

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: P953454

Luminaire Tested: **GALN-SB7A-730-U-T2R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P953454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB7A-730-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 32493 lumens  
Efficiency: N/A  
Efficacy: 163.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 199.1  
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

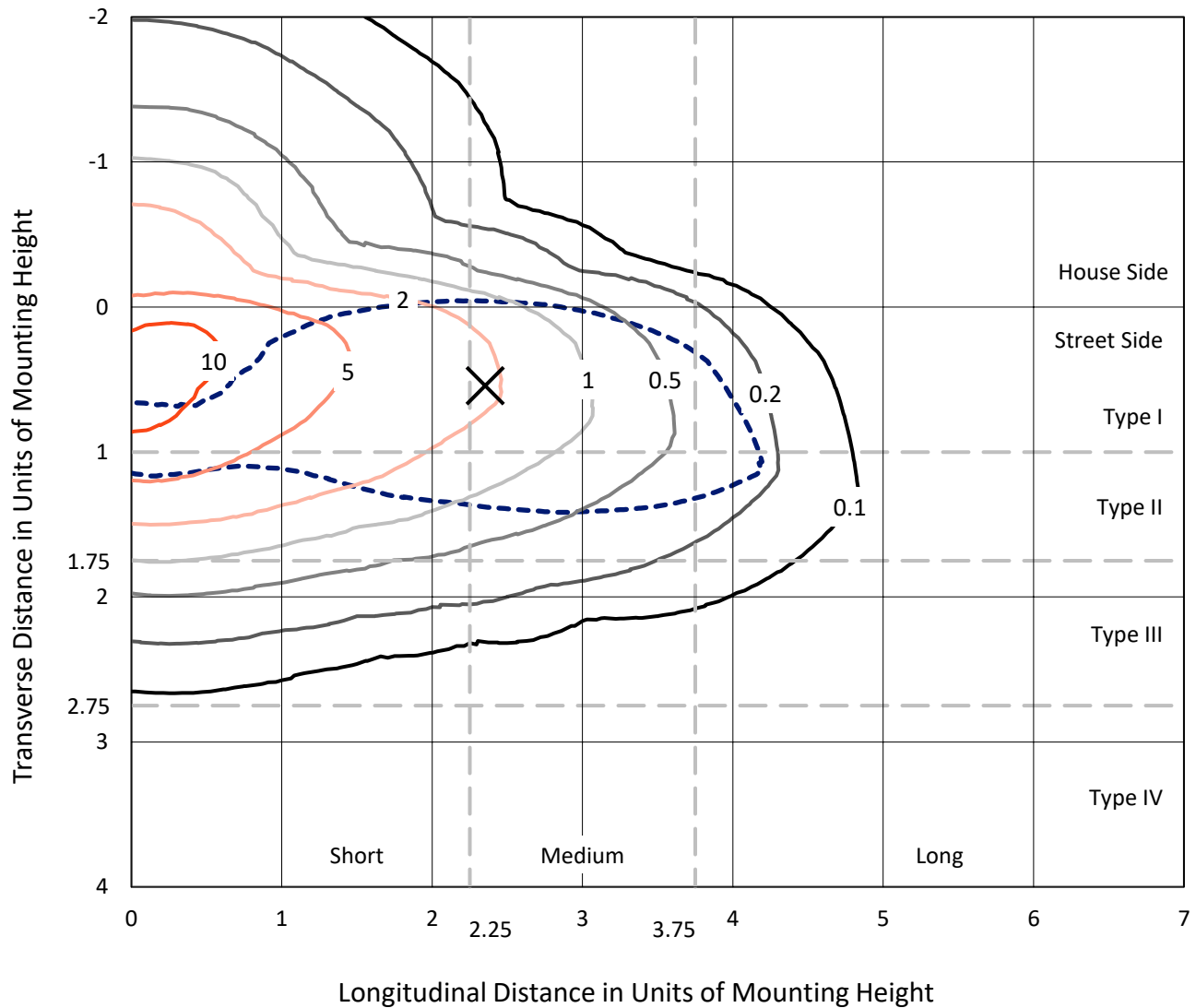


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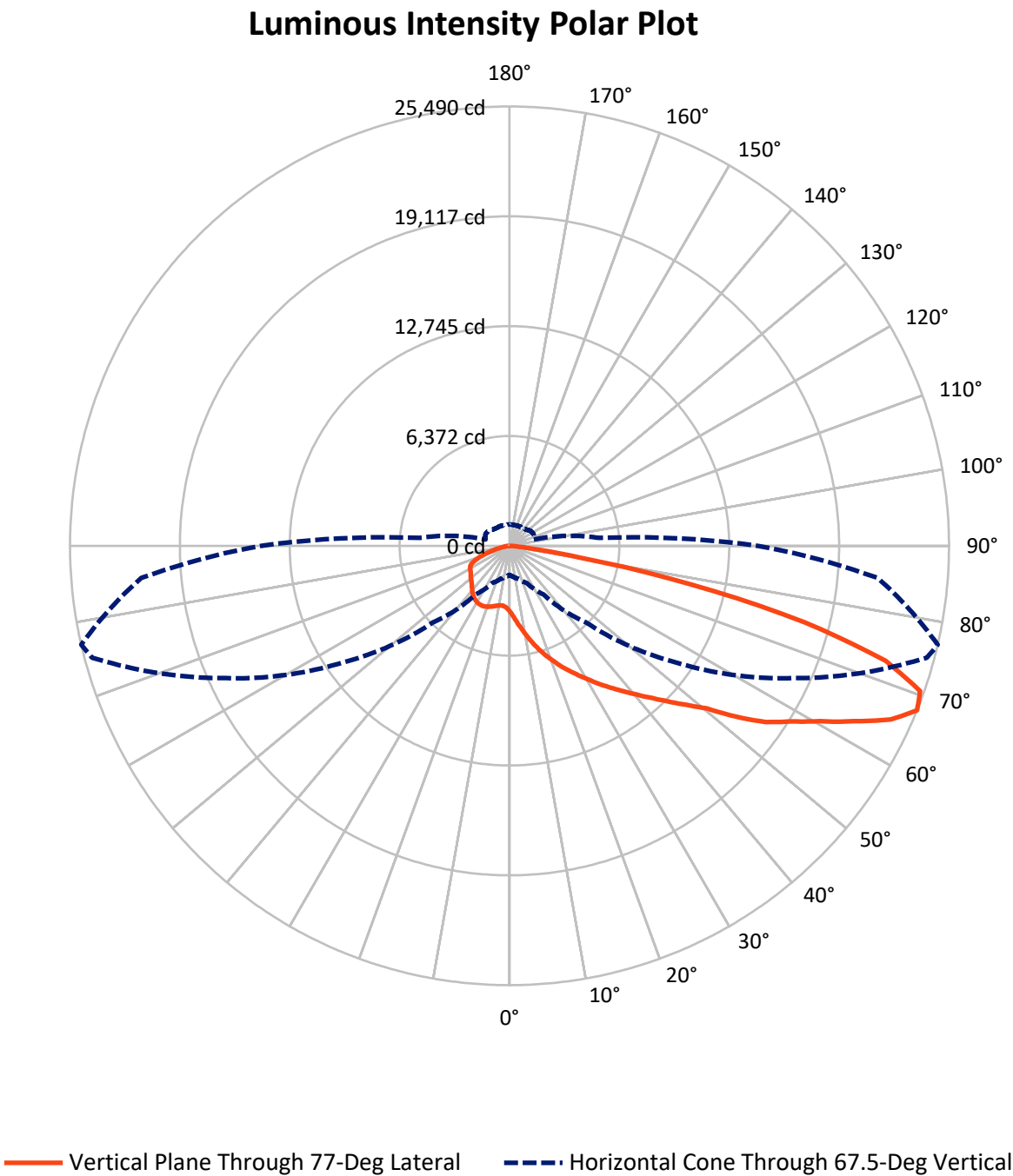
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
Type II - Medium - N/A

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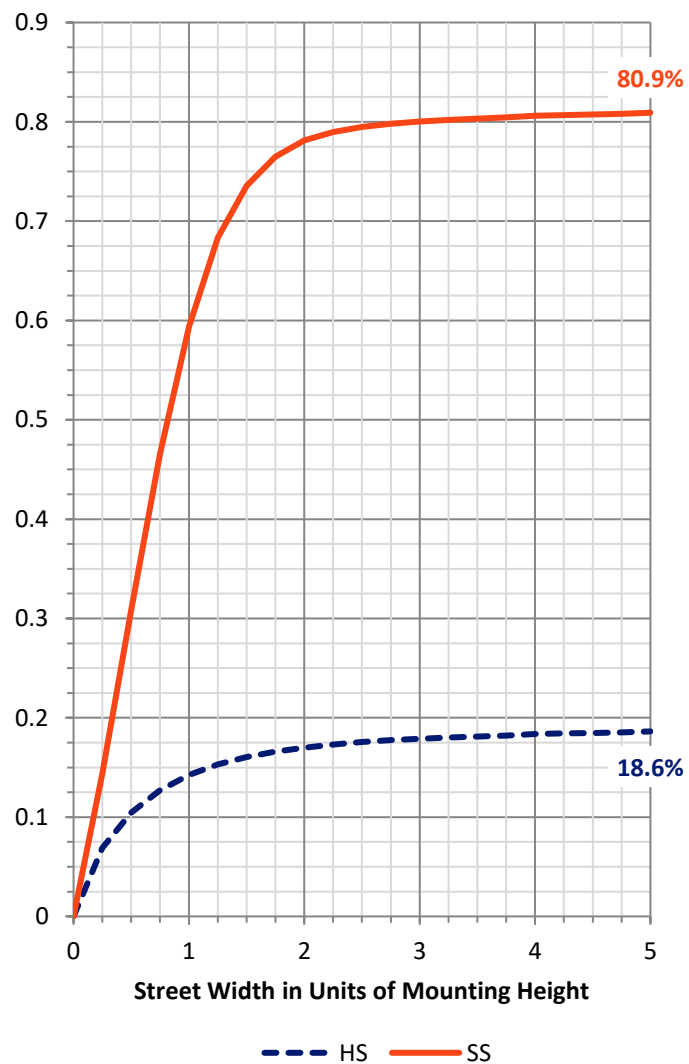
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6146.4   | 0.0    | 6146.4  |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 26346.6  | 0.0    | 26346.6 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 32493.0  | 0.0    | 32493.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 408.6   | 1.3       |
| 10°-20°   | 1468.1  | 4.5       |
| 20°-30°   | 2771.9  | 8.5       |
| 30°-40°   | 4465.5  | 13.7      |
| 40°-50°   | 6108.0  | 18.8      |
| 50°-60°   | 6889.8  | 21.2      |
| 60°-70°   | 6430.8  | 19.8      |
| 70°-80°   | 3525.1  | 10.8      |
| 80°-90°   | 425.2   | 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°    | 32493.0 | 100.0     |
| 0°-180°   | 32493.0 | 100.0     |

