

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: P952021

Luminaire Tested: **GALN-SB6A-730-U-SLL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P952021  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB6A-730-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 20760 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 170.9  
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



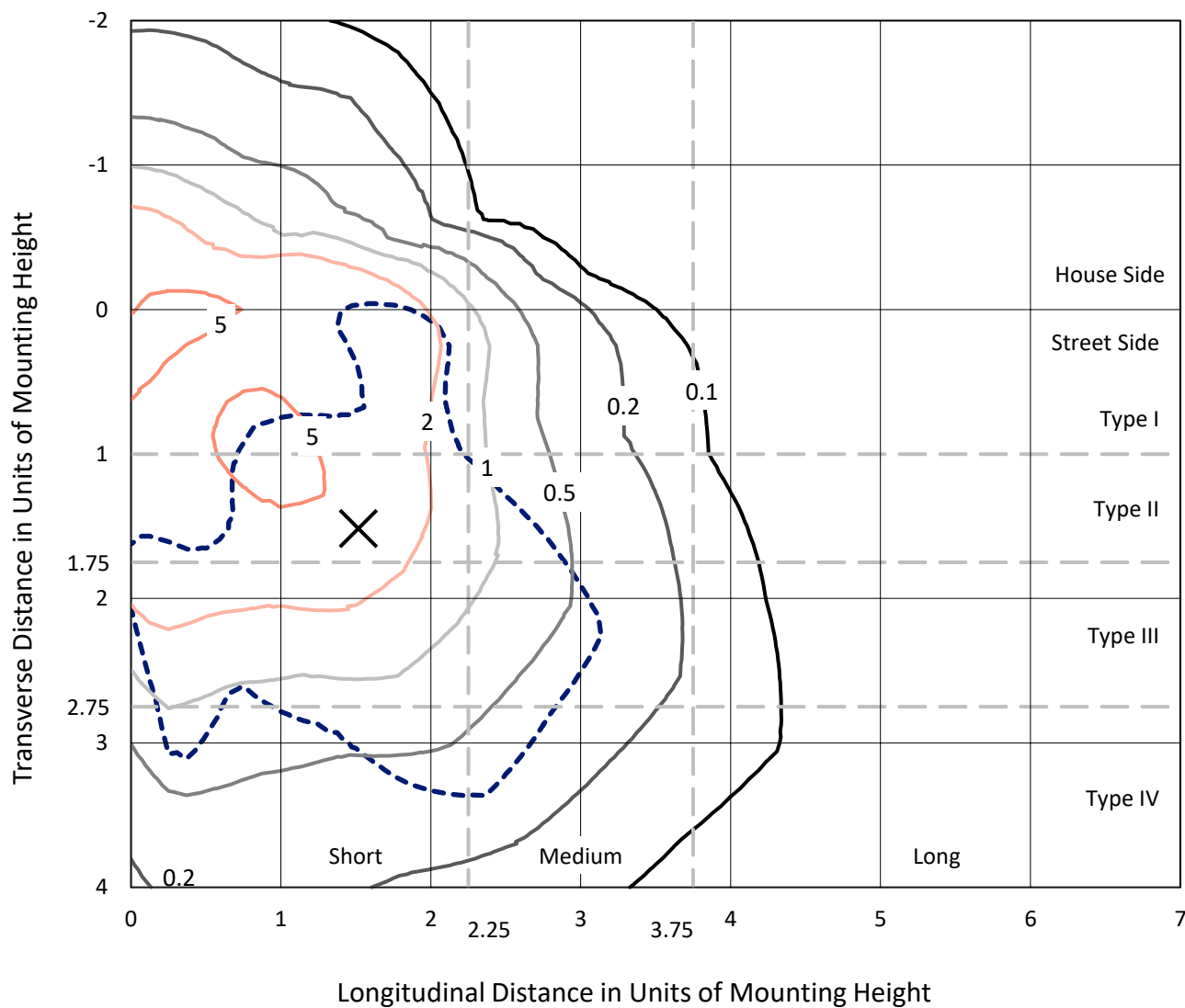
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

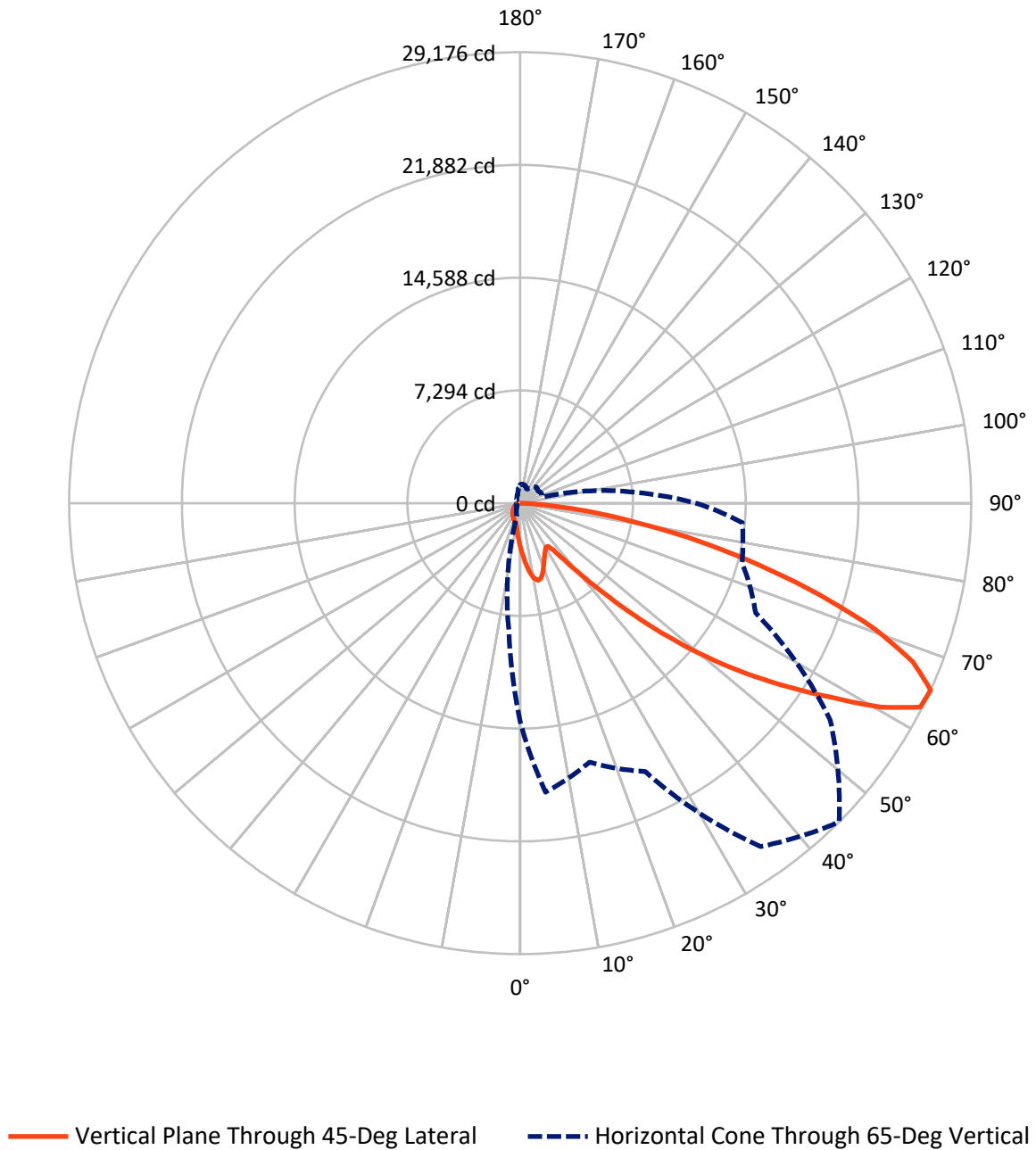
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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    | 4126.5   | 0.0    | 4126.5  |
|                    | % Fixture | 19.9     | 0.0    | 19.9    |
| <b>Street Side</b> | Lumens    | 16633.6  | 0.0    | 16633.6 |
|                    | % Fixture | 80.1     | 0.0    | 80.1    |
| <b>Total</b>       | Lumens    | 20760.0  | 0.0    | 20760.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 283.0   | 1.4       |
| 10°-20°   | 848.4   | 4.1       |
| 20°-30°   | 1249.9  | 6.0       |
| 30°-40°   | 1605.7  | 7.7       |
| 40°-50°   | 2596.9  | 12.5      |
| 50°-60°   | 4554.0  | 21.9      |
| 60°-70°   | 5698.3  | 27.4      |
| 70°-80°   | 3329.8  | 16.0      |
| 80°-90°   | 594.1   | 2.9       |
| 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°    | 20760.0 | 100.0     |
| 0°-180°   | 20760.0 | 100.0     |

**Coefficient of Utilization**



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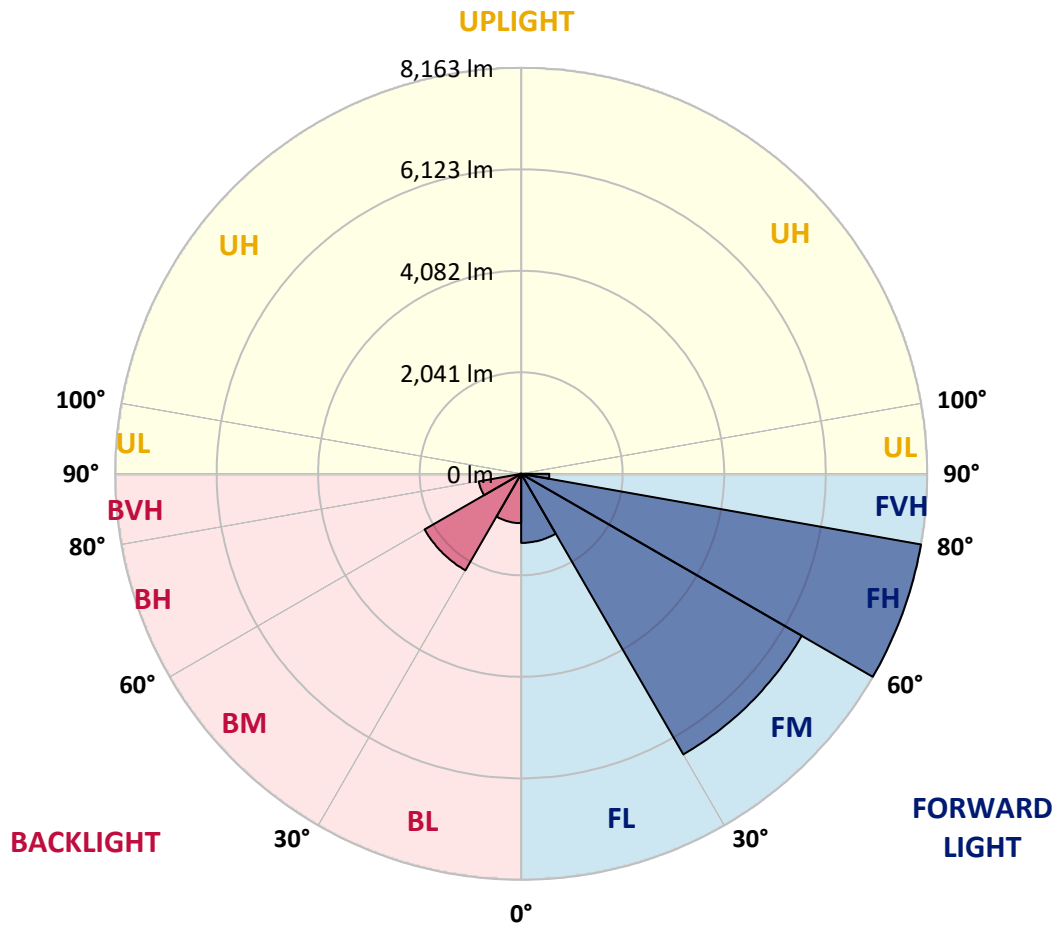
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1389.1 | 6.7       |                         |      |          |
| FM   | (30°-60°)   | 6514.7 | 31.4      |                         |      |          |
| FH   | (60°-80°)   | 8163.5 | 39.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 566.3  | 2.7       |                         |      | G4/750   |
| BL   | (0°-30°)    | 992.2  | 4.8       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 2241.9 | 10.8      | B2/2500                 |      |          |
