

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: P955917

Luminaire Tested: **GALN-SB8D-722-U-T4W**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P955917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-722-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 67842 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 584.9  
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

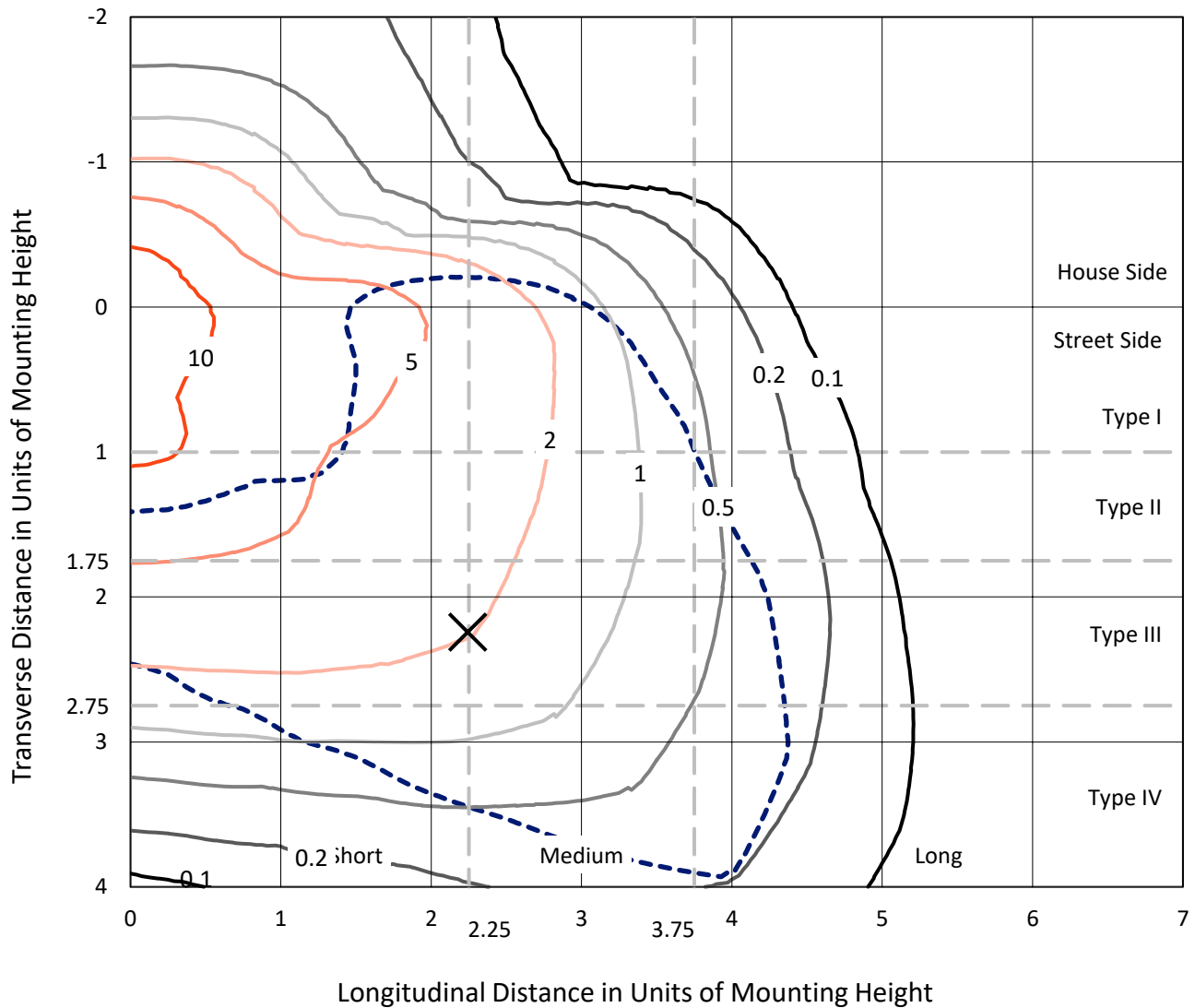


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

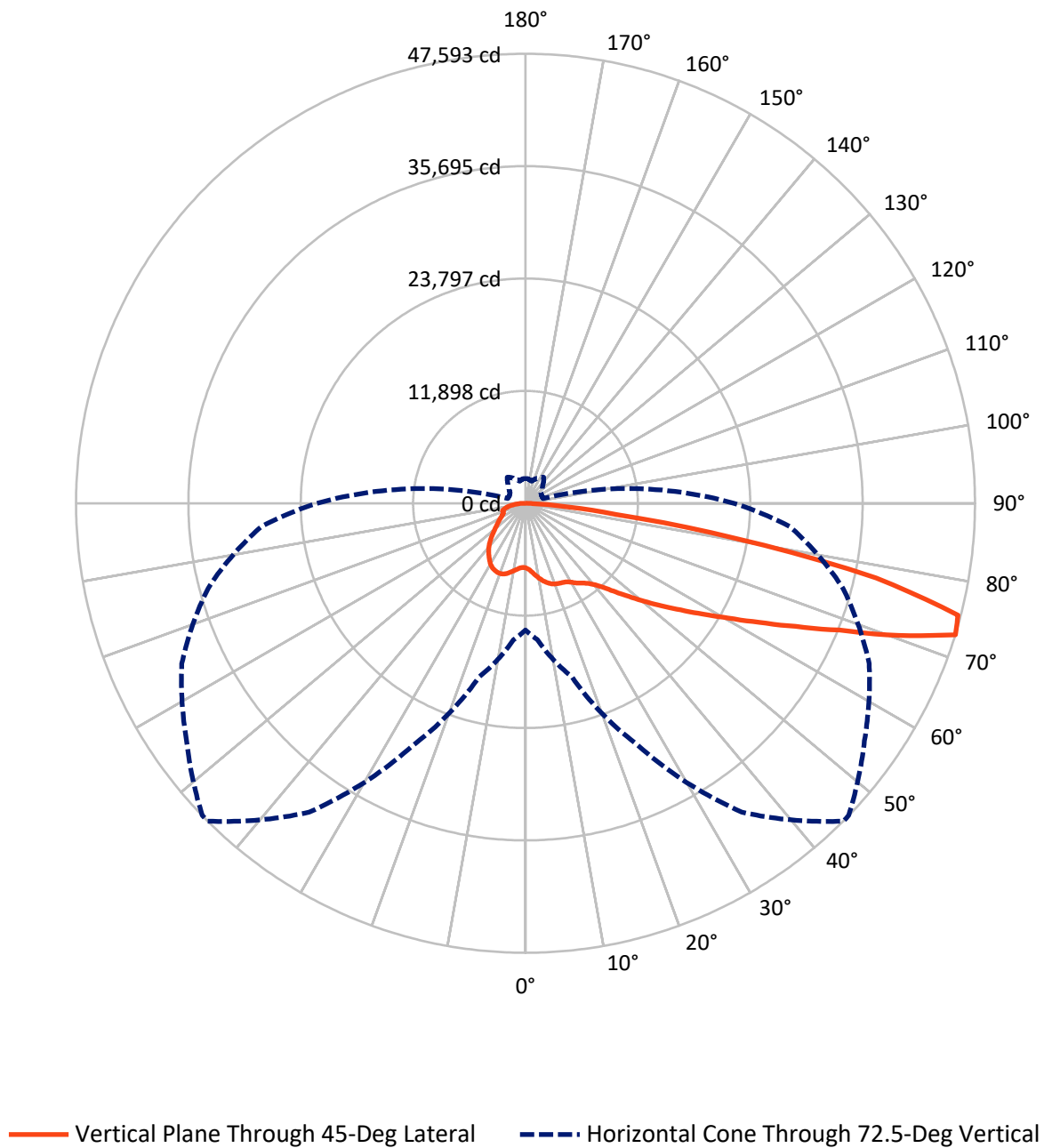


Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15336.7  | 0.0    | 15336.7 |
|                    | % Fixture | 22.6     | 0.0    | 22.6    |
| <b>Street Side</b> | Lumens    | 52505.3  | 0.0    | 52505.3 |
|                    | % Fixture | 77.4     | 0.0    | 77.4    |
| <b>Total</b>       | Lumens    | 67842.0  | 0.0    | 67842.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 696.6   | 1.0       |
| 10°-20°   | 2322.5  | 3.4       |
| 20°-30°   | 4040.1  | 6.0       |
| 30°-40°   | 5791.7  | 8.5       |
| 40°-50°   | 8155.0  | 12.0      |
| 50°-60°   | 12491.1 | 18.4      |
| 60°-70°   | 18095.2 | 26.7      |
| 70°-80°   | 14450.1 | 21.3      |
| 80°-90°   | 1799.7  | 2.7       |
| 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°    | 67842.0 | 100.0     |
| 0°-180°   | 67842.0 | 100.0     |

**Coefficient of Utilization**



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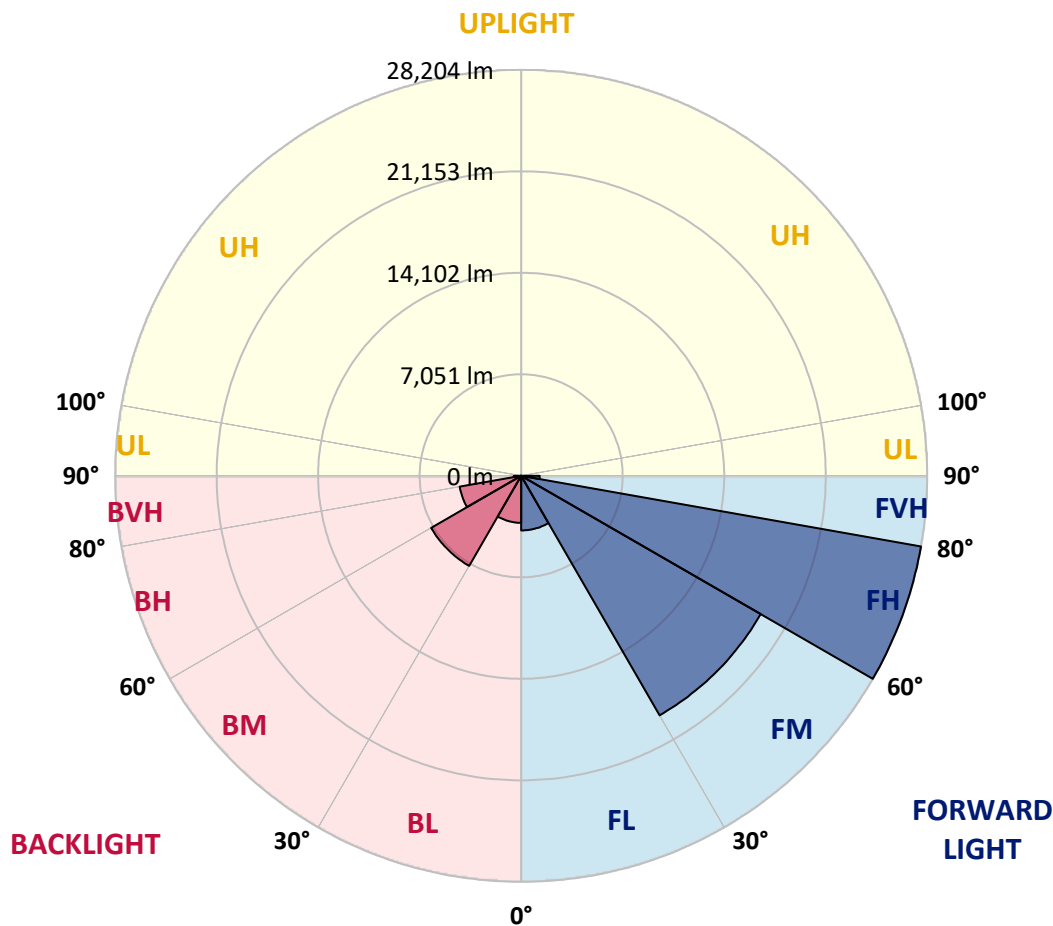
