

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: P459089

Luminaire Tested: **GLAN-SA5D-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459089  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25987 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

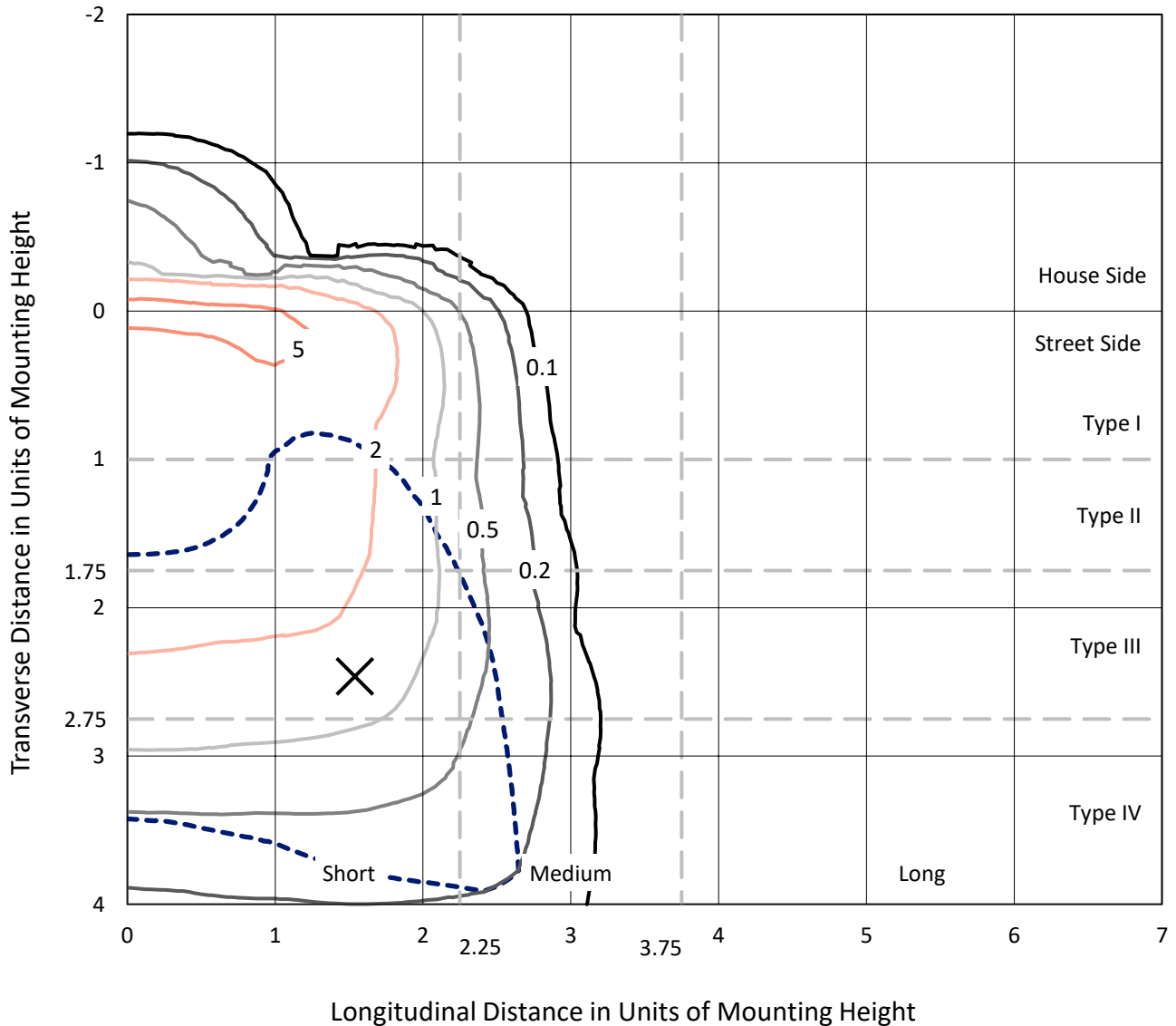
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

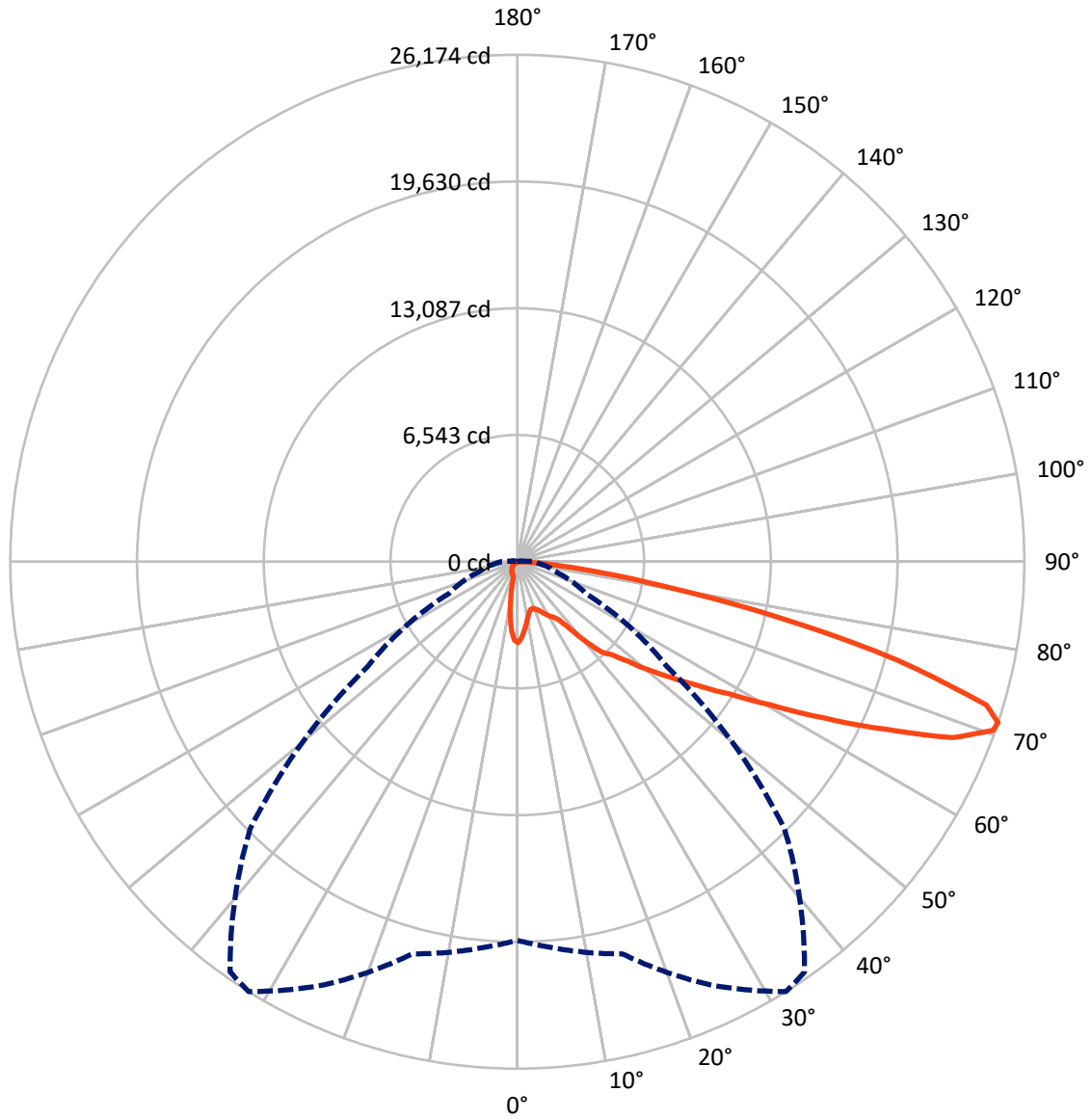
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2176.7   | 0.0    | 2176.7  |
|                    | % Fixture | 8.4      | 0.0    | 8.4     |
| <b>Street Side</b> | Lumens    | 23810.3  | 0.0    | 23810.3 |
|                    | % Fixture | 91.6     | 0.0    | 91.6    |
| <b>Total</b>       | Lumens    | 25987.0  | 0.0    | 25987.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 339.8   | 1.3       |
| 10°-20°   | 737.5   | 2.8       |
| 20°-30°   | 1147.3  | 4.4       |
| 30°-40°   | 1911.5  | 7.4       |
| 40°-50°   | 3555.7  | 13.7      |
| 50°-60°   | 5708.8  | 22.0      |
| 60°-70°   | 7678.5  | 29.5      |
| 70°-80°   | 4555.8  | 17.5      |
| 80°-90°   | 352.1   | 1.4       |
| 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°    | 25987.0 | 100.0     |
| 0°-180°   | 25987.0 | 100.0     |

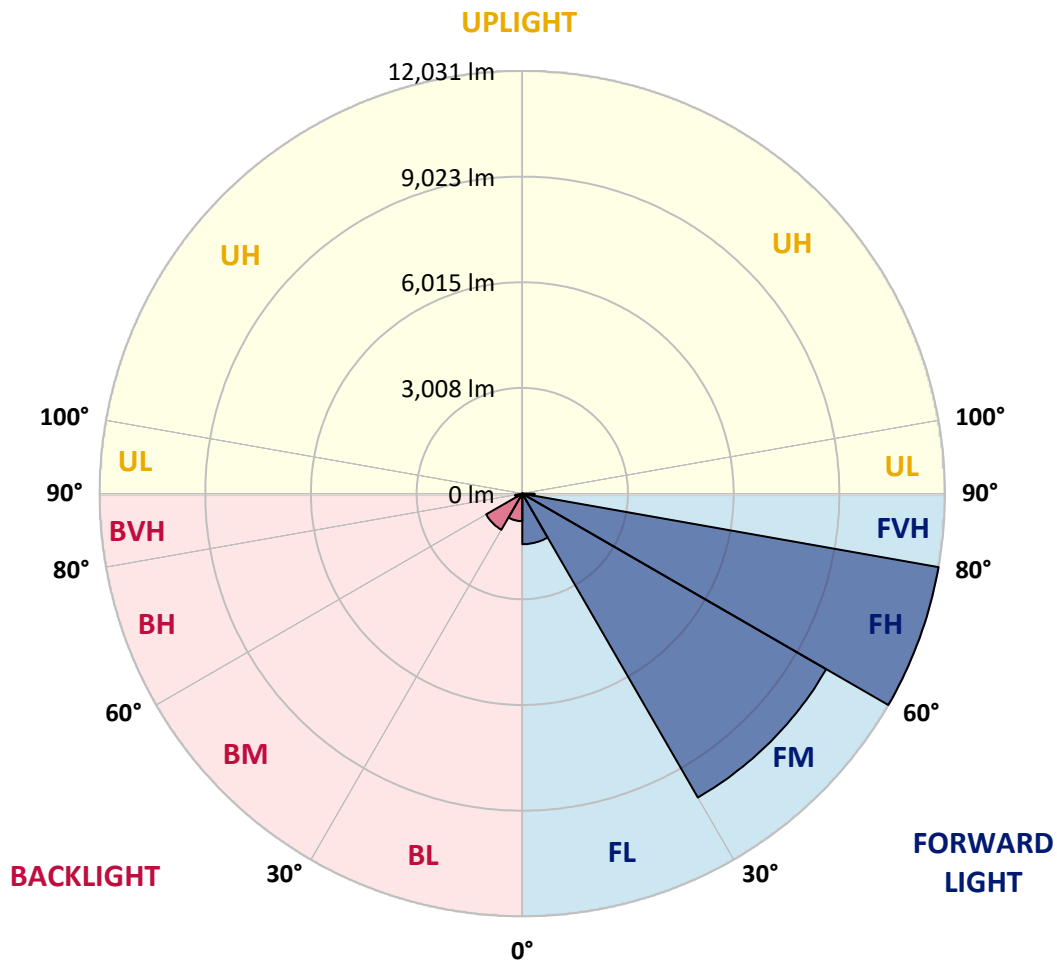


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 1440.4  | 5.5       |                         |      |        |
| FM (30°-60°)   | 9988.4  | 38.4      |                         |      |        |
| FH (60°-80°)   | 12030.7 | 46.3      |                         |      | G5     |
