 9637.4 | 10303.2 | 11727.7 | 12697.0 | 11848.5 | 11365.4 | 10036.8 | 9764.3  | 8993.2  |
| 52.5° | 7701.8 | 7766.9 | 8073.5 | 8918.9  | 11021.6 | 13316.4 | 13130.6 | 12851.9 | 11192.0 | 10739.8 | 10105.0 |
| 54°   | 6333.0 | 6506.5 | 6673.7 | 7522.2  | 9764.3  | 12972.6 | 13833.6 | 13619.9 | 11944.5 | 11551.2 | 10804.9 |
| 55°   | 5515.5 | 5617.7 | 5738.4 | 6583.9  | 8894.1  | 12390.4 | 13753.1 | 13771.6 | 12449.3 | 11805.1 | 11275.6 |
| 57.5° | 4029.0 | 4100.2 | 3976.3 | 4351.1  | 6107.0  | 10061.6 | 12579.4 | 13081.0 | 13130.6 | 12186.1 | 11563.6 |
| 60°   | 3078.3 | 3109.2 | 2969.9 | 3028.7  | 3796.7  | 6905.9  | 9730.3  | 10334.1 | 11845.4 | 10650.0 | 9795.3  |
| 62.5° | 2387.7 | 2393.9 | 2390.8 | 2493.0  | 2616.8  | 4063.0  | 6085.3  | 6621.0  | 8166.4  | 7562.5  | 6652.0  |
| 65°   | 1759.0 | 1731.1 | 1780.7 | 2090.4  | 2232.8  | 2554.9  | 3205.2  | 3595.4  | 4437.8  | 3747.2  | 2678.8  |
| 67.5° | 1139.6 | 1148.9 | 1198.5 | 1554.6  | 1913.8  | 1960.3  | 1972.7  | 1941.7  | 1944.8  | 1071.5  | 672.0   |
| 70°   | 684.4  | 699.9  | 684.4  | 879.5   | 1368.8  | 1406.0  | 1285.2  | 1254.2  | 978.6   | 253.9   | 250.8   |
| 72.5° | 405.7  | 384.0  | 343.7  | 377.8   | 569.8   | 681.3   | 613.2   | 610.1   | 384.0   | 148.6   | 148.6   |
| 75°   | 170.3  | 154.8  | 127.0  | 114.6   | 151.7   | 145.6   | 145.6   | 130.1   | 102.2   | 99.1    | 92.9    |
| 77.5° | 34.1   | 34.1   | 24.8   | 27.9    | 37.2    | 43.4    | 52.6    | 52.6    | 61.9    | 61.9    | 58.8    |
| 80°   | 0.0    | 3.1    | 9.3    | 18.6    | 27.9    | 40.3    | 46.5    | 46.5    | 52.6    | 52.6    | 43.4    |
| 82.5° | 0.0    | 3.1    | 9.3    | 18.6    | 24.8    | 37.2    | 46.5    | 46.5    | 52.6    | 55.7    | 46.5    |
| 85°   | 0.0    | 3.1    | 9.3    | 15.5    | 24.8    | 31.0    | 31.0    | 27.9    | 21.7    | 18.6    | 12.4    |
| 87.5° | 0.0    | 0.0    | 3.1    | 6.2     | 3.1     | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     | 6.2     |
| 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°    | 5970.7 | 5970.7 | 5970.7 | 5970.7 | 5970.7 | 5970.7 | 5970.7 | 5970.7 | 5970.7 | 5970.7 | 5970.7 |
| 2.5°  | 5998.6 | 5995.5 | 5921.2 | 5800.4 | 5772.5 | 5670.3 | 5657.9 | 5596.0 | 5630.0 | 5515.5 | 5503.1 |
| 5°    | 5949.0 | 5911.9 | 5822.1 | 5744.6 | 5518.6 | 5357.5 | 5230.6 | 5075.7 | 4985.9 | 5001.4 | 4942.6 |
| 7.5°  | 6020.3 | 5924.2 | 5766.3 | 5496.9 | 5221.3 | 4939.5 | 4787.7 | 4471.8 | 4357.2 | 4186.9 | 4162.1 |
| 10°   | 5945.9 | 5874.7 | 5630.0 | 5184.1 | 4803.2 | 4397.5 | 4041.4 | 3691.4 | 3425.1 | 3310.5 | 3285.7 |
| 12.5° | 5939.7 | 5815.9 | 5407.1 | 4911.6 | 4360.3 | 3778.1 | 3261.0 | 2824.3 | 2561.1 | 2412.4 | 2378.4 |
| 15°   | 5843.7 | 5695.1 | 5156.2 | 4490.4 | 3728.6 | 3003.9 | 2440.3 | 2019.1 | 1817.8 | 1731.1 | 1755.9 |
| 17.5° | 5853.0 | 5630.0 | 4905.4 | 4044.5 | 3106.1 | 2204.9 | 1666.1 | 1449.3 | 1396.7 | 1418.4 | 1418.4 |
| 20°   | 5843.7 | 5484.5 | 4601.9 | 3530.4 | 2378.4 | 1529.8 | 1223.3 | 1145.8 | 1179.9 | 1248.0 | 1232.5 |