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3793.8  | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 19216.4 | 28.3      |                         |      |         |
| FH   | (60°-80°)   | 28203.9 | 41.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 1291.1  | 1.9       |                         |      | G5      |
| BL   | (0°-30°)    | 3265.3  | 4.8       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 7221.4  | 10.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4341.4  | 6.4       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 508.6   | 0.7       |                         |      | G4/750  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6843.9  | 6843.9  | 6843.9  | 6843.9  | 6843.9  | 6843.9  | 6843.9  | 6843.9  | 6843.9  | 6843.9  | 6843.9  |
| 2.5°  | 7112.0  | 7158.4  | 7115.6  | 7076.2  | 7058.4  | 7011.9  | 7008.3  | 6979.7  | 6961.9  | 6911.8  | 6897.5  |
| 5°    | 7608.7  | 7669.5  | 7598.0  | 7519.4  | 7447.9  | 7333.6  | 7319.3  | 7237.1  | 7144.1  | 7036.9  | 6976.2  |
| 7.5°  | 8169.8  | 8223.4  | 8141.2  | 8023.3  | 7898.2  | 7708.8  | 7705.2  | 7555.1  | 7408.6  | 7226.3  | 7122.7  |
| 10°   | 8659.5  | 8730.9  | 8620.1  | 8459.3  | 8302.1  | 8087.6  | 8062.6  | 7891.1  | 7705.2  | 7469.4  | 7312.1  |
| 12.5° | 9091.9  | 9141.9  | 9034.7  | 8838.1  | 8655.9  | 8441.5  | 8409.3  | 8219.9  | 8012.6  | 7744.5  | 7544.4  |
| 15°   | 9435.0  | 9499.3  | 9356.4  | 9145.5  | 8952.5  | 8741.7  | 8713.1  | 8541.5  | 8334.2  | 8051.9  | 7794.6  |