| BH   | (60°-80°)   | 864.6  | 4.2       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 27.8   | 0.1       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2874.6  | 2874.6  | 2874.6  | 2874.6  | 2874.6  | 2874.6  | 2874.6  | 2874.6  | 2874.6  | 2874.6  | 2874.6  |
| 2.5°  | 3220.7  | 3245.0  | 3299.3  | 3328.0  | 3372.3  | 3375.1  | 3375.1  | 3336.5  | 3335.1  | 3256.4  | 3247.9  |
| 5°    | 3599.7  | 3656.9  | 3785.6  | 3918.6  | 3947.2  | 3954.4  | 3940.1  | 3862.8  | 3805.6  | 3652.6  | 3619.7  |
| 7.5°  | 3975.8  | 4085.9  | 4281.9  | 4459.2  | 4516.4  | 4516.4  | 4482.1  | 4356.2  | 4239.0  | 4017.3  | 3934.3  |
| 10°   | 4287.6  | 4426.3  | 4692.3  | 4891.1  | 4956.9  | 4942.6  | 4872.5  | 4713.8  | 4552.2  | 4283.3  | 4174.6  |
| 12.5° | 4493.5  | 4649.4  | 4941.2  | 5101.3  | 5168.6  | 5131.4  | 5051.3  | 4896.8  | 4726.6  | 4443.5  | 4320.5  |
| 15°   | 4596.5  | 4759.5  | 5012.7  | 5097.0  | 5078.5  | 5039.8  | 5029.8  | 4955.5  | 4826.7  | 4562.2  | 4427.7  |
| 17.5° | 4640.8  | 4792.4  | 4968.3  | 4915.4  | 4758.1  | 4728.1  | 4828.2  | 4922.6  | 4891.1  | 4665.1  | 4539.3  |
| 20°   | 4682.3  | 4809.6  | 4862.5  | 4628.0  | 4353.4  | 4326.2  | 4517.8  | 4786.7  | 4924.0  | 4761.0  | 4645.1  |
| 22.5° | 4739.5  | 4818.2  | 4709.5  | 4324.8  | 4028.7  | 3965.8  | 4177.5  | 4582.2  | 4934.0  | 4882.5  | 4766.7  |
| 25°   | 4818.2  | 4839.6  | 4540.7  | 4037.3  | 3739.8  | 3676.9  | 3874.3  | 4354.8  | 4916.8  | 5014.1  | 4915.4  |
| 27.5° | 4912.6  | 4868.2  | 4379.1  | 3797.0  | 3509.6  | 3450.9  | 3648.3  | 4136.0  | 4868.2  | 5145.7  | 5075.6  |
| 30°   | 5035.5  | 4905.4  | 4218.9  | 3611.1  | 3345.1  | 3302.2  | 3492.4  | 3947.2  | 4808.2  | 5313.0  | 5274.4  |
| 32.5° | 5160.0  | 4921.1  | 4070.2  | 3502.4  | 3307.9  | 3323.7  | 3479.5  | 3845.7  | 4742.4  | 5473.2  | 5491.8  |
| 35°   | 5294.4  | 4971.2  | 3997.3  | 3609.7  | 3618.3  | 3755.6  | 3819.9  | 3940.1  | 4732.4  | 5690.6  | 5763.5  |
| 37.5° | 5477.5  | 5082.7  | 4084.5  | 4143.1  | 4440.6  | 4725.2  | 4672.3  | 4402.0  | 4848.2  | 6015.2  | 6151.1  |
| 40°   | 5740.6  | 5278.7  | 4464.9  | 5051.3  | 5662.0  | 6123.9  | 5922.2  | 5241.5  | 5202.9  | 6482.9  | 6685.9  |
| 42.5° | 6123.9  | 5590.4  | 5139.9  | 6161.1  | 7196.5  | 7957.3  | 7416.7  | 6324.1  | 5823.6  | 7150.7  | 7409.6  |
