

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: P957369

Luminaire Tested: **GALN-SB9D-730-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957369  
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-SB9D-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3000K, 900mA 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: 79027 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
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



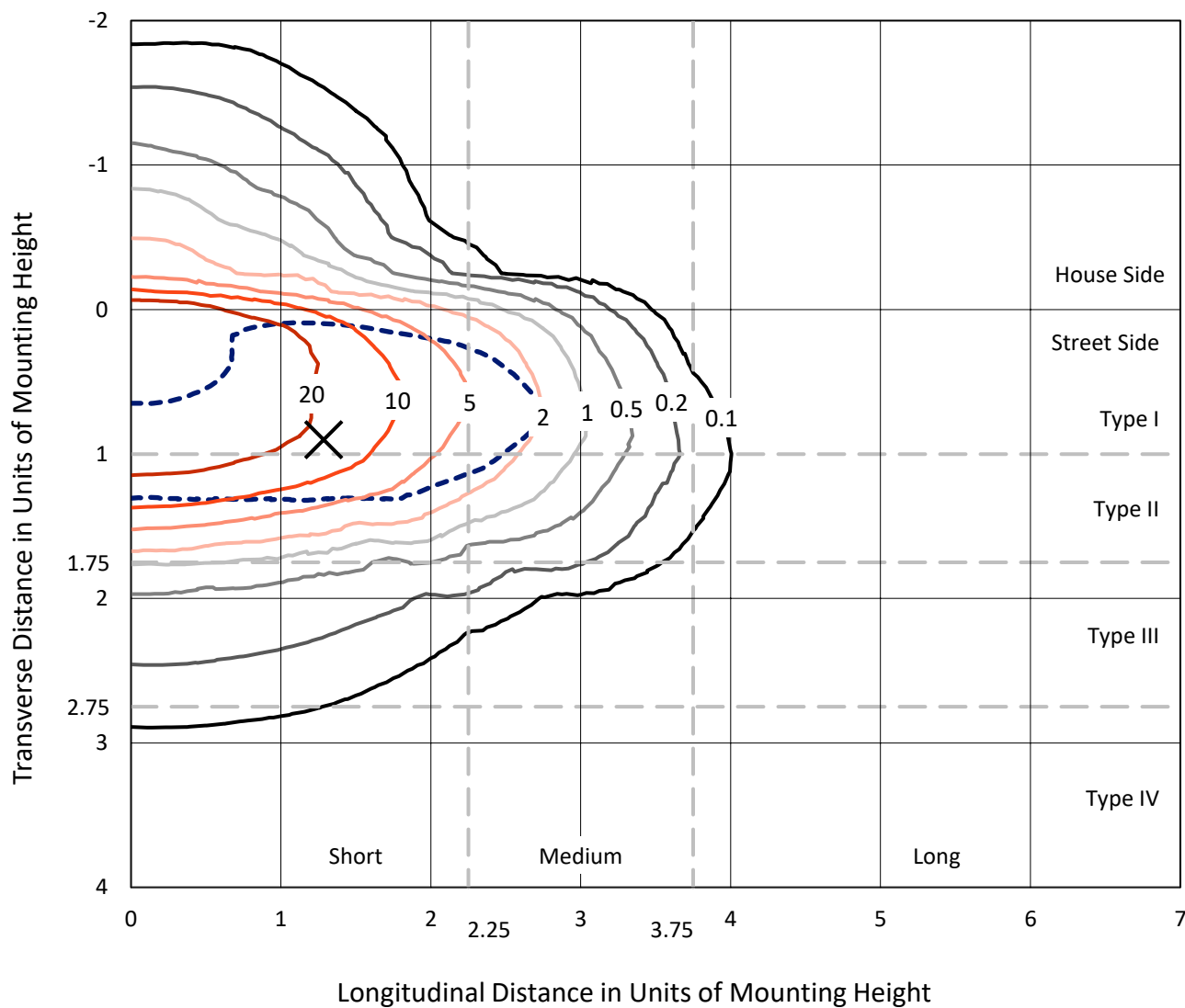
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

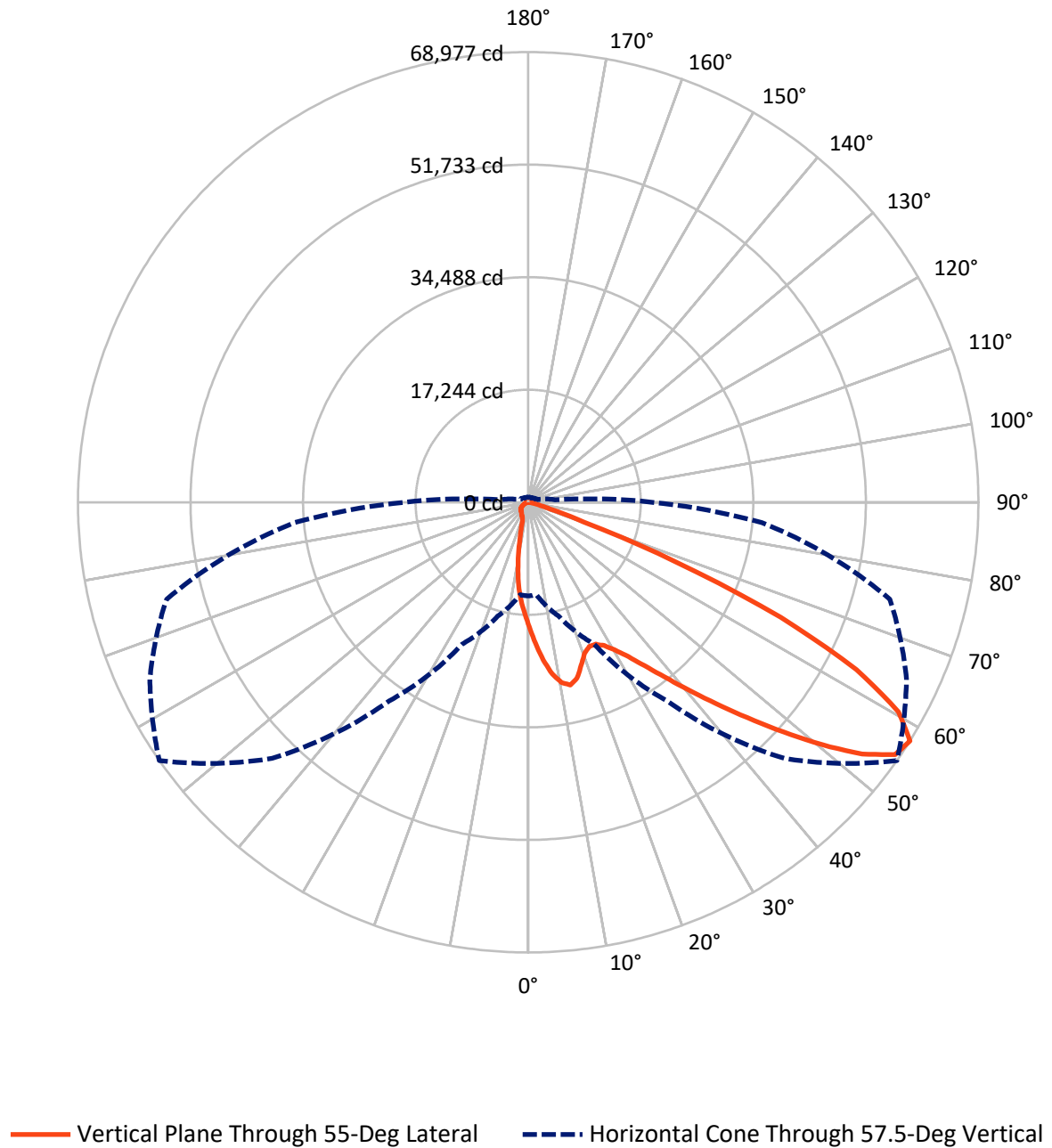


Based on 25 foot mounting height. Maximum calculated value = 43.6 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6171.7   | 0.0    | 6171.7  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 72855.3  | 0.0    | 72855.3 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 79027.0  | 0.0    | 79027.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1771.9  | 2.2       |
| 10°-20°   | 4280.0  | 5.4       |
| 20°-30°   | 6848.0  | 8.7       |
| 30°-40°   | 11590.6 | 14.7      |
| 40°-50°   | 19029.4 | 24.1      |
| 50°-60°   | 20914.6 | 26.5      |
| 60°-70°   | 11996.6 | 15.2      |
| 70°-80°   | 2451.3  | 3.1       |
| 80°-90°   | 144.6   | 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°    | 79027.0 | 100.0     |
| 0°-180°   | 79027.0 | 100.0     |

**Coefficient of Utilization**



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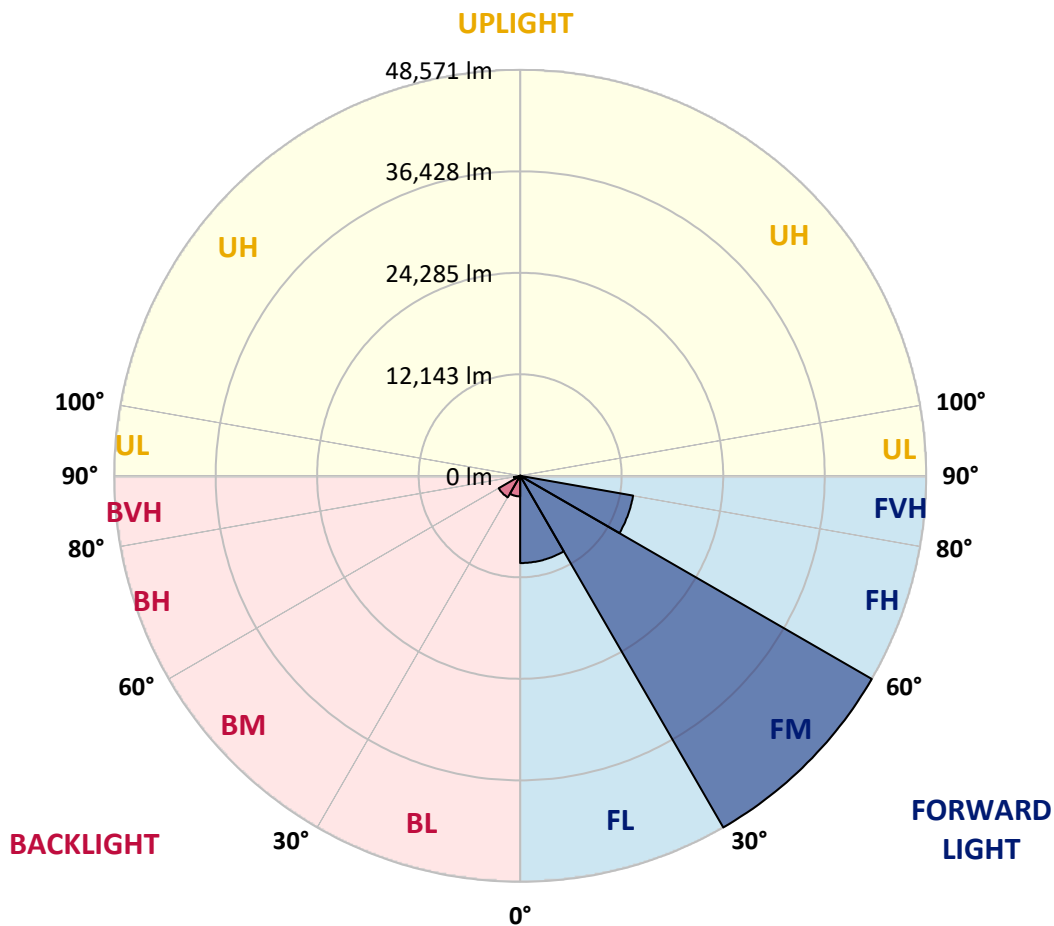
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 10436.0 | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 48570.6 | 61.5      |                         |      |         |
