

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: P529241

Luminaire Tested: **GLAN-SA4B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529241  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12344 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0

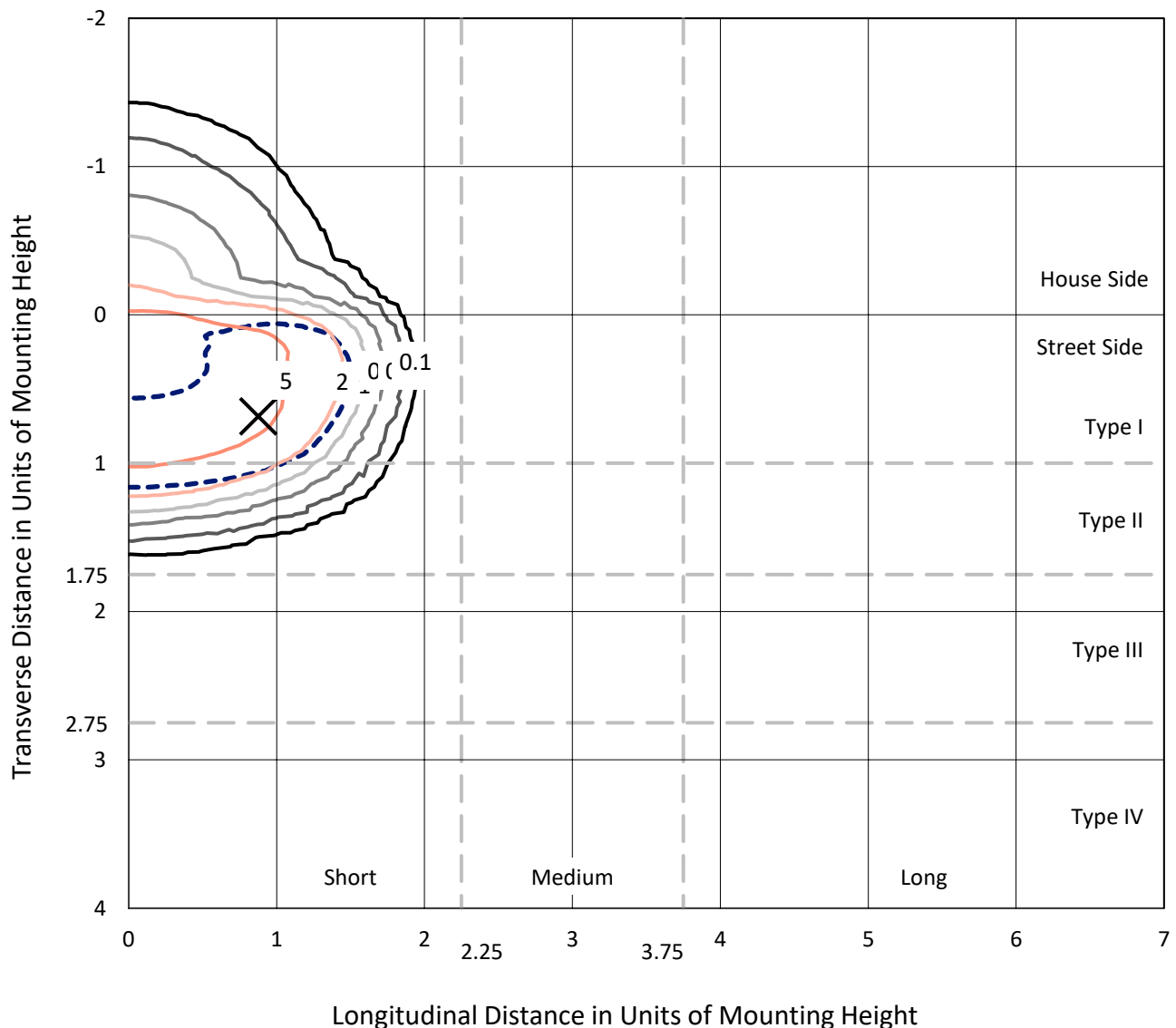
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

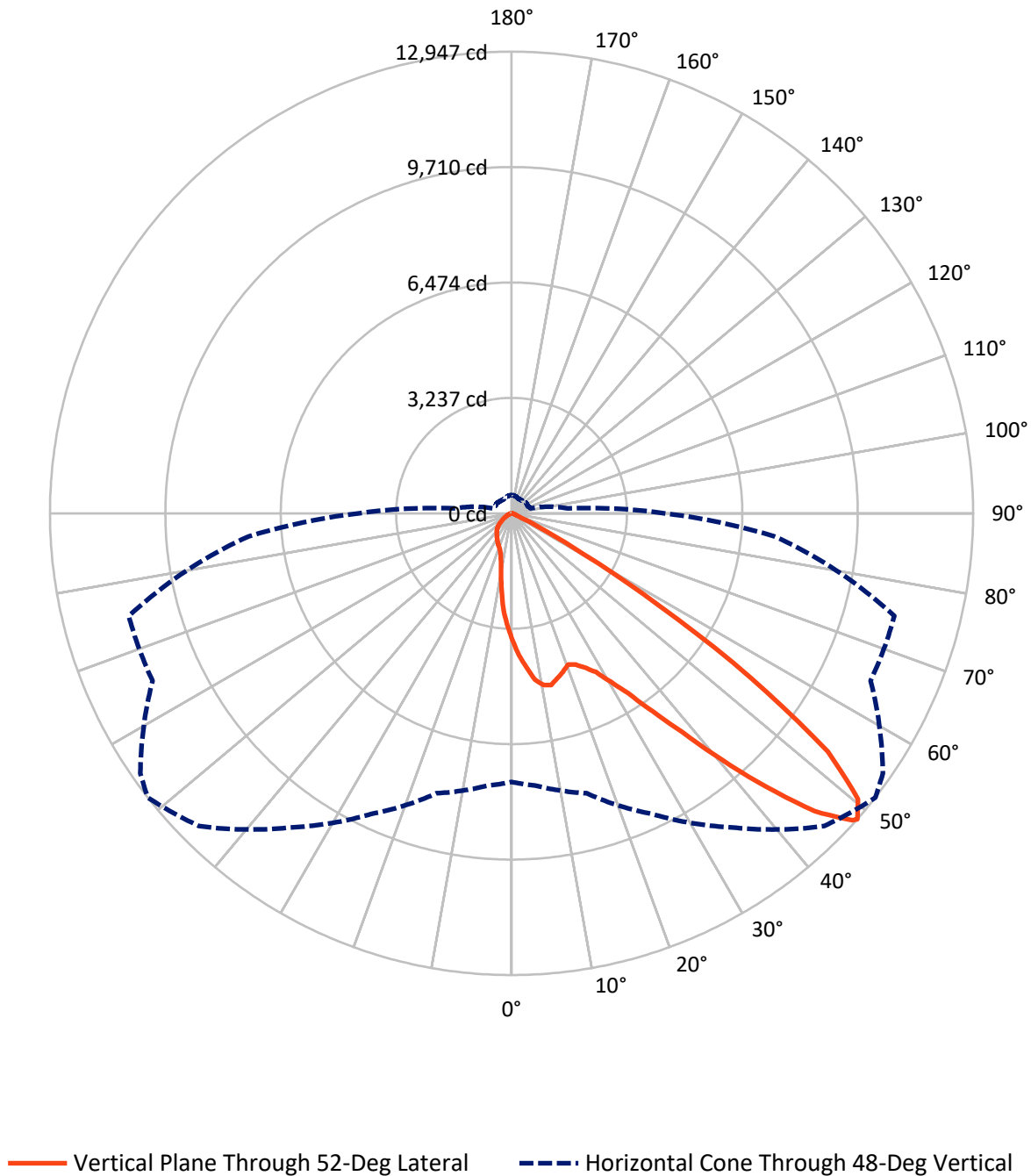
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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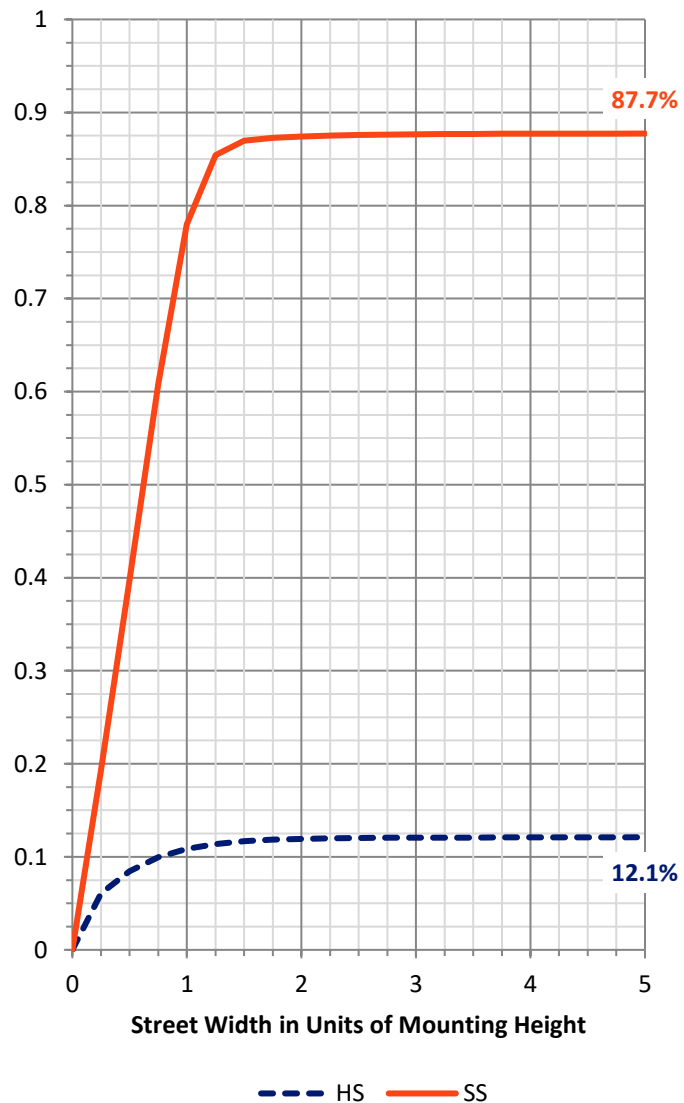
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1503.0   | 0.0    | 1503.0  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 10841.0  | 0.0    | 10841.0 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 12344.0  | 0.0    | 12344.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 326.3   | 2.6       |
| 10°-20°   | 852.7   | 6.9       |
| 20°-30°   | 1455.9  | 11.8      |
| 30°-40°   | 2681.0  | 21.7      |
| 40°-50°   | 4163.6  | 33.7      |
| 50°-60°   | 2505.8  | 20.3      |
| 60°-70°   | 289.8   | 2.3       |
| 70°-80°   | 56.1    | 0.5       |
| 80°-90°   | 13.0    | 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°    | 12344.0 | 100.0     |
| 0°-180°   | 12344.0 | 100.0     |

**Coefficient of Utilization**



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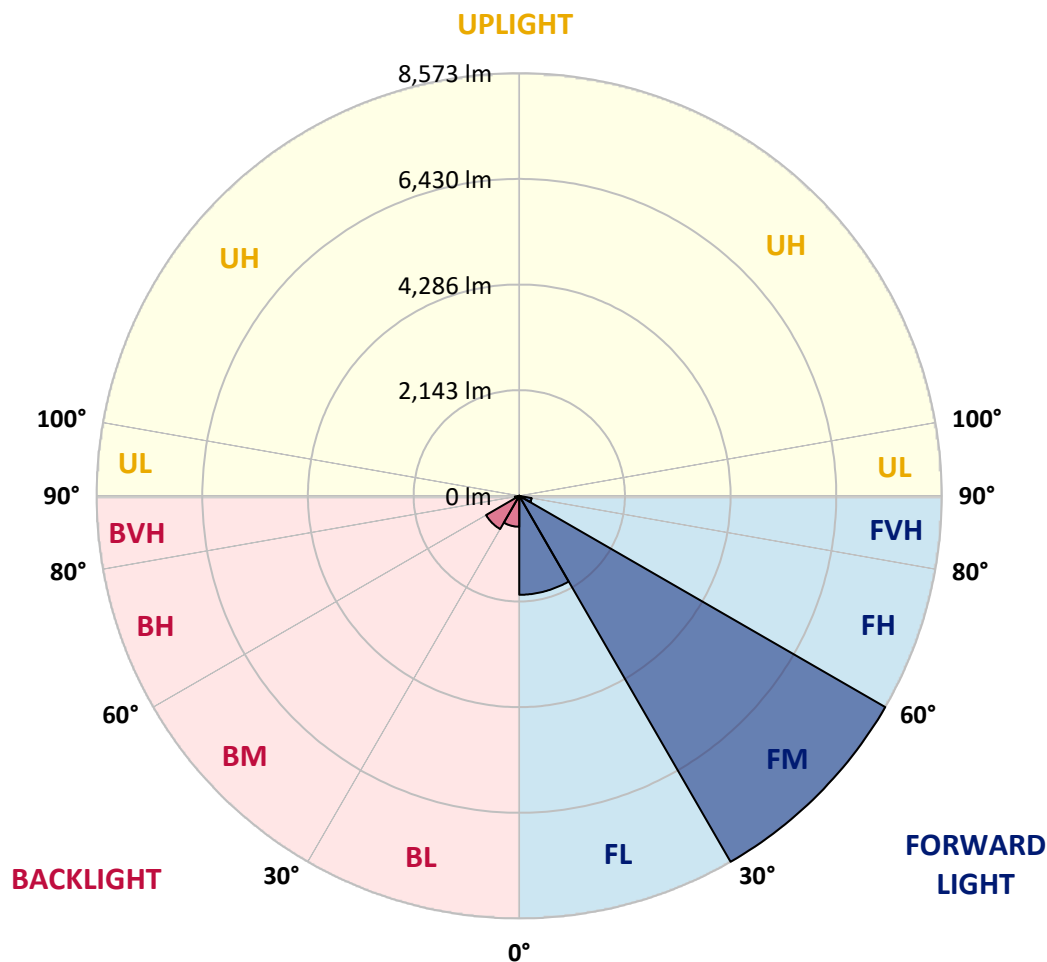
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2007.0 | 16.3      |                         |      |        |