**Coefficient of Utilization**



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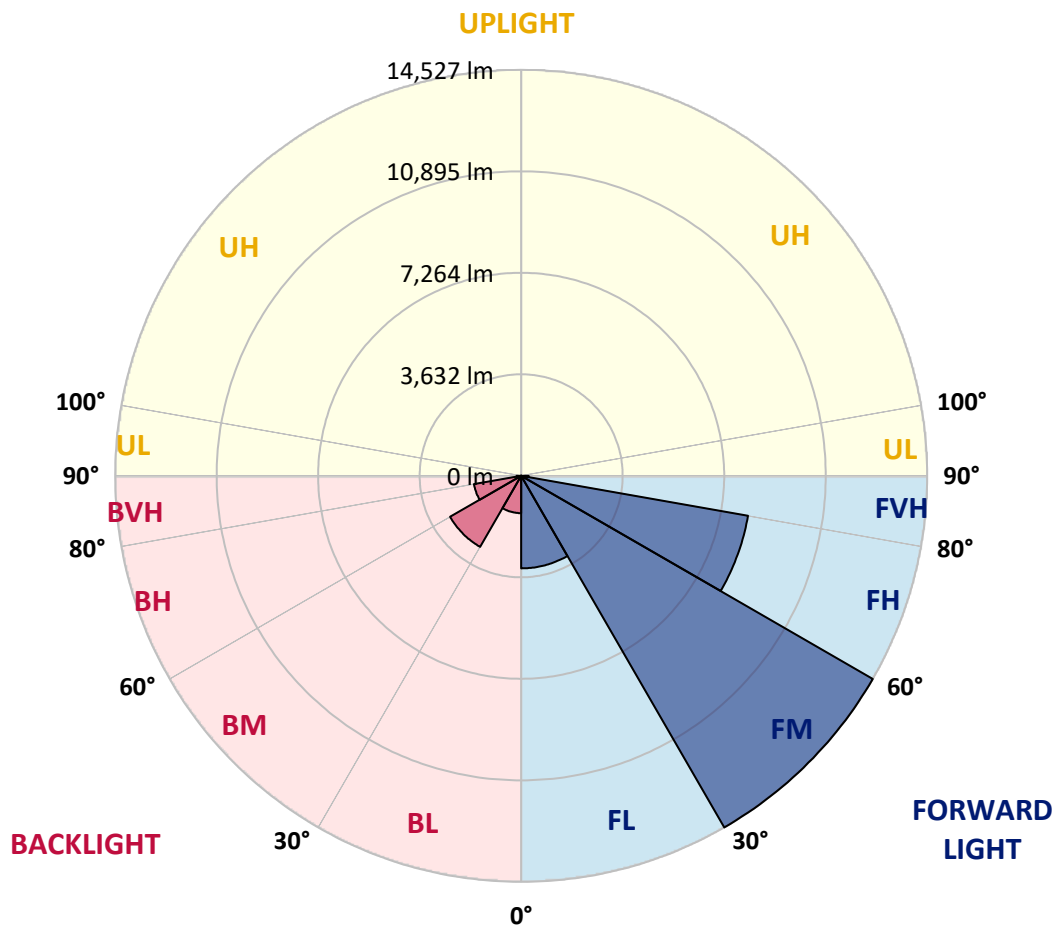
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3312.3  | 10.2      |                         |      |          |
| FM   | (30°-60°)   | 14527.3 | 44.7      |                         |      |          |
| FH   | (60°-80°)   | 8241.2  | 25.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 265.9   | 0.8       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1336.4  | 4.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2936.0  | 9.0       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1714.7  | 5.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 159.3   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3812.4  | 3812.4  | 3812.4  | 3812.4  | 3812.4  | 3812.4  | 3812.4  | 3812.4  | 3812.4  | 3812.4  | 3812.4  |
| 2.5°  | 4773.5  | 4807.1  | 4765.1  | 4765.1  | 4624.2  | 4550.4  | 4409.5  | 4302.2  | 4109.3  | 4075.8  | 3948.3  |
| 5°    | 5642.3  | 5684.3  | 5625.6  | 5600.4  | 5434.4  | 5281.7  | 5045.2  | 4812.1  | 4468.3  | 4433.0  | 4132.8  |
| 7.5°  | 6314.9  | 6368.6  | 6316.6  | 6289.8  | 6142.2  | 5971.1  | 5694.3  | 5368.9  | 4884.2  | 4815.4  | 4381.0  |
| 10°   | 6863.4  | 6871.8  | 6855.0  | 6865.1  | 6749.3  | 6608.5  | 6325.0  | 5945.9  | 5340.4  | 5246.5  | 4681.3  |
| 12.5° | 7173.7  | 7212.3  | 7245.8  | 7306.2  | 7286.1  | 7198.8  | 6943.9  | 6491.0  | 5823.5  | 5702.7  | 5008.3  |
| 15°   | 7319.6  | 7386.7  | 7462.2  | 7601.4  | 7713.8  | 7735.6  | 7541.0  | 7076.4  | 6314.9  | 6169.0  | 5338.8  |
