

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: P452793

Luminaire Tested: **GALN-SA3D-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452793  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20856 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

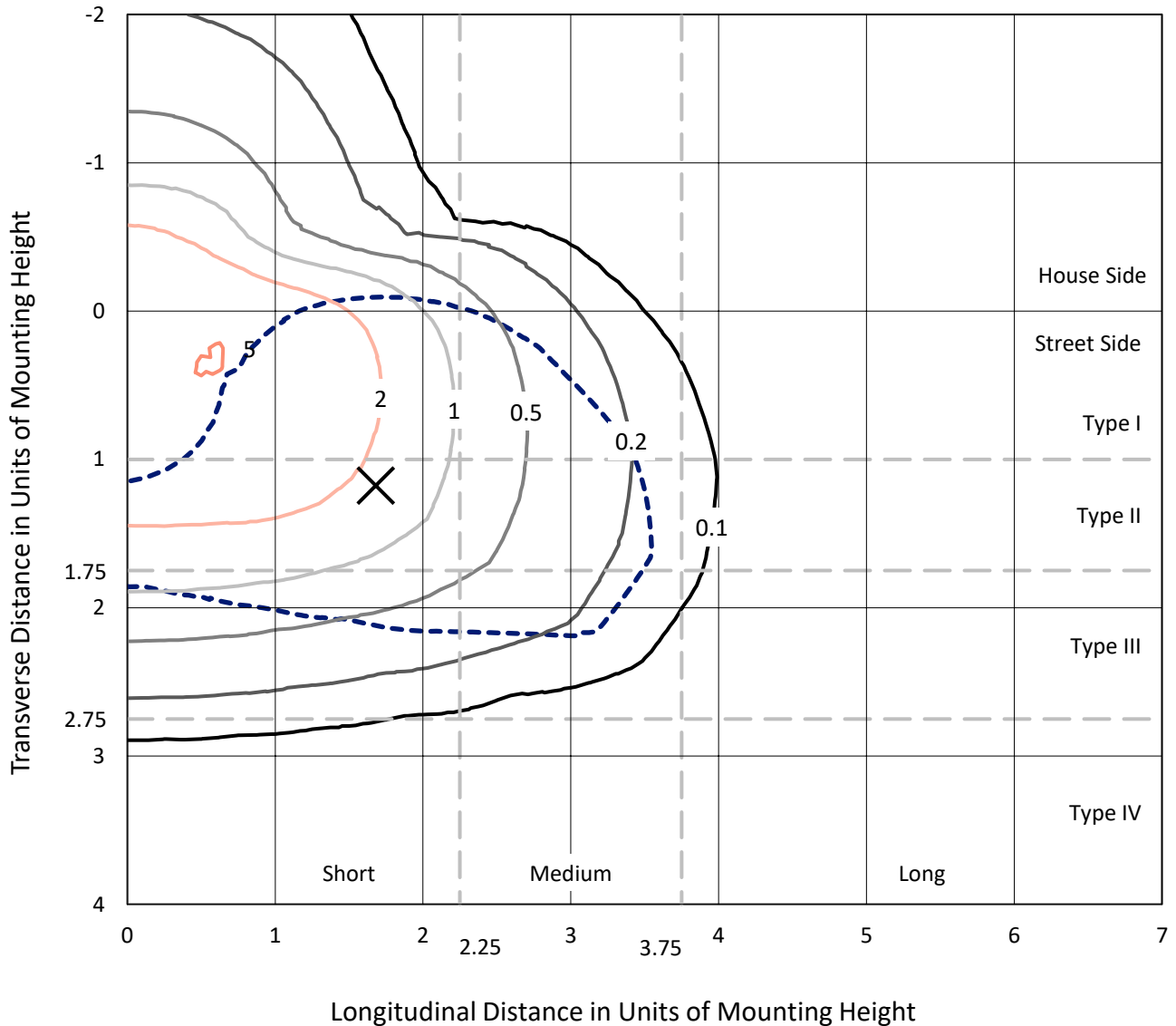
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

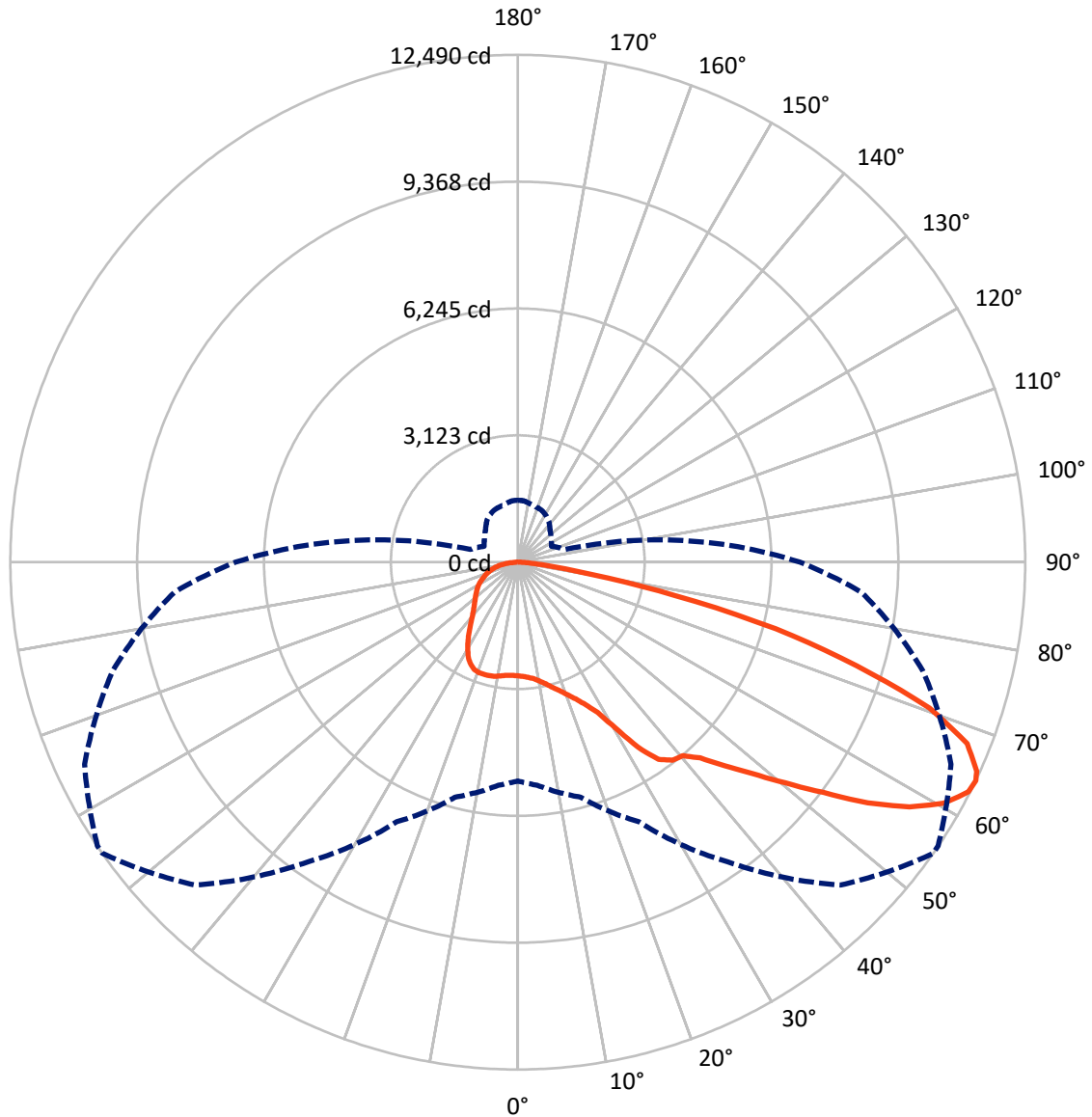
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5066.3   | 0.0    | 5066.3  |
|                    | % Fixture | 24.3     | 0.0    | 24.3    |
| <b>Street Side</b> | Lumens    | 15789.7  | 0.0    | 15789.7 |
|                    | % Fixture | 75.7     | 0.0    | 75.7    |
| <b>Total</b>       | Lumens    | 20856.0  | 0.0    | 20856.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 272.2   | 1.3       |
| 10°-20°   | 858.9   | 4.1       |
| 20°-30°   | 1529.0  | 7.3       |
| 30°-40°   | 2352.5  | 11.3      |
| 40°-50°   | 3334.9  | 16.0      |
| 50°-60°   | 4827.2  | 23.1      |
| 60°-70°   | 4995.6  | 24.0      |
| 70°-80°   | 2339.4  | 11.2      |
| 80°-90°   | 346.3   | 1.7       |
| 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°    | 20856.0 | 100.0     |
| 0°-180°   | 20856.0 | 100.0     |

**Coefficient of Utilization**



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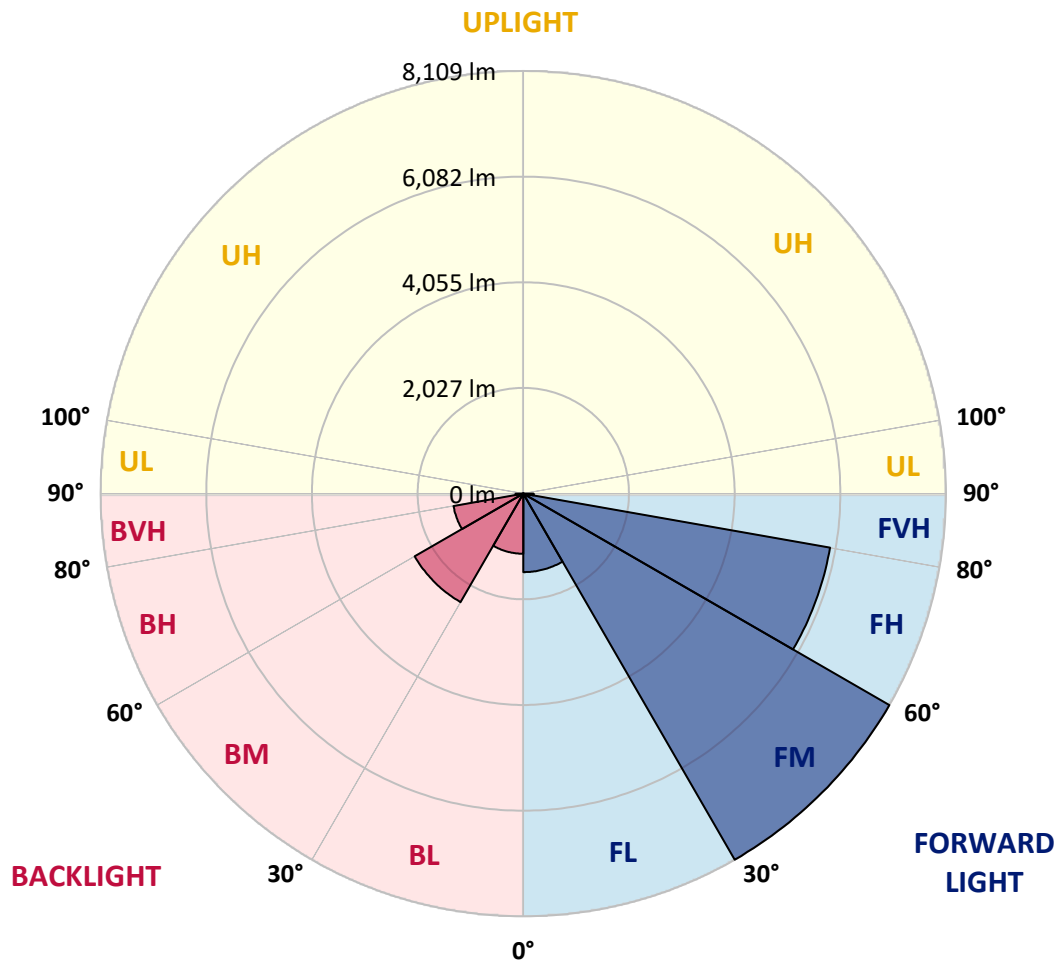
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1506.1 | 7.2       |                         |      |         |
