

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: McGRAW-EDISON

Report Number: P949830

Luminaire Tested: **GALN-SB4C-722-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4C-722-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21141 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 200.7  
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

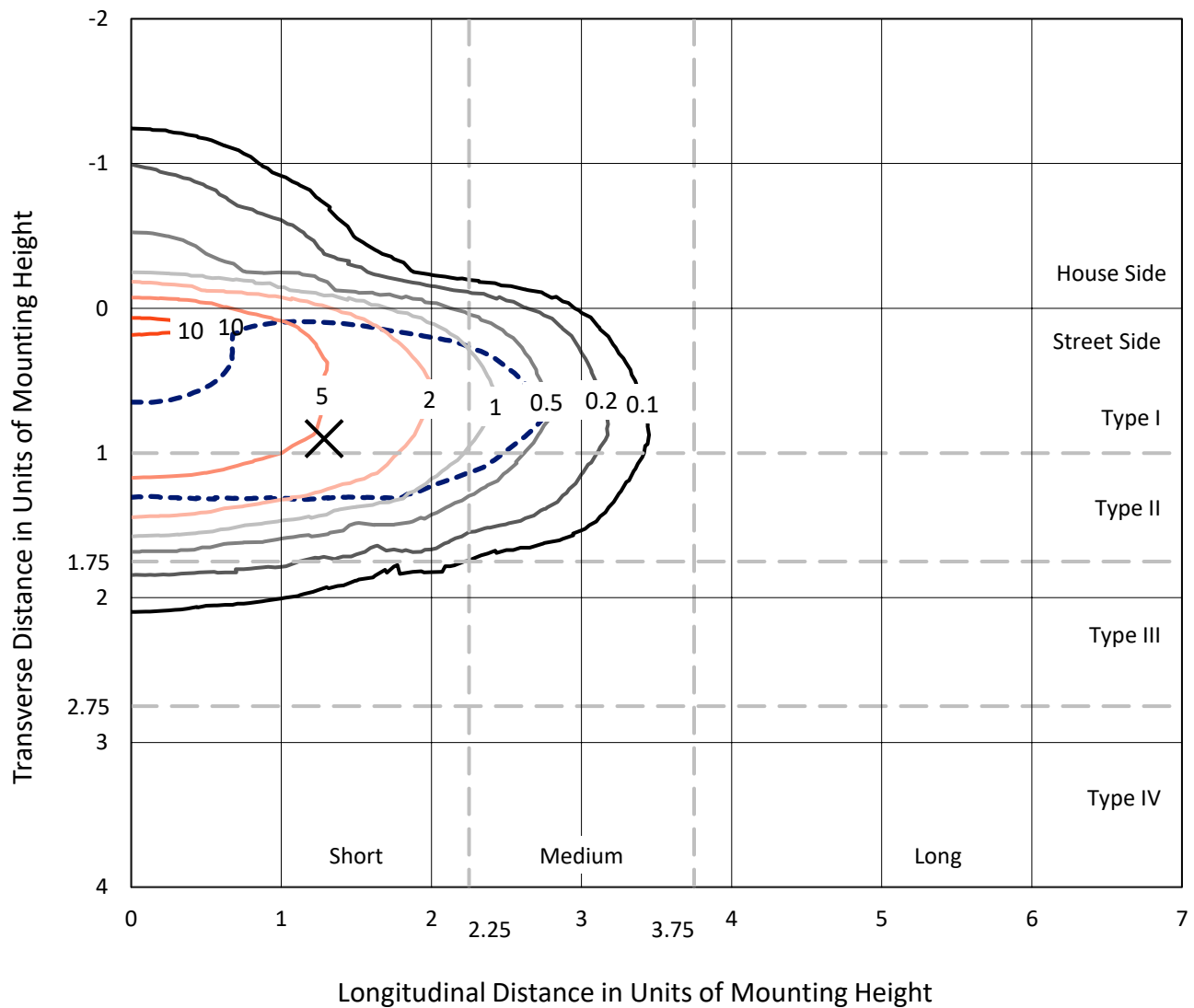


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## Iso-Footcandle Lines of Horizontal Illumination

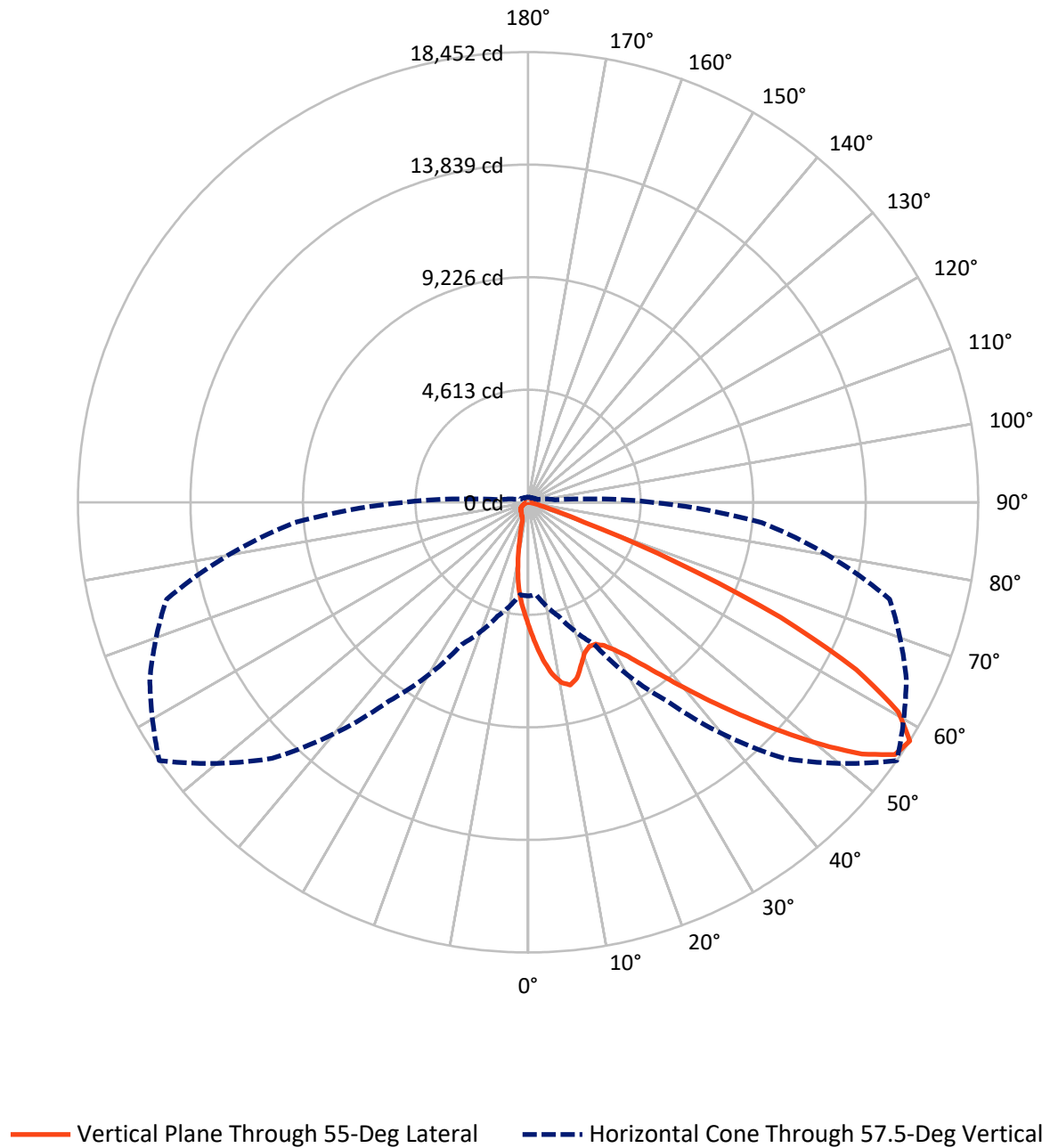
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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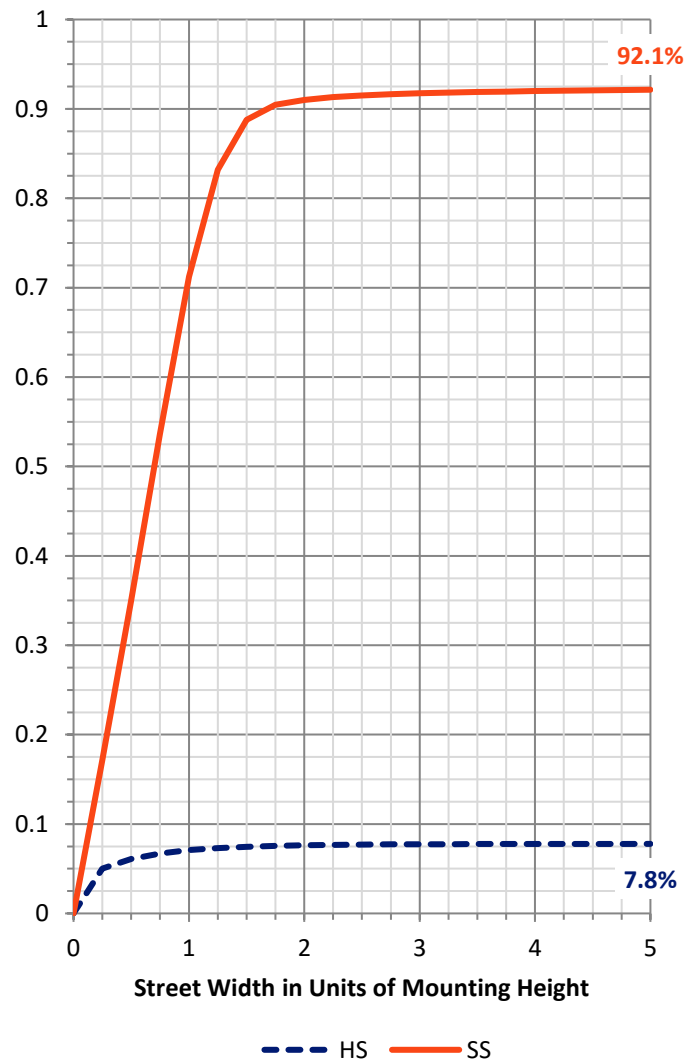
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1651.0   | 0.0    | 1651.0  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 19490.0  | 0.0    | 19490.0 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 21141.0  | 0.0    | 21141.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 474.0   | 2.2       |
| 10°-20°   | 1145.0  | 5.4       |
| 20°-30°   | 1831.9  | 8.7       |
| 30°-40°   | 3100.7  | 14.7      |
| 40°-50°   | 5090.7  | 24.1      |
| 50°-60°   | 5595.0  | 26.5      |
| 60°-70°   | 3209.3  | 15.2      |
| 70°-80°   | 655.7   | 3.1       |
| 80°-90°   | 38.7    | 0.2       |
| 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°    | 21141.0 | 100.0     |
| 0°-180°   | 21141.0 | 100.0     |

