

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: P957332

Luminaire Tested: **GALN-SB9D-722-U-SL3-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-722-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 61660 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
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



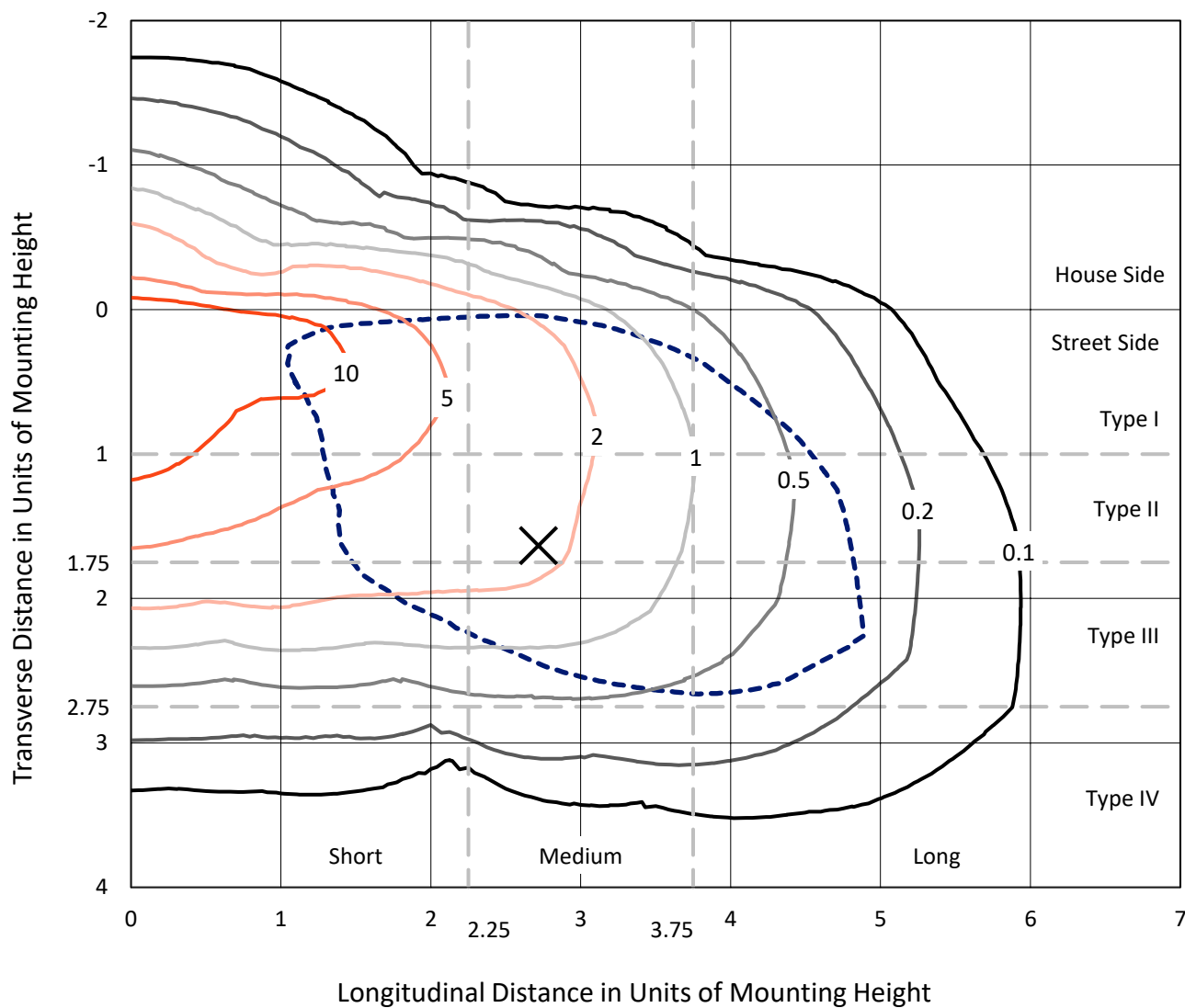
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## Iso-Footcandle Lines of Horizontal Illumination

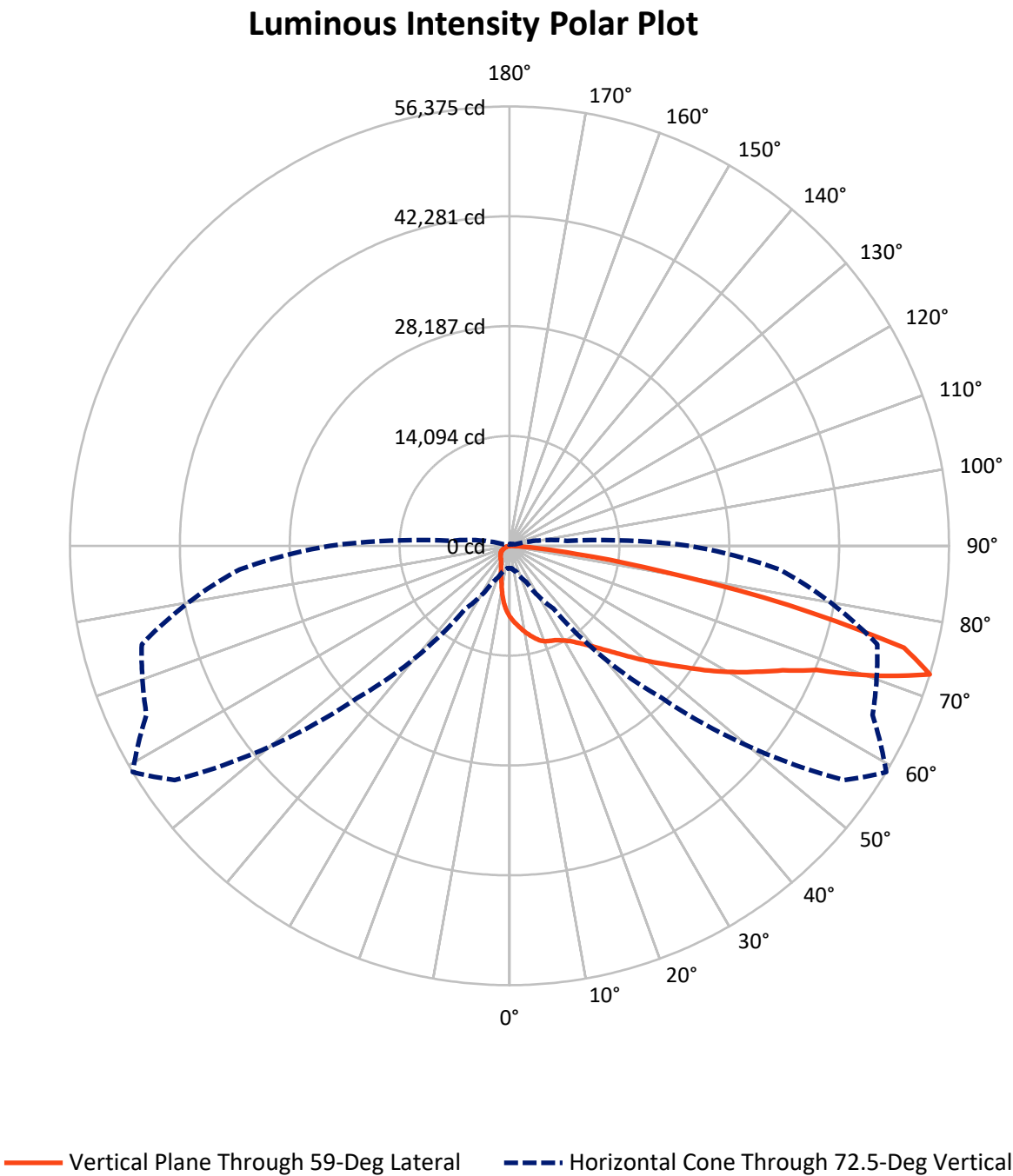
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
Type III - Medium - N/A

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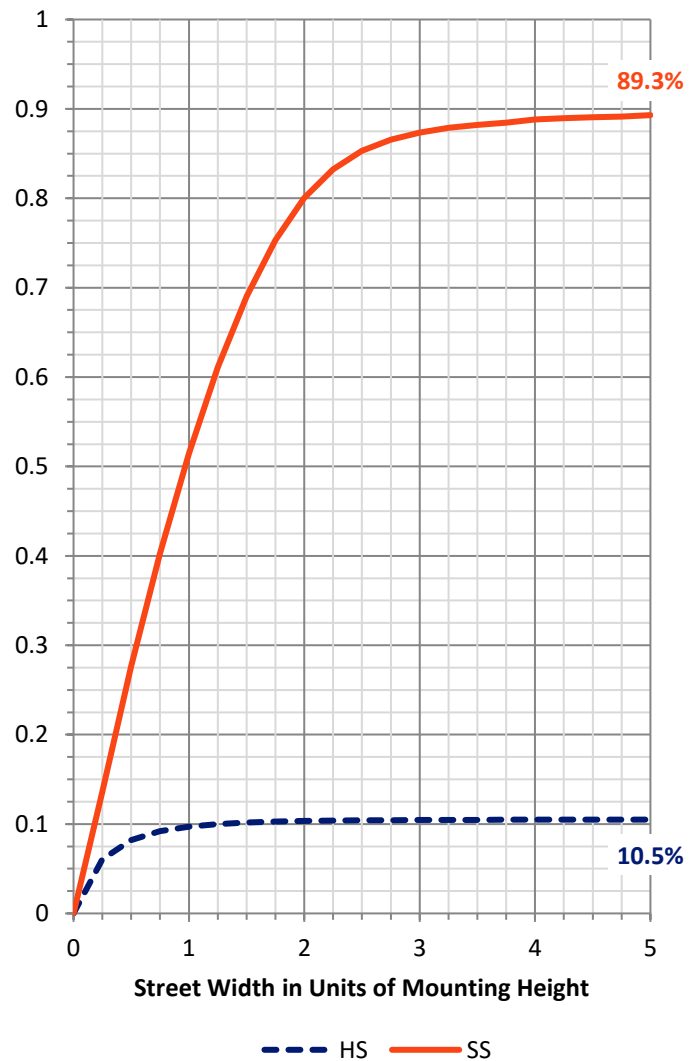
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6512.6   | 0.0    | 6512.6  |
|                    | % Fixture | 10.6     | 0.0    | 10.6    |
| <b>Street Side</b> | Lumens    | 55147.4  | 0.0    | 55147.4 |
|                    | % Fixture | 89.4     | 0.0    | 89.4    |
| <b>Total</b>       | Lumens    | 61660.0  | 0.0    | 61660.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 824.9   | 1.3       |
| 10°-20°   | 2191.2  | 3.6       |
| 20°-30°   | 3472.7  | 5.6       |
| 30°-40°   | 5573.0  | 9.0       |
| 40°-50°   | 8901.2  | 14.4      |
| 50°-60°   | 12887.7 | 20.9      |
| 60°-70°   | 15294.5 | 24.8      |
| 70°-80°   | 11354.0 | 18.4      |
| 80°-90°   | 1160.8  | 1.9       |
| 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°    | 61660.0 | 100.0     |
| 0°-180°   | 61660.0 | 100.0     |

