

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: P943815

Luminaire Tested: **GALN-SB8C-722-U-T2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P943815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-722-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 49568 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 399.8  
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



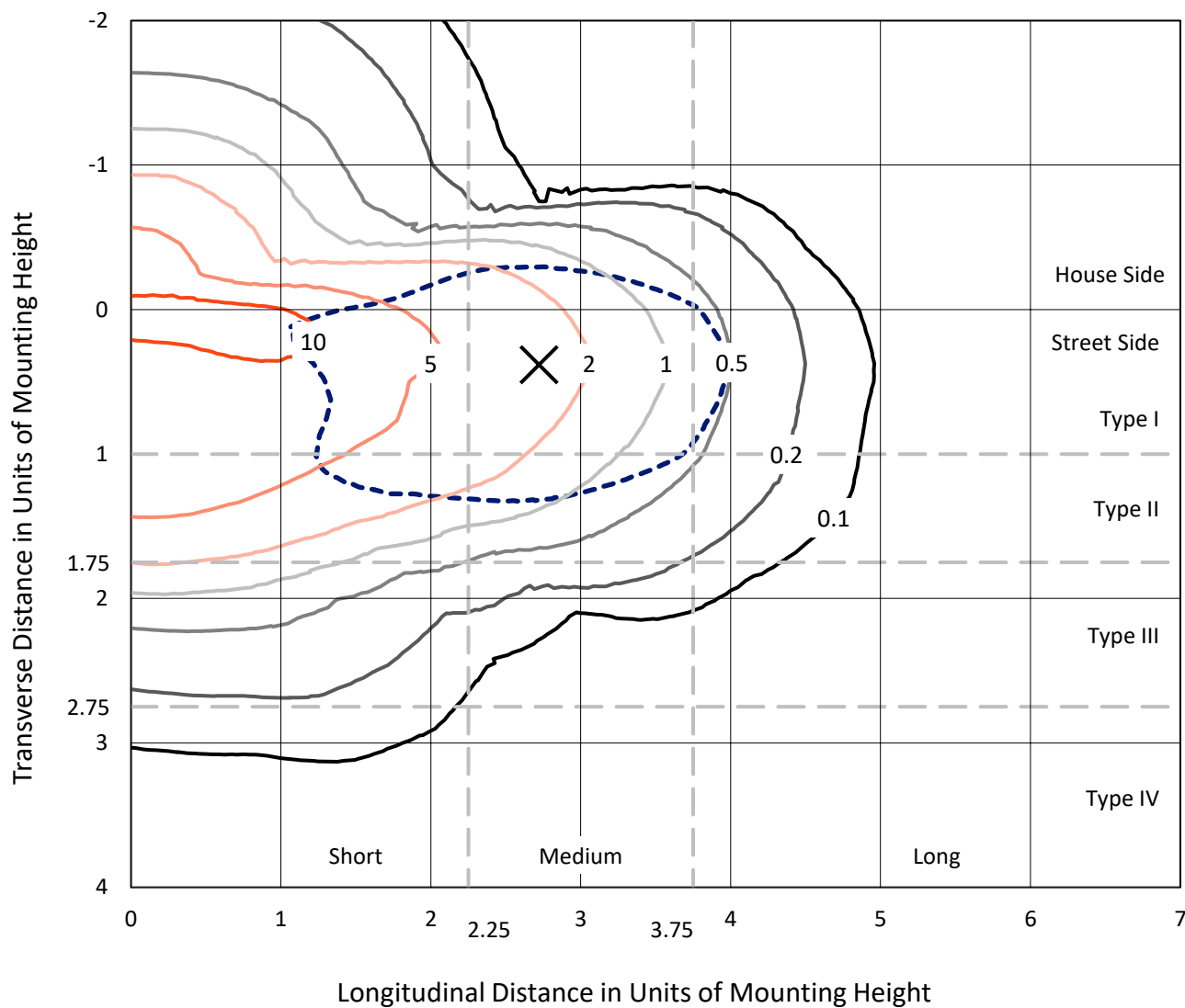
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

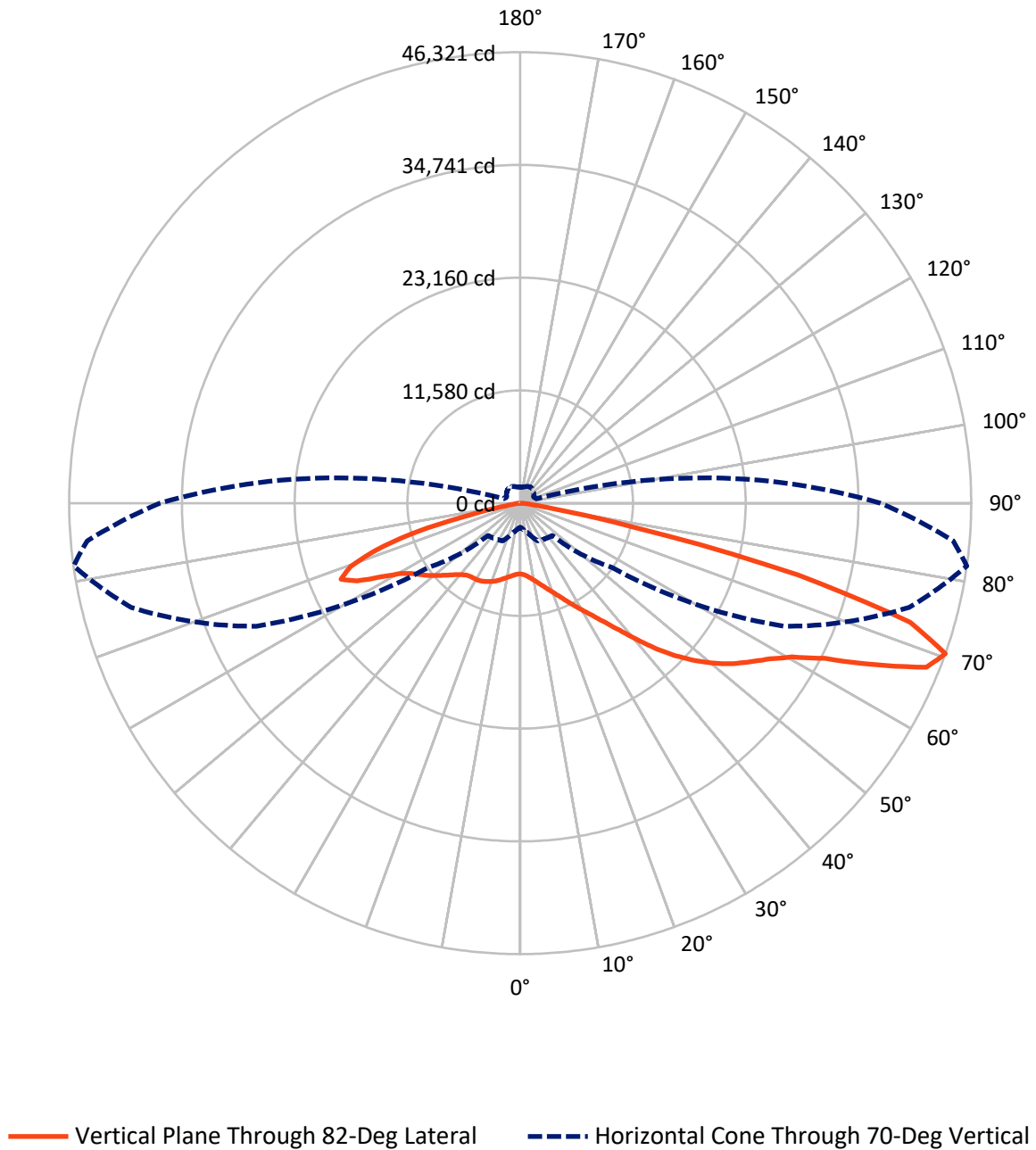


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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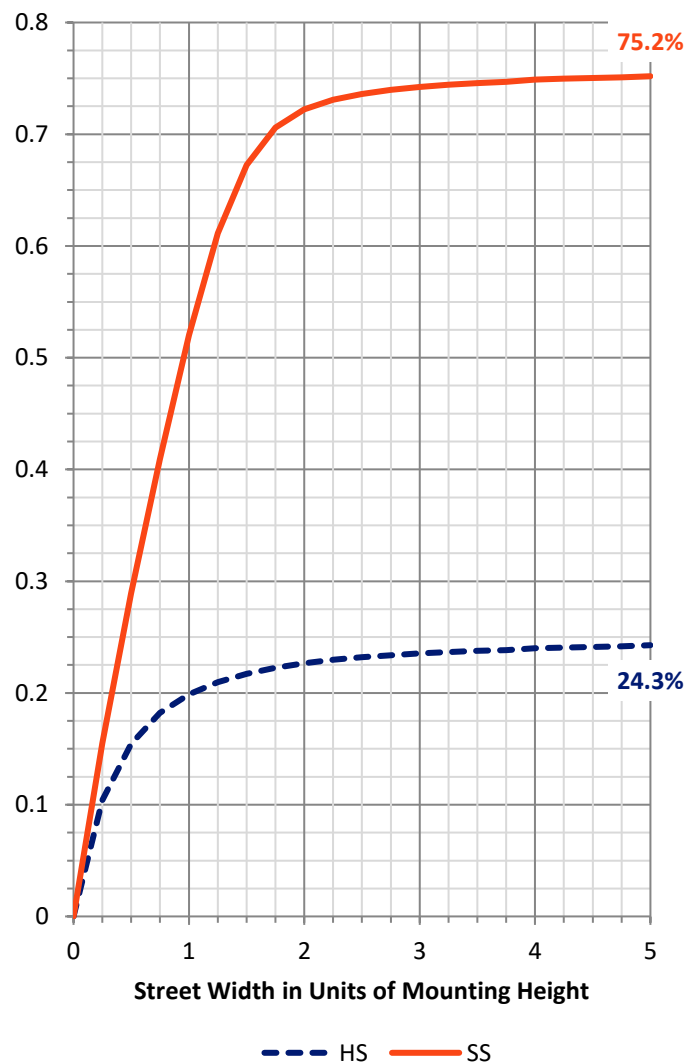
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12219.7  | 0.0    | 12219.7 |
|                    | % Fixture | 24.7     | 0.0    | 24.7    |
| <b>Street Side</b> | Lumens    | 37348.3  | 0.0    | 37348.3 |
|                    | % Fixture | 75.3     | 0.0    | 75.3    |
| <b>Total</b>       | Lumens    | 49568.0  | 0.0    | 49568.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 686.2   | 1.4       |
| 10°-20°   | 1971.4  | 4.0       |
| 20°-30°   | 3297.9  | 6.7       |
| 30°-40°   | 5152.2  | 10.4      |
| 40°-50°   | 8205.5  | 16.6      |
| 50°-60°   | 11418.9 | 23.0      |
| 60°-70°   | 11944.7 | 24.1      |
| 70°-80°   | 6243.0  | 12.6      |
| 80°-90°   | 648.3   | 1.3       |
| 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°    | 49568.0 | 100.0     |
| 0°-180°   | 49568.0 | 100.0     |