**Coefficient of Utilization**



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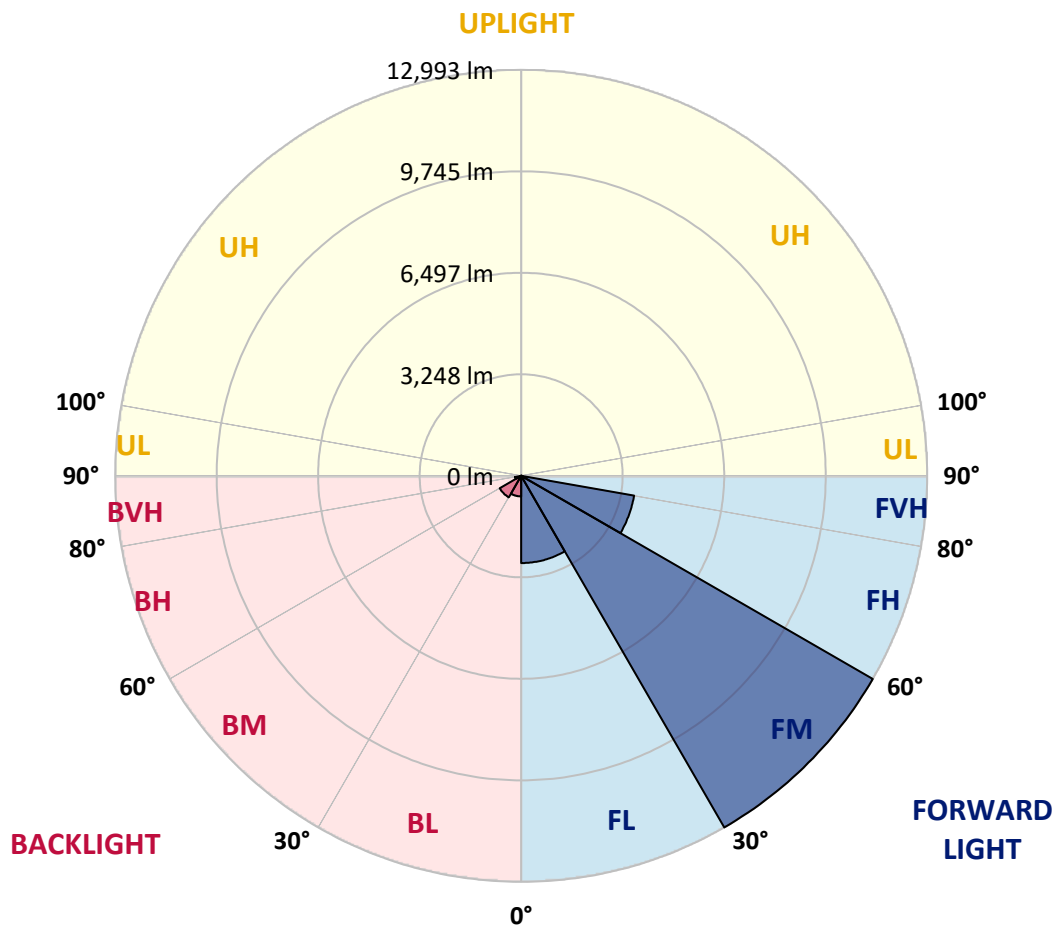
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2791.8  | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 12993.4 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 3668.7  | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 36.1    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 659.1   | 3.1       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 792.9   | 3.8       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 196.4   | 0.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.6     | 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-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°    | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|
| 0°    | 5094.5  | 5094.5  | 5094.5  | 5094.5  | 5094.5  | 5094.5  | 5094.5  | 5094.5  | 5094.5  | 5094.5 | 5094.5 |
| 2.5°  | 6321.1  | 6241.6  | 6229.9  | 6214.3  | 6063.0  | 5949.6  | 5785.4  | 5605.5  | 5403.4  | 5197.4 | 5106.2 |
| 5°    | 7302.8  | 7240.2  | 7228.4  | 7155.4  | 6983.4  | 6790.4  | 6498.4  | 6129.5  | 5752.8  | 5309.6 | 5119.2 |
| 7.5°  | 7493.1  | 7481.3  | 7534.8  | 7532.2  | 7508.7  | 7356.2  | 7109.8  | 6670.5  | 6104.7  | 5447.7 | 5153.1 |
| 10°   | 6644.4  | 6674.4  | 6833.5  | 6972.9  | 7349.7  | 7568.7  | 7515.2  | 7152.8  | 6467.1  | 5605.5 | 5190.9 |