| 17.5° | 9660.1  | 9713.7  | 9567.2  | 9331.3  | 9145.5  | 8970.4  | 8948.9  | 8806.0  | 8623.7  | 8337.8  | 8062.6  |
| 20°   | 9745.9  | 9803.1  | 9649.4  | 9410.0  | 9238.4  | 9102.6  | 9091.9  | 8988.3  | 8863.2  | 8602.3  | 8323.5  |
| 22.5° | 9831.7  | 9885.3  | 9685.2  | 9435.0  | 9284.9  | 9199.1  | 9195.5  | 9127.6  | 9077.6  | 8863.2  | 8591.6  |
| 25°   | 10178.3 | 10192.6 | 9924.6  | 9563.6  | 9349.2  | 9274.2  | 9270.6  | 9267.0  | 9288.5  | 9120.5  | 8881.0  |
| 27.5° | 10478.6 | 10475.0 | 10246.2 | 9906.7  | 9574.4  | 9417.1  | 9413.5  | 9449.3  | 9517.2  | 9377.8  | 9181.2  |
| 30°   | 10918.1 | 10878.8 | 10607.2 | 10253.4 | 9949.6  | 9706.6  | 9685.2  | 9653.0  | 9706.6  | 9595.8  | 9481.4  |
| 32.5° | 11850.9 | 11725.8 | 11286.2 | 10657.2 | 10260.5 | 10074.7 | 10046.1 | 9846.0  | 9867.4  | 9799.5  | 9742.3  |
| 35°   | 13187.5 | 13023.1 | 12437.0 | 11422.0 | 10646.5 | 10382.1 | 10367.8 | 10114.0 | 10071.1 | 10010.4 | 10031.8 |
| 37.5° | 14777.9 | 14574.2 | 13891.6 | 12529.9 | 11311.3 | 10739.4 | 10718.0 | 10489.3 | 10314.2 | 10249.8 | 10371.3 |
| 40°   | 16375.4 | 16118.1 | 15553.4 | 13880.9 | 12290.5 | 11336.3 | 11268.4 | 10921.7 | 10721.6 | 10614.4 | 10871.7 |
| 42.5° | 17926.5 | 17712.0 | 17229.6 | 15396.2 | 13498.5 | 12208.3 | 12058.2 | 11464.9 | 11314.8 | 11214.8 | 11679.4 |
| 45°   | 19298.8 | 19105.8 | 18752.0 | 17015.1 | 14913.7 | 13394.8 | 13248.3 | 12279.8 | 12233.3 | 12233.3 | 12905.2 |
| 47.5° | 20413.9 | 20371.0 | 19995.7 | 18666.3 | 16582.7 | 14745.7 | 14492.0 | 13412.7 | 13537.8 | 13730.8 | 14645.7 |