**Coefficient of Utilization**



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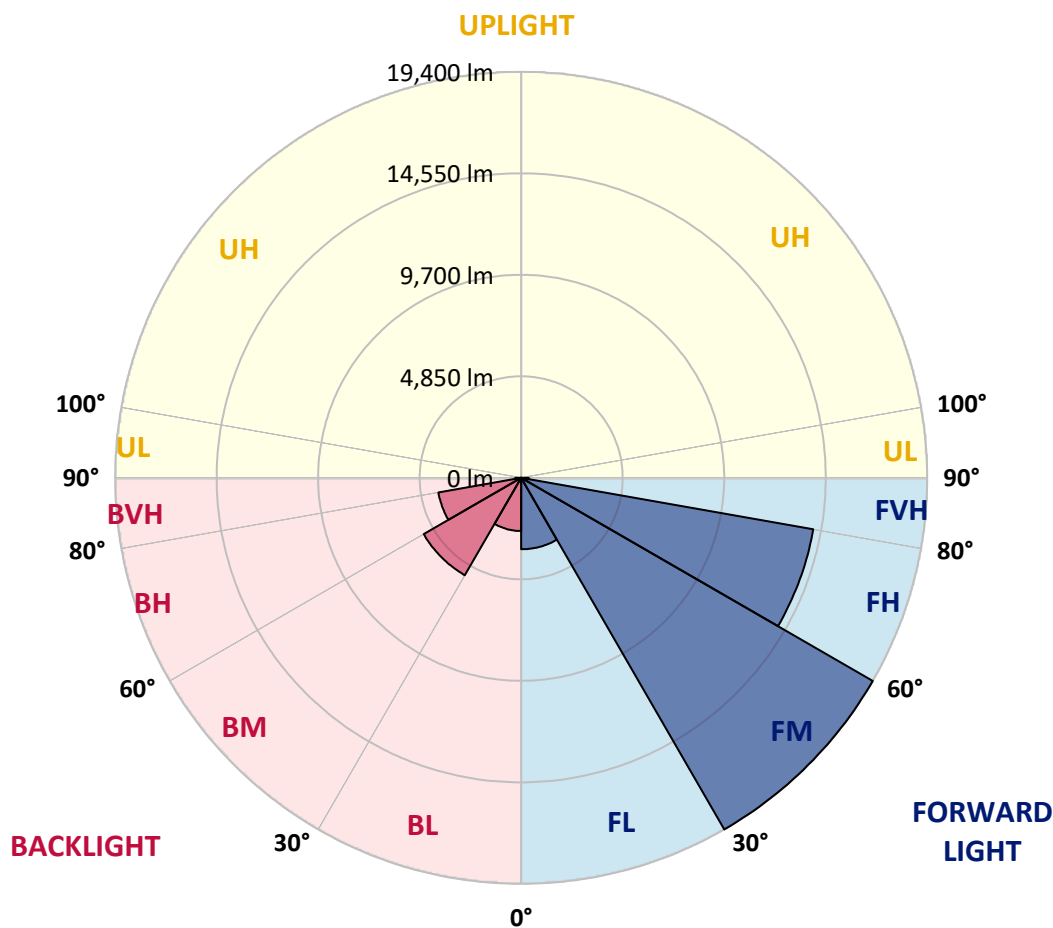
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3413.3  | 6.9       |                         |      |         |
| FM   | (30°-60°)   | 19400.4 | 39.1      |                         |      |         |
| FH   | (60°-80°)   | 14171.6 | 28.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 362.9   | 0.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2542.2  | 5.1       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5376.2  | 10.8      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4016.0  | 8.1       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 285.4   | 0.6       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 82°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7267.3  | 7267.3  | 7267.3  | 7267.3  | 7267.3  | 7267.3  | 7267.3  | 7267.3  | 7267.3  | 7267.3  | 7267.3  |
| 2.5°  | 7440.9  | 7483.0  | 7469.8  | 7456.7  | 7456.7  | 7438.3  | 7435.6  | 7409.3  | 7388.3  | 7354.1  | 7346.2  |
| 5°    | 7535.6  | 7580.3  | 7575.0  | 7585.5  | 7619.7  | 7627.6  | 7635.5  | 7619.7  | 7577.7  | 7535.6  | 7517.2  |
| 7.5°  | 7451.4  | 7501.4  | 7517.2  | 7580.3  | 7685.5  | 7780.2  | 7851.2  | 7880.1  | 7840.7  | 7780.2  | 7751.2  |
| 10°   | 7167.3  | 7222.6  | 7277.8  | 7427.7  | 7614.5  | 7838.0  | 8027.4  | 8140.5  | 8132.6  | 8074.8  | 8024.8  |
| 12.5° | 6591.3  | 6649.2  | 6767.5  | 7059.5  | 7401.4  | 7796.0  | 8148.4  | 8385.1  | 8466.7  | 8424.6  | 8337.8  |