| FM   | (30°-60°)   | 8109.4 | 38.9      |                         |      |         |
| FH   | (60°-80°)   | 5975.9 | 28.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 198.3  | 1.0       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1153.9 | 5.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2405.2 | 11.5      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1359.2 | 6.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 148.0  | 0.7       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 56°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 2798.2 | 2798.2 | 2798.2 | 2798.2 | 2798.2 | 2798.2  | 2798.2  | 2798.2  | 2798.2  | 2798.2  | 2798.2 |
| 2.5°  | 2829.6 | 2828.5 | 2832.0 | 2828.5 | 2830.8 | 2822.7  | 2819.2  | 2821.5  | 2818.0  | 2812.2  | 2801.7 |
| 5°    | 2864.5 | 2863.3 | 2864.5 | 2859.9 | 2862.2 | 2857.5  | 2849.4  | 2851.7  | 2845.9  | 2833.1  | 2818.0 |
| 7.5°  | 2923.8 | 2919.2 | 2919.2 | 2918.0 | 2913.3 | 2906.4  | 2900.5  | 2898.2  | 2892.4  | 2876.1  | 2852.9 |
| 10°   | 3000.5 | 3000.5 | 3001.7 | 2992.4 | 2998.2 | 2985.4  | 2979.6  | 2978.4  | 2958.7  | 2937.8  | 2905.2 |
| 12.5° | 3101.7 | 3107.5 | 3104.0 | 3099.3 | 3097.0 | 3092.4  | 3072.6  | 3077.3  | 3055.2  | 3019.1  | 2979.6 |
| 15°   | 3227.2 | 3236.5 | 3230.7 | 3228.4 | 3222.6 | 3205.1  | 3197.0  | 3193.5  | 3164.4  | 3112.1  | 3059.8 |
| 17.5° | 3393.5 | 3381.8 | 3377.2 | 3371.4 | 3347.0 | 3334.2  | 3320.2  | 3317.9  | 3292.3  | 3230.7  | 3149.3 |