| FVH (80°-90°)  | 350.8   | 1.3       |                         |      | G3/500 |
| BL (0°-30°)    | 784.3   | 3.0       | B2/1000                 |      |        |
| BM (30°-60°)   | 1187.4  | 4.6       | B2/2500                 |      |        |
| BH (60°-80°)   | 203.6   | 0.8       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 1.4     | 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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 32°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4179.1  | 4179.1  | 4179.1  | 4179.1  | 4179.1  | 4179.1  | 4179.1  | 4179.1  | 4179.1  | 4179.1  | 4179.1  |
| 2.5°  | 3875.9  | 3915.8  | 3909.8  | 3923.8  | 3957.7  | 3971.7  | 4009.6  | 4051.4  | 4109.3  | 4149.2  | 4175.1  |
| 5°    | 3471.0  | 3500.9  | 3504.9  | 3574.7  | 3608.6  | 3646.5  | 3758.2  | 3879.9  | 4015.5  | 4123.3  | 4195.1  |
| 7.5°  | 3038.1  | 3054.0  | 3086.0  | 3177.7  | 3263.5  | 3301.4  | 3471.0  | 3682.4  | 3895.9  | 4097.3  | 4227.0  |
| 10°   | 2681.0  | 2699.0  | 2756.8  | 2854.6  | 2934.4  | 2984.2  | 3219.6  | 3484.9  | 3784.1  | 4083.4  | 4272.9  |
| 12.5° | 2477.5  | 2487.5  | 2509.5  | 2597.2  | 2699.0  | 2752.8  | 3006.2  | 3309.4  | 3694.4  | 4089.3  | 4350.7  |
| 15°   | 2463.6  | 2459.6  | 2433.7  | 2469.6  | 2561.3  | 2617.2  | 2864.5  | 3189.7  | 3614.6  | 4109.3  | 4442.4  |
| 17.5° | 2537.4  | 2527.4  | 2465.6  | 2465.6  | 2541.4  | 2587.3  | 2804.7  | 3125.9  | 3574.7  | 4155.2  | 4572.1  |