| 45°   | 6690.2  | 6095.3  | 5956.6  | 7332.4  | 9088.6  | 10287.0 | 9163.0  | 7478.2  | 6693.1  | 8161.8  | 8364.9  |
| 47.5° | 7475.4  | 6837.5  | 6721.7  | 8566.6  | 11388.3 | 12938.5 | 11099.4 | 8548.0  | 7682.8  | 9540.5  | 9587.7  |
| 50°   | 8518.0  | 7837.2  | 7446.8  | 9916.6  | 13909.6 | 15641.5 | 13034.4 | 9580.6  | 8816.9  | 11225.2 | 11170.9 |
| 52.5° | 9893.8  | 9231.6  | 8292.0  | 11202.3 | 16502.5 | 18287.3 | 14977.9 | 10487.3 | 10224.1 | 13180.2 | 13068.7 |
| 55°   | 11770.1 | 11329.6 | 9447.6  | 12429.4 | 19093.9 | 20948.8 | 16845.7 | 11342.5 | 12083.3 | 15502.8 | 14827.8 |
| 57.5° | 14098.4 | 14413.0 | 11113.7 | 13852.4 | 21423.6 | 23691.8 | 18722.1 | 12538.1 | 14497.4 | 18099.9 | 15848.9 |
| 60°   | 15600.0 | 18513.3 | 14304.3 | 15956.2 | 24070.8 | 26793.8 | 21293.5 | 14812.0 | 17034.5 | 19031.0 | 15654.4 |
| 62.5° | 15236.8 | 19817.5 | 18125.7 | 18642.0 | 26504.9 | 29049.1 | 23813.4 | 17096.0 | 17512.2 | 17659.5 | 14155.6 |
| 65°   | 14122.7 | 18765.0 | 17346.3 | 19164.0 | 27121.3 | 29176.4 | 24487.0 | 16801.4 | 14854.9 | 14417.3 | 11378.3 |
| 67.5° | 12589.6 | 17516.4 | 15494.2 | 17779.6 | 26007.2 | 27397.3 | 23232.7 | 14862.1 | 11479.8 | 10819.1 | 8254.8  |
| 70°   | 10934.9 | 16134.9 | 14278.6 | 16226.4 | 23883.5 | 24296.8 | 21100.4 | 13071.5 | 8443.6  | 7306.6  | 5297.3  |
| 72.5° | 9364.6  | 14696.2 | 13446.2 | 14634.7 | 21050.3 | 20195.1 | 18324.5 | 11488.4 | 6148.2  | 5270.1  | 3765.6  |
| 75°   | 7758.5  | 12573.9 | 12260.7 | 12744.0 | 17324.8 | 15907.5 | 15225.3 | 9511.9  | 4825.3  | 3812.8  | 2598.6  |
| 77.5° | 5986.6  | 9825.1  | 10545.9 | 10205.5 | 12194.9 | 11815.9 | 11801.6 | 7147.9  | 3525.3  | 2544.2  | 1628.9  |
| 80°   | 4097.4  | 6847.5  | 8239.1  | 7199.4  | 7914.4  | 7721.4  | 8888.4  | 4795.3  | 2557.1  | 1531.7  | 906.7   |
| 82.5° | 2408.4  | 4168.9  | 5734.9  | 3485.3  | 4376.3  | 4492.1  | 5293.0  | 2332.6  | 1504.5  | 353.2   | 197.4   |
| 85°   | 976.8   | 1646.1  | 2242.5  | 1364.4  | 2110.9  | 1780.5  | 2009.4  | 655.0   | 419.0   | 8.6     | 0.0     |
| 87.5° | 246.0   | 526.3   | 369.0   | 153.0   | 244.6   | 224.5   | 177.3   | 80.1    | 17.2    | 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     |