| FM   | (30°-60°)   | 8572.7 | 69.4      |                         |      |        |
| FH   | (60°-80°)   | 255.2  | 2.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 6.2    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 627.8  | 5.1       | B2/1000                 |      |        |
| BM   | (30°-60°)   | 777.6  | 6.3       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 90.7   | 0.7       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 6.8    | 0.1       |                         |      | G0/10  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7  | 3564.7 |
| 2.5°  | 4320.5  | 4221.5  | 4230.5  | 4165.8  | 4128.0  | 4066.8  | 3984.0  | 3967.8  | 3877.8  | 3755.5  | 3631.3 |
| 5°    | 4709.2  | 4685.8  | 4716.4  | 4622.8  | 4626.4  | 4525.7  | 4331.3  | 4334.9  | 4128.0  | 3928.2  | 3735.7 |
| 7.5°  | 4734.4  | 4680.4  | 4711.0  | 4793.8  | 4842.4  | 4824.4  | 4714.6  | 4619.2  | 4423.1  | 4129.8  | 3849.1 |
| 10°   | 4239.5  | 4342.1  | 4374.5  | 4511.3  | 4705.6  | 4910.7  | 4898.1  | 4903.5  | 4739.8  | 4356.5  | 3946.2 |
| 12.5° | 3942.6  | 3874.3  | 3984.0  | 4066.8  | 4360.1  | 4757.8  | 4939.5  | 4979.1  | 4991.7  | 4576.0  | 4043.4 |
| 15°   | 3807.7  | 3807.7  | 3825.7  | 3849.1  | 4061.4  | 4428.5  | 4799.2  | 4914.3  | 5186.1  | 4864.0  | 4196.4 |
| 17.5° | 3892.2  | 3888.6  | 3913.8  | 3865.3  | 3944.4  | 4226.9  | 4669.6  | 4801.0  | 5403.8  | 5146.5  | 4316.9 |
| 20°   | 4149.6  | 4162.2  | 4146.0  | 4005.6  | 4011.0  | 4223.3  | 4525.7  | 4732.6  | 5551.4  | 5391.2  | 4477.1 |
