

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: P949528

Luminaire Tested: **GALN-SB4B-730-U-T2U-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949528  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-730-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17247 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147  
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

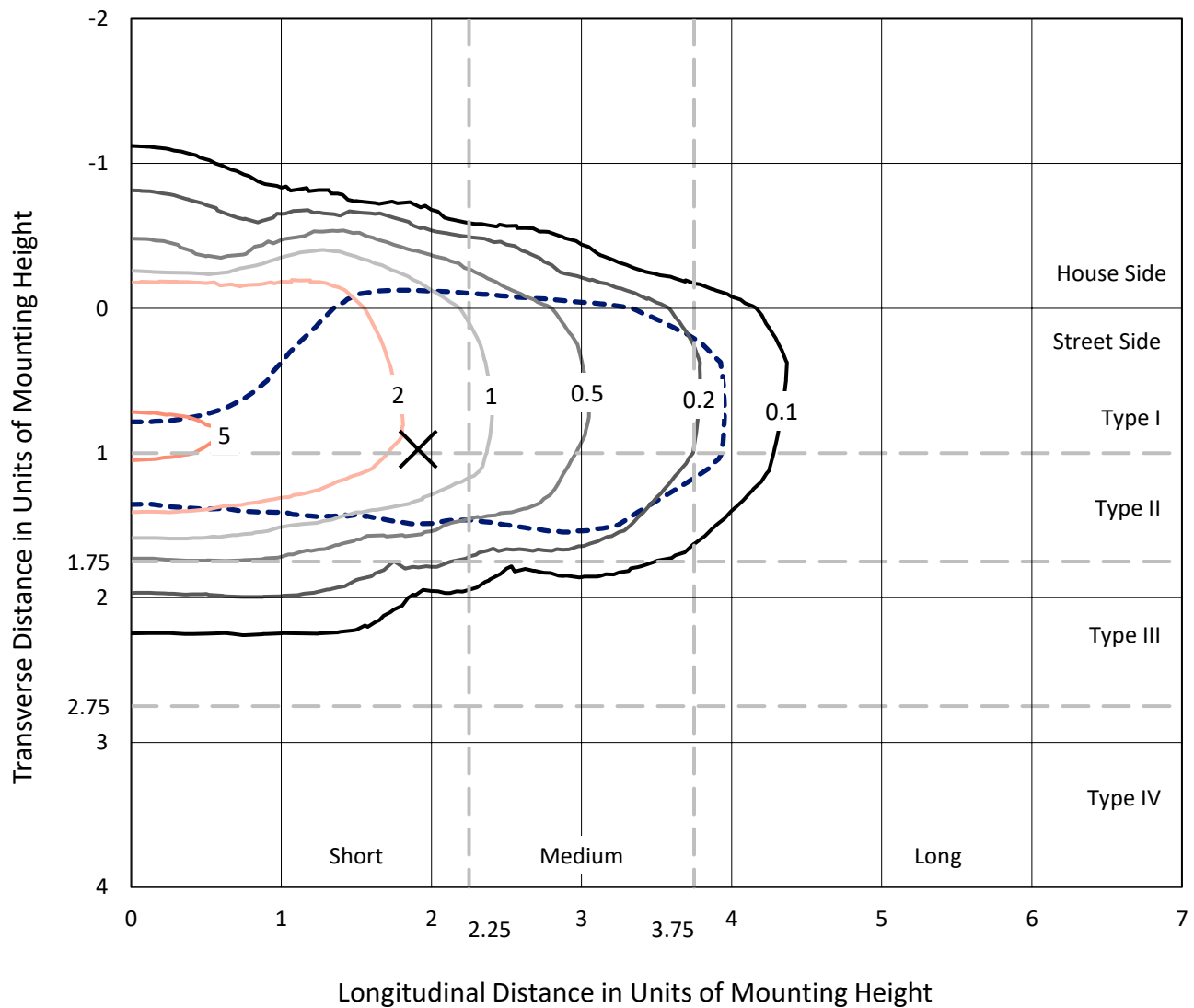


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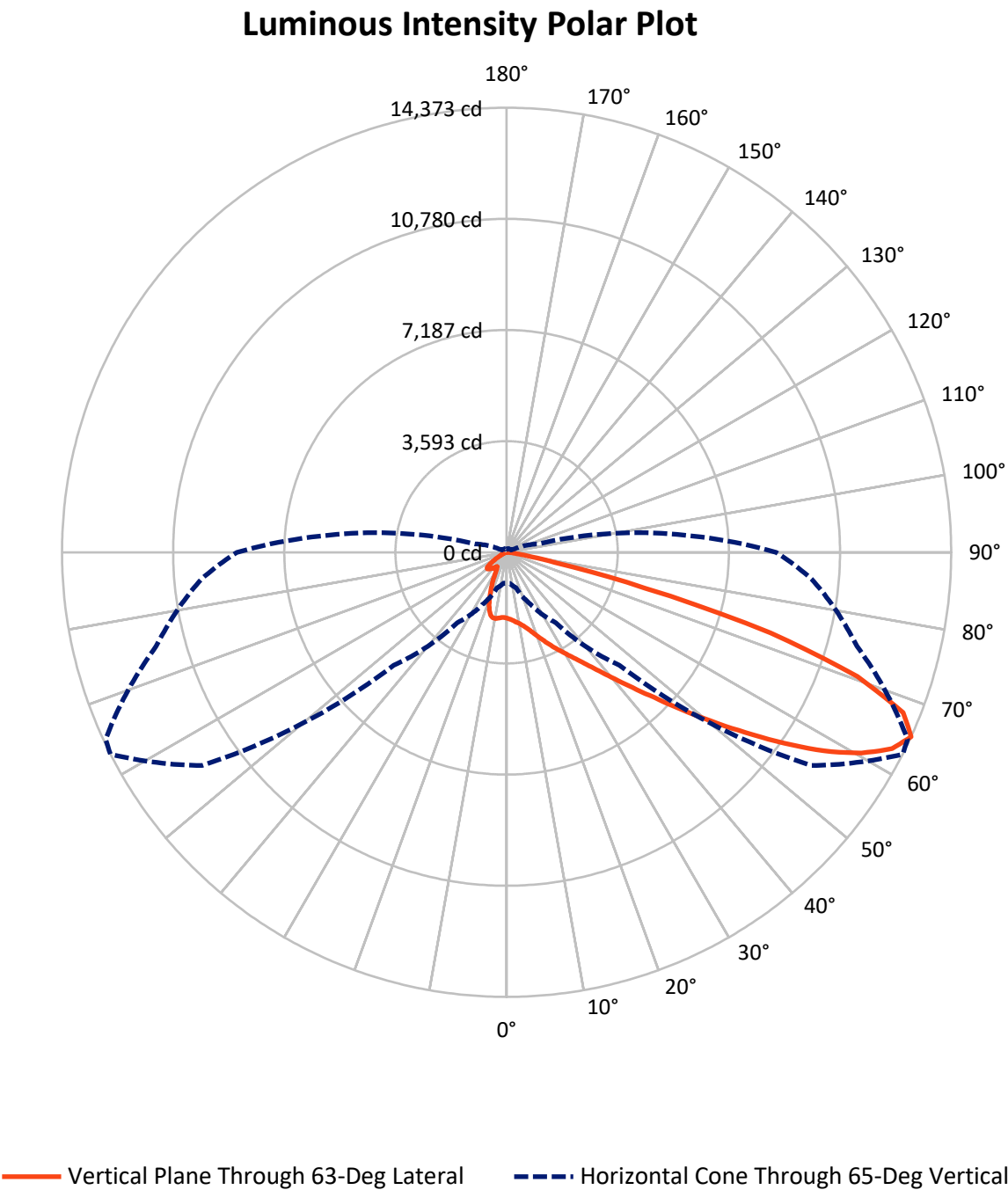
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
Type II - Short - N/A

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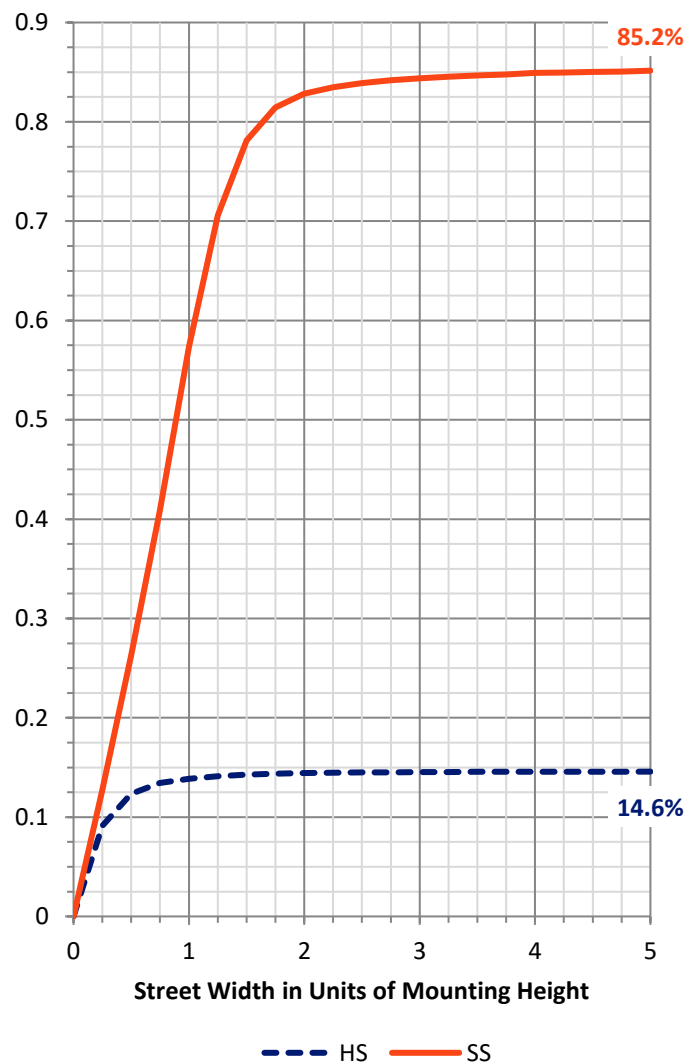
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2535.2   | 0.0    | 2535.2  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 14711.8  | 0.0    | 14711.8 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 17247.0  | 0.0    | 17247.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 200.6   | 1.2       |
| 10°-20°   | 556.5   | 3.2       |
| 20°-30°   | 968.9   | 5.6       |
| 30°-40°   | 1746.4  | 10.1      |
| 40°-50°   | 3463.7  | 20.1      |
| 50°-60°   | 4718.2  | 27.4      |
| 60°-70°   | 3766.0  | 21.8      |
| 70°-80°   | 1704.2  | 9.9       |
| 80°-90°   | 122.5   | 0.7       |
| 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°    | 17247.0 | 100.0     |
| 0°-180°   | 17247.0 | 100.0     |