**Coefficient of Utilization**



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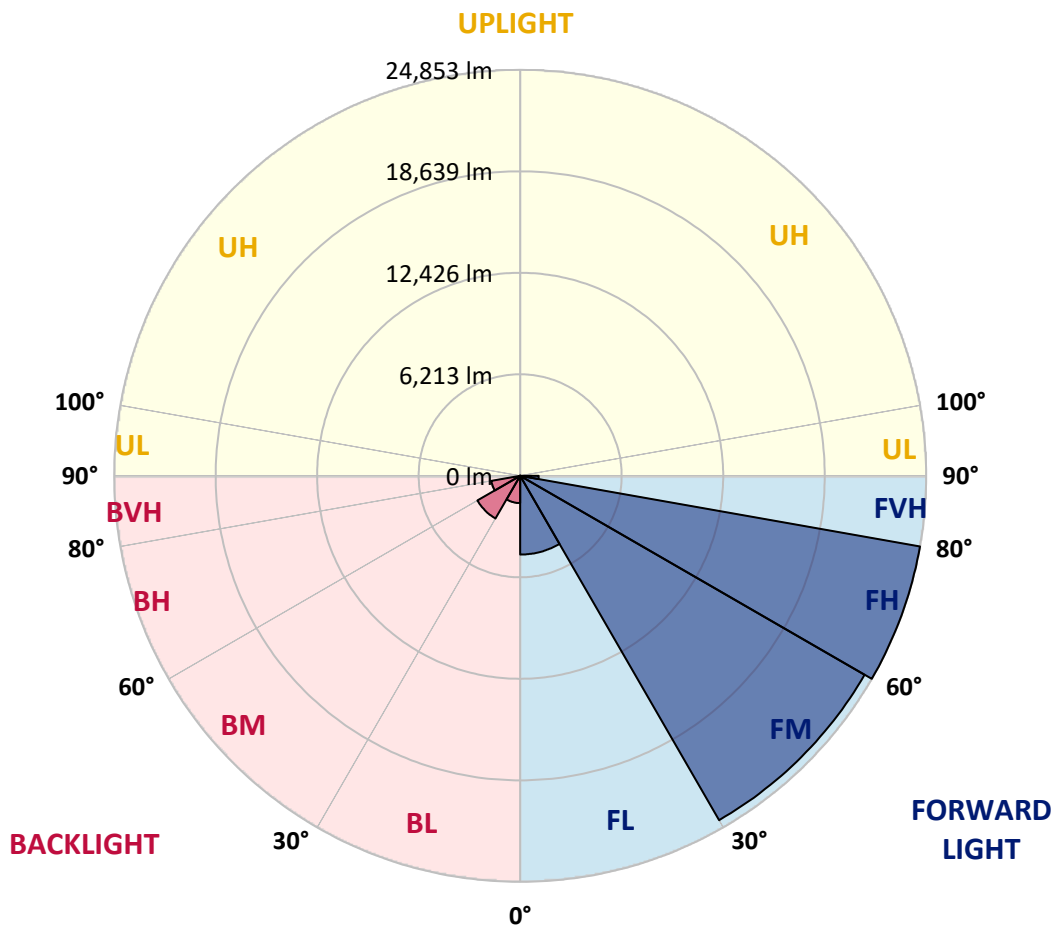
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4820.4  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 24342.5 | 39.5      |                         |      |         |
| FH   | (60°-80°)   | 24852.5 | 40.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 1132.0  | 1.8       |                         |      | G5      |
| BL   | (0°-30°)    | 1668.3  | 2.7       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3019.4  | 4.9       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1796.0  | 2.9       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 28.9    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 59°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9118.0  | 9118.0  | 9118.0  | 9118.0  | 9118.0  | 9118.0  | 9118.0  | 9118.0  | 9118.0  | 9118.0  | 9118.0  |
| 2.5°  | 10116.4 | 10060.0 | 10068.1 | 9971.5  | 9903.0  | 9830.6  | 9689.7  | 9669.6  | 9568.9  | 9391.8  | 9210.6  |
| 5°    | 10998.0 | 10961.8 | 10929.6 | 10820.9 | 10680.0 | 10502.9 | 10265.3 | 10180.8 | 9995.6  | 9689.7  | 9335.4  |
| 7.5°  | 11642.1 | 11597.8 | 11613.9 | 11505.2 | 11392.5 | 11195.3 | 10869.2 | 10712.2 | 10466.6 | 9999.7  | 9464.2  |
| 10°   | 11766.9 | 11742.8 | 11847.4 | 11887.7 | 11887.7 | 11762.9 | 11444.9 | 11287.9 | 10929.6 | 10333.8 | 9597.1  |
| 12.5° | 11066.4 | 11070.5 | 11332.1 | 11646.1 | 12056.8 | 12173.5 | 11960.1 | 11791.1 | 11436.8 | 10688.0 | 9766.2  |