| 20°   | 2651.1  | 2635.1  | 2533.4  | 2525.4  | 2599.2  | 2647.1  | 2840.6  | 3129.8  | 3582.7  | 4241.0  | 4745.6  |
| 22.5° | 2794.7  | 2776.8  | 2623.2  | 2627.2  | 2706.9  | 2754.8  | 2944.3  | 3201.7  | 3632.5  | 4346.7  | 4931.2  |
| 25°   | 2982.2  | 2962.3  | 2780.8  | 2772.8  | 2856.6  | 2898.5  | 3097.9  | 3329.3  | 3702.4  | 4478.3  | 5174.5  |
| 27.5° | 3231.6  | 3189.7  | 2972.3  | 2960.3  | 3050.1  | 3103.9  | 3283.4  | 3500.9  | 3826.0  | 4659.9  | 5501.7  |
| 30°   | 3437.0  | 3391.2  | 3183.7  | 3151.8  | 3247.5  | 3289.4  | 3474.9  | 3732.3  | 4069.4  | 4977.0  | 5954.5  |
| 32.5° | 3706.3  | 3638.5  | 3395.2  | 3311.4  | 3413.1  | 3467.0  | 3752.2  | 4163.2  | 4430.5  | 5312.2  | 6493.1  |
| 35°   | 4312.8  | 4270.9  | 3973.7  | 3680.4  | 3674.4  | 3742.3  | 4161.2  | 4598.0  | 4801.5  | 5834.8  | 7227.2  |
| 37.5° | 5180.5  | 5150.6  | 4835.4  | 4442.4  | 4328.7  | 4296.8  | 4657.9  | 5076.8  | 5394.0  | 6552.9  | 8081.0  |
| 40°   | 6187.9  | 6118.1  | 5828.8  | 5495.7  | 5348.1  | 5254.3  | 5244.3  | 5788.9  | 6167.9  | 7528.4  | 8970.6  |
| 42.5° | 6910.0  | 6782.3  | 6431.2  | 6407.3  | 6375.4  | 6277.6  | 5994.4  | 6830.2  | 7167.3  | 8577.7  | 9922.2  |
| 45°   | 7668.0  | 7474.5  | 6951.9  | 6862.1  | 6850.2  | 6844.2  | 7127.4  | 8063.0  | 8256.5  | 9714.7  | 10899.6 |
| 47.5° | 8256.5  | 8102.9  | 7674.0  | 7634.1  | 7684.0  | 7819.6  | 8625.5  | 9371.6  | 9331.7  | 10728.1 | 11719.5 |
| 50°   | 9040.5  | 8924.8  | 8448.0  | 8523.8  | 8781.1  | 9002.6  | 10315.1 | 10797.9 | 10215.4 | 11526.0 | 12315.9 |