| 15°   | 6131.0  | 6181.0  | 6270.4  | 6570.3  | 7014.8  | 7614.5  | 8193.1  | 8653.4  | 8861.2  | 8837.5  | 8732.3  |
| 17.5° | 6117.9  | 6138.9  | 6194.2  | 6336.2  | 6678.1  | 7330.4  | 8145.8  | 8916.4  | 9313.6  | 9311.0  | 9179.5  |
| 20°   | 6349.3  | 6357.2  | 6388.8  | 6417.7  | 6612.4  | 7114.7  | 8024.8  | 9134.7  | 9821.2  | 9821.2  | 9679.2  |
| 22.5° | 6670.2  | 6665.0  | 6696.5  | 6670.2  | 6764.9  | 7096.3  | 7948.5  | 9326.7  | 10386.7 | 10428.8 | 10250.0 |
| 25°   | 7151.6  | 7125.3  | 7117.4  | 7056.9  | 7075.3  | 7267.3  | 8032.7  | 9545.1  | 11057.4 | 11144.2 | 10920.7 |
| 27.5° | 7793.3  | 7751.2  | 7722.3  | 7582.9  | 7535.6  | 7619.7  | 8290.4  | 9808.1  | 11804.4 | 11954.3 | 11670.3 |
| 30°   | 8629.7  | 8553.5  | 8511.4  | 8269.4  | 8098.4  | 8111.6  | 8679.7  | 10157.9 | 12585.6 | 12827.6 | 12467.2 |
| 32.5° | 9771.3  | 9652.9  | 9539.8  | 9142.6  | 8829.6  | 8727.1  | 9182.1  | 10641.9 | 13432.5 | 13819.2 | 13356.2 |
| 35°   | 11049.5 | 10954.9 | 10833.9 | 10221.0 | 9739.7  | 9503.0  | 9860.7  | 11317.8 | 14424.1 | 15036.9 | 14434.6 |
| 37.5° | 12280.5 | 12198.9 | 12256.8 | 11430.9 | 10810.2 | 10465.6 | 10749.7 | 12225.2 | 15647.2 | 16552.0 | 15786.6 |
| 40°   | 13553.5 | 13490.4 | 13498.3 | 12709.2 | 11985.9 | 11599.3 | 11828.1 | 13364.1 | 17049.1 | 18353.7 | 17412.0 |
| 42.5° | 14937.0 | 14889.7 | 14731.8 | 14032.2 | 13219.5 | 12859.1 | 13069.5 | 14679.2 | 18553.5 | 20405.2 | 19195.3 |
| 45°   | 16486.2 | 16457.3 | 16310.0 | 15507.8 | 14576.7 | 14171.6 | 14455.7 | 16131.1 | 20065.9 | 22335.8 | 20986.5 |