| FH   | (60°-80°)   | 13713.9 | 17.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 134.8   | 0.2       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2463.9  | 3.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2964.0  | 3.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 734.0   | 0.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 9.8     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 |
| 2.5°  | 23629.0 | 23331.8 | 23287.9 | 23229.4 | 22664.2 | 22240.2 | 21626.2 | 20953.8 | 20198.5 | 19428.5 | 19087.4 |
| 5°    | 27298.4 | 27064.5 | 27020.6 | 26747.7 | 26104.5 | 25383.3 | 24291.7 | 22912.7 | 21504.4 | 19847.6 | 19136.1 |
| 7.5°  | 28009.8 | 27966.0 | 28165.8 | 28156.0 | 28068.3 | 27498.2 | 26577.2 | 24935.0 | 22820.1 | 20364.1 | 19262.8 |
| 10°   | 24837.5 | 24949.6 | 25544.1 | 26065.5 | 27473.8 | 28292.5 | 28092.7 | 26738.0 | 24174.8 | 20953.8 | 19404.2 |
| 12.5° | 21947.8 | 21816.3 | 22240.2 | 22829.9 | 24467.2 | 26903.7 | 28721.3 | 28243.7 | 25724.4 | 21621.4 | 19613.7 |
| 15°   | 20135.1 | 20081.5 | 20320.3 | 20593.2 | 21840.6 | 24296.6 | 27990.3 | 29466.8 | 27215.5 | 22410.8 | 19930.4 |
| 17.5° | 19555.2 | 19511.4 | 19584.5 | 19652.7 | 20461.6 | 22362.1 | 26250.7 | 30217.3 | 28643.3 | 23312.3 | 20281.3 |
| 20°   | 20027.9 | 19969.4 | 19959.7 | 19906.1 | 20242.3 | 21538.5 | 24676.7 | 30270.9 | 29924.9 | 24130.9 | 20583.4 |
| 22.5° | 21406.9 | 21338.7 | 21100.0 | 20885.5 | 20914.8 | 21650.6 | 23975.0 | 29734.9 | 30889.7 | 24896.0 | 20773.5 |
| 25°   | 23906.8 | 23794.7 | 23297.7 | 22576.5 | 22118.4 | 22430.3 | 24082.2 | 29028.3 | 31810.7 | 25495.4 | 20680.9 |
| 27.5° | 27035.2 | 26889.0 | 26250.7 | 25178.6 | 24130.9 | 23750.8 | 24857.0 | 28541.0 | 32575.8 | 25953.4 | 20481.1 |