| 12.5° | 5871.4  | 5836.2  | 5949.6  | 6107.4  | 6545.4  | 7197.2  | 7683.4  | 7555.7  | 6881.7  | 5784.1 | 5247.0 |
| 15°   | 5386.5  | 5372.1  | 5436.0  | 5509.0  | 5842.7  | 6499.7  | 7487.9  | 7882.9  | 7280.6  | 5995.2 | 5331.7 |
| 17.5° | 5231.3  | 5219.6  | 5239.2  | 5257.4  | 5473.8  | 5982.2  | 7022.5  | 8083.6  | 7662.5  | 6236.4 | 5425.6 |
| 20°   | 5357.8  | 5342.1  | 5339.5  | 5325.2  | 5415.1  | 5761.9  | 6601.4  | 8097.9  | 8005.4  | 6455.4 | 5506.4 |
| 22.5° | 5726.7  | 5708.5  | 5644.6  | 5587.2  | 5595.0  | 5791.9  | 6413.7  | 7954.6  | 8263.5  | 6660.1 | 5557.2 |
| 25°   | 6395.5  | 6365.5  | 6232.5  | 6039.6  | 5917.0  | 6000.5  | 6442.4  | 7765.5  | 8509.9  | 6820.4 | 5532.5 |
| 27.5° | 7232.4  | 7193.3  | 7022.5  | 6735.7  | 6455.4  | 6353.7  | 6649.7  | 7635.2  | 8714.6  | 6943.0 | 5479.0 |
| 30°   | 8052.3  | 8001.5  | 7833.3  | 7610.4  | 7201.1  | 6880.4  | 7023.8  | 7692.5  | 8958.3  | 7070.7 | 5408.6 |
| 32.5° | 8937.5  | 8889.2  | 8666.3  | 8390.0  | 8051.0  | 7619.5  | 7536.1  | 7972.8  | 9256.8  | 7249.3 | 5359.1 |
| 35°   | 10057.3 | 9981.6  | 9664.9  | 9288.1  | 8928.3  | 8491.6  | 8229.6  | 8456.4  | 9654.4  | 7521.8 | 5386.5 |
| 37.5° | 11332.2 | 11230.5 | 10889.0 | 10368.8 | 9899.5  | 9410.7  | 9074.3  | 9121.3  | 10237.2 | 7886.8 | 5471.2 |
| 40°   | 12534.1 | 12441.5 | 12126.1 | 11635.9 | 11046.7 | 10453.6 | 10095.1 | 9990.8  | 11041.5 | 8331.3 | 5619.8 |