**Coefficient of Utilization**



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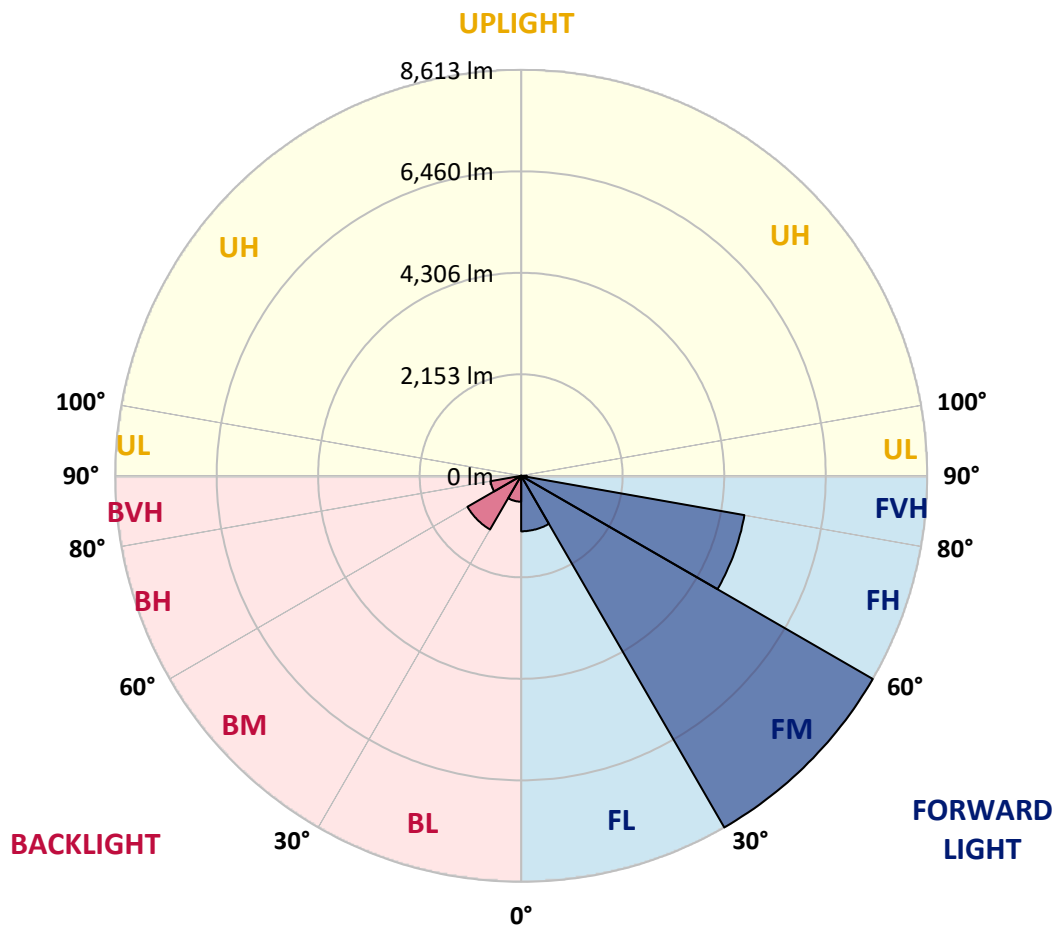
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1177.3 | 6.8       |                         |      |         |
| FM   | (30°-60°)   | 8612.7 | 49.9      |                         |      |         |
| FH   | (60°-80°)   | 4808.4 | 27.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 113.4  | 0.7       |                         |      | G2/225  |
| BL   | (0°-30°)    | 548.7  | 3.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1315.6 | 7.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 661.8  | 3.8       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 9.1    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 63°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2128.6 | 2128.6 | 2128.6 | 2128.6  | 2128.6  | 2128.6  | 2128.6  | 2128.6  | 2128.6  | 2128.6  | 2128.6  |
| 2.5°  | 2178.4 | 2172.5 | 2180.8 | 2177.3  | 2174.9  | 2170.1  | 2167.8  | 2165.4  | 2160.6  | 2157.1  | 2142.8  |
| 5°    | 2184.4 | 2180.8 | 2189.1 | 2196.2  | 2203.4  | 2210.5  | 2214.0  | 2218.8  | 2214.0  | 2204.5  | 2190.3  |
| 7.5°  | 2134.5 | 2132.2 | 2150.0 | 2171.3  | 2203.4  | 2230.6  | 2260.3  | 2276.9  | 2278.1  | 2274.5  | 2259.1  |
| 10°   | 2131.0 | 2125.0 | 2142.8 | 2168.9  | 2210.5  | 2259.1  | 2311.3  | 2346.9  | 2351.7  | 2367.1  | 2350.5  |
| 12.5° | 2186.7 | 2180.8 | 2205.7 | 2234.2  | 2276.9  | 2327.9  | 2392.0  | 2441.8  | 2449.0  | 2470.3  | 2458.5  |