| 17.5° | 7371.6  | 7435.3  | 7554.4  | 7755.7  | 7997.2  | 8159.9  | 8072.7  | 7645.0  | 6801.3  | 6633.6  | 5686.0  |
| 20°   | 7634.9  | 7653.4  | 7725.5  | 7916.7  | 8178.4  | 8448.4  | 8513.8  | 8191.8  | 7282.7  | 7093.2  | 6044.9  |
| 22.5° | 8198.5  | 8161.6  | 8181.7  | 8268.9  | 8456.8  | 8718.5  | 8867.7  | 8674.8  | 7777.5  | 7559.5  | 6407.2  |
| 25°   | 9129.4  | 9022.0  | 8914.7  | 8814.1  | 8909.7  | 9057.3  | 9226.7  | 9157.9  | 8295.8  | 8019.0  | 6772.8  |
| 27.5° | 10305.2 | 10174.3 | 9937.8  | 9607.4  | 9491.7  | 9543.7  | 9619.2  | 9605.7  | 8775.5  | 8495.4  | 7150.2  |
| 30°   | 11462.5 | 11309.8 | 11028.1 | 10550.0 | 10244.8 | 10107.2 | 10050.2 | 10011.6 | 9297.1  | 8998.6  | 7530.9  |
| 32.5° | 12386.7 | 12265.9 | 11989.1 | 11454.1 | 11011.3 | 10776.5 | 10586.9 | 10449.4 | 9842.2  | 9543.7  | 7933.5  |
| 35°   | 13195.1 | 13082.7 | 12765.7 | 12182.0 | 11700.6 | 11450.7 | 11202.5 | 10909.0 | 10409.1 | 10107.2 | 8366.2  |
| 37.5° | 13933.1 | 13820.7 | 13386.3 | 12779.1 | 12294.4 | 12121.6 | 11900.2 | 11402.1 | 10977.7 | 10692.6 | 8824.1  |
| 40°   | 14399.4 | 14374.2 | 13968.3 | 13280.6 | 12777.5 | 12691.9 | 12618.1 | 11974.0 | 11608.4 | 11343.4 | 9327.3  |
| 42.5° | 14518.5 | 14573.8 | 14251.8 | 13686.5 | 13206.8 | 13138.1 | 13310.8 | 12621.5 | 12316.2 | 12062.9 | 9897.6  |
| 45°   | 14231.6 | 14391.0 | 14179.7 | 13795.6 | 13512.1 | 13475.2 | 13924.7 | 13329.3 | 13099.5 | 12868.0 | 10585.3 |
| 47.5° | 13505.4 | 13775.4 | 13688.2 | 13634.5 | 13594.3 | 13753.6 | 14464.8 | 14080.7 | 13986.8 | 13785.5 | 11370.2 |