| 30°   | 30100.3 | 29910.3 | 29281.7 | 28448.4 | 26918.3 | 25719.5 | 26255.6 | 28755.4 | 33487.0 | 26431.0 | 20217.9 |
| 32.5° | 33409.1 | 33228.8 | 32395.5 | 31362.4 | 30095.5 | 28482.5 | 28170.6 | 29803.1 | 34602.9 | 27098.6 | 20032.8 |
| 35°   | 37594.9 | 37312.3 | 36128.2 | 34719.9 | 33375.0 | 31742.5 | 30763.0 | 31610.9 | 36089.2 | 28117.0 | 20135.1 |
| 37.5° | 42360.7 | 41980.6 | 40703.9 | 38759.6 | 37005.3 | 35178.0 | 33920.7 | 34096.2 | 38267.4 | 29481.5 | 20451.8 |
| 40°   | 46853.6 | 46507.6 | 45328.3 | 43496.1 | 41293.5 | 39076.3 | 37736.3 | 37346.4 | 41274.0 | 31143.1 | 21007.4 |
| 42.5° | 49548.3 | 49236.5 | 48739.4 | 47964.6 | 46108.0 | 43847.0 | 42156.0 | 41313.0 | 44831.3 | 33131.3 | 21684.7 |
| 45°   | 49699.4 | 49426.5 | 50094.1 | 50995.6 | 50630.1 | 49124.4 | 47063.1 | 45518.4 | 48403.2 | 34997.7 | 22386.4 |
| 47.5° | 47282.4 | 47097.2 | 49124.4 | 52272.3 | 53841.4 | 54474.9 | 52574.5 | 49372.9 | 51351.3 | 36337.7 | 22673.9 |
| 50°   | 40694.2 | 40625.9 | 44797.2 | 50576.5 | 55064.5 | 59162.7 | 58387.9 | 52959.4 | 53636.8 | 37029.7 | 22401.0 |
| 52.5° | 35285.2 | 35036.6 | 37468.3 | 45148.0 | 53285.9 | 61628.4 | 64069.8 | 56477.7 | 55235.1 | 37161.3 | 21762.7 |
| 55°   | 26762.3 | 26543.1 | 29593.5 | 36064.8 | 47550.4 | 60751.3 | 68226.4 | 60108.1 | 56380.2 | 36825.0 | 20617.5 |
| 57.5° | 14355.8 | 14219.3 | 18073.8 | 24004.2 | 37171.0 | 55488.5 | 68976.9 | 63948.0 | 57345.1 | 35933.3 | 19014.3 |
| 60°   | 5589.3  | 5564.9  | 7007.3  | 11646.4 | 22591.1 | 45143.2 | 65190.6 | 66252.9 | 57949.3 | 34836.8 | 17674.3 |
| 62.5° | 3381.8  | 3454.9  | 3688.8  | 5228.7  | 9979.8  | 28043.9 | 56463.1 | 63631.2 | 58353.8 | 33833.0 | 16568.1 |