| 47.5° | 17825.0 | 17848.7 | 17830.2 | 17154.3 | 16189.0 | 15594.6 | 15933.9 | 17646.1 | 21473.1 | 24150.6 | 22704.0 |
| 50°   | 18469.4 | 18593.0 | 18774.5 | 18564.1 | 17964.4 | 17359.4 | 17425.2 | 19108.5 | 22814.5 | 25852.4 | 24350.5 |
| 52.5° | 18132.7 | 18366.8 | 18861.3 | 19198.0 | 19429.4 | 19303.2 | 19126.9 | 20560.4 | 24077.0 | 27388.4 | 25907.6 |
| 55°   | 16878.1 | 17206.9 | 18027.5 | 18840.2 | 20021.2 | 20939.2 | 21170.6 | 22170.1 | 25307.9 | 28740.4 | 27380.6 |
| 57.5° | 14592.4 | 15126.4 | 15862.8 | 17506.7 | 19495.2 | 21730.9 | 23553.6 | 24403.2 | 26612.5 | 30184.4 | 28921.9 |
| 60°   | 10673.4 | 11388.8 | 12304.2 | 14750.3 | 17654.0 | 21307.4 | 25581.5 | 27833.0 | 28466.8 | 32054.5 | 30928.7 |
| 62.5° | 6830.7  | 7272.5  | 8114.2  | 10418.3 | 13756.0 | 19137.5 | 26202.2 | 32120.2 | 31609.9 | 35121.3 | 33937.7 |
| 65°   | 4676.5  | 4960.6  | 5731.2  | 7025.3  | 8892.8  | 14245.3 | 24539.9 | 35334.3 | 36602.1 | 39981.9 | 39082.4 |
| 67.5° | 3398.2  | 3613.9  | 4271.5  | 5405.1  | 5794.4  | 8429.8  | 19042.8 | 35187.0 | 41454.8 | 44989.9 | 43590.6 |
| 70°   | 2477.7  | 2630.2  | 3182.6  | 4271.5  | 4458.2  | 4689.7  | 11536.1 | 29910.8 | 41349.6 | 46320.7 | 44645.3 |
| 72.5° | 1835.9  | 1941.1  | 2312.0  | 3314.1  | 3608.7  | 3166.8  | 5710.2  | 21738.7 | 35531.6 | 41896.7 | 40552.7 |
| 75°   | 1328.3  | 1407.2  | 1680.7  | 2535.5  | 2888.0  | 2411.9  | 2848.5  | 12703.9 | 24784.5 | 29471.6 | 29708.3 |
| 77.5° | 1015.3  | 1075.8  | 1254.6  | 1856.9  | 2312.0  | 1809.6  | 1767.5  | 5844.3  | 11751.8 | 11809.7 | 12472.5 |
