

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: P530571

Luminaire Tested: **GLAN-SA5D-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530571  
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-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 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: 22612 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

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

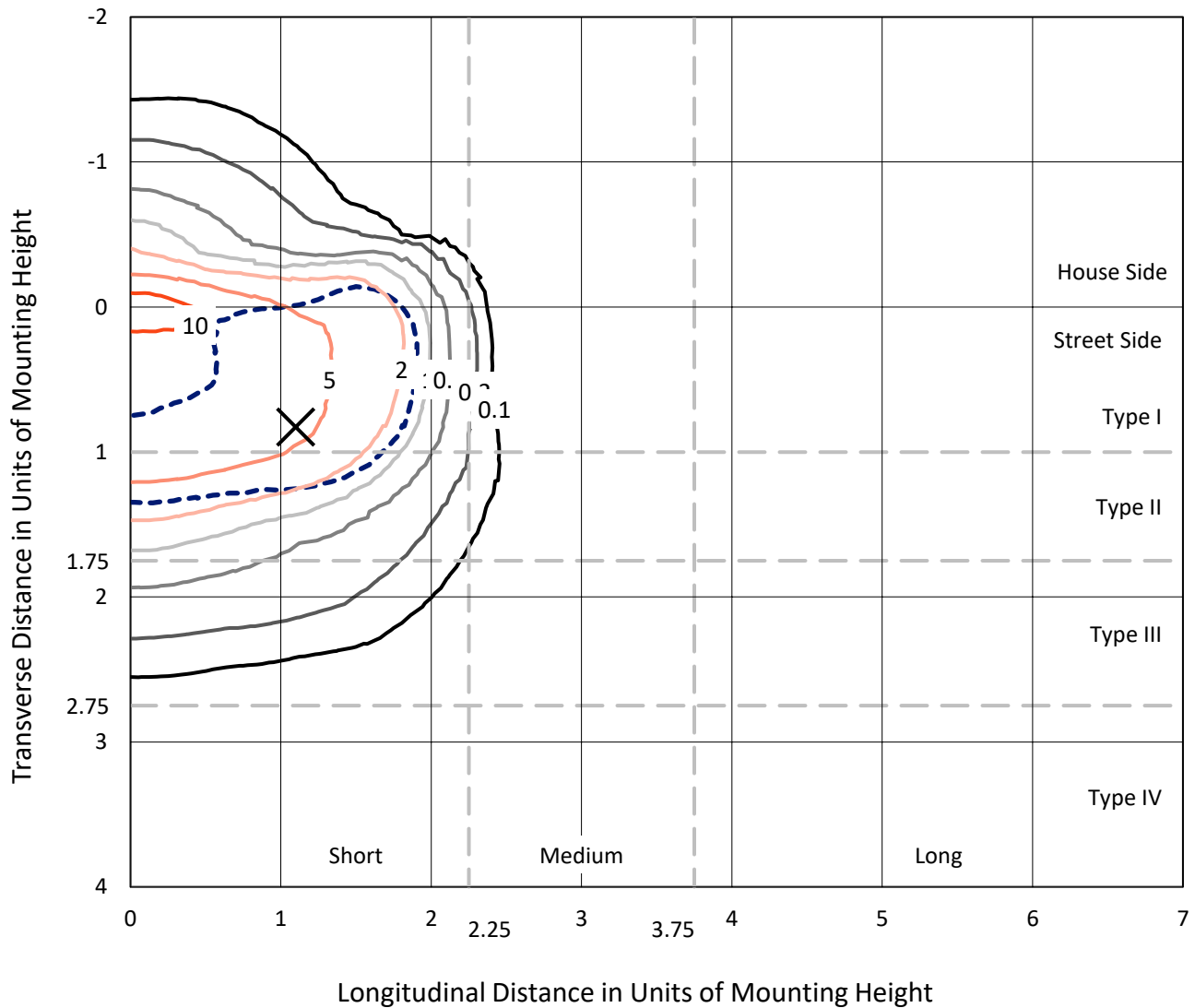


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

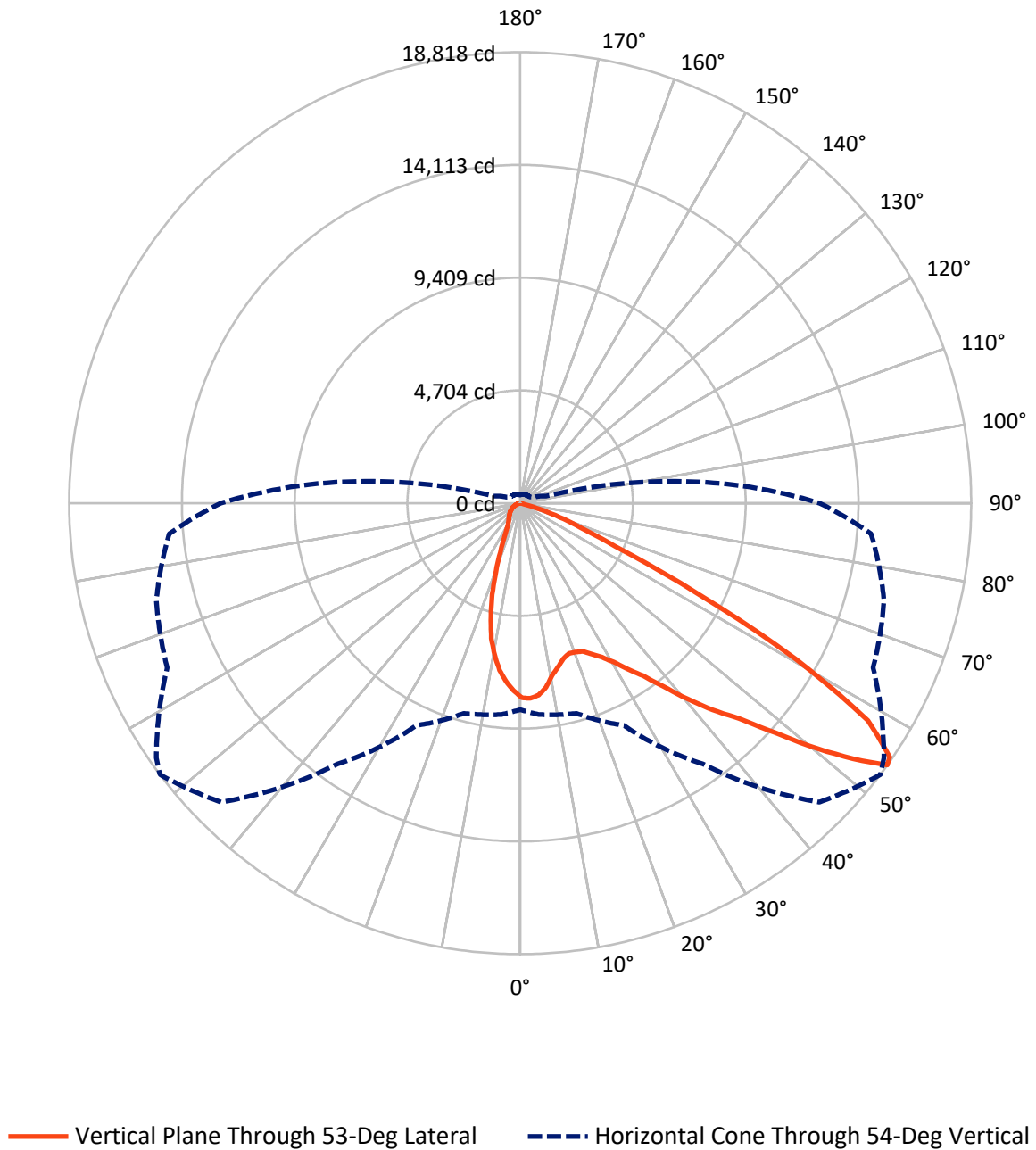


Based on 25 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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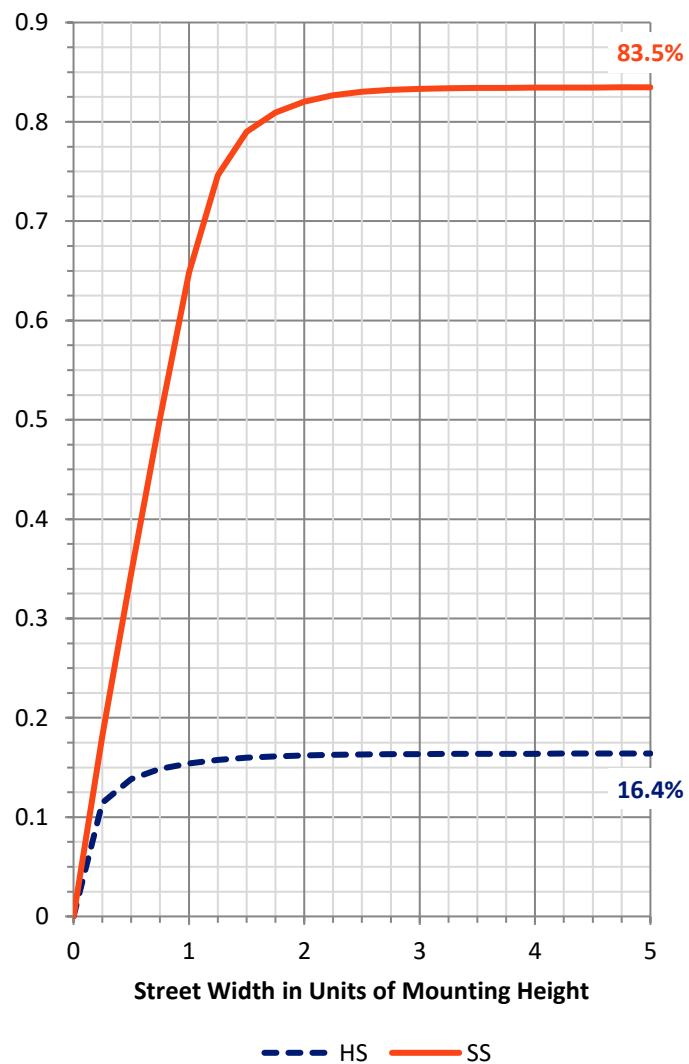
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3741.2   | 0.0    | 3741.2  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 18870.8  | 0.0    | 18870.8 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 22612.0  | 0.0    | 22612.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 696.8   | 3.1       |
| 10°-20°   | 1597.6  | 7.1       |
| 20°-30°   | 2270.6  | 10.0      |
| 30°-40°   | 3504.1  | 15.5      |
| 40°-50°   | 5494.1  | 24.3      |
| 50°-60°   | 6382.1  | 28.2      |
| 60°-70°   | 2411.6  | 10.7      |
| 70°-80°   | 229.3   | 1.0       |
| 80°-90°   | 25.8    | 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°    | 22612.0 | 100.0     |
| 0°-180°   | 22612.0 | 100.0     |

**Coefficient of Utilization**



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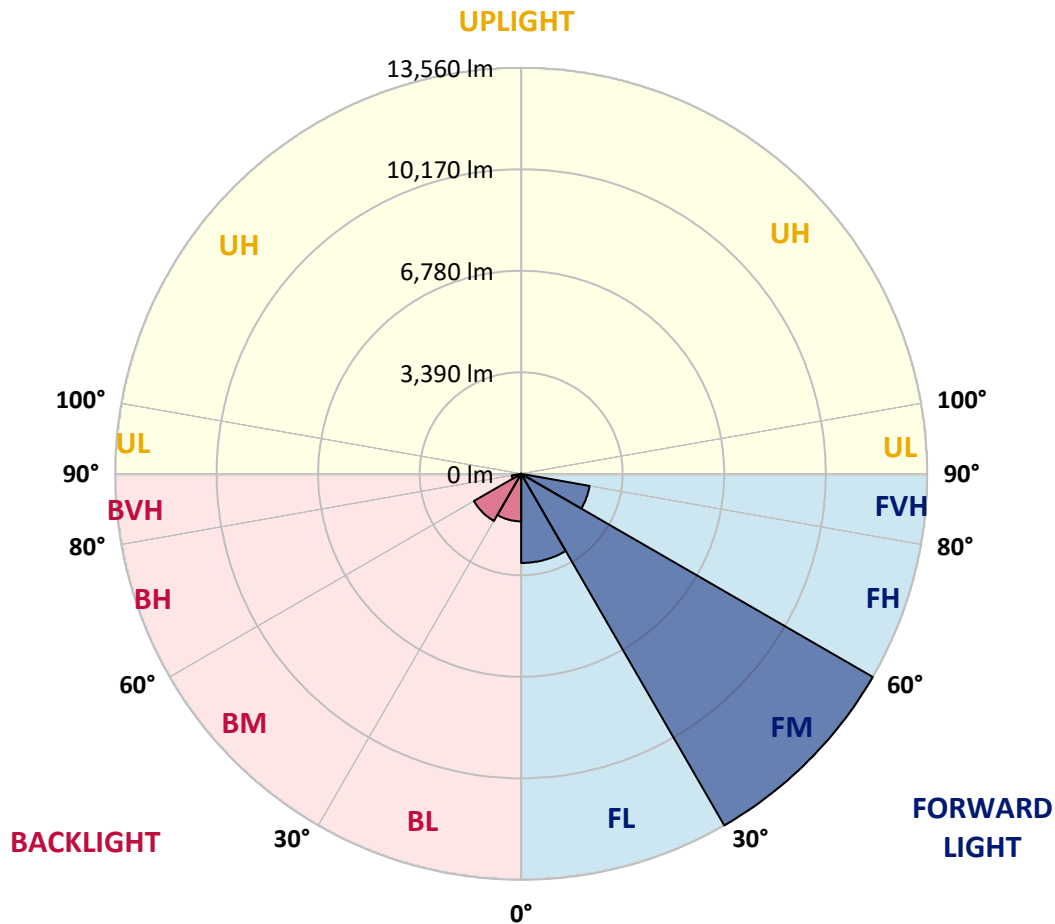