| 15°   | 2280.5 | 2272.2 | 2300.7 | 2337.4  | 2392.0  | 2450.2  | 2517.8  | 2562.9  | 2568.8  | 2594.9  | 2573.5  |
| 17.5° | 2389.6 | 2381.3 | 2414.6 | 2453.7  | 2513.0  | 2592.5  | 2670.8  | 2720.7  | 2727.8  | 2744.4  | 2705.3  |
| 20°   | 2529.6 | 2519.0 | 2545.1 | 2580.7  | 2643.6  | 2738.5  | 2832.2  | 2903.4  | 2902.2  | 2902.2  | 2838.1  |
| 22.5° | 2692.2 | 2675.6 | 2698.1 | 2726.6  | 2785.9  | 2901.0  | 3025.6  | 3109.9  | 3109.9  | 3076.6  | 2971.0  |
| 25°   | 2866.6 | 2850.0 | 2874.9 | 2901.0  | 2953.2  | 3083.7  | 3229.7  | 3334.1  | 3338.8  | 3281.9  | 3113.4  |
| 27.5° | 3084.9 | 3063.6 | 3082.6 | 3113.4  | 3144.3  | 3277.2  | 3450.4  | 3571.4  | 3573.8  | 3486.0  | 3248.7  |
| 30°   | 3505.0 | 3444.4 | 3385.1 | 3351.9  | 3366.1  | 3497.8  | 3682.9  | 3817.0  | 3828.9  | 3707.9  | 3395.8  |
| 32.5° | 4273.8 | 4262.0 | 4053.1 | 3780.2  | 3637.9  | 3735.1  | 3942.8  | 4104.2  | 4111.3  | 3955.8  | 3586.8  |
| 35°   | 5468.6 | 5454.4 | 5118.6 | 4598.9  | 4135.0  | 4053.1  | 4258.4  | 4449.4  | 4444.7  | 4269.1  | 3834.8  |
| 37.5° | 6894.8 | 6881.8 | 6439.2 | 5743.9  | 4992.8  | 4533.7  | 4665.4  | 4865.9  | 4895.6  | 4665.4  | 4155.2  |
| 40°   | 8113.4 | 8064.7 | 7784.7 | 7114.3  | 6131.9  | 5331.0  | 5244.4  | 5377.3  | 5408.1  | 5135.2  | 4562.1  |
| 42.5° | 9036.5 | 8995.0 | 8852.6 | 8433.7  | 7510.6  | 6510.4  | 5926.6  | 5977.7  | 6012.1  | 5684.6  | 5029.6  |
| 45°   | 9514.7 | 9505.2 | 9562.1 | 9523.0  | 8915.5  | 7957.9  | 6902.0  | 6689.6  | 6702.6  | 6293.3  | 5560.0  |