| 80°   | 815.4   | 854.8   | 952.1   | 1307.2  | 1772.8  | 1354.6  | 1152.0  | 2359.3  | 3713.9  | 3143.1  | 3298.3  |
| 82.5° | 599.7   | 665.4   | 804.8   | 917.9   | 1267.8  | 933.7   | 702.3   | 1191.5  | 1412.4  | 1215.2  | 1225.7  |
| 85°   | 341.9   | 386.6   | 486.6   | 657.6   | 810.1   | 570.8   | 402.4   | 528.7   | 657.6   | 539.2   | 481.3   |
| 87.5° | 121.0   | 157.8   | 171.0   | 257.8   | 352.4   | 236.7   | 155.2   | 152.6   | 215.7   | 160.4   | 134.1   |
| 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°    | 7267.3  | 7267.3  | 7267.3 | 7267.3 | 7267.3 | 7267.3 | 7267.3 | 7267.3 | 7267.3 | 7267.3 | 7267.3 |
| 2.5°  | 7319.9  | 7306.7  | 7254.1 | 7183.1 | 7109.5 | 7038.5 | 7014.8 | 6964.8 | 6930.6 | 6912.2 | 6933.3 |
| 5°    | 7467.2  | 7425.1  | 7301.5 | 7143.7 | 6978.0 | 6799.1 | 6672.9 | 6557.1 | 6473.0 | 6394.1 | 6425.6 |
| 7.5°  | 7677.6  | 7604.0  | 7390.9 | 7114.7 | 6820.2 | 6522.9 | 6302.0 | 6133.7 | 6020.6 | 5946.9 | 5962.7 |
| 10°   | 7922.2  | 7809.1  | 7483.0 | 7070.0 | 6615.0 | 6188.9 | 5928.5 | 5783.8 | 5712.8 | 5673.4 | 5683.9 |
| 12.5° | 8203.6  | 8043.2  | 7577.7 | 6967.4 | 6302.0 | 5815.4 | 5636.6 | 5594.5 | 5597.1 | 5599.7 | 5605.0 |
| 15°   | 8550.8  | 8327.3  | 7653.9 | 6743.9 | 5894.3 | 5528.7 | 5497.2 | 5565.5 | 5636.6 | 5670.7 | 5668.1 |
| 17.5° | 8942.7  | 8627.1  | 7667.1 | 6375.6 | 5494.5 | 5344.6 | 5444.5 | 5591.8 | 5699.7 | 5747.0 | 5757.5 |
| 20°   | 9363.6  | 8932.2  | 7572.4 | 5854.9 | 5165.7 | 5194.7 | 5373.5 | 5562.9 | 5681.3 | 5741.8 | 5757.5 |