| 50°   | 21650.4 | 21532.5 | 21132.2 | 20292.4 | 18544.7 | 16293.2 | 16085.9 | 14802.9 | 15271.1 | 15800.0 | 17161.7 |
| 52.5° | 22786.9 | 22851.2 | 22404.5 | 21986.4 | 20760.5 | 18019.4 | 17654.9 | 16443.3 | 17454.7 | 18330.3 | 20110.1 |
| 55°   | 23955.6 | 23959.1 | 23834.1 | 23776.9 | 23083.5 | 19927.8 | 19527.6 | 18416.1 | 20024.3 | 21110.8 | 23548.1 |
| 57.5° | 25052.7 | 25059.9 | 25245.7 | 25749.6 | 25778.2 | 22129.3 | 21675.4 | 20839.2 | 22879.8 | 23987.7 | 27093.4 |
| 60°   | 26032.0 | 26082.0 | 26589.5 | 27768.9 | 28147.7 | 24652.5 | 24223.6 | 23701.8 | 25831.8 | 26946.9 | 30820.9 |
| 62.5° | 26360.8 | 26543.0 | 27672.4 | 29348.5 | 30488.6 | 27747.4 | 27325.7 | 27014.8 | 28934.0 | 29970.4 | 33937.4 |
| 65°   | 25803.3 | 26221.4 | 28405.0 | 30653.0 | 32897.4 | 31424.9 | 31006.8 | 30667.3 | 32157.6 | 33133.2 | 36496.2 |
| 67.5° | 24434.5 | 24974.1 | 28362.1 | 32021.8 | 35820.8 | 35849.4 | 35459.8 | 34662.8 | 35613.5 | 35988.7 | 37328.9 |
| 70°   | 20828.4 | 21636.1 | 25864.0 | 32532.8 | 39176.6 | 41899.9 | 41524.7 | 39473.3 | 39062.3 | 37246.7 | 34984.5 |
| 72.5° | 13419.8 | 14506.3 | 19045.1 | 28326.4 | 39923.6 | 47593.1 | 47571.6 | 43815.5 | 40152.3 | 34802.2 | 28058.4 |
| 75°   | 4896.2  | 5560.9  | 8848.9  | 17779.9 | 33512.1 | 47303.6 | 47443.0 | 43072.1 | 36653.5 | 26882.6 | 17479.7 |
| 77.5° | 1783.4  | 1951.3  | 2887.7  | 6833.2  | 20610.4 | 37954.4 | 38243.9 | 34434.1 | 26089.2 | 13491.3 | 6926.1  |