| 20°   | 3538.8 | 3555.1 | 3545.8 | 3539.9 | 3515.5 | 3491.1  | 3480.7  | 3477.2  | 3455.1  | 3387.7  | 3257.5 |
| 22.5° | 3712.0 | 3715.5 | 3719.0 | 3705.0 | 3693.4 | 3674.8  | 3656.2  | 3650.4  | 3642.3  | 3572.5  | 3413.2 |
| 25°   | 3896.9 | 3910.8 | 3899.2 | 3885.2 | 3871.3 | 3870.1  | 3887.6  | 3885.2  | 3881.7  | 3814.3  | 3620.2 |
| 27.5° | 4197.9 | 4210.7 | 4214.2 | 4199.1 | 4145.6 | 4150.3  | 4189.8  | 4202.6  | 4256.1  | 4144.5  | 3886.4 |
| 30°   | 4367.7 | 4380.5 | 4409.5 | 4466.5 | 4551.4 | 4625.8  | 4721.1  | 4750.2  | 4801.3  | 4590.9  | 4202.6 |
| 32.5° | 4472.3 | 4477.0 | 4529.3 | 4635.1 | 4889.7 | 5167.5  | 5426.8  | 5437.2  | 5469.8  | 5174.5  | 4492.1 |
| 35°   | 4637.4 | 4640.9 | 4682.7 | 4799.0 | 5097.8 | 5560.5  | 5961.5  | 5974.3  | 5947.6  | 5355.8  | 4626.9 |
| 37.5° | 4840.8 | 4850.1 | 4876.9 | 4973.4 | 5330.3 | 5889.5  | 6183.6  | 6174.3  | 5937.1  | 5500.0  | 4865.3 |
| 40°   | 5137.3 | 5137.3 | 5105.9 | 5236.1 | 5575.6 | 6077.8  | 6261.5  | 6245.2  | 6182.4  | 5917.4  | 5228.0 |
| 42.5° | 5398.9 | 5394.2 | 5468.6 | 5557.0 | 5882.5 | 6368.4  | 6588.1  | 6614.9  | 6718.3  | 6441.7  | 5640.7 |
| 45°   | 5739.5 | 5760.4 | 5802.3 | 5962.7 | 6404.5 | 6864.8  | 7148.5  | 7174.1  | 7320.5  | 7059.0  | 6123.1 |
| 47.5° | 6083.6 | 6090.6 | 6221.9 | 6435.8 | 7050.8 | 7537.9  | 7770.5  | 7812.3  | 7946.0  | 7780.9  | 6642.8 |
| 50°   | 6327.7 | 6394.0 | 6604.4 | 6941.6 | 7717.0 | 8358.7  | 8540.1  | 8590.0  | 8826.0  | 8566.8  | 7248.5 |