| 22.5° | 9844.9  | 9258.4  | 7346.2 | 5307.8 | 4897.5 | 5031.6 | 5242.0 | 5426.1 | 5549.8 | 5610.3 | 5626.0 |
| 25°   | 10394.6 | 9624.0  | 6991.1 | 4847.5 | 4666.0 | 4847.5 | 5057.9 | 5210.5 | 5310.4 | 5365.6 | 5381.4 |
| 27.5° | 11004.8 | 10005.3 | 6517.7 | 4481.9 | 4463.5 | 4658.1 | 4831.7 | 4950.1 | 5002.7 | 5044.8 | 5060.5 |
| 30°   | 11617.7 | 10352.5 | 5944.3 | 4205.7 | 4287.3 | 4471.4 | 4595.0 | 4647.6 | 4663.4 | 4671.3 | 4689.7 |
| 32.5° | 12280.5 | 10652.4 | 5342.0 | 3976.9 | 4118.9 | 4289.9 | 4363.5 | 4387.2 | 4313.6 | 4263.6 | 4279.4 |
| 35°   | 13082.7 | 10973.3 | 4752.8 | 3795.4 | 3953.2 | 4100.5 | 4124.2 | 4103.1 | 4016.3 | 3913.8 | 3919.0 |
| 37.5° | 14074.3 | 11373.1 | 4282.0 | 3666.5 | 3798.0 | 3895.4 | 3866.4 | 3861.2 | 3869.0 | 3748.1 | 3755.9 |
| 40°   | 15289.4 | 11893.8 | 3937.4 | 3566.6 | 3671.8 | 3692.8 | 3611.3 | 3656.0 | 3695.5 | 3511.3 | 3516.6 |
| 42.5° | 16638.8 | 12522.5 | 3719.1 | 3498.2 | 3566.6 | 3516.6 | 3390.3 | 3440.3 | 3435.1 | 3193.1 | 3190.5 |
| 45°   | 18014.4 | 13206.3 | 3642.9 | 3448.2 | 3469.3 | 3369.3 | 3229.9 | 3243.1 | 3132.6 | 2914.3 | 2922.2 |
| 47.5° | 19382.1 | 13940.1 | 3690.2 | 3406.1 | 3348.3 | 3235.2 | 3127.3 | 3069.5 | 2906.4 | 2743.3 | 2743.3 |
| 50°   | 20723.5 | 14710.8 | 3863.8 | 3322.0 | 3182.6 | 3116.8 | 3037.9 | 2935.3 | 2761.7 | 2622.3 | 2611.8 |
| 52.5° | 21967.6 | 15486.7 | 4058.4 | 3182.6 | 2974.8 | 3014.2 | 2964.3 | 2845.9 | 2674.9 | 2532.9 | 2535.5 |
| 55°   | 23145.9 | 16262.6 | 4134.7 | 2990.6 | 2780.1 | 2924.8 | 2895.9 | 2677.6 | 2472.4 | 2356.7 | 2346.2 |