| 22.5° | 4507.7  | 4514.9  | 4423.1  | 4270.1  | 4225.1  | 4329.5  | 4608.4  | 4766.8  | 5670.1  | 5684.5  | 4525.7 |
| 25°   | 4921.5  | 4892.7  | 4874.8  | 4658.8  | 4522.1  | 4612.0  | 4795.6  | 4887.3  | 5743.9  | 5936.4  | 4664.2 |
| 27.5° | 5495.6  | 5438.0  | 5328.2  | 5135.7  | 5034.9  | 4907.1  | 5038.5  | 5189.7  | 5954.4  | 6289.1  | 4815.4 |
| 30°   | 6343.1  | 6292.7  | 6078.6  | 5830.3  | 5565.7  | 5439.8  | 5481.2  | 5563.9  | 6334.1  | 6697.6  | 5015.1 |
| 32.5° | 7618.9  | 7512.8  | 7203.3  | 6730.0  | 6370.1  | 6022.8  | 6012.0  | 6100.2  | 6674.2  | 7262.6  | 5252.6 |
| 35°   | 9024.3  | 8991.9  | 8536.7  | 8049.0  | 7352.6  | 6816.4  | 6825.4  | 6872.2  | 7325.6  | 8004.0  | 5563.9 |
| 37.5° | 9958.2  | 10136.4 | 9846.7  | 9323.0  | 8738.2  | 7971.6  | 7777.3  | 7793.5  | 8220.0  | 8882.2  | 6125.4 |
| 40°   | 10679.8 | 10528.7 | 10562.9 | 10440.5 | 10041.0 | 9519.2  | 9089.1  | 9004.5  | 9254.7  | 9853.9  | 6683.2 |
| 42.5° | 10364.9 | 10372.1 | 10582.7 | 10872.4 | 10971.3 | 10933.6 | 10494.5 | 10334.3 | 10140.0 | 10649.2 | 7214.1 |
| 45°   | 9476.0  | 9661.3  | 9934.9  | 10701.4 | 11374.4 | 12006.0 | 11919.7 | 11653.3 | 10751.8 | 11279.1 | 7520.0 |
| 47.5° | 8058.0  | 8050.8  | 8498.9  | 9495.8  | 10991.1 | 12470.3 | 12862.6 | 12675.4 | 11185.5 | 11208.9 | 7457.0 |
| 48°   | 7534.4  | 7663.9  | 8126.4  | 9299.6  | 10748.2 | 12401.9 | 12947.2 | 12711.4 | 11111.7 | 11115.3 | 7403.0 |