| 52.5° | 9966.0  | 9752.6  | 9309.8  | 9515.2  | 9910.2  | 10279.2 | 12108.5 | 12046.6 | 10835.8 | 12126.4 | 12760.8 |
| 55°   | 10768.0 | 10616.3 | 10464.7 | 10678.2 | 11268.7 | 11729.5 | 13728.2 | 12982.2 | 11286.6 | 12609.2 | 12956.3 |
| 57.5° | 12124.4 | 12088.5 | 11932.9 | 12150.4 | 12866.5 | 13345.2 | 15178.5 | 13708.3 | 11575.9 | 12860.5 | 12726.9 |
| 60°   | 14131.2 | 14073.3 | 13784.1 | 14061.4 | 14994.9 | 15747.0 | 16515.0 | 14360.6 | 11641.7 | 12762.8 | 12066.6 |
| 62.5° | 16544.9 | 16347.4 | 16100.1 | 16509.0 | 17789.7 | 18120.8 | 17773.7 | 14747.6 | 11396.3 | 11984.8 | 10474.7 |
| 65°   | 18799.0 | 18595.6 | 18601.6 | 19463.3 | 20857.7 | 21083.1 | 19241.9 | 14689.7 | 10678.2 | 10035.9 | 7725.9  |
| 67.5° | 20524.5 | 20490.6 | 20734.0 | 22415.6 | 24238.9 | 24083.3 | 20554.5 | 13824.0 | 8549.7  | 6505.1  | 4105.3  |
| 70°   | 20612.3 | 20678.1 | 21376.3 | 24214.9 | 26066.1 | 25818.8 | 20442.8 | 11236.7 | 5330.1  | 2992.2  | 1617.8  |
| 71°   | 19551.1 | 19993.9 | 20959.4 | 24159.1 | 26173.8 | 25852.7 | 19501.2 | 9411.5  | 3909.8  | 2086.6  | 1167.0  |
| 72.5° | 16660.6 | 16894.0 | 18980.6 | 22736.8 | 25322.0 | 24635.8 | 17113.4 | 6596.8  | 2503.5  | 1276.7  | 670.3   |
| 75°   | 9176.1  | 9750.6  | 12710.9 | 17837.5 | 20253.3 | 19650.8 | 11153.0 | 3133.8  | 1248.7  | 698.2   | 277.3   |
| 77.5° | 4368.6  | 4256.9  | 6201.8  | 10608.4 | 13732.2 | 13700.3 | 5619.4  | 1392.4  | 728.1   | 472.8   | 139.6   |