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2977.4  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 13559.7 | 60.0      |                         |      |         |
| FH   | (60°-80°)   | 2320.3  | 10.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 13.3    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1587.6  | 7.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 1820.6  | 8.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 320.5   | 1.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 12.5    | 0.1       |                         |      | 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°    | 8121.8  | 8121.8  | 8121.8  | 8121.8  | 8121.8  | 8121.8  | 8121.8  | 8121.8  | 8121.8  | 8121.8  | 8121.8  |
| 2.5°  | 8079.7  | 8008.1  | 8079.7  | 8088.1  | 8138.7  | 8185.0  | 8155.5  | 8223.0  | 8185.0  | 8142.9  | 8130.3  |
| 5°    | 7426.8  | 7523.7  | 7527.9  | 7679.5  | 7645.8  | 7923.9  | 8046.0  | 8012.3  | 8218.7  | 8206.1  | 8176.6  |
| 7.5°  | 6841.2  | 6803.3  | 6853.9  | 7030.8  | 7254.1  | 7574.2  | 7751.1  | 7746.9  | 8041.8  | 8252.4  | 8231.4  |
| 10°   | 6297.8  | 6293.6  | 6398.9  | 6537.9  | 6727.5  | 7064.5  | 7308.8  | 7431.0  | 7890.2  | 8210.3  | 8256.7  |
| 12.5° | 5931.3  | 5914.5  | 6028.2  | 6141.9  | 6441.0  | 6702.2  | 7013.9  | 7072.9  | 7599.5  | 8062.9  | 8138.7  |
| 15°   | 5691.2  | 5729.1  | 5737.5  | 5956.6  | 6146.2  | 6491.6  | 6735.9  | 6858.1  | 7464.7  | 7944.9  | 8235.6  |