| 50°   | 5569.3  | 5546.0  | 6121.8  | 7561.4  | 9600.2  | 11653.3 | 12590.9 | 12774.4 | 11109.9 | 10642.0 | 7025.1 |
| 52.5° | 2942.1  | 3042.9  | 3462.2  | 4754.2  | 6787.6  | 9537.2  | 11106.3 | 11392.4 | 10717.6 | 9868.3  | 6481.7 |
| 55°   | 1250.6  | 1130.1  | 1452.2  | 2146.8  | 3818.5  | 6371.9  | 8148.0  | 8785.0  | 9062.1  | 8732.8  | 5670.1 |
| 57.5° | 446.3   | 487.7   | 561.4   | 808.0   | 1605.1  | 3487.4  | 4858.6  | 5353.4  | 6278.3  | 6407.9  | 3863.5 |
| 60°   | 286.1   | 291.5   | 314.9   | 370.7   | 602.8   | 1344.2  | 2305.1  | 2699.2  | 3118.5  | 3219.2  | 1803.1 |
| 62.5° | 221.3   | 223.1   | 233.9   | 242.9   | 286.1   | 521.8   | 865.5   | 1025.7  | 1065.3  | 915.9   | 473.3  |
| 65°   | 185.3   | 187.1   | 190.7   | 190.7   | 203.3   | 244.7   | 302.3   | 332.9   | 323.9   | 320.3   | 268.1  |
| 67.5° | 142.2   | 145.8   | 153.0   | 153.0   | 160.2   | 149.4   | 167.4   | 178.1   | 201.5   | 244.7   | 228.5  |
| 70°   | 111.6   | 113.4   | 118.8   | 122.4   | 122.4   | 108.0   | 120.6   | 131.4   | 147.6   | 181.7   | 179.9  |
| 72.5° | 86.4    | 90.0    | 93.6    | 93.6    | 88.2    | 73.8    | 86.4    | 95.4    | 106.2   | 126.0   | 122.4  |
| 75°   | 66.6    | 66.6    | 68.4    | 55.8    | 43.2    | 37.8    | 52.2    | 63.0    | 79.2    | 82.8    | 68.4   |
| 77.5° | 18.0    | 19.8    | 18.0    | 16.2    | 18.0    | 27.0    | 34.2    | 39.6    | 50.4    | 50.4    | 45.0   |
| 80°   | 0.0     | 1.8     | 5.4     | 10.8    | 18.0    | 25.2    | 30.6    | 34.2    | 39.6    | 43.2    | 41.4   |