| 50°   | 12039.5 | 12551.0 | 12703.7 | 13042.5 | 13431.6 | 13970.0 | 14956.2 | 14900.9 | 15023.3 | 14820.4 | 12326.3 |
| 52.5° | 9505.1  | 10209.6 | 11095.2 | 11943.9 | 12931.8 | 13897.9 | 15496.3 | 16078.3 | 16594.9 | 16484.2 | 13845.9 |
| 55°   | 7846.3  | 8163.3  | 8844.3  | 10400.8 | 11962.3 | 13594.3 | 15739.5 | 17029.3 | 18154.8 | 18055.8 | 14998.2 |
| 57.5° | 6571.6  | 6855.0  | 7274.3  | 8574.2  | 10496.4 | 12904.9 | 15890.5 | 17609.7 | 19223.2 | 19213.1 | 16135.4 |
| 60°   | 5204.6  | 5504.8  | 5934.2  | 6855.0  | 8783.9  | 11714.1 | 15856.9 | 18270.5 | 20586.8 | 20670.7 | 17522.5 |
| 62.5° | 3661.5  | 3991.9  | 4468.3  | 5327.0  | 7034.5  | 10171.0 | 15172.6 | 18748.5 | 22192.0 | 22420.1 | 19191.3 |
| 65°   | 2406.9  | 2624.9  | 2983.9  | 3725.2  | 5241.5  | 8186.8  | 13866.0 | 18810.6 | 23909.5 | 24295.3 | 20757.9 |
| 67.5° | 1687.3  | 1771.2  | 1982.5  | 2385.1  | 3455.2  | 6278.0  | 11784.5 | 18168.2 | 25055.1 | 25489.5 | 21437.2 |
| 70°   | 1316.7  | 1358.6  | 1465.9  | 1627.0  | 2170.4  | 4221.7  | 9030.4  | 16497.6 | 24810.2 | 25263.1 | 20727.7 |
| 72.5° | 1137.2  | 1177.4  | 1217.7  | 1237.8  | 1455.9  | 2606.5  | 6117.0  | 13793.9 | 22504.0 | 22810.9 | 18022.3 |
| 75°   | 1031.5  | 1041.6  | 1075.1  | 1068.4  | 1110.4  | 1690.7  | 3530.7  | 10050.2 | 17755.6 | 17649.9 | 13304.1 |
| 77.5° | 867.1   | 880.6   | 935.9   | 927.5   | 986.2   | 1155.6  | 1833.3  | 6486.0  | 11511.1 | 10793.2 | 7405.2  |