| 17.5° | 5649.1  | 5699.6  | 5703.8  | 5885.0  | 6087.2  | 6377.8  | 6592.7  | 6757.0  | 7350.9  | 8003.9  | 8239.8  |
| 20°   | 5733.3  | 5703.8  | 5729.1  | 5842.8  | 6040.8  | 6318.9  | 6630.6  | 6685.4  | 7313.0  | 8033.4  | 8286.1  |
| 22.5° | 5973.4  | 5965.0  | 5901.8  | 5994.5  | 6133.5  | 6424.2  | 6719.1  | 6803.3  | 7422.6  | 8185.0  | 8324.1  |
| 25°   | 6238.8  | 6285.2  | 6226.2  | 6213.6  | 6310.4  | 6596.9  | 6988.7  | 7098.2  | 7789.1  | 8458.9  | 8442.0  |
| 27.5° | 6735.9  | 6689.6  | 6689.6  | 6630.6  | 6605.3  | 6744.3  | 7279.3  | 7460.5  | 8197.7  | 8812.7  | 8576.8  |
| 30°   | 7211.9  | 7262.5  | 7224.6  | 7245.6  | 7077.1  | 7064.5  | 7692.2  | 7915.4  | 8922.2  | 9351.9  | 8863.3  |
| 32.5° | 7966.0  | 7898.6  | 7961.8  | 7907.0  | 7683.7  | 7456.3  | 8252.4  | 8484.1  | 9798.5  | 9971.2  | 9292.9  |
| 35°   | 8593.7  | 8564.2  | 8833.8  | 8825.3  | 8463.1  | 8239.8  | 8846.4  | 9191.8  | 10409.3 | 10712.6 | 9798.5  |
| 37.5° | 9486.7  | 9432.0  | 9739.5  | 9886.9  | 9562.6  | 9229.8  | 9697.4  | 10097.5 | 10978.0 | 11306.6 | 10316.6 |
| 40°   | 10405.1 | 10544.1 | 10956.9 | 11201.2 | 10855.8 | 10413.5 | 10737.9 | 10860.0 | 11357.1 | 11694.1 | 10670.5 |
| 42.5° | 11567.7 | 11769.9 | 12191.2 | 12401.8 | 12372.3 | 11892.1 | 11795.2 | 11791.0 | 11630.9 | 11584.6 | 10931.6 |
| 45°   | 12684.1 | 12608.2 | 13257.0 | 13716.2 | 14086.9 | 13947.8 | 12814.7 | 12688.3 | 12064.8 | 11748.9 | 10999.0 |
| 47.5° | 13172.7 | 13147.5 | 13589.8 | 14407.0 | 15670.8 | 15843.5 | 14297.5 | 13808.8 | 12797.8 | 12439.7 | 11365.5 |