| 82.5° | 0.0     | 1.8     | 5.4     | 10.8    | 16.2    | 19.8    | 27.0    | 28.8    | 32.4    | 37.8    | 37.8   |
| 85°   | 0.0     | 1.8     | 3.6     | 7.2     | 10.8    | 12.6    | 12.6    | 10.8    | 10.8    | 9.0     | 7.2    |
| 87.5° | 0.0     | 0.0     | 1.8     | 3.6     | 3.6     | 5.4     | 5.4     | 5.4     | 5.4     | 5.4     | 5.4    |
| 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°    | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 | 3564.7 |
| 2.5°  | 3582.7 | 3527.0 | 3442.4 | 3309.2 | 3181.5 | 3098.7 | 3019.5 | 2931.3 | 2882.7 | 2879.1 | 2852.2 |
| 5°    | 3625.9 | 3500.0 | 3298.4 | 3069.9 | 2825.2 | 2614.6 | 2402.3 | 2263.7 | 2139.6 | 2071.2 | 2058.6 |
| 7.5°  | 3649.3 | 3485.6 | 3159.9 | 2776.6 | 2359.1 | 2015.4 | 1777.9 | 1603.3 | 1534.9 | 1484.6 | 1482.8 |
| 10°   | 3697.9 | 3460.4 | 2952.9 | 2387.9 | 1871.4 | 1524.1 | 1360.4 | 1281.2 | 1243.4 | 1229.0 | 1207.4 |
| 12.5° | 3733.9 | 3413.6 | 2740.6 | 1988.4 | 1479.2 | 1263.2 | 1191.2 | 1173.3 | 1175.1 | 1182.2 | 1173.3 |
| 15°   | 3784.3 | 3372.2 | 2454.5 | 1632.1 | 1241.6 | 1137.3 | 1137.3 | 1140.9 | 1166.1 | 1169.7 | 1167.9 |
| 17.5° | 3780.7 | 3291.2 | 2159.4 | 1344.2 | 1097.7 | 1083.3 | 1088.7 | 1122.9 | 1139.1 | 1144.5 | 1131.9 |
| 20°   | 3823.9 | 3215.6 | 1855.2 | 1148.1 | 1016.7 | 1038.3 | 1074.3 | 1083.3 | 1103.1 | 1106.7 | 1092.3 |
| 22.5° | 3811.3 | 3026.7 | 1572.7 | 993.3  | 955.5  | 996.9  | 1032.9 | 1043.7 | 1038.3 | 1027.5 | 1025.7 |