| 65°   | 2797.1  | 2802.0  | 2831.2  | 3591.4  | 4780.4  | 11734.1 | 42506.9 | 55006.1 | 57354.8 | 32044.6 | 14999.0 |
| 67.5° | 2397.5  | 2441.4  | 2553.4  | 2850.7  | 3372.1  | 5145.9  | 24472.0 | 42609.2 | 51278.2 | 27883.1 | 12552.8 |
| 70°   | 1890.7  | 1949.2  | 2090.5  | 2343.9  | 2602.2  | 3221.0  | 9044.2  | 28350.9 | 39173.8 | 21017.1 | 9492.5  |
| 72.5° | 1593.5  | 1588.6  | 1661.7  | 1905.3  | 2066.1  | 2265.9  | 3479.3  | 15885.9 | 22766.5 | 10033.4 | 4697.5  |
| 75°   | 1232.9  | 1281.6  | 1374.2  | 1593.5  | 1690.9  | 1642.2  | 1885.8  | 5803.7  | 8157.3  | 3040.7  | 1598.3  |
| 77.5° | 964.8   | 1003.8  | 1086.7  | 1301.1  | 1398.5  | 1164.6  | 1086.7  | 2075.9  | 2621.7  | 1091.5  | 721.2   |
| 80°   | 433.7   | 467.8   | 740.7   | 960.0   | 1140.3  | 804.0   | 589.6   | 1062.3  | 1164.6  | 497.0   | 365.5   |
| 82.5° | 78.0    | 131.6   | 433.7   | 506.8   | 584.8   | 521.4   | 307.0   | 550.6   | 570.1   | 199.8   | 126.7   |
| 85°   | 4.9     | 9.7     | 151.1   | 185.2   | 233.9   | 170.6   | 92.6    | 219.3   | 190.0   | 68.2    | 48.7    |
| 87.5° | 0.0     | 0.0     | 0.0     | 4.9     | 4.9     | 24.4    | 29.2    | 39.0    | 29.2    | 24.4    | 19.5    |
| 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°    | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 | 19043.6 |
| 2.5°  | 18736.6 | 18044.6 | 17372.1 | 16821.5 | 16499.9 | 15954.1 | 15593.5 | 15535.0 | 15384.0 | 15515.5 |
| 5°    | 18376.0 | 17138.2 | 15885.9 | 14765.1 | 13844.1 | 12655.1 | 11768.2 | 11393.0 | 11066.5 | 11178.6 |
| 7.5°  | 18205.4 | 16251.3 | 14302.2 | 12387.1 | 10418.4 | 8517.9  | 7104.8  | 6515.2  | 6066.8  | 6130.2  |
| 10°   | 17976.4 | 15330.4 | 12275.0 | 9351.2  | 6715.0  | 4838.9  | 3864.3  | 3503.7  | 3303.9  | 3308.7  |