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**CANDELA DISTRIBUTION (continued):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2874.6  | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 |
| 2.5°  | 3192.1  | 3159.2 | 3077.7 | 2996.2 | 2930.4 | 2841.7 | 2783.1 | 2713.0 | 2645.8 | 2585.7 | 2574.3 |
| 5°    | 3529.6  | 3420.9 | 3272.2 | 3136.3 | 2997.6 | 2863.2 | 2730.2 | 2590.0 | 2461.3 | 2382.6 | 2332.6 |
| 7.5°  | 3804.2  | 3612.6 | 3415.2 | 3242.1 | 3074.8 | 2917.5 | 2741.6 | 2571.4 | 2369.8 | 2262.5 | 2165.2 |
| 10°   | 4008.7  | 3757.0 | 3498.1 | 3299.3 | 3130.6 | 2977.6 | 2828.8 | 2657.2 | 2414.1 | 2279.7 | 2133.8 |
| 12.5° | 4143.1  | 3844.2 | 3541.0 | 3313.7 | 3124.9 | 3006.2 | 2940.4 | 2873.2 | 2631.5 | 2474.2 | 2262.5 |
| 15°   | 4236.1  | 3905.7 | 3571.1 | 3280.8 | 3049.1 | 2961.8 | 3027.6 | 3104.8 | 2950.4 | 2768.8 | 2492.7 |
| 17.5° | 4337.6  | 3985.8 | 3583.9 | 3192.1 | 2901.8 | 2864.6 | 3034.8 | 3213.5 | 3206.4 | 3026.2 | 2755.9 |
| 20°   | 4444.9  | 4055.9 | 3575.4 | 3049.1 | 2723.0 | 2755.9 | 2973.3 | 3180.6 | 3267.9 | 3170.6 | 2930.4 |
| 22.5° | 4555.0  | 4123.1 | 3542.5 | 2863.2 | 2555.7 | 2658.6 | 2876.0 | 3057.7 | 3160.6 | 3130.6 | 2947.5 |
| 25°   | 4693.7  | 4217.5 | 3493.8 | 2662.9 | 2416.9 | 2560.0 | 2763.0 | 2910.3 | 2981.9 | 2980.4 | 2854.6 |
| 27.5° | 4859.6  | 4343.4 | 3468.1 | 2501.3 | 2318.3 | 2448.4 | 2628.6 | 2760.2 | 2810.2 | 2810.2 | 2710.1 |
| 30°   | 5052.7  | 4492.1 | 3439.5 | 2395.5 | 2261.1 | 2332.6 | 2472.7 | 2601.4 | 2651.5 | 2651.5 | 2567.1 |
| 32.5° | 5267.2  | 4635.1 | 3370.9 | 2331.1 | 2218.2 | 2219.6 | 2308.3 | 2425.5 | 2485.6 | 2494.2 | 2434.1 |
| 35°   | 5524.7  | 4788.1 | 3220.7 | 2279.7 | 2168.1 | 2109.5 | 2152.4 | 2249.6 | 2321.1 | 2339.7 | 2302.5 |
| 37.5° | 5862.2  | 4975.5 | 3006.2 | 2203.9 | 2090.9 | 1993.6 | 2003.6 | 2078.0 | 2156.7 | 2185.3 | 2161.0 |
| 40°   | 6315.5  | 5195.7 | 2783.1 | 2095.2 | 1982.2 | 1866.3 | 1862.1 | 1916.4 | 1993.6 | 2025.1 | 2012.2 |
| 42.5° | 6914.8  | 5460.3 | 2570.0 | 1990.8 | 1850.6 | 1731.9 | 1724.8 | 1767.7 | 1834.9 | 1867.8 | 1862.1 |
| 45°   | 7681.3  | 5784.9 | 2386.9 | 1909.2 | 1721.9 | 1604.6 | 1601.8 | 1637.5 | 1696.2 | 1730.5 | 1723.3 |