| 52.5° | 6585.8 | 6650.9 | 6907.8 | 7421.7 | 8481.9 | 9198.1  | 9421.3  | 9455.0  | 9700.3  | 9362.0  | 7868.1 |
| 55°   | 6806.7 | 6867.2 | 7159.0 | 7847.2 | 9091.1 | 10054.9 | 10459.4 | 10419.9 | 10537.3 | 9974.6  | 8345.9 |
| 57.5° | 6842.7 | 6891.6 | 7258.9 | 8119.2 | 9549.1 | 10789.6 | 11369.7 | 11392.9 | 11256.9 | 10432.7 | 8740.0 |
| 60°   | 6563.7 | 6663.7 | 7085.7 | 8090.2 | 9754.9 | 11301.1 | 12048.6 | 12064.9 | 11678.9 | 10667.5 | 8897.0 |
| 62.5° | 6069.6 | 6059.2 | 6569.5 | 7622.8 | 9466.6 | 11417.4 | 12448.5 | 12431.1 | 11844.0 | 10554.7 | 8744.7 |
| 64°   | 5387.2 | 5512.8 | 5989.4 | 7048.5 | 9001.6 | 11238.3 | 12490.4 | 12481.1 | 11765.0 | 10319.9 | 8485.4 |
| 65°   | 4971.0 | 4964.1 | 5434.9 | 6578.8 | 8538.9 | 10968.6 | 12416.0 | 12403.2 | 11599.9 | 10109.5 | 8284.3 |
| 67.5° | 3588.8 | 3605.1 | 4070.1 | 5076.8 | 6941.6 | 9914.2  | 11931.2 | 11883.5 | 10948.8 | 9412.0  | 7519.3 |
| 70°   | 2174.0 | 2183.3 | 2548.3 | 3367.9 | 4982.7 | 8014.6  | 10754.7 | 10757.0 | 9952.5  | 8370.3  | 6399.8 |
| 72.5° | 1145.1 | 1169.5 | 1316.0 | 1912.4 | 3026.1 | 5623.2  | 8724.9  | 8931.8  | 8544.7  | 7143.8  | 5055.9 |
| 75°   | 637.1  | 640.6  | 744.0  | 942.8  | 1543.9 | 3147.0  | 6557.9  | 6617.2  | 6764.8  | 5749.9  | 3738.7 |
| 77.5° | 485.9  | 492.9  | 525.5  | 609.2  | 840.5  | 1459.0  | 3968.9  | 4266.5  | 4767.6  | 4053.8  | 2133.3 |
| 80°   | 394.1  | 401.1  | 429.0  | 479.0  | 559.2  | 691.7   | 1843.8  | 2004.2  | 2551.8  | 1799.6  | 832.4  |