| 15°   | 10249.2 | 10253.3 | 10506.9 | 10909.4 | 11581.7 | 12254.0 | 12423.1 | 12314.4 | 11948.1 | 11070.5 | 9963.4  |
| 17.5° | 9758.1  | 9738.0  | 9907.1  | 10237.2 | 10941.7 | 11887.7 | 12704.9 | 12777.3 | 12479.4 | 11493.2 | 10180.8 |
| 20°   | 9689.7  | 9653.5  | 9742.0  | 9907.1  | 10410.3 | 11428.8 | 12737.1 | 13079.3 | 13026.9 | 11972.2 | 10430.4 |
| 22.5° | 10108.3 | 10052.0 | 10003.7 | 10011.7 | 10225.1 | 11046.3 | 12656.6 | 13248.3 | 13590.5 | 12547.9 | 10772.6 |
| 25°   | 10937.6 | 10849.1 | 10692.1 | 10490.8 | 10446.5 | 10965.8 | 12600.2 | 13433.5 | 14113.8 | 13284.6 | 11223.4 |
| 27.5° | 11952.1 | 11827.3 | 11525.4 | 11223.4 | 10965.8 | 11191.2 | 12717.0 | 13727.4 | 14705.6 | 14142.0 | 11746.8 |
| 30°   | 13067.2 | 12914.2 | 12612.3 | 12040.7 | 11630.0 | 11694.4 | 12994.7 | 14113.8 | 15462.4 | 15112.2 | 12403.0 |
| 32.5° | 14705.6 | 14351.4 | 13824.0 | 12950.4 | 12407.0 | 12237.9 | 13413.4 | 14605.0 | 16400.4 | 16404.4 | 13353.0 |
| 35°   | 16110.6 | 15913.3 | 15381.9 | 14295.0 | 13179.9 | 12958.5 | 13964.9 | 15297.4 | 17700.7 | 18115.3 | 14681.5 |
| 37.5° | 17032.4 | 16762.7 | 16295.7 | 15478.5 | 14379.5 | 13699.2 | 14701.6 | 16146.8 | 19077.4 | 20063.7 | 16319.9 |
| 40°   | 18063.0 | 17797.3 | 17177.4 | 16408.5 | 15772.4 | 14971.3 | 15631.5 | 17125.0 | 20587.1 | 22064.5 | 18191.8 |
| 42.5° | 19306.9 | 18960.7 | 18228.0 | 17398.8 | 16734.5 | 16646.0 | 16847.2 | 18344.8 | 22136.9 | 24238.3 | 20140.2 |
| 45°   | 20768.2 | 20442.1 | 19600.8 | 18554.1 | 17970.4 | 17813.4 | 18377.0 | 19765.8 | 23863.9 | 26621.5 | 22108.7 |