| 50°   | 12540.8 | 12671.4 | 13109.5 | 14015.2 | 15953.0 | 17271.6 | 16117.3 | 15460.2 | 13653.0 | 13282.3 | 12233.3 |
| 52.5° | 10476.7 | 10565.1 | 10982.2 | 12132.2 | 14992.6 | 18114.1 | 17861.3 | 17482.2 | 15224.3 | 14609.2 | 13745.6 |
| 54°   | 8614.7  | 8850.6  | 9078.1  | 10232.4 | 13282.3 | 17646.5 | 18817.6 | 18526.9 | 16247.9 | 15712.9 | 14697.7 |
| 55°   | 7502.6  | 7641.6  | 7805.9  | 8955.9  | 12098.5 | 16854.5 | 18708.1 | 18733.3 | 16934.6 | 16058.3 | 15338.0 |
| 57.5° | 5480.6  | 5577.5  | 5408.9  | 5918.7  | 8307.2  | 13686.7 | 17111.5 | 17793.9 | 17861.3 | 16576.5 | 15729.8 |
| 60°   | 4187.3  | 4229.4  | 4039.9  | 4119.9  | 5164.6  | 9394.0  | 13235.9 | 14057.4 | 16113.1 | 14487.1 | 13324.4 |
| 62.5° | 3247.9  | 3256.3  | 3252.1  | 3391.1  | 3559.6  | 5526.9  | 8277.7  | 9006.5  | 11108.6 | 10287.1 | 9048.6  |
| 65°   | 2392.7  | 2354.8  | 2422.2  | 2843.5  | 3037.3  | 3475.4  | 4360.0  | 4890.8  | 6036.6  | 5097.2  | 3643.9  |
| 67.5° | 1550.2  | 1562.9  | 1630.3  | 2114.7  | 2603.4  | 2666.6  | 2683.4  | 2641.3  | 2645.5  | 1457.6  | 914.1   |
| 70°   | 931.0   | 952.0   | 931.0   | 1196.4  | 1862.0  | 1912.5  | 1748.2  | 1706.1  | 1331.2  | 345.4   | 341.2   |
| 72.5° | 551.8   | 522.4   | 467.6   | 513.9   | 775.1   | 926.8   | 834.1   | 829.9   | 522.4   | 202.2   | 202.2   |
| 75°   | 231.7   | 210.6   | 172.7   | 155.9   | 206.4   | 198.0   | 198.0   | 176.9   | 139.0   | 134.8   | 126.4   |
| 77.5° | 46.3    | 46.3    | 33.7    | 37.9    | 50.6    | 59.0    | 71.6    | 71.6    | 84.3    | 84.3    | 80.0    |