| 47.5° | 8746.8  | 6109.6 | 2262.5 | 1866.3 | 1620.4 | 1500.2 | 1505.9 | 1537.4 | 1590.3 | 1614.6 | 1604.6 |
| 50°   | 10135.5 | 6208.3 | 2199.6 | 1866.3 | 1566.0 | 1407.3 | 1435.9 | 1461.6 | 1501.7 | 1516.0 | 1503.1 |
| 52.5° | 11468.3 | 5882.2 | 2142.4 | 1877.8 | 1573.2 | 1328.6 | 1390.1 | 1408.7 | 1443.0 | 1448.7 | 1430.1 |
| 55°   | 12121.9 | 5057.0 | 2063.7 | 1880.6 | 1617.5 | 1261.4 | 1352.9 | 1387.2 | 1400.1 | 1398.7 | 1367.2 |
| 57.5° | 11897.4 | 4088.8 | 1930.7 | 1869.2 | 1647.5 | 1218.5 | 1307.2 | 1372.9 | 1381.5 | 1368.7 | 1310.0 |
| 60°   | 11109.4 | 3010.5 | 1829.2 | 1784.8 | 1636.1 | 1205.6 | 1237.1 | 1341.5 | 1354.3 | 1337.2 | 1241.4 |
| 62.5° | 9787.9  | 2089.4 | 1750.5 | 1598.9 | 1586.0 | 1201.3 | 1127.0 | 1272.8 | 1304.3 | 1280.0 | 1139.8 |
| 65°   | 7705.6  | 1475.9 | 1507.4 | 1401.5 | 1477.3 | 1178.4 | 1012.5 | 1189.9 | 1232.8 | 1195.6 | 998.2  |
| 67.5° | 5214.3  | 1065.5 | 1221.3 | 1270.0 | 1301.4 | 1127.0 | 929.6  | 1095.5 | 1152.7 | 1104.1 | 833.8  |
| 70°   | 2816.0  | 748.0  | 806.6  | 1069.8 | 1105.5 | 1038.3 | 855.2  | 999.7  | 1065.5 | 1012.5 | 679.3  |
| 72.5° | 1663.3  | 537.7  | 564.9  | 859.5  | 921.0  | 913.9  | 772.3  | 888.1  | 968.2  | 905.3  | 552.0  |
| 75°   | 916.7   | 363.3  | 403.3  | 623.5  | 748.0  | 705.1  | 663.6  | 752.3  | 833.8  | 772.3  | 426.2  |
| 77.5° | 410.5   | 217.4  | 280.3  | 409.0  | 587.8  | 483.4  | 513.4  | 586.4  | 662.2  | 597.8  | 284.6  |
| 80°   | 158.7   | 121.6  | 185.9  | 223.1  | 427.6  | 267.4  | 330.4  | 431.9  | 486.3  | 434.8  | 173.0  |
| 82.5° | 20.0    | 54.3   | 80.1   | 87.2   | 248.8  | 141.6  | 191.6  | 271.7  | 267.4  | 231.7  | 87.2   |
| 85°   | 0.0     | 10.0   | 11.4   | 5.7    | 107.3  | 51.5   | 62.9   | 88.7   | 82.9   | 62.9   | 7.2    |
| 87.5° | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.9    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 |
| 2.5°  | 2504.2 | 2452.7 | 2427.0 | 2405.5 | 2425.5 | 2437.0 | 2437.0 | 2485.6 | 2514.2 | 2525.6 | 2605.7 |
| 5°    | 2206.7 | 2110.9 | 2046.5 | 2007.9 | 2020.8 | 2035.1 | 2050.8 | 2112.3 | 2153.8 | 2181.0 | 2305.4 |
| 7.5°  | 1972.2 | 1826.3 | 1736.2 | 1689.0 | 1696.2 | 1706.2 | 1719.0 | 1779.1 | 1820.6 | 1856.3 | 1995.1 |