| 42.5° | 13255.0 | 13171.6 | 13038.6 | 12831.3 | 12334.6 | 11729.8 | 11277.4 | 11051.9 | 11993.1 | 8863.2 | 5801.0 |
| 45°   | 13295.4 | 13222.4 | 13401.0 | 13642.2 | 13544.4 | 13141.6 | 12590.1 | 12176.9 | 12948.6 | 9362.4 | 5988.7 |
| 47.5° | 12648.8 | 12599.3 | 13141.6 | 13983.7 | 14403.5 | 14572.9 | 14064.5 | 13208.1 | 13737.3 | 9720.9 | 6065.6 |
| 50°   | 10886.3 | 10868.1 | 11984.0 | 13530.0 | 14730.7 | 15827.0 | 15619.7 | 14167.5 | 14348.7 | 9906.0 | 5992.6 |
| 52.5° | 9439.4  | 9372.9  | 10023.4 | 12077.8 | 14254.8 | 16486.6 | 17139.7 | 15108.7 | 14776.3 | 9941.2 | 5821.9 |
| 55°   | 7159.4  | 7100.7  | 7916.7  | 9647.9  | 12720.5 | 16252.0 | 18251.7 | 16079.9 | 15082.6 | 9851.3 | 5515.5 |
| 57.5° | 3840.4  | 3803.9  | 4835.0  | 6421.5  | 9943.8  | 14844.1 | 18452.4 | 17107.1 | 15340.7 | 9612.7 | 5086.6 |
| 60°   | 1495.2  | 1488.7  | 1874.6  | 3115.6  | 6043.5  | 12076.5 | 17439.5 | 17723.7 | 15502.4 | 9319.4 | 4728.1 |
| 62.5° | 904.7   | 924.3   | 986.8   | 1398.8  | 2669.8  | 7502.2  | 15104.8 | 17022.4 | 15610.6 | 9050.9 | 4432.2 |
| 65°   | 748.3   | 749.6   | 757.4   | 960.8   | 1278.8  | 3139.1  | 11371.3 | 14715.0 | 15343.3 | 8572.5 | 4012.5 |
| 67.5° | 641.4   | 653.1   | 683.1   | 762.6   | 902.1   | 1376.6  | 6546.7  | 11398.7 | 13717.8 | 7459.2 | 3358.1 |
| 70°   | 505.8   | 521.4   | 559.2   | 627.0   | 696.1   | 861.7   | 2419.5  | 7584.3  | 10479.6 | 5622.4 | 2539.4 |
| 72.5° | 426.3   | 425.0   | 444.5   | 509.7   | 552.7   | 606.2   | 930.8   | 4249.7  | 6090.4  | 2684.1 | 1256.7 |
