

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: P954525

Luminaire Tested: **GALN-SB7D-730-U-T2R**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P954525  
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-SB7D-730-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 73711 lumens  
Efficiency: N/A  
Efficacy: 143.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 512.8  
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

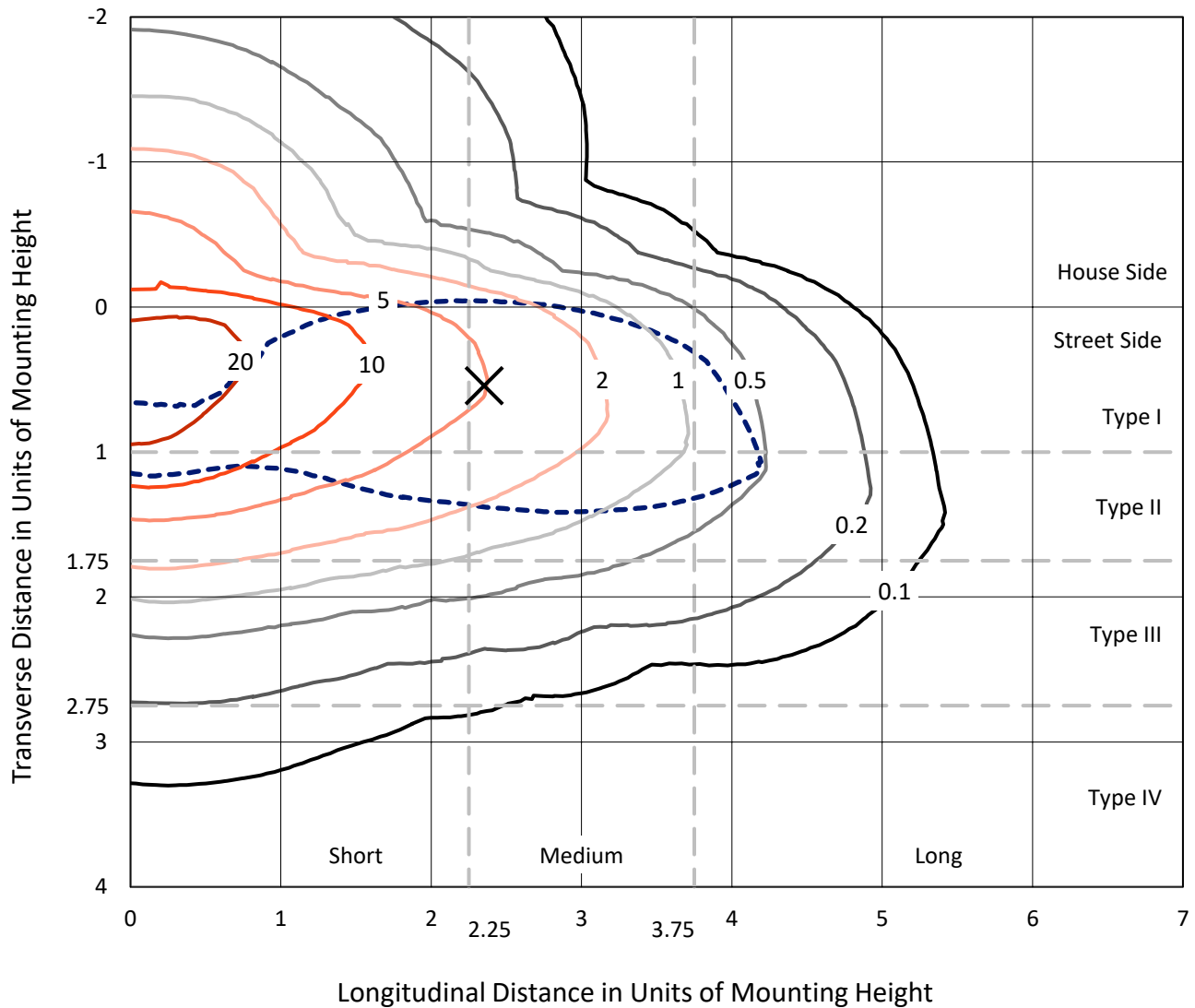


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## Iso-Footcandle Lines of Horizontal Illumination