| 80°   | 0.0     | 4.2     | 12.6    | 25.3    | 37.9    | 54.8    | 63.2    | 63.2    | 71.6    | 71.6    | 59.0    |
| 82.5° | 0.0     | 4.2     | 12.6    | 25.3    | 33.7    | 50.6    | 63.2    | 63.2    | 71.6    | 75.8    | 63.2    |
| 85°   | 0.0     | 4.2     | 12.6    | 21.1    | 33.7    | 42.1    | 42.1    | 37.9    | 29.5    | 25.3    | 16.9    |
| 87.5° | 0.0     | 0.0     | 4.2     | 8.4     | 4.2     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     | 8.4     |
| 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°    | 8121.8  | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 | 8121.8 |
| 2.5°  | 8159.8  | 8155.5 | 8054.4 | 7890.2 | 7852.2 | 7713.2 | 7696.4 | 7612.1 | 7658.5 | 7502.6 | 7485.7 |
| 5°    | 8092.4  | 8041.8 | 7919.6 | 7814.3 | 7506.8 | 7287.8 | 7115.0 | 6904.4 | 6782.2 | 6803.3 | 6723.3 |
| 7.5°  | 8189.3  | 8058.7 | 7843.8 | 7477.3 | 7102.4 | 6719.1 | 6512.6 | 6083.0 | 5927.1 | 5695.4 | 5661.7 |
| 10°   | 8088.1  | 7991.3 | 7658.5 | 7051.9 | 6533.7 | 5981.9 | 5497.4 | 5021.4 | 4659.1 | 4503.2 | 4469.5 |
| 12.5° | 8079.7  | 7911.2 | 7355.2 | 6681.1 | 5931.3 | 5139.3 | 4435.8 | 3841.9 | 3483.8 | 3281.6 | 3235.3 |
| 15°   | 7949.1  | 7746.9 | 7013.9 | 6108.2 | 5071.9 | 4086.2 | 3319.5 | 2746.6 | 2472.8 | 2354.8 | 2388.5 |
| 17.5° | 7961.8  | 7658.5 | 6672.7 | 5501.6 | 4225.2 | 2999.4 | 2266.4 | 1971.5 | 1899.9 | 1929.4 | 1929.4 |
| 20°   | 7949.1  | 7460.5 | 6259.9 | 4802.3 | 3235.3 | 2081.0 | 1664.0 | 1558.7 | 1605.0 | 1697.7 | 1676.6 |