| 25°   | 3787.9 | 2864.7 | 1313.6 | 890.7  | 910.5  | 955.5  | 989.7  | 969.9  | 959.1  | 960.9  | 962.7  |
| 27.5° | 3746.5 | 2659.6 | 1099.5 | 818.8  | 849.3  | 915.9  | 914.1  | 906.9  | 917.7  | 908.7  | 917.7  |
| 30°   | 3739.3 | 2454.5 | 923.1  | 754.0  | 804.4  | 852.9  | 856.5  | 869.1  | 881.7  | 865.5  | 881.7  |
| 32.5° | 3750.1 | 2229.5 | 797.2  | 714.4  | 777.4  | 779.2  | 818.8  | 831.4  | 822.4  | 786.4  | 790.0  |
| 35°   | 3832.9 | 2056.8 | 705.4  | 692.8  | 734.2  | 736.0  | 773.8  | 757.6  | 718.0  | 696.4  | 709.0  |
| 37.5° | 4007.4 | 1912.8 | 662.2  | 673.0  | 676.6  | 700.0  | 701.8  | 669.4  | 673.0  | 671.2  | 678.4  |
| 40°   | 4230.5 | 1803.1 | 631.6  | 655.0  | 651.4  | 667.6  | 602.8  | 620.8  | 637.0  | 642.4  | 646.0  |
| 42.5° | 4383.5 | 1723.9 | 611.8  | 626.2  | 619.0  | 590.2  | 554.2  | 572.2  | 584.8  | 604.6  | 608.2  |
| 45°   | 4451.9 | 1660.9 | 588.4  | 575.8  | 575.8  | 523.6  | 509.2  | 512.8  | 541.6  | 563.2  | 559.6  |
| 47.5° | 4340.3 | 1599.7 | 547.0  | 509.2  | 521.8  | 478.7  | 462.5  | 462.5  | 493.1  | 520.0  | 514.6  |
| 48°   | 4297.1 | 1574.5 | 548.8  | 494.9  | 503.9  | 471.5  | 455.3  | 451.7  | 485.9  | 511.0  | 511.0  |
| 50°   | 4083.0 | 1481.0 | 502.1  | 455.3  | 437.3  | 433.7  | 422.9  | 426.5  | 448.1  | 471.5  | 471.5  |
| 52.5° | 3665.5 | 1279.4 | 424.7  | 390.5  | 358.1  | 379.7  | 385.1  | 377.9  | 388.7  | 410.3  | 408.5  |
| 55°   | 3059.1 | 982.5  | 340.1  | 323.9  | 298.7  | 322.1  | 332.9  | 323.9  | 313.1  | 329.3  | 329.3  |