| 82.5° | 306.9  | 302.3  | 338.3  | 370.9  | 406.9  | 409.2   | 756.8   | 837.0   | 1039.3  | 774.3   | 360.4  |
| 85°   | 227.9  | 227.9  | 256.9  | 249.9  | 262.7  | 239.5   | 333.7   | 368.5   | 416.2   | 329.0   | 167.4  |
| 87.5° | 90.7   | 100.0  | 168.6  | 151.1  | 117.4  | 94.2    | 123.2   | 130.2   | 144.2   | 129.0   | 69.8   |
| 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°    | 2798.2 | 2798.2 | 2798.2 | 2798.2 | 2798.2 | 2798.2 | 2798.2 | 2798.2 | 2798.2 | 2798.2 | 2798.2 |
| 2.5°  | 2802.9 | 2806.4 | 2798.2 | 2792.4 | 2790.1 | 2786.6 | 2783.1 | 2784.3 | 2788.9 | 2793.6 | 2792.4 |
| 5°    | 2816.8 | 2818.0 | 2804.1 | 2797.1 | 2792.4 | 2787.8 | 2787.8 | 2791.3 | 2800.6 | 2807.5 | 2807.5 |
| 7.5°  | 2851.7 | 2851.7 | 2832.0 | 2819.2 | 2812.2 | 2804.1 | 2801.7 | 2802.9 | 2809.9 | 2819.2 | 2820.3 |
| 10°   | 2906.4 | 2901.7 | 2876.1 | 2856.4 | 2843.6 | 2823.8 | 2806.4 | 2797.1 | 2800.6 | 2806.4 | 2806.4 |
| 12.5° | 2972.6 | 2959.8 | 2927.3 | 2900.5 | 2869.2 | 2832.0 | 2795.9 | 2777.3 | 2776.2 | 2782.0 | 2779.6 |
| 15°   | 3043.5 | 3029.6 | 2984.3 | 2935.4 | 2880.8 | 2826.1 | 2783.1 | 2756.4 | 2735.5 | 2729.7 | 2742.4 |
| 17.5° | 3126.1 | 3097.0 | 3034.2 | 2966.8 | 2885.4 | 2814.5 | 2747.1 | 2692.5 | 2655.3 | 2644.8 | 2648.3 |
| 20°   | 3226.1 | 3187.7 | 3102.8 | 2997.0 | 2881.9 | 2772.7 | 2668.0 | 2594.8 | 2534.3 | 2515.7 | 2518.1 |
| 22.5° | 3364.4 | 3298.1 | 3173.7 | 3012.2 | 2852.9 | 2693.6 | 2548.3 | 2453.0 | 2379.7 | 2350.7 | 2368.1 |