| 22.5° | 7881.7  | 7367.8 | 5880.8 | 4065.1 | 2380.1 | 1541.8 | 1335.4 | 1339.6 | 1411.2 | 1525.0 | 1550.2 |
| 25°   | 7932.3  | 7161.4 | 5400.5 | 3319.5 | 1735.6 | 1230.1 | 1158.5 | 1187.9 | 1263.8 | 1348.0 | 1364.9 |
| 27.5° | 7894.4  | 7013.9 | 4899.2 | 2578.1 | 1268.0 | 1057.4 | 1053.1 | 1086.8 | 1120.5 | 1183.7 | 1183.7 |
| 30°   | 7936.5  | 6879.1 | 4406.4 | 1916.7 | 1044.7 | 968.9  | 952.0  | 977.3  | 1011.0 | 1023.7 | 1019.4 |
| 32.5° | 8092.4  | 6778.0 | 3837.7 | 1432.3 | 922.6  | 884.6  | 884.6  | 884.6  | 880.4  | 897.3  | 901.5  |
| 35°   | 8433.6  | 6794.9 | 3336.4 | 1107.9 | 842.5  | 813.0  | 800.4  | 783.5  | 775.1  | 783.5  | 787.8  |
| 37.5° | 8804.3  | 6786.5 | 2818.2 | 943.6  | 783.5  | 758.3  | 728.8  | 703.5  | 699.3  | 707.7  | 695.1  |
| 40°   | 8968.6  | 6866.5 | 2338.0 | 846.7  | 728.8  | 699.3  | 652.9  | 631.9  | 636.1  | 644.5  | 636.1  |
| 42.5° | 9191.8  | 6891.8 | 2026.2 | 770.9  | 678.2  | 631.9  | 602.4  | 577.1  | 572.9  | 585.5  | 581.3  |
| 45°   | 9187.6  | 6748.5 | 1697.7 | 728.8  | 631.9  | 581.3  | 543.4  | 522.4  | 522.4  | 530.8  | 535.0  |
| 47.5° | 9457.2  | 6727.5 | 1457.6 | 690.9  | 598.2  | 547.6  | 501.3  | 484.4  | 480.2  | 480.2  | 471.8  |
| 50°   | 10084.9 | 7022.4 | 1272.2 | 648.7  | 556.1  | 509.7  | 471.8  | 450.7  | 433.9  | 425.5  | 421.3  |
| 52.5° | 11310.8 | 7940.7 | 1129.0 | 598.2  | 509.7  | 471.8  | 438.1  | 421.3  | 400.2  | 379.1  | 374.9  |
| 54°   | 12498.7 | 8888.5 | 1120.5 | 556.1  | 471.8  | 446.5  | 417.0  | 408.6  | 383.3  | 353.9  | 345.4  |