| 47.5° | 9582.3 | 9577.5 | 9837.4 | 10205.2 | 10123.3 | 9590.6  | 8153.7  | 7577.1  | 7530.8  | 6980.3  | 6136.6  |
| 50°   | 9183.6 | 9174.1 | 9672.5 | 10361.8 | 10930.2 | 10962.2 | 9575.2  | 8577.3  | 8475.3  | 7691.0  | 6738.2  |
| 52.5° | 7910.5 | 7908.1 | 8726.8 | 9874.2  | 11213.7 | 12163.0 | 10980.0 | 9676.0  | 9505.2  | 8443.2  | 7374.2  |
| 55°   | 6086.8 | 6130.7 | 7069.2 | 8425.4  | 10696.4 | 12740.8 | 12241.3 | 10895.8 | 10633.5 | 9200.2  | 7960.3  |
| 57.5° | 4311.8 | 4375.9 | 5303.7 | 6511.6  | 9092.3  | 12399.1 | 13094.4 | 12117.9 | 11835.5 | 9954.9  | 8554.8  |
| 60°   | 2316.1 | 2373.0 | 3302.1 | 4743.7  | 6764.3  | 11124.8 | 13544.1 | 13178.6 | 12911.6 | 10671.5 | 9091.1  |
| 62.5° | 1379.9 | 1398.9 | 1783.3 | 3062.4  | 4575.2  | 8499.0  | 13353.0 | 13986.6 | 13767.1 | 11273.1 | 9557.4  |
| 65°   | 990.7  | 994.3  | 1187.7 | 1869.9  | 2777.6  | 5163.7  | 12013.5 | 14373.4 | 14305.8 | 11726.3 | 9902.6  |
| 67.5° | 834.1  | 831.7  | 912.4  | 1242.3  | 1892.5  | 2586.6  | 9207.3  | 13826.4 | 14113.6 | 12013.5 | 10098.4 |
| 70°   | 715.5  | 719.0  | 813.9  | 910.1   | 1422.6  | 1464.2  | 4577.6  | 12038.4 | 12650.6 | 12089.4 | 10086.6 |
| 72.5° | 532.7  | 544.6  | 632.4  | 829.4   | 1073.8  | 1007.4  | 1580.4  | 8926.1  | 10033.2 | 11390.5 | 9563.3  |
| 75°   | 376.1  | 382.1  | 444.9  | 697.7   | 800.9   | 733.3   | 806.8   | 4614.4  | 6033.4  | 8732.7  | 7827.4  |
| 77.5° | 289.5  | 300.2  | 337.0  | 487.7   | 789.0   | 514.9   | 493.6   | 1597.0  | 2453.7  | 5275.2  | 5366.6  |