| 80°   | 734.6   | 741.4   | 801.7   | 791.7   | 857.1   | 837.0   | 935.9   | 3305.9  | 4882.5  | 4136.2  | 2135.2  |
| 82.5° | 254.9   | 315.3   | 612.2   | 630.7   | 654.1   | 506.5   | 540.1   | 1348.5  | 1491.1  | 1142.2  | 447.8   |
| 85°   | 124.1   | 132.5   | 312.0   | 442.8   | 441.1   | 254.9   | 263.3   | 481.4   | 469.6   | 369.0   | 149.3   |
| 87.5° | 20.1    | 25.2    | 36.9    | 172.8   | 137.5   | 67.1    | 90.6    | 93.9    | 97.3    | 83.9    | 33.5    |
| 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):**

|       | 90°     | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3812.4  | 3812.4 | 3812.4 | 3812.4 | 3812.4 | 3812.4 | 3812.4 | 3812.4 | 3812.4 | 3812.4 | 3812.4 |
| 2.5°  | 3854.4  | 3770.5 | 3594.4 | 3431.7 | 3304.2 | 3181.8 | 3113.0 | 3054.3 | 3020.8 | 3014.1 | 3014.1 |
| 5°    | 3958.4  | 3785.6 | 3465.2 | 3195.2 | 3019.1 | 2888.3 | 2819.5 | 2775.9 | 2754.1 | 2740.7 | 2739.0 |
| 7.5°  | 4107.6  | 3854.4 | 3398.2 | 3091.2 | 2906.7 | 2812.8 | 2777.6 | 2770.9 | 2769.2 | 2770.9 | 2775.9 |
| 10°   | 4313.9  | 3966.7 | 3391.4 | 3066.1 | 2911.7 | 2859.7 | 2858.1 | 2859.7 | 2866.5 | 2868.1 | 2869.8 |
| 12.5° | 4537.0  | 4082.5 | 3418.3 | 3087.9 | 2975.5 | 2947.0 | 2941.9 | 2940.3 | 2945.3 | 2948.6 | 2950.3 |
| 15°   | 4780.2  | 4235.1 | 3463.6 | 3134.8 | 3045.9 | 3015.7 | 3010.7 | 3000.6 | 2999.0 | 2997.3 | 2995.6 |
| 17.5° | 5030.1  | 4386.1 | 3513.9 | 3185.1 | 3091.2 | 3049.3 | 3030.8 | 3007.3 | 2988.9 | 2983.9 | 2988.9 |
| 20°   | 5283.4  | 4535.3 | 3549.1 | 3210.3 | 3094.6 | 3035.9 | 2999.0 | 2958.7 | 2926.8 | 2908.4 | 2915.1 |