| 47.5° | 22136.9 | 21758.5 | 20852.7 | 19898.7 | 19250.5 | 18755.4 | 20003.3 | 21444.5 | 25820.4 | 29113.3 | 23968.6 |
| 50°   | 23300.3 | 22913.9 | 22084.6 | 21066.1 | 20627.3 | 19979.2 | 21601.5 | 23316.4 | 27760.7 | 31645.5 | 25667.4 |
| 52.5° | 24097.4 | 23755.2 | 22781.0 | 22088.6 | 21790.7 | 21464.6 | 23473.4 | 25301.1 | 29693.0 | 33964.2 | 27346.1 |
| 55°   | 23916.3 | 23610.3 | 22752.8 | 22704.5 | 22684.4 | 23026.6 | 25711.7 | 27551.4 | 31661.6 | 36158.2 | 29016.7 |
| 57.5° | 23340.6 | 22994.4 | 21923.6 | 22660.3 | 23372.8 | 24419.5 | 28135.1 | 30212.3 | 33819.3 | 38227.4 | 30627.0 |
| 60°   | 21645.8 | 21525.0 | 20872.9 | 22575.7 | 23662.6 | 25784.1 | 30904.7 | 32885.3 | 36154.2 | 40046.9 | 32056.1 |
| 62.5° | 18059.0 | 18163.6 | 18159.6 | 22752.8 | 24186.0 | 27338.0 | 33420.8 | 35590.6 | 38436.7 | 41798.1 | 33328.2 |
| 65°   | 13522.1 | 13884.4 | 14347.3 | 21158.7 | 24886.4 | 30111.7 | 36427.9 | 38525.3 | 40755.4 | 43835.1 | 34620.4 |
| 67.5° | 9085.8  | 9375.7  | 9689.7  | 17358.5 | 22801.2 | 33026.2 | 41423.7 | 42546.9 | 43533.1 | 46093.4 | 36073.6 |
| 70°   | 5201.1  | 5293.7  | 5732.5  | 10841.0 | 17575.9 | 32221.1 | 49559.5 | 49966.1 | 47675.5 | 48875.1 | 37132.4 |
| 72.5° | 2914.6  | 2882.3  | 3462.0  | 5144.8  | 9822.5  | 27591.6 | 52409.6 | 56374.9 | 51383.1 | 48830.9 | 34769.3 |
| 75°   | 1948.4  | 1952.4  | 2383.2  | 3244.7  | 3828.4  | 19315.0 | 45163.5 | 52272.8 | 49161.0 | 43299.6 | 28408.9 |