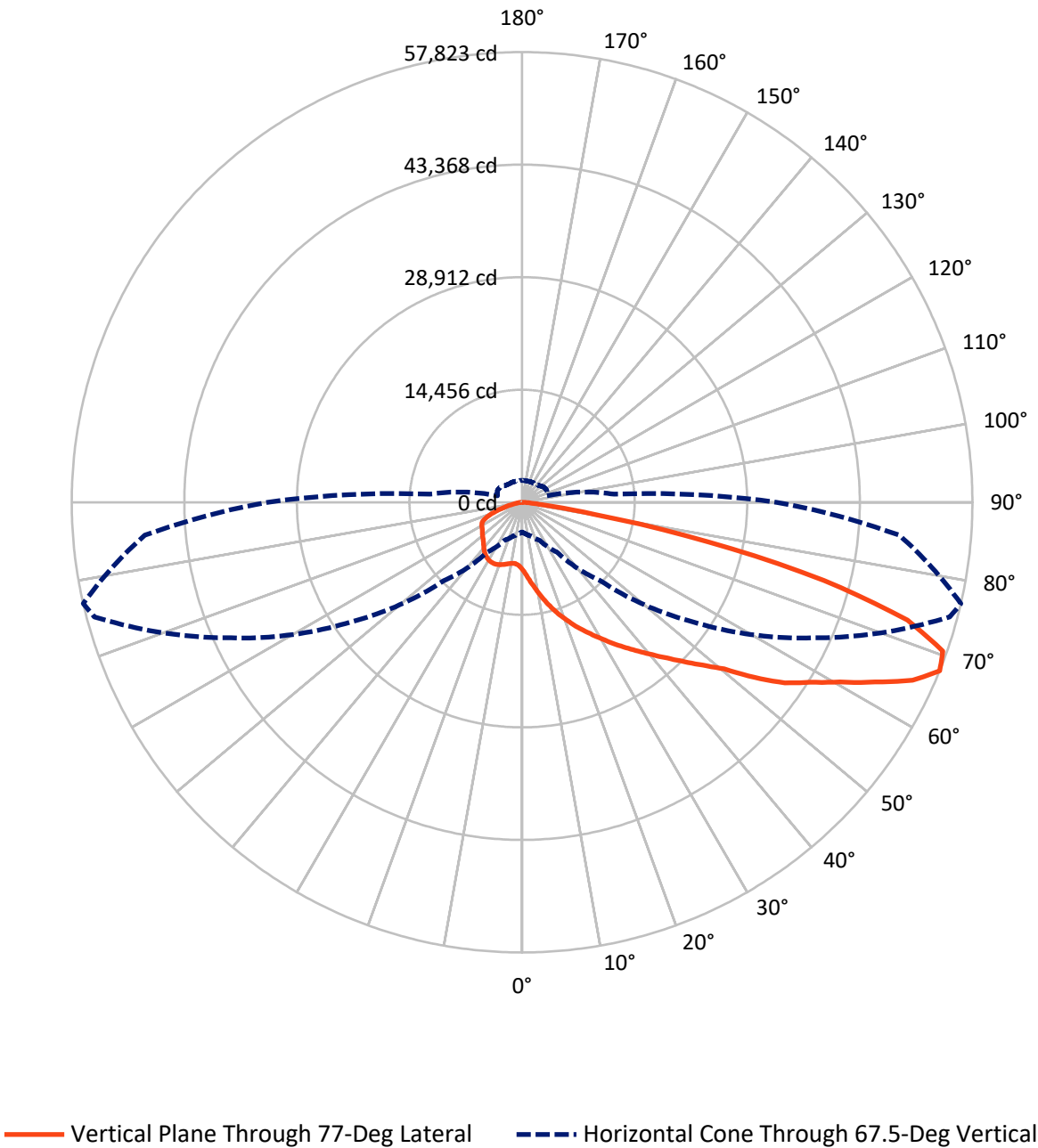
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27 fc  
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13943.2  | 0.0    | 13943.2 |
|                    | % Fixture | 18.9     | 0.0    | 18.9    |
| <b>Street Side</b> | Lumens    | 59767.8  | 0.0    | 59767.8 |
|                    | % Fixture | 81.1     | 0.0    | 81.1    |
| <b>Total</b>       | Lumens    | 73711.0  | 0.0    | 73711.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 927.0   | 1.3       |
| 10°-20°   | 3330.4  | 4.5       |
| 20°-30°   | 6288.1  | 8.5       |
| 30°-40°   | 10130.0 | 13.7      |
| 40°-50°   | 13856.0 | 18.8      |
| 50°-60°   | 15629.7 | 21.2      |
| 60°-70°   | 14588.3 | 19.8      |
| 70°-80°   | 7996.9  | 10.8      |
| 80°-90°   | 964.6   | 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°    | 73711.0 | 100.0     |
| 0°-180°   | 73711.0 | 100.0     |