| 80°   | 936.4   | 1029.3  | 1479.6  | 2651.8  | 8831.0  | 22540.3 | 22994.2 | 20463.9 | 12261.9 | 4063.5  | 2076.4  |
| 82.5° | 518.2   | 561.1   | 829.1   | 1440.3  | 3977.7  | 9638.7  | 9910.3  | 8084.1  | 4313.6  | 1722.6  | 857.7   |
| 85°   | 278.8   | 296.6   | 389.6   | 786.2   | 1944.2  | 3341.6  | 3416.6  | 2415.9  | 1719.0  | 1011.4  | 414.6   |
| 87.5° | 82.2    | 100.1   | 128.7   | 250.2   | 761.2   | 750.5   | 768.4   | 478.9   | 679.0   | 511.1   | 135.8   |
| 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°    | 6843.9  | 6843.9  | 6843.9 | 6843.9 | 6843.9 | 6843.9 | 6843.9 | 6843.9 | 6843.9 | 6843.9 | 6843.9 |
| 2.5°  | 6876.1  | 6865.4  | 6826.1 | 6808.2 | 6786.8 | 6783.2 | 6801.1 | 6804.6 | 6808.2 | 6811.8 | 6826.1 |
| 5°    | 6940.4  | 6904.7  | 6869.0 | 6847.5 | 6854.7 | 6858.2 | 6894.0 | 6919.0 | 6936.9 | 6951.2 | 6958.3 |
| 7.5°  | 7065.5  | 7036.9  | 6976.2 | 6972.6 | 6983.3 | 7015.5 | 7061.9 | 7119.1 | 7151.3 | 7176.3 | 7183.5 |
| 10°   | 7251.4  | 7197.7  | 7126.3 | 7137.0 | 7158.4 | 7204.9 | 7301.4 | 7347.9 | 7401.5 | 7447.9 | 7437.2 |
| 12.5° | 7440.8  | 7394.3  | 7312.1 | 7319.3 | 7355.0 | 7437.2 | 7530.1 | 7587.3 | 7623.0 | 7658.8 | 7673.1 |
| 15°   | 7687.4  | 7605.2  | 7515.8 | 7515.8 | 7580.2 | 7669.5 | 7712.4 | 7758.8 | 7780.3 | 7819.6 | 7833.9 |
| 17.5° | 7941.1  | 7833.9  | 7716.0 | 7708.8 | 7787.4 | 7830.3 | 7855.3 | 7862.5 | 7869.6 | 7912.5 | 7926.8 |
| 20°   | 8194.9  | 8076.9  | 7908.9 | 7894.7 | 7912.5 | 7905.4 | 7901.8 | 7894.7 | 7905.4 | 7959.0 | 7980.4 |