| 77.5° | 1328.5  | 1372.7  | 1751.1  | 2508.0  | 1771.3  | 9424.0  | 29878.2 | 36617.1 | 39801.4 | 33436.9 | 19612.9 |
| 80°   | 575.7   | 579.7   | 1155.4  | 1799.5  | 1195.6  | 2999.1  | 15490.6 | 19616.9 | 24962.9 | 18775.5 | 7769.5  |
| 82.5° | 297.9   | 338.2   | 736.7   | 1163.4  | 752.8   | 1050.7  | 7318.6  | 8570.6  | 10474.7 | 5511.1  | 1594.1  |
| 85°   | 104.7   | 124.8   | 454.9   | 571.6   | 378.4   | 374.4   | 2548.2  | 2596.5  | 2218.1  | 829.3   | 438.8   |
| 87.5° | 0.0     | 20.1    | 177.1   | 140.9   | 48.3    | 44.3    | 301.9   | 253.6   | 201.3   | 116.7   | 144.9   |
| 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°    | 9118.0  | 9118.0  | 9118.0 | 9118.0 | 9118.0 | 9118.0 | 9118.0 | 9118.0 | 9118.0 | 9118.0 | 9118.0 |
| 2.5°  | 9126.1  | 9017.4  | 8840.3 | 8622.9 | 8369.3 | 8232.4 | 8035.2 | 7914.4 | 7805.7 | 7809.7 | 7898.3 |
| 5°    | 9138.2  | 8957.0  | 8506.1 | 8027.1 | 7495.7 | 7105.2 | 6670.5 | 6364.5 | 6131.0 | 6074.7 | 6159.2 |
| 7.5°  | 9174.4  | 8868.5  | 8131.8 | 7334.7 | 6449.1 | 5792.9 | 5193.1 | 4814.6 | 4601.3 | 4544.9 | 4601.3 |
| 10°   | 9222.7  | 8771.8  | 7709.1 | 6489.3 | 5390.3 | 4601.3 | 4102.1 | 3860.6 | 3764.0 | 3691.5 | 3735.8 |
| 12.5° | 9263.0  | 8671.2  | 7177.7 | 5615.7 | 4448.3 | 3832.4 | 3454.0 | 3252.7 | 3168.2 | 3115.8 | 3144.0 |
| 15°   | 9331.4  | 8538.4  | 6602.0 | 4802.6 | 3812.3 | 3309.1 | 2950.8 | 2801.8 | 2777.7 | 2785.7 | 2797.8 |
| 17.5° | 9399.8  | 8409.5  | 5957.9 | 4166.5 | 3345.3 | 2850.1 | 2632.8 | 2608.6 | 2640.8 | 2673.0 | 2685.1 |