**Coefficient of Utilization**



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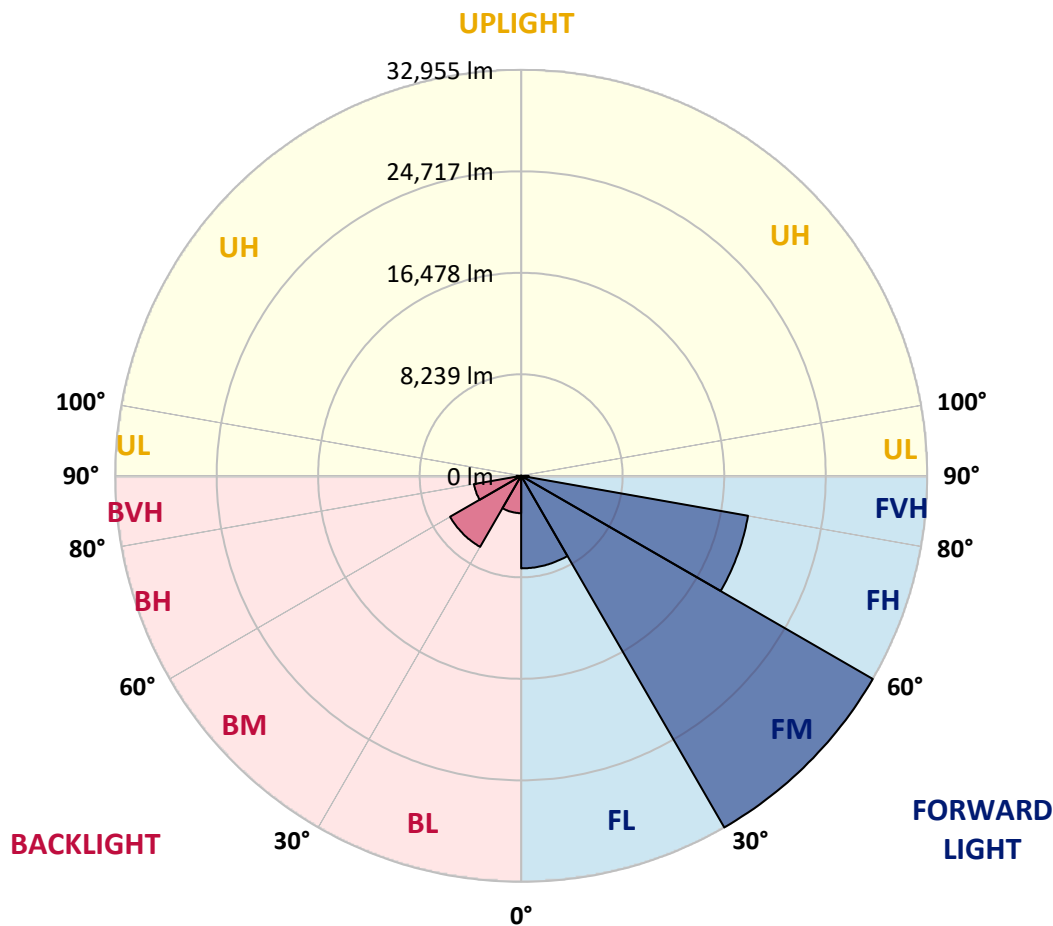
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 7513.9  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 32955.4 | 44.7      |                         |      |         |
| FH   | (60°-80°)   | 18695.3 | 25.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 603.2   | 0.8       |                         |      | G4/750  |
| BL   | (0°-30°)    | 3031.6  | 4.1       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 6660.3  | 9.0       | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3889.9  | 5.3       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 361.4   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8648.6  | 8648.6  | 8648.6  | 8648.6  | 8648.6  | 8648.6  | 8648.6  | 8648.6  | 8648.6  | 8648.6  | 8648.6  |
| 2.5°  | 10828.8 | 10904.9 | 10809.8 | 10809.8 | 10490.2 | 10322.8 | 10003.1 | 9759.6  | 9322.1  | 9246.0  | 8956.8  |
| 5°    | 12799.8 | 12894.9 | 12761.7 | 12704.6 | 12328.0 | 11981.7 | 11445.2 | 10916.3 | 10136.3 | 10056.4 | 9375.3  |
| 7.5°  | 14325.5 | 14447.3 | 14329.3 | 14268.5 | 13933.6 | 13545.5 | 12917.7 | 12179.6 | 11079.9 | 10923.9 | 9938.5  |