| 12.5° | 17801.0 | 14229.1 | 9921.4  | 6339.7  | 4088.4  | 3089.5  | 2787.3  | 2699.6  | 2641.1  | 2646.0  |
| 15°   | 17713.2 | 12932.9 | 7597.0  | 4224.9  | 2923.8  | 2616.8  | 2543.7  | 2504.7  | 2465.7  | 2460.8  |
| 17.5° | 17567.0 | 11490.5 | 5560.1  | 3084.6  | 2558.3  | 2451.1  | 2387.8  | 2343.9  | 2295.2  | 2285.4  |
| 20°   | 17347.8 | 9853.1  | 4064.1  | 2607.0  | 2397.5  | 2314.7  | 2226.9  | 2168.5  | 2110.0  | 2100.2  |
| 22.5° | 16943.3 | 8123.2  | 3123.6  | 2412.1  | 2280.5  | 2188.0  | 2080.8  | 2012.5  | 1954.1  | 1944.3  |
| 25°   | 16192.9 | 6500.5  | 2631.4  | 2290.3  | 2178.2  | 2066.1  | 1949.2  | 1856.6  | 1803.0  | 1793.3  |
| 27.5° | 15242.6 | 5106.9  | 2387.8  | 2178.2  | 2046.6  | 1944.3  | 1812.7  | 1725.0  | 1676.3  | 1666.6  |
| 30°   | 14121.9 | 3932.5  | 2246.4  | 2051.5  | 1890.7  | 1803.0  | 1686.0  | 1613.0  | 1583.7  | 1583.7  |
| 32.5° | 12913.4 | 3143.1  | 2188.0  | 1924.8  | 1754.3  | 1656.8  | 1564.2  | 1535.0  | 1525.2  | 1520.4  |
| 35°   | 11778.0 | 2728.9  | 2158.7  | 1822.5  | 1632.4  | 1539.9  | 1500.9  | 1505.7  | 1525.2  | 1525.2  |
| 37.5° | 10769.3 | 2597.3  | 2144.1  | 1749.4  | 1525.2  | 1442.4  | 1466.8  | 1510.6  | 1491.1  | 1491.1  |
| 40°   | 9858.0  | 2611.9  | 2134.4  | 1695.8  | 1437.5  | 1388.8  | 1437.5  | 1403.4  | 1354.7  | 1349.8  |
| 42.5° | 9161.2  | 2733.7  | 2114.9  | 1651.9  | 1383.9  | 1349.8  | 1330.3  | 1276.7  | 1271.8  | 1281.6  |
| 45°   | 8654.4  | 2840.9  | 2110.0  | 1632.4  | 1325.4  | 1262.1  | 1237.7  | 1184.1  | 1281.6  | 1306.0  |
| 47.5° | 8055.0  | 2840.9  | 2110.0  | 1564.2  | 1228.0  | 1203.6  | 1164.6  | 1106.2  | 1203.6  | 1228.0  |