| 25°   | 3521.3 | 3449.3 | 3241.2 | 3008.7 | 2777.3 | 2566.9 | 2406.5 | 2282.1 | 2215.8 | 2172.8 | 2182.1 |
| 27.5° | 3737.6 | 3609.7 | 3313.3 | 2977.3 | 2669.2 | 2412.3 | 2226.3 | 2108.9 | 2048.4 | 2026.3 | 2036.8 |
| 30°   | 4014.3 | 3817.8 | 3391.1 | 2892.4 | 2498.3 | 2217.0 | 2044.9 | 1968.2 | 1932.1 | 1904.2 | 1913.5 |
| 32.5° | 4214.2 | 3964.3 | 3408.6 | 2749.4 | 2313.5 | 2039.1 | 1921.7 | 1864.7 | 1825.2 | 1798.5 | 1804.3 |
| 35°   | 4357.2 | 4088.7 | 3400.4 | 2573.9 | 2120.5 | 1892.6 | 1824.0 | 1777.5 | 1713.6 | 1655.5 | 1645.0 |
| 37.5° | 4549.0 | 4244.5 | 3341.2 | 2382.1 | 1929.8 | 1793.8 | 1745.0 | 1659.0 | 1567.1 | 1489.2 | 1485.7 |
| 40°   | 4843.2 | 4427.0 | 3214.4 | 2156.5 | 1767.1 | 1720.6 | 1661.3 | 1549.7 | 1450.9 | 1388.1 | 1383.4 |
| 42.5° | 5146.6 | 4595.5 | 3042.4 | 1919.4 | 1633.4 | 1643.8 | 1571.8 | 1461.3 | 1400.9 | 1360.2 | 1355.5 |
| 45°   | 5517.4 | 4778.1 | 2856.4 | 1713.6 | 1534.6 | 1571.8 | 1493.9 | 1429.9 | 1393.9 | 1367.2 | 1360.2 |
| 47.5° | 5918.5 | 4965.2 | 2647.1 | 1528.7 | 1450.9 | 1505.5 | 1461.3 | 1432.3 | 1412.5 | 1393.9 | 1385.8 |
| 50°   | 6351.0 | 5174.5 | 2450.6 | 1379.9 | 1375.3 | 1436.9 | 1457.8 | 1447.4 | 1435.7 | 1429.9 | 1423.0 |
| 52.5° | 6825.3 | 5388.4 | 2285.6 | 1275.3 | 1309.0 | 1388.1 | 1459.0 | 1467.1 | 1467.1 | 1463.6 | 1459.0 |
| 55°   | 7146.2 | 5537.2 | 2118.2 | 1190.4 | 1241.6 | 1348.6 | 1456.7 | 1488.1 | 1499.7 | 1495.0 | 1490.4 |
| 57.5° | 7383.3 | 5618.6 | 1907.7 | 1117.2 | 1184.6 | 1310.2 | 1443.9 | 1490.4 | 1502.0 | 1507.8 | 1505.5 |