| 22.5° | 5794.2 | 5416.4 | 4323.2 | 2988.4 | 1749.7 | 1133.4 | 981.7  | 984.8  | 1037.4 | 1121.1 | 1139.6 |
| 25°   | 5831.3 | 5264.6 | 3970.1 | 2440.3 | 1275.9 | 904.3  | 851.6  | 873.3  | 929.1  | 991.0  | 1003.4 |
| 27.5° | 5803.5 | 5156.2 | 3601.6 | 1895.3 | 932.1  | 777.3  | 774.2  | 799.0  | 823.8  | 870.2  | 870.2  |
| 30°   | 5834.4 | 5057.1 | 3239.3 | 1409.1 | 768.0  | 712.3  | 699.9  | 718.5  | 743.2  | 752.5  | 749.4  |
| 32.5° | 5949.0 | 4982.8 | 2821.2 | 1052.9 | 678.2  | 650.3  | 650.3  | 650.3  | 647.2  | 659.6  | 662.7  |
| 35°   | 6199.9 | 4995.2 | 2452.7 | 814.5  | 619.4  | 597.7  | 588.4  | 576.0  | 569.8  | 576.0  | 579.1  |
| 37.5° | 6472.4 | 4989.0 | 2071.8 | 693.7  | 576.0  | 557.4  | 535.8  | 517.2  | 514.1  | 520.3  | 511.0  |
| 40°   | 6593.2 | 5047.8 | 1718.7 | 622.5  | 535.8  | 514.1  | 480.0  | 464.5  | 467.6  | 473.8  | 467.6  |
| 42.5° | 6757.3 | 5066.4 | 1489.6 | 566.7  | 498.6  | 464.5  | 442.8  | 424.3  | 421.2  | 430.5  | 427.4  |
| 45°   | 6754.2 | 4961.1 | 1248.0 | 535.8  | 464.5  | 427.4  | 399.5  | 384.0  | 384.0  | 390.2  | 393.3  |
| 47.5° | 6952.4 | 4945.6 | 1071.5 | 507.9  | 439.8  | 402.6  | 368.5  | 356.1  | 353.0  | 353.0  | 346.8  |
| 50°   | 7413.8 | 5162.4 | 935.2  | 476.9  | 408.8  | 374.7  | 346.8  | 331.4  | 319.0  | 312.8  | 309.7  |
| 52.5° | 8315.0 | 5837.5 | 830.0  | 439.8  | 374.7  | 346.8  | 322.1  | 309.7  | 294.2  | 278.7  | 275.6  |
| 54°   | 9188.3 | 6534.3 | 823.8  | 408.8  | 346.8  | 328.3  | 306.6  | 300.4  | 281.8  | 260.1  | 253.9  |
| 55°   | 9581.6 | 6940.0 | 845.4  | 384.0  | 328.3  | 315.9  | 297.3  | 291.1  | 272.5  | 247.7  | 244.7  |
| 57.5° | 9906.8 | 7097.9 | 833.0  | 319.0  | 297.3  | 294.2  | 278.7  | 269.4  | 247.7  | 213.7  | 207.5  |
| 60°   | 7974.4 | 5366.8 | 597.7  | 281.8  | 272.5  | 266.3  | 253.9  | 247.7  | 219.9  | 182.7  | 179.6  |
| 62.5° | 5038.6 | 3087.5 | 380.9  | 247.7  | 238.5  | 229.2  | 213.7  | 207.5  | 182.7  | 145.6  | 136.3  |
| 65°   | 2146.1 | 1279.0 | 257.0  | 219.9  | 204.4  | 188.9  | 176.5  | 167.2  | 145.6  | 108.4  | 105.3  |
| 67.5° | 557.4  | 455.2  | 213.7  | 192.0  | 170.3  | 148.6  | 139.4  | 123.9  | 99.1   | 74.3   | 71.2   |
| 70°   | 250.8  | 229.2  | 179.6  | 161.0  | 136.3  | 114.6  | 102.2  | 86.7   | 65.0   | 49.5   | 46.5   |
| 72.5° | 148.6  | 145.6  | 136.3  | 120.8  | 102.2  | 86.7   | 74.3   | 58.8   | 43.4   | 27.9   | 27.9   |
| 75°   | 92.9   | 89.8   | 92.9   | 83.6   | 71.2   | 65.0   | 55.7   | 40.3   | 24.8   | 12.4   | 12.4   |
| 77.5° | 55.7   | 55.7   | 55.7   | 52.6   | 49.5   | 49.5   | 40.3   | 24.8   | 12.4   | 3.1    | 3.1    |
| 80°   | 43.4   | 43.4   | 46.5   | 43.4   | 43.4   | 43.4   | 34.1   | 18.6   | 6.2    | 0.0    | 0.0    |
| 82.5° | 43.4   | 46.5   | 52.6   | 49.5   | 43.4   | 37.2   | 31.0   | 18.6   | 6.2    | 0.0    | 0.0    |
| 85°   | 12.4   | 9.3    | 15.5   | 21.7   | 31.0   | 27.9   | 21.7   | 15.5   | 6.2    | 0.0    | 0.0    |
| 87.5° | 6.2    | 6.2    | 6.2    | 6.2    | 3.1    | 3.1    | 3.1    | 3.1    | 3.1    | 0.0    | 0.0    |
| 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)