| 75°   | 329.8   | 342.8   | 367.6   | 426.3   | 452.3   | 439.3   | 504.5   | 1552.6  | 2182.2  | 813.4  | 427.6  |
| 77.5° | 258.1   | 268.5   | 290.7   | 348.1   | 374.1   | 311.6   | 290.7   | 555.3   | 701.3   | 292.0  | 192.9  |
| 80°   | 116.0   | 125.1   | 198.1   | 256.8   | 305.0   | 215.1   | 157.7   | 284.2   | 311.6   | 133.0  | 97.8   |
| 82.5° | 20.9    | 35.2    | 116.0   | 135.6   | 156.4   | 139.5   | 82.1    | 147.3   | 152.5   | 53.4   | 33.9   |
| 85°   | 1.3     | 2.6     | 40.4    | 49.5    | 62.6    | 45.6    | 24.8    | 58.7    | 50.8    | 18.3   | 13.0   |
| 87.5° | 0.0     | 0.0     | 0.0     | 1.3     | 1.3     | 6.5     | 7.8     | 10.4    | 7.8     | 6.5    | 5.2    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 5094.5 | 5094.5 | 5094.5 | 5094.5 | 5094.5 | 5094.5 | 5094.5 | 5094.5 | 5094.5 | 5094.5 |
| 2.5°  | 5012.3 | 4827.2 | 4647.3 | 4500.0 | 4414.0 | 4268.0 | 4171.5 | 4155.9 | 4115.5 | 4150.7 |
| 5°    | 4915.9 | 4584.8 | 4249.7 | 3949.9 | 3703.5 | 3385.4 | 3148.2 | 3047.8 | 2960.5 | 2990.5 |
| 7.5°  | 4870.2 | 4347.5 | 3826.1 | 3313.7 | 2787.1 | 2278.7 | 1900.6 | 1742.9 | 1623.0 | 1639.9 |
| 10°   | 4809.0 | 4101.1 | 3283.8 | 2501.6 | 1796.4 | 1294.5 | 1033.8 | 937.3  | 883.8  | 885.1  |
| 12.5° | 4762.0 | 3806.5 | 2654.1 | 1696.0 | 1093.7 | 826.5  | 745.7  | 722.2  | 706.5  | 707.9  |