| 10°   | 1856.3 | 1650.4 | 1531.7 | 1474.5 | 1464.5 | 1458.8 | 1454.5 | 1490.2 | 1521.7 | 1550.3 | 1687.6 |
| 12.5° | 1862.1 | 1574.6 | 1430.1 | 1360.1 | 1330.0 | 1295.7 | 1268.5 | 1274.3 | 1294.3 | 1330.0 | 1417.3 |
| 15°   | 1935.0 | 1550.3 | 1377.2 | 1290.0 | 1239.9 | 1199.9 | 1167.0 | 1159.8 | 1167.0 | 1172.7 | 1227.1 |
| 17.5° | 2033.7 | 1547.4 | 1331.5 | 1222.8 | 1171.3 | 1138.4 | 1108.4 | 1098.4 | 1099.8 | 1106.9 | 1121.2 |
| 20°   | 2112.3 | 1538.8 | 1280.0 | 1158.4 | 1112.7 | 1084.1 | 1054.0 | 1044.0 | 1046.9 | 1048.3 | 1064.0 |
| 22.5° | 2153.8 | 1526.0 | 1222.8 | 1094.1 | 1055.4 | 1026.8 | 999.7  | 998.2  | 998.2  | 1006.8 | 1018.3 |
| 25°   | 2153.8 | 1498.8 | 1171.3 | 1032.6 | 998.2  | 972.5  | 939.6  | 945.3  | 948.2  | 959.6  | 976.8  |
| 27.5° | 2102.3 | 1447.3 | 1129.8 | 979.7  | 943.9  | 918.2  | 888.1  | 895.3  | 899.6  | 912.4  | 933.9  |
| 30°   | 2036.5 | 1385.8 | 1082.6 | 929.6  | 888.1  | 869.5  | 843.8  | 846.6  | 852.4  | 866.7  | 891.0  |
| 32.5° | 1966.5 | 1312.9 | 1044.0 | 879.5  | 838.1  | 823.8  | 795.2  | 799.5  | 805.2  | 820.9  | 848.1  |
| 35°   | 1889.2 | 1227.1 | 998.2  | 833.8  | 792.3  | 780.9  | 748.0  | 750.8  | 759.4  | 776.6  | 803.7  |
| 37.5° | 1807.7 | 1157.0 | 952.5  | 789.4  | 746.5  | 735.1  | 700.8  | 703.6  | 713.6  | 733.7  | 759.4  |
| 40°   | 1727.6 | 1088.3 | 903.9  | 742.2  | 699.3  | 689.3  | 652.1  | 655.0  | 666.4  | 687.9  | 715.1  |
| 42.5° | 1640.4 | 1035.4 | 840.9  | 693.6  | 647.9  | 637.8  | 603.5  | 607.8  | 620.7  | 642.1  | 669.3  |
| 45°   | 1536.0 | 1001.1 | 770.8  | 647.9  | 596.4  | 586.4  | 554.9  | 563.5  | 577.8  | 599.2  | 627.8  |
| 47.5° | 1428.7 | 986.8  | 712.2  | 599.2  | 543.5  | 534.9  | 509.1  | 523.4  | 539.2  | 556.3  | 587.8  |
| 50°   | 1325.7 | 968.2  | 652.1  | 553.5  | 497.7  | 489.1  | 471.9  | 490.5  | 506.3  | 522.0  | 552.0  |
| 52.5° | 1208.5 | 928.2  | 597.8  | 513.4  | 459.1  | 456.2  | 447.6  | 464.8  | 479.1  | 493.4  | 519.1  |
| 55°   | 1086.9 | 863.8  | 550.6  | 477.7  | 426.2  | 429.0  | 424.8  | 439.1  | 450.5  | 463.4  | 486.3  |
| 57.5° | 981.1  | 782.3  | 513.4  | 439.1  | 397.6  | 406.2  | 400.4  | 407.6  | 414.7  | 430.5  | 449.1  |