| 50°   | 7280.2  | 2660.6  | 2027.2  | 1486.3  | 1150.0  | 1135.4  | 1067.2  | 994.1   | 974.6   | 989.2   |
| 52.5° | 6300.7  | 2334.2  | 1817.6  | 1379.0  | 1072.1  | 1042.8  | 960.0   | 906.4   | 891.8   | 891.8   |
| 55°   | 5184.8  | 1954.1  | 1535.0  | 1223.1  | 989.2   | 935.6   | 877.1   | 852.8   | 838.2   | 828.4   |
| 57.5° | 4215.1  | 1603.2  | 1232.9  | 1086.7  | 911.2   | 843.0   | 823.5   | 794.3   | 769.9   | 755.3   |
| 60°   | 3459.8  | 1262.1  | 1018.5  | 964.8   | 833.3   | 769.9   | 765.1   | 726.1   | 662.7   | 653.0   |
| 62.5° | 2670.4  | 925.9   | 857.6   | 838.2   | 755.3   | 701.7   | 692.0   | 614.0   | 516.5   | 497.0   |
| 65°   | 1885.8  | 721.2   | 692.0   | 735.8   | 672.5   | 623.7   | 599.4   | 482.4   | 380.1   | 365.5   |
| 67.5° | 1325.4  | 604.2   | 545.8   | 643.2   | 584.8   | 521.4   | 506.8   | 409.3   | 316.7   | 307.0   |
| 70°   | 945.4   | 492.2   | 448.3   | 550.6   | 467.8   | 458.1   | 428.8   | 341.1   | 258.3   | 248.5   |
| 72.5° | 667.6   | 375.2   | 346.0   | 477.6   | 321.6   | 394.7   | 350.9   | 263.1   | 194.9   | 185.2   |
| 75°   | 492.2   | 268.0   | 243.6   | 277.8   | 233.9   | 297.3   | 248.5   | 175.4   | 121.8   | 117.0   |
| 77.5° | 360.6   | 170.6   | 146.2   | 136.4   | 136.4   | 185.2   | 136.4   | 73.1    | 53.6    | 48.7    |
| 80°   | 253.4   | 78.0    | 68.2    | 58.5    | 53.6    | 43.9    | 19.5    | 9.7     | 4.9     | 4.9     |
| 82.5° | 151.1   | 34.1    | 34.1    | 24.4    | 14.6    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 34.1    | 14.6    | 14.6    | 4.9     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 4.9     | 4.9     | 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)