| 22.5° | 8445.0  | 8309.2  | 8076.9 | 8012.6 | 7962.6 | 7894.7 | 7891.1 | 7887.5 | 7894.7 | 7948.3 | 7984.0 |
| 25°   | 8738.1  | 8573.7  | 8262.8 | 8069.8 | 7901.8 | 7808.9 | 7819.6 | 7823.2 | 7830.3 | 7873.2 | 7930.4 |
| 27.5° | 9056.2  | 8873.9  | 8434.3 | 8051.9 | 7748.1 | 7683.8 | 7665.9 | 7676.6 | 7701.7 | 7769.6 | 7837.5 |
| 30°   | 9374.2  | 9159.8  | 8591.6 | 7980.4 | 7555.1 | 7465.8 | 7408.6 | 7433.6 | 7512.2 | 7580.2 | 7655.2 |
| 32.5° | 9663.7  | 9449.3  | 8716.6 | 7823.2 | 7308.5 | 7169.2 | 7094.1 | 7126.3 | 7204.9 | 7229.9 | 7319.3 |
| 35°   | 10003.2 | 9760.2  | 8770.2 | 7573.0 | 7040.5 | 6826.1 | 6726.0 | 6679.5 | 6718.9 | 6693.8 | 6772.5 |
| 37.5° | 10382.1 | 10128.3 | 8763.1 | 7244.2 | 6726.0 | 6479.4 | 6340.0 | 6164.9 | 6082.7 | 5996.9 | 6050.5 |
| 40°   | 10943.2 | 10578.6 | 8677.3 | 6847.5 | 6336.4 | 6111.3 | 5861.1 | 5564.5 | 5378.7 | 5210.7 | 5221.4 |
| 42.5° | 11708.0 | 11204.0 | 8520.1 | 6411.5 | 5896.9 | 5686.0 | 5346.5 | 4999.8 | 4706.8 | 4428.0 | 4403.0 |
| 45°   | 12848.0 | 12022.5 | 8323.5 | 5946.9 | 5421.5 | 5214.3 | 4846.2 | 4456.6 | 4124.2 | 3766.8 | 3724.0 |
| 47.5° | 14492.0 | 13123.2 | 8137.7 | 5418.0 | 4921.2 | 4731.8 | 4399.4 | 4038.5 | 3645.3 | 3298.7 | 3259.4 |
| 50°   | 16750.7 | 14702.9 | 7966.1 | 4903.3 | 4428.0 | 4285.1 | 4020.6 | 3652.5 | 3255.8 | 2977.0 | 2959.2 |
| 52.5° | 19624.1 | 16850.7 | 7894.7 | 4406.6 | 3967.0 | 3913.4 | 3702.5 | 3359.4 | 2984.2 | 2748.3 | 2730.4 |
| 55°   | 22922.7 | 19420.3 | 7894.7 | 3931.2 | 3563.1 | 3581.0 | 3434.5 | 3116.4 | 2791.2 | 2580.3 | 2558.9 |