| 55°   | 13033.7 | 9440.4 | 1150.0 | 522.4  | 446.5  | 429.7  | 404.4  | 396.0  | 370.7  | 337.0  | 332.8  |
| 57.5° | 13476.0 | 9655.2 | 1133.2 | 433.9  | 404.4  | 400.2  | 379.1  | 366.5  | 337.0  | 290.7  | 282.2  |
| 60°   | 10847.4 | 7300.4 | 813.0  | 383.3  | 370.7  | 362.3  | 345.4  | 337.0  | 299.1  | 248.5  | 244.3  |
| 62.5° | 6853.9  | 4199.9 | 518.1  | 337.0  | 324.4  | 311.7  | 290.7  | 282.2  | 248.5  | 198.0  | 185.4  |
| 65°   | 2919.3  | 1739.8 | 349.6  | 299.1  | 278.0  | 257.0  | 240.1  | 227.5  | 198.0  | 147.4  | 143.2  |
| 67.5° | 758.3   | 619.2  | 290.7  | 261.2  | 231.7  | 202.2  | 189.6  | 168.5  | 134.8  | 101.1  | 96.9   |
| 70°   | 341.2   | 311.7  | 244.3  | 219.1  | 185.4  | 155.9  | 139.0  | 118.0  | 88.5   | 67.4   | 63.2   |
| 72.5° | 202.2   | 198.0  | 185.4  | 164.3  | 139.0  | 118.0  | 101.1  | 80.0   | 59.0   | 37.9   | 37.9   |
| 75°   | 126.4   | 122.2  | 126.4  | 113.7  | 96.9   | 88.5   | 75.8   | 54.8   | 33.7   | 16.9   | 16.9   |
| 77.5° | 75.8    | 75.8   | 75.8   | 71.6   | 67.4   | 67.4   | 54.8   | 33.7   | 16.9   | 4.2    | 4.2    |
| 80°   | 59.0    | 59.0   | 63.2   | 59.0   | 59.0   | 59.0   | 46.3   | 25.3   | 8.4    | 0.0    | 0.0    |
| 82.5° | 59.0    | 63.2   | 71.6   | 67.4   | 59.0   | 50.6   | 42.1   | 25.3   | 8.4    | 0.0    | 0.0    |
| 85°   | 16.9    | 12.6   | 21.1   | 29.5   | 42.1   | 37.9   | 29.5   | 21.1   | 8.4    | 0.0    | 0.0    |
| 87.5° | 8.4     | 8.4    | 8.4    | 8.4    | 4.2    | 4.2    | 4.2    | 4.2    | 4.2    | 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)