| 20°   | 9476.3  | 8224.4  | 5305.8 | 3687.5 | 2914.6 | 2532.1 | 2475.8 | 2491.9 | 2508.0 | 2564.3 | 2580.4 |
| 22.5° | 9589.0  | 7990.9  | 4734.1 | 3280.9 | 2556.3 | 2379.1 | 2351.0 | 2363.0 | 2375.1 | 2431.5 | 2447.6 |
| 25°   | 9750.1  | 7741.3  | 4271.2 | 2906.5 | 2330.8 | 2254.4 | 2226.2 | 2226.2 | 2242.3 | 2294.6 | 2314.7 |
| 27.5° | 9919.1  | 7387.0  | 3896.8 | 2560.3 | 2198.0 | 2117.5 | 2069.2 | 2069.2 | 2089.3 | 2149.7 | 2173.8 |
| 30°   | 10108.3 | 7065.0  | 3602.9 | 2302.7 | 2085.3 | 1980.6 | 1916.2 | 1900.1 | 1924.2 | 2000.7 | 2020.9 |
| 32.5° | 10450.5 | 6855.6  | 3393.6 | 2181.9 | 1984.6 | 1855.8 | 1767.3 | 1723.0 | 1747.1 | 1835.7 | 1859.8 |
| 35°   | 10969.8 | 6807.3  | 3248.7 | 2121.5 | 1888.0 | 1743.1 | 1618.3 | 1549.9 | 1570.0 | 1662.6 | 1690.8 |
| 37.5° | 11577.7 | 6908.0  | 3107.8 | 2041.0 | 1795.4 | 1634.4 | 1469.4 | 1380.8 | 1413.0 | 1497.5 | 1521.7 |
| 40°   | 12451.3 | 7326.6  | 2999.1 | 1980.6 | 1702.8 | 1505.6 | 1320.4 | 1231.8 | 1284.2 | 1356.6 | 1368.7 |
| 42.5° | 13506.0 | 8071.4  | 2970.9 | 1924.2 | 1590.1 | 1368.7 | 1183.5 | 1119.1 | 1159.4 | 1227.8 | 1239.9 |
| 45°   | 14814.3 | 9021.4  | 3099.7 | 1851.8 | 1465.3 | 1235.9 | 1074.8 | 1038.6 | 1050.7 | 1119.1 | 1151.3 |
| 47.5° | 16219.3 | 9995.6  | 3454.0 | 1787.4 | 1356.6 | 1127.2 | 990.3  | 958.1  | 950.0  | 1014.5 | 1054.7 |
| 50°   | 17640.3 | 10861.1 | 3872.7 | 1739.1 | 1280.1 | 1038.6 | 925.9  | 885.6  | 865.5  | 905.8  | 921.9  |
| 52.5° | 19045.2 | 11549.5 | 4146.4 | 1658.6 | 1203.7 | 950.0  | 869.5  | 809.2  | 772.9  | 793.0  | 809.2  |