| 57.5° | 26289.3 | 22022.1 | 7751.7 | 3491.7 | 3220.0 | 3295.1 | 3202.2 | 2923.4 | 2630.4 | 2412.4 | 2376.6 |
| 60°   | 29391.4 | 24202.2 | 7172.7 | 3091.4 | 2916.3 | 3034.2 | 2973.4 | 2734.0 | 2376.6 | 2194.3 | 2165.8 |
| 62.5° | 31775.2 | 25431.6 | 6057.7 | 2773.3 | 2666.1 | 2801.9 | 2769.7 | 2483.8 | 2330.2 | 2255.1 | 2230.1 |
| 65°   | 32968.8 | 25231.4 | 4631.7 | 2491.0 | 2455.2 | 2666.1 | 2598.2 | 2587.5 | 2466.0 | 2380.2 | 2351.6 |
| 67.5° | 32236.2 | 23508.8 | 3359.4 | 2283.7 | 2333.7 | 2541.0 | 2801.9 | 2844.8 | 2619.6 | 2451.7 | 2423.1 |
| 70°   | 29023.3 | 20392.4 | 2501.7 | 2087.1 | 2180.1 | 2544.6 | 3195.0 | 2977.0 | 2569.6 | 2373.0 | 2340.9 |
| 72.5° | 22079.3 | 15206.8 | 1940.6 | 1879.8 | 1979.9 | 2562.5 | 3370.1 | 2916.3 | 2426.6 | 2623.2 | 2601.8 |
| 75°   | 12626.4 | 8348.5  | 1558.2 | 1626.1 | 1729.7 | 2394.5 | 3280.8 | 2759.0 | 2315.9 | 2408.8 | 2408.8 |
| 77.5° | 4814.0  | 3209.3  | 1286.6 | 1375.9 | 1390.2 | 2090.7 | 3137.8 | 2748.3 | 2205.1 | 2151.5 | 1962.0 |
| 80°   | 1669.0  | 1254.4  | 1065.0 | 1093.6 | 1075.7 | 1858.4 | 3009.2 | 2390.9 | 1804.8 | 1615.4 | 1561.8 |
| 82.5° | 682.6   | 625.4   | 843.4  | 807.7  | 764.8  | 1443.8 | 2430.2 | 1954.9 | 1476.0 | 1304.5 | 1290.2 |
| 85°   | 296.6   | 396.7   | 557.5  | 489.6  | 443.2  | 1000.7 | 1947.8 | 1654.7 | 1247.3 | 1075.7 | 1072.2 |
| 87.5° | 60.8    | 150.1   | 235.9  | 221.6  | 228.7  | 668.3  | 1383.1 | 1175.8 | 882.7  | 661.2  | 518.2  |
| 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)