| 60°   | 7432.1 | 5543.0 | 1632.2 | 1040.5 | 1123.0 | 1254.4 | 1397.4 | 1455.5 | 1470.6 | 1506.7 | 1510.1 |
| 62.5° | 7212.4 | 5310.5 | 1357.9 | 964.9  | 1047.5 | 1169.5 | 1334.6 | 1416.0 | 1446.2 | 1502.0 | 1507.8 |
| 64°   | 6942.7 | 5050.1 | 1205.6 | 917.2  | 998.6  | 1121.9 | 1303.2 | 1405.5 | 1445.0 | 1519.4 | 1524.1 |
| 65°   | 6745.1 | 4860.6 | 1110.2 | 887.0  | 967.2  | 1090.5 | 1285.8 | 1409.0 | 1455.5 | 1546.2 | 1553.2 |
| 67.5° | 6017.3 | 4208.4 | 918.4  | 816.1  | 892.8  | 1037.0 | 1289.3 | 1438.1 | 1453.2 | 1556.6 | 1555.5 |
| 70°   | 4979.2 | 3350.5 | 769.6  | 751.0  | 820.8  | 994.0  | 1275.3 | 1391.6 | 1392.7 | 1461.3 | 1445.0 |
| 72.5° | 3728.3 | 2476.2 | 667.3  | 683.6  | 740.5  | 891.7  | 1204.4 | 1328.8 | 1309.0 | 1318.3 | 1302.1 |
| 75°   | 2561.1 | 1638.0 | 574.3  | 611.5  | 656.8  | 788.2  | 1104.4 | 1206.7 | 1175.3 | 1163.7 | 1152.1 |
| 77.5° | 1367.2 | 905.6  | 477.8  | 540.6  | 570.8  | 681.3  | 963.7  | 1062.6 | 1030.0 | 984.7  | 969.6  |
| 80°   | 553.4  | 426.7  | 384.8  | 447.6  | 465.0  | 548.7  | 802.2  | 863.8  | 839.4  | 760.3  | 734.7  |
| 82.5° | 277.8  | 255.8  | 302.3  | 352.3  | 353.4  | 391.8  | 596.4  | 654.5  | 599.9  | 503.4  | 481.3  |
| 85°   | 145.3  | 150.0  | 208.1  | 247.6  | 218.6  | 211.6  | 358.1  | 396.4  | 363.9  | 316.2  | 284.8  |
| 87.5° | 52.3   | 60.5   | 109.3  | 108.1  | 76.7   | 40.7   | 79.1   | 38.4   | 20.9   | 12.8   | 16.3   |
| 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)