| 15°   | 4738.6 | 3459.7 | 2032.3 | 1130.2 | 782.2  | 700.0  | 680.5  | 670.0  | 659.6  | 658.3  |
| 17.5° | 4699.5 | 3073.9 | 1487.4 | 825.2  | 684.4  | 655.7  | 638.8  | 627.0  | 614.0  | 611.4  |
| 20°   | 4640.8 | 2635.9 | 1087.2 | 697.4  | 641.4  | 619.2  | 595.7  | 580.1  | 564.5  | 561.9  |
| 22.5° | 4532.6 | 2173.1 | 835.6  | 645.3  | 610.1  | 585.3  | 556.6  | 538.4  | 522.7  | 520.1  |
| 25°   | 4331.9 | 1739.0 | 703.9  | 612.7  | 582.7  | 552.7  | 521.4  | 496.7  | 482.3  | 479.7  |
| 27.5° | 4077.7 | 1366.2 | 638.8  | 582.7  | 547.5  | 520.1  | 484.9  | 461.5  | 448.4  | 445.8  |
| 30°   | 3777.8 | 1052.0 | 601.0  | 548.8  | 505.8  | 482.3  | 451.0  | 431.5  | 423.7  | 423.7  |
| 32.5° | 3454.5 | 840.8  | 585.3  | 514.9  | 469.3  | 443.2  | 418.5  | 410.6  | 408.0  | 406.7  |
| 35°   | 3150.8 | 730.0  | 577.5  | 487.5  | 436.7  | 411.9  | 401.5  | 402.8  | 408.0  | 408.0  |
| 37.5° | 2881.0 | 694.8  | 573.6  | 468.0  | 408.0  | 385.9  | 392.4  | 404.1  | 398.9  | 398.9  |
| 40°   | 2637.2 | 698.7  | 571.0  | 453.7  | 384.6  | 371.5  | 384.6  | 375.4  | 362.4  | 361.1  |
| 42.5° | 2450.8 | 731.3  | 565.8  | 441.9  | 370.2  | 361.1  | 355.9  | 341.5  | 340.2  | 342.8  |
| 45°   | 2315.2 | 760.0  | 564.5  | 436.7  | 354.6  | 337.6  | 331.1  | 316.8  | 342.8  | 349.4  |
| 47.5° | 2154.8 | 760.0  | 564.5  | 418.5  | 328.5  | 322.0  | 311.6  | 295.9  | 322.0  | 328.5  |
| 50°   | 1947.6 | 711.8  | 542.3  | 397.6  | 307.6  | 303.7  | 285.5  | 265.9  | 260.7  | 264.6  |