| 80°   | 156.6  | 175.6  | 243.2  | 352.4   | 554.1   | 364.3   | 244.4   | 636.0   | 831.7   | 2466.8  | 2069.3  |
| 82.5° | 80.7   | 90.2   | 169.7  | 253.9   | 315.6   | 318.0   | 121.0   | 264.6   | 342.9   | 761.7   | 283.6   |
| 85°   | 32.0   | 39.2   | 113.9  | 140.0   | 162.6   | 156.6   | 54.6    | 106.8   | 123.4   | 211.2   | 86.6    |
| 87.5° | 7.1    | 11.9   | 41.5   | 32.0    | 30.8    | 33.2    | 13.1    | 24.9    | 23.7    | 24.9    | 15.4    |
| 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°    | 2128.6 | 2128.6 | 2128.6 | 2128.6 | 2128.6 | 2128.6 | 2128.6 | 2128.6 | 2128.6 | 2128.6 | 2128.6 |
| 2.5°  | 2141.7 | 2136.9 | 2123.9 | 2109.6 | 2093.0 | 2083.5 | 2077.6 | 2076.4 | 2068.1 | 2062.2 | 2068.1 |
| 5°    | 2177.3 | 2172.5 | 2147.6 | 2117.9 | 2085.9 | 2061.0 | 2037.2 | 2015.9 | 1985.0 | 1979.1 | 1976.7 |
| 7.5°  | 2248.4 | 2235.4 | 2195.1 | 2154.7 | 2094.2 | 2021.8 | 1934.0 | 1833.2 | 1743.0 | 1715.7 | 1702.6 |
| 10°   | 2336.2 | 2318.4 | 2267.4 | 2196.2 | 2062.2 | 1865.2 | 1652.8 | 1455.9 | 1299.2 | 1255.3 | 1238.7 |
| 12.5° | 2435.9 | 2420.5 | 2352.9 | 2221.2 | 1928.1 | 1570.9 | 1245.8 | 1001.4 | 849.5  | 811.6  | 800.9  |
| 15°   | 2554.6 | 2532.0 | 2438.3 | 2183.2 | 1688.4 | 1193.6 | 855.5  | 710.7  | 656.1  | 649.0  | 641.9  |
| 17.5° | 2680.3 | 2643.6 | 2514.2 | 2046.7 | 1365.7 | 848.4  | 660.9  | 619.4  | 595.6  | 588.5  | 585.0  |