| 80°   | 1248.7  | 1404.3  | 2373.8  | 5042.9  | 7624.1  | 7707.9  | 2158.4  | 672.2   | 504.7   | 369.0   | 71.8    |
| 82.5° | 377.0   | 385.0   | 871.7   | 2230.2  | 3792.1  | 3574.7  | 809.9   | 343.1   | 363.1   | 293.2   | 41.9    |
| 85°   | 65.8    | 81.8    | 257.3   | 786.0   | 1446.2  | 1097.1  | 203.5   | 163.6   | 239.4   | 193.5   | 23.9    |
| 87.5° | 4.0     | 6.0     | 85.8    | 89.8    | 127.7   | 73.8    | 35.9    | 23.9    | 51.9    | 51.9    | 14.0    |
| 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°    | 4179.1  | 4179.1 | 4179.1 | 4179.1 | 4179.1 | 4179.1 | 4179.1 | 4179.1 | 4179.1 | 4179.1 | 4179.1 |
| 2.5°  | 4193.1  | 4205.0 | 4197.1 | 4179.1 | 4149.2 | 4113.3 | 4065.4 | 4025.5 | 3991.6 | 3973.7 | 3995.6 |
| 5°    | 4219.0  | 4235.0 | 4195.1 | 4105.3 | 3969.7 | 3822.0 | 3654.5 | 3524.8 | 3423.1 | 3391.2 | 3379.2 |
| 7.5°  | 4258.9  | 4268.9 | 4161.2 | 3961.7 | 3674.4 | 3325.3 | 3020.1 | 2762.8 | 2563.3 | 2503.5 | 2415.7 |
| 10°   | 4310.8  | 4304.8 | 4101.3 | 3730.3 | 3225.6 | 2701.0 | 2228.2 | 1877.1 | 1611.8 | 1516.1 | 1508.1 |
| 12.5° | 4390.6  | 4358.6 | 4025.5 | 3415.1 | 2691.0 | 2004.8 | 1420.3 | 1111.1 | 943.5  | 887.7  | 875.7  |
| 15°   | 4490.3  | 4414.5 | 3905.8 | 3046.1 | 2060.6 | 1294.6 | 875.7  | 782.0  | 760.0  | 756.0  | 752.0  |
| 17.5° | 4608.0  | 4488.3 | 3748.2 | 2593.2 | 1448.2 | 839.8  | 732.1  | 730.1  | 732.1  | 728.1  | 726.1  |
| 20°   | 4767.6  | 4566.1 | 3560.7 | 2056.6 | 957.5  | 708.2  | 698.2  | 698.2  | 700.2  | 698.2  | 698.2  |