| 60°   | 873.8  | 685.0  | 471.9  | 393.3  | 369.0  | 379.0  | 363.3  | 361.8  | 364.7  | 369.0  | 403.3  |
| 62.5° | 729.4  | 583.5  | 420.5  | 353.2  | 337.5  | 341.8  | 311.8  | 288.9  | 288.9  | 293.2  | 344.7  |
| 65°   | 586.4  | 489.1  | 363.3  | 307.5  | 294.6  | 291.8  | 248.8  | 217.4  | 214.5  | 227.4  | 271.7  |
| 67.5° | 482.0  | 406.2  | 306.1  | 256.0  | 247.4  | 250.3  | 218.8  | 187.3  | 184.5  | 198.8  | 231.7  |
| 70°   | 399.0  | 327.5  | 244.6  | 197.4  | 205.9  | 218.8  | 187.3  | 157.3  | 153.0  | 165.9  | 197.4  |
| 72.5° | 317.5  | 256.0  | 187.3  | 145.9  | 170.2  | 185.9  | 153.0  | 124.4  | 121.6  | 133.0  | 163.0  |
| 75°   | 233.1  | 183.1  | 127.3  | 105.8  | 131.6  | 145.9  | 111.6  | 88.7   | 84.4   | 94.4   | 124.4  |
| 77.5° | 144.4  | 103.0  | 80.1   | 62.9   | 90.1   | 97.3   | 58.6   | 51.5   | 50.1   | 57.2   | 78.7   |
| 80°   | 67.2   | 44.3   | 38.6   | 21.5   | 32.9   | 38.6   | 24.3   | 27.2   | 28.6   | 34.3   | 48.6   |
| 82.5° | 18.6   | 7.2    | 1.4    | 0.0    | 0.0    | 11.4   | 5.7    | 11.4   | 14.3   | 21.5   | 31.5   |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 2.9    | 7.2    | 12.9   | 22.9   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 5.7    | 11.4   |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°    | 360°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0°    | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6 | 2874.6  | 2874.6  |
| 2.5°  | 2665.8 | 2723.0 | 2814.5 | 2908.9 | 3001.9 | 3096.3 | 3187.8  | 3220.7  |
| 5°    | 2418.4 | 2550.0 | 2731.6 | 2926.1 | 3126.3 | 3329.4 | 3515.3  | 3599.7  |
| 7.5°  | 2142.4 | 2331.1 | 2604.3 | 2908.9 | 3227.8 | 3546.8 | 3839.9  | 3975.8  |
| 10°   | 1847.8 | 2086.6 | 2398.4 | 2810.2 | 3267.9 | 3708.4 | 4111.7  | 4287.6  |
| 12.5° | 1567.4 | 1817.7 | 2162.4 | 2655.8 | 3236.4 | 3801.3 | 4286.2  | 4493.5  |
| 15°   | 1332.9 | 1554.6 | 1926.4 | 2472.7 | 3134.9 | 3807.1 | 4369.1  | 4596.5  |
| 17.5° | 1157.0 | 1301.4 | 1686.1 | 2269.6 | 3001.9 | 3754.1 | 4397.7  | 4640.8  |
| 20°   | 1069.8 | 1109.8 | 1374.4 | 2009.4 | 2877.5 | 3704.1 | 4426.3  | 4682.3  |
| 22.5° | 1018.3 | 1028.3 | 1124.1 | 1673.3 | 2728.7 | 3688.3 | 4476.4  | 4739.5  |
| 25°   | 976.8  | 979.7  | 1005.4 | 1325.7 | 2501.3 | 3678.3 | 4553.6  | 4818.2  |