| 55°   | 20470.3 | 12153.4 | 4162.5 | 1537.8 | 1131.2 | 893.7  | 813.2  | 744.7  | 700.5  | 700.5  | 708.5  |
| 57.5° | 21802.8 | 12684.8 | 3925.0 | 1376.8 | 1030.6 | 841.4  | 736.7  | 680.3  | 632.0  | 615.9  | 619.9  |
| 60°   | 22982.3 | 13079.3 | 3530.5 | 1195.6 | 942.0  | 772.9  | 660.2  | 615.9  | 555.5  | 523.3  | 515.3  |
| 62.5° | 24033.0 | 13272.5 | 2991.0 | 1010.4 | 833.3  | 692.4  | 587.7  | 539.4  | 458.9  | 418.7  | 414.6  |
| 65°   | 24922.7 | 13075.2 | 2427.5 | 837.3  | 740.7  | 603.8  | 503.2  | 454.9  | 366.3  | 318.0  | 318.0  |
| 67.5° | 25804.3 | 12173.5 | 1835.7 | 704.5  | 644.1  | 507.2  | 414.6  | 370.4  | 305.9  | 265.7  | 265.7  |
| 70°   | 25917.0 | 10277.4 | 1284.2 | 591.8  | 535.4  | 390.5  | 334.1  | 305.9  | 249.6  | 213.4  | 209.3  |
| 72.5° | 23070.9 | 7395.1  | 781.0  | 483.1  | 418.7  | 277.8  | 265.7  | 241.5  | 185.2  | 161.0  | 157.0  |
| 75°   | 18441.4 | 4532.9  | 458.9  | 362.3  | 277.8  | 197.3  | 197.3  | 173.1  | 124.8  | 104.7  | 104.7  |
| 77.5° | 12745.1 | 2371.1  | 269.7  | 233.5  | 165.1  | 116.7  | 128.8  | 104.7  | 60.4   | 48.3   | 48.3   |
| 80°   | 5104.5  | 901.7   | 144.9  | 108.7  | 76.5   | 52.3   | 44.3   | 24.2   | 12.1   | 8.1    | 12.1   |
| 82.5° | 1018.5  | 237.5   | 48.3   | 28.2   | 28.2   | 12.1   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 261.7   | 52.3    | 12.1   | 8.1    | 8.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 80.5    | 0.0     | 0.0    | 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    | 0.0    |

(END OF REPORT)