| 22.5° | 4937.1  | 4657.9 | 3329.3 | 1569.9 | 722.1  | 672.2  | 670.3  | 674.2  | 678.2  | 676.2  | 676.2  |
| 25°   | 5146.6  | 4777.6 | 3024.1 | 1075.2 | 646.3  | 642.3  | 644.3  | 652.3  | 660.3  | 662.3  | 660.3  |
| 27.5° | 5449.8  | 4925.2 | 2697.0 | 740.1  | 592.5  | 596.4  | 616.4  | 636.3  | 648.3  | 650.3  | 650.3  |
| 30°   | 5790.9  | 5088.7 | 2270.1 | 600.4  | 548.6  | 548.6  | 572.5  | 610.4  | 636.3  | 640.3  | 642.3  |
| 32.5° | 6229.8  | 5278.3 | 1797.3 | 540.6  | 506.7  | 502.7  | 524.6  | 570.5  | 618.4  | 632.4  | 632.4  |
| 35°   | 6772.4  | 5501.7 | 1336.5 | 502.7  | 476.8  | 466.8  | 478.8  | 516.7  | 578.5  | 618.4  | 622.4  |
| 37.5° | 7408.7  | 5713.1 | 977.5  | 468.8  | 448.8  | 434.9  | 442.8  | 472.8  | 522.6  | 582.5  | 598.4  |
| 40°   | 7997.2  | 5900.6 | 730.1  | 440.9  | 420.9  | 410.9  | 416.9  | 430.9  | 472.8  | 528.6  | 538.6  |
| 42.5° | 8639.5  | 6046.3 | 580.5  | 410.9  | 393.0  | 389.0  | 389.0  | 395.0  | 422.9  | 454.8  | 456.8  |
| 45°   | 9279.8  | 6098.1 | 486.7  | 375.0  | 363.1  | 367.0  | 365.0  | 361.1  | 373.0  | 369.0  | 369.0  |
| 47.5° | 9736.6  | 6036.3 | 403.0  | 341.1  | 341.1  | 347.1  | 337.1  | 323.2  | 317.2  | 293.2  | 295.2  |
| 50°   | 10049.8 | 5810.9 | 331.1  | 301.2  | 317.2  | 325.2  | 305.2  | 283.3  | 261.3  | 235.4  | 229.4  |
| 52.5° | 10179.5 | 5409.9 | 271.3  | 249.4  | 281.3  | 291.2  | 267.3  | 241.4  | 207.5  | 185.5  | 179.5  |
| 55°   | 10095.7 | 4915.2 | 225.4  | 203.5  | 237.4  | 249.4  | 225.4  | 195.5  | 157.6  | 133.7  | 129.7  |