| 20°   | 2795.4 | 2748.0 | 2559.3 | 1840.3 | 1020.4 | 660.9  | 592.1  | 564.8  | 543.4  | 535.1  | 530.4  |
| 22.5° | 2910.5 | 2842.9 | 2559.3 | 1559.1 | 765.3  | 586.1  | 543.4  | 518.5  | 493.6  | 482.9  | 477.0  |
| 25°   | 3030.4 | 2940.2 | 2514.2 | 1245.8 | 615.8  | 537.5  | 497.1  | 469.9  | 448.5  | 435.5  | 430.7  |
| 27.5° | 3146.6 | 3022.1 | 2411.0 | 949.2  | 548.2  | 494.8  | 454.4  | 428.3  | 408.2  | 398.7  | 398.7  |
| 30°   | 3257.0 | 3102.7 | 2266.2 | 720.2  | 504.3  | 453.2  | 415.3  | 392.7  | 372.6  | 363.1  | 364.3  |
| 32.5° | 3406.5 | 3204.8 | 2112.0 | 590.9  | 466.3  | 414.1  | 379.7  | 358.3  | 340.5  | 333.4  | 333.4  |
| 35°   | 3614.1 | 3355.5 | 1979.1 | 580.2  | 434.3  | 382.1  | 347.6  | 327.5  | 309.7  | 303.7  | 303.7  |
| 37.5° | 3908.4 | 3598.7 | 1909.1 | 651.4  | 408.2  | 353.6  | 321.5  | 300.2  | 283.6  | 278.8  | 277.6  |
| 40°   | 4271.4 | 3928.5 | 1947.1 | 722.6  | 390.4  | 328.7  | 297.8  | 276.5  | 262.2  | 256.3  | 255.1  |
| 42.5° | 4702.2 | 4335.5 | 2157.1 | 777.2  | 378.5  | 307.3  | 275.3  | 251.5  | 242.0  | 239.7  | 239.7  |
| 45°   | 5196.9 | 4782.8 | 2478.6 | 835.3  | 359.5  | 287.1  | 252.7  | 234.9  | 227.8  | 226.6  | 225.4  |
| 47.5° | 5759.3 | 5274.1 | 2851.2 | 907.7  | 340.5  | 268.2  | 234.9  | 223.1  | 217.1  | 214.8  | 214.8  |
| 50°   | 6317.0 | 5768.8 | 3234.4 | 948.0  | 325.1  | 250.4  | 220.7  | 211.2  | 206.5  | 205.3  | 205.3  |
| 52.5° | 6900.8 | 6277.8 | 3544.1 | 910.1  | 312.1  | 236.1  | 208.8  | 201.7  | 197.0  | 195.8  | 195.8  |