| 57.5° | 24429.5 | 17196.4 | 4050.5 | 2745.9 | 2622.3 | 2822.2 | 2711.8 | 2469.8 | 2351.4 | 2264.6 | 2256.7 |
| 60°   | 26207.5 | 18661.4 | 3869.0 | 2443.5 | 2472.4 | 2669.7 | 2480.3 | 2380.3 | 2251.5 | 2154.1 | 2148.9 |
| 62.5° | 29161.2 | 21394.2 | 3577.1 | 2143.6 | 2296.2 | 2443.5 | 2369.8 | 2269.9 | 2138.4 | 2043.7 | 2043.7 |
| 65°   | 33527.4 | 25192.2 | 3027.4 | 1909.5 | 2098.9 | 2222.5 | 2251.5 | 2151.5 | 2014.7 | 1914.8 | 1920.1 |
| 67.5° | 37209.7 | 27575.2 | 2290.9 | 1714.9 | 1896.4 | 2043.7 | 2125.2 | 2027.9 | 1883.2 | 1785.9 | 1788.5 |
| 70°   | 37007.1 | 25844.5 | 1749.1 | 1522.9 | 1717.5 | 1867.5 | 1972.7 | 1896.4 | 1741.2 | 1649.1 | 1657.0 |
| 72.5° | 32869.8 | 21620.4 | 1415.1 | 1328.3 | 1536.0 | 1683.3 | 1809.6 | 1751.7 | 1593.9 | 1504.5 | 1504.5 |
| 75°   | 24148.0 | 15347.3 | 1131.0 | 1131.0 | 1309.8 | 1491.3 | 1630.7 | 1593.9 | 1449.2 | 1386.1 | 1367.7 |
| 77.5° | 10178.9 | 6438.8  | 886.4  | 939.0  | 1088.9 | 1280.9 | 1454.5 | 1467.7 | 1341.4 | 1420.3 | 1288.8 |
| 80°   | 2706.5  | 1775.4  | 676.0  | 739.1  | 854.8  | 1057.3 | 1265.1 | 1259.9 | 1123.1 | 1049.5 | 975.8  |
| 82.5° | 1031.0  | 699.6   | 481.3  | 520.8  | 618.1  | 810.1  | 1002.1 | 1033.7 | 896.9  | 775.9  | 775.9  |
| 85°   | 397.2   | 299.8   | 297.2  | 313.0  | 360.3  | 536.6  | 757.5  | 783.8  | 676.0  | 573.4  | 591.8  |
| 87.5° | 102.6   | 89.4    | 110.5  | 105.2  | 165.7  | 286.7  | 434.0  | 449.8  | 412.9  | 239.3  | 341.9  |
| 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)