| 22.5° | 5553.4  | 4691.3 | 3570.9 | 3203.6 | 3064.4 | 2983.9 | 2916.8 | 2869.8 | 2821.2 | 2789.3 | 2791.0 |
| 25°   | 5816.8  | 4827.2 | 3569.2 | 3168.4 | 3005.7 | 2903.4 | 2817.8 | 2757.4 | 2690.3 | 2656.8 | 2656.8 |
| 27.5° | 6070.0  | 4949.6 | 3527.3 | 3106.3 | 2921.8 | 2807.8 | 2705.4 | 2633.3 | 2567.9 | 2536.0 | 2534.4 |
| 30°   | 6331.7  | 5051.9 | 3461.9 | 3015.7 | 2822.8 | 2697.1 | 2584.7 | 2522.6 | 2463.9 | 2433.7 | 2432.0 |
| 32.5° | 6591.7  | 5145.9 | 3369.6 | 2903.4 | 2708.8 | 2588.0 | 2477.3 | 2420.3 | 2385.1 | 2385.1 | 2386.8 |
| 35°   | 6866.7  | 5211.3 | 3247.2 | 2772.5 | 2588.0 | 2472.3 | 2385.1 | 2351.5 | 2348.2 | 2328.1 | 2323.0 |
| 37.5° | 7156.9  | 5253.2 | 3097.9 | 2638.3 | 2468.9 | 2359.9 | 2333.1 | 2292.8 | 2259.3 | 2215.7 | 2209.0 |
| 40°   | 7462.2  | 5295.1 | 2918.5 | 2499.1 | 2343.1 | 2282.8 | 2271.0 | 2217.4 | 2121.7 | 2014.4 | 1999.3 |
| 42.5° | 7832.9  | 5323.7 | 2732.3 | 2359.9 | 2210.6 | 2190.5 | 2207.3 | 2115.0 | 1962.4 | 1881.9 | 1883.6 |
| 45°   | 8262.2  | 5370.6 | 2561.2 | 2222.4 | 2074.8 | 2074.8 | 2145.2 | 2024.5 | 1898.7 | 1848.4 | 1856.7 |
| 47.5° | 8819.1  | 5479.6 | 2401.9 | 2071.4 | 1949.0 | 1982.5 | 2007.7 | 1915.4 | 1845.0 | 1782.9 | 1781.3 |
| 50°   | 9624.2  | 5741.3 | 2237.5 | 1918.8 | 1853.4 | 1920.5 | 1885.3 | 1831.6 | 1749.4 | 1699.1 | 1694.0 |
| 52.5° | 10623.8 | 5895.6 | 2091.6 | 1781.3 | 1771.2 | 1838.3 | 1788.0 | 1737.7 | 1675.6 | 1608.5 | 1595.1 |
| 55°   | 11304.8 | 5924.1 | 1969.1 | 1680.6 | 1715.8 | 1709.1 | 1690.7 | 1645.4 | 1611.9 | 1523.0 | 1524.6 |