| 57.5° | 9726.7  | 4324.7 | 191.5  | 161.6  | 189.5  | 197.5  | 181.5  | 149.6  | 111.7  | 87.8   | 87.8   |
| 60°   | 9088.3  | 3714.3 | 155.6  | 127.7  | 141.6  | 153.6  | 137.6  | 107.7  | 75.8   | 53.9   | 49.9   |
| 62.5° | 7793.7  | 3016.1 | 125.7  | 99.7   | 99.7   | 109.7  | 95.8   | 77.8   | 47.9   | 27.9   | 25.9   |
| 65°   | 5627.3  | 2068.6 | 99.7   | 73.8   | 71.8   | 71.8   | 59.8   | 51.9   | 27.9   | 12.0   | 8.0    |
| 67.5° | 3058.0  | 1167.0 | 79.8   | 55.9   | 49.9   | 47.9   | 37.9   | 29.9   | 12.0   | 2.0    | 0.0    |
| 70°   | 1202.9  | 448.8  | 61.8   | 37.9   | 31.9   | 29.9   | 19.9   | 14.0   | 8.0    | 0.0    | 0.0    |
| 71°   | 815.9   | 309.2  | 53.9   | 31.9   | 25.9   | 21.9   | 16.0   | 12.0   | 6.0    | 0.0    | 0.0    |
| 72.5° | 466.8   | 191.5  | 41.9   | 23.9   | 19.9   | 16.0   | 12.0   | 8.0    | 6.0    | 0.0    | 0.0    |
| 75°   | 203.5   | 97.7   | 25.9   | 18.0   | 14.0   | 10.0   | 8.0    | 6.0    | 2.0    | 0.0    | 0.0    |
| 77.5° | 103.7   | 53.9   | 18.0   | 14.0   | 8.0    | 6.0    | 4.0    | 2.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 57.8    | 27.9   | 12.0   | 8.0    | 6.0    | 4.0    | 2.0    | 2.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 31.9    | 16.0   | 6.0    | 4.0    | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 19.9    | 10.0   | 2.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 10.0    | 4.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.0    | 2.0    | 0.0    | 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)