| 57.5° | 1959.6 | 529.0  | 271.7  | 275.3  | 250.1  | 273.5  | 282.5  | 260.9  | 241.1  | 253.7  | 251.9  |
| 60°   | 883.5  | 316.7  | 223.1  | 217.7  | 201.5  | 228.5  | 242.9  | 217.7  | 190.7  | 199.7  | 208.7  |
| 62.5° | 331.1  | 224.9  | 169.1  | 165.6  | 162.0  | 187.1  | 194.3  | 174.5  | 147.6  | 153.0  | 154.8  |
| 65°   | 242.9  | 197.9  | 135.0  | 122.4  | 129.6  | 147.6  | 144.0  | 124.2  | 106.2  | 106.2  | 109.8  |
| 67.5° | 206.9  | 172.7  | 109.8  | 95.4   | 95.4   | 97.2   | 90.0   | 79.2   | 73.8   | 77.4   | 81.0   |
| 70°   | 162.0  | 136.8  | 86.4   | 73.8   | 66.6   | 59.4   | 52.2   | 50.4   | 45.0   | 50.4   | 48.6   |
| 72.5° | 104.4  | 91.8   | 66.6   | 55.8   | 50.4   | 41.4   | 34.2   | 32.4   | 27.0   | 25.2   | 25.2   |
| 75°   | 55.8   | 55.8   | 52.2   | 45.0   | 39.6   | 32.4   | 27.0   | 21.6   | 14.4   | 10.8   | 10.8   |
| 77.5° | 39.6   | 43.2   | 46.8   | 43.2   | 36.0   | 27.0   | 21.6   | 14.4   | 7.2    | 3.6    | 3.6    |
| 80°   | 37.8   | 43.2   | 46.8   | 41.4   | 36.0   | 27.0   | 19.8   | 10.8   | 5.4    | 1.8    | 1.8    |
| 82.5° | 34.2   | 39.6   | 43.2   | 37.8   | 32.4   | 23.4   | 18.0   | 10.8   | 5.4    | 1.8    | 1.8    |
| 85°   | 7.2    | 9.0    | 10.8   | 10.8   | 12.6   | 16.2   | 12.6   | 9.0    | 3.6    | 1.8    | 1.8    |
| 87.5° | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 5.4    | 3.6    | 3.6    | 1.8    | 1.8    | 1.8    |
| 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)