| 57.5° | 12066.3 | 5981.2 | 1868.5 | 1620.2 | 1680.6 | 1606.8 | 1600.1 | 1561.5 | 1517.9 | 1457.5 | 1437.4 |
| 60°   | 12977.1 | 6070.0 | 1781.3 | 1596.8 | 1650.4 | 1539.7 | 1506.2 | 1491.1 | 1447.5 | 1417.3 | 1425.7 |
| 62.5° | 13970.0 | 6150.6 | 1692.4 | 1600.1 | 1615.2 | 1474.3 | 1424.0 | 1419.0 | 1392.1 | 1382.1 | 1382.1 |
| 65°   | 14647.6 | 5930.8 | 1581.7 | 1596.8 | 1559.9 | 1407.2 | 1343.5 | 1341.8 | 1320.0 | 1316.7 | 1315.0 |
| 67.5° | 14411.1 | 5234.8 | 1432.4 | 1549.8 | 1502.8 | 1340.1 | 1269.7 | 1263.0 | 1234.5 | 1236.1 | 1236.1 |
| 70°   | 13227.0 | 4241.8 | 1226.1 | 1434.1 | 1432.4 | 1279.8 | 1192.5 | 1170.7 | 1132.2 | 1138.9 | 1145.6 |
| 72.5° | 11006.3 | 3143.2 | 949.3  | 1241.2 | 1320.0 | 1224.4 | 1103.6 | 1068.4 | 1019.8 | 1026.5 | 1024.8 |
| 75°   | 7948.6  | 2136.8 | 691.0  | 944.3  | 1148.9 | 1159.0 | 1016.4 | 956.0  | 897.3  | 907.4  | 910.8  |
| 77.5° | 4067.4  | 1211.0 | 508.2  | 650.8  | 902.4  | 1053.3 | 937.6  | 857.1  | 843.7  | 937.6  | 924.2  |
| 80°   | 1326.7  | 607.2  | 352.2  | 456.2  | 592.1  | 862.1  | 821.9  | 729.6  | 726.3  | 748.1  | 642.4  |
| 82.5° | 395.8   | 256.6  | 226.4  | 300.2  | 327.1  | 660.8  | 709.5  | 551.8  | 474.7  | 499.8  | 516.6  |
| 85°   | 135.9   | 124.1  | 129.1  | 149.3  | 156.0  | 387.4  | 496.5  | 365.6  | 345.5  | 380.7  | 375.7  |
| 87.5° | 31.9    | 43.6   | 36.9   | 33.5   | 33.5   | 93.9   | 192.9  | 152.6  | 211.3  | 140.9  | 135.9  |
| 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)