| 27.5° | 935.3  | 935.3  | 949.6  | 1068.3 | 2192.4 | 3635.4 | 4653.7  | 4912.6  |
| 30°   | 893.8  | 893.8  | 903.9  | 945.3  | 1830.6 | 3551.1 | 4773.8  | 5035.5  |
| 32.5° | 850.9  | 850.9  | 859.5  | 889.6  | 1461.6 | 3445.2 | 4884.0  | 5160.0  |
| 35°   | 808.0  | 805.2  | 816.6  | 848.1  | 1162.7 | 3310.8 | 4994.1  | 5294.4  |
| 37.5° | 762.3  | 760.8  | 772.3  | 808.0  | 1004.0 | 3154.9 | 5077.0  | 5477.5  |
| 40°   | 713.6  | 713.6  | 726.5  | 765.1  | 958.2  | 2959.0 | 5208.6  | 5740.6  |
| 42.5° | 669.3  | 666.4  | 680.8  | 727.9  | 923.9  | 2771.6 | 5444.6  | 6123.9  |
| 45°   | 626.4  | 620.7  | 633.6  | 692.2  | 863.8  | 2705.8 | 5885.1  | 6690.2  |
| 47.5° | 586.4  | 572.1  | 583.5  | 649.3  | 809.5  | 2951.8 | 6605.8  | 7475.4  |
| 50°   | 553.5  | 526.3  | 536.3  | 606.4  | 768.0  | 3485.3 | 7541.2  | 8518.0  |
| 52.5° | 519.1  | 483.4  | 489.1  | 553.5  | 730.8  | 3993.0 | 8555.1  | 9893.8  |
| 55°   | 483.4  | 443.3  | 446.2  | 500.6  | 677.9  | 4068.8 | 9544.8  | 11770.1 |
| 57.5° | 443.3  | 406.2  | 406.2  | 451.9  | 639.3  | 3526.7 | 10305.6 | 14098.4 |
| 60°   | 399.0  | 374.7  | 367.5  | 413.3  | 673.6  | 2488.5 | 10394.3 | 15600.0 |
| 62.5° | 350.4  | 337.5  | 327.5  | 376.1  | 699.3  | 1474.5 | 9680.7  | 15236.8 |
| 65°   | 294.6  | 291.8  | 284.6  | 413.3  | 589.2  | 871.0  | 8310.6  | 14122.7 |
| 67.5° | 247.4  | 243.1  | 243.1  | 433.3  | 447.6  | 547.7  | 6492.9  | 12589.6 |
| 70°   | 213.1  | 197.4  | 197.4  | 327.5  | 271.7  | 379.0  | 4533.6  | 10934.9 |
| 72.5° | 178.8  | 161.6  | 150.2  | 261.7  | 203.1  | 277.4  | 2833.1  | 9364.6  |
| 75°   | 143.0  | 130.1  | 115.8  | 173.0  | 151.6  | 210.2  | 1646.1  | 7758.5  |
| 77.5° | 103.0  | 97.3   | 81.5   | 127.3  | 110.1  | 151.6  | 979.7   | 5986.6  |
| 80°   | 52.9   | 54.3   | 51.5   | 72.9   | 74.4   | 103.0  | 557.8   | 4097.4  |
| 82.5° | 31.5   | 24.3   | 27.2   | 35.8   | 42.9   | 58.6   | 210.2   | 2408.4  |
| 85°   | 20.0   | 12.9   | 12.9   | 17.2   | 21.5   | 22.9   | 64.4    | 976.8   |
| 87.5° | 10.0   | 4.3    | 5.7    | 8.6    | 7.2    | 5.7    | 2.9     | 246.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     |

(END OF REPORT)