| 52.5° | 1685.6 | 624.4  | 486.2  | 368.9  | 286.8  | 279.0  | 256.8  | 242.5  | 238.6  | 238.6  |
| 55°   | 1387.0 | 522.7  | 410.6  | 327.2  | 264.6  | 250.3  | 234.6  | 228.1  | 224.2  | 221.6  |
| 57.5° | 1127.6 | 428.9  | 329.8  | 290.7  | 243.8  | 225.5  | 220.3  | 212.5  | 206.0  | 202.1  |
| 60°   | 925.6  | 337.6  | 272.5  | 258.1  | 222.9  | 206.0  | 204.7  | 194.2  | 177.3  | 174.7  |
| 62.5° | 714.4  | 247.7  | 229.4  | 224.2  | 202.1  | 187.7  | 185.1  | 164.3  | 138.2  | 133.0  |
| 65°   | 504.5  | 192.9  | 185.1  | 196.8  | 179.9  | 166.9  | 160.3  | 129.1  | 101.7  | 97.8   |
| 67.5° | 354.6  | 161.6  | 146.0  | 172.1  | 156.4  | 139.5  | 135.6  | 109.5  | 84.7   | 82.1   |
| 70°   | 252.9  | 131.7  | 119.9  | 147.3  | 125.1  | 122.5  | 114.7  | 91.3   | 69.1   | 66.5   |
| 72.5° | 178.6  | 100.4  | 92.6   | 127.8  | 86.0   | 105.6  | 93.9   | 70.4   | 52.1   | 49.5   |
| 75°   | 131.7  | 71.7   | 65.2   | 74.3   | 62.6   | 79.5   | 66.5   | 46.9   | 32.6   | 31.3   |
| 77.5° | 96.5   | 45.6   | 39.1   | 36.5   | 36.5   | 49.5   | 36.5   | 19.6   | 14.3   | 13.0   |
| 80°   | 67.8   | 20.9   | 18.3   | 15.6   | 14.3   | 11.7   | 5.2    | 2.6    | 1.3    | 1.3    |
| 82.5° | 40.4   | 9.1    | 9.1    | 6.5    | 3.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 9.1    | 3.9    | 3.9    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |

(END OF REPORT)