| 55°   | 7457.2 | 6689.6 | 3597.5 | 772.4  | 285.9  | 221.9  | 195.8  | 192.2  | 186.3  | 186.3  | 185.1  |
| 57.5° | 7936.6 | 6896.0 | 3220.2 | 567.2  | 259.8  | 200.5  | 182.7  | 179.2  | 174.4  | 173.2  | 172.0  |
| 60°   | 8376.8 | 6836.7 | 2485.7 | 382.1  | 231.4  | 179.2  | 166.1  | 163.7  | 159.0  | 153.1  | 151.9  |
| 62.5° | 8624.8 | 6575.7 | 1700.3 | 249.2  | 202.9  | 156.6  | 147.1  | 145.9  | 135.3  | 123.4  | 121.0  |
| 65°   | 8718.5 | 6039.4 | 1060.7 | 181.5  | 169.7  | 134.1  | 127.0  | 124.6  | 109.2  | 96.1   | 94.9   |
| 67.5° | 8636.6 | 5156.6 | 535.1  | 143.6  | 134.1  | 111.5  | 104.4  | 104.4  | 93.7   | 81.9   | 80.7   |
| 70°   | 8309.2 | 3865.7 | 225.4  | 115.1  | 103.2  | 85.4   | 85.4   | 90.2   | 79.5   | 66.4   | 65.3   |
| 72.5° | 7598.4 | 2600.8 | 119.8  | 87.8   | 77.1   | 60.5   | 70.0   | 73.6   | 62.9   | 49.8   | 49.8   |
| 75°   | 6040.5 | 1586.4 | 83.1   | 65.3   | 48.6   | 42.7   | 53.4   | 55.8   | 42.7   | 33.2   | 32.0   |
| 77.5° | 4131.4 | 911.2  | 55.8   | 41.5   | 30.8   | 24.9   | 36.8   | 34.4   | 22.5   | 15.4   | 16.6   |
| 80°   | 1814.2 | 379.7  | 32.0   | 19.0   | 11.9   | 9.5    | 13.1   | 9.5    | 7.1    | 4.7    | 4.7    |
| 82.5° | 212.4  | 89.0   | 11.9   | 7.1    | 4.7    | 2.4    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 43.9   | 10.7   | 5.9    | 2.4    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.3    | 2.4    | 1.2    | 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)