| 10°   | 15569.7 | 15588.8 | 15550.7 | 15573.6 | 15311.0 | 14991.4 | 14348.4 | 13488.5 | 12114.9 | 11901.8 | 10619.5 |
| 12.5° | 16273.7 | 16361.2 | 16437.3 | 16574.2 | 16528.6 | 16330.7 | 15752.4 | 14725.1 | 13210.7 | 12936.7 | 11361.5 |
| 15°   | 16604.7 | 16756.9 | 16928.1 | 17243.9 | 17498.8 | 17548.3 | 17106.9 | 16053.0 | 14325.5 | 13994.5 | 12111.1 |
| 17.5° | 16722.6 | 16867.2 | 17137.4 | 17594.0 | 18141.9 | 18511.0 | 18313.1 | 17342.8 | 15429.0 | 15048.5 | 12898.7 |
| 20°   | 17320.0 | 17361.9 | 17525.5 | 17959.2 | 18552.8 | 19165.4 | 19313.8 | 18583.2 | 16521.0 | 16091.0 | 13712.9 |
| 22.5° | 18598.5 | 18514.8 | 18560.4 | 18758.3 | 19184.4 | 19778.0 | 20116.6 | 19679.1 | 17643.4 | 17148.8 | 14534.8 |
| 25°   | 20710.2 | 20466.7 | 20223.2 | 19994.9 | 20211.8 | 20546.6 | 20930.9 | 20774.9 | 18819.1 | 18191.3 | 15364.3 |
| 27.5° | 23377.4 | 23080.7 | 22544.2 | 21794.6 | 21532.1 | 21650.0 | 21821.2 | 21790.8 | 19907.4 | 19271.9 | 16220.4 |
| 30°   | 26002.8 | 25656.6 | 25017.4 | 23933.0 | 23240.5 | 22928.5 | 22799.1 | 22711.6 | 21090.7 | 20413.4 | 17084.1 |
| 32.5° | 28099.4 | 27825.4 | 27197.6 | 25983.8 | 24979.3 | 24446.6 | 24016.7 | 23704.7 | 22327.3 | 21650.0 | 17997.3 |
| 35°   | 29933.3 | 29678.4 | 28959.3 | 27635.2 | 26543.1 | 25976.2 | 25413.1 | 24747.2 | 23613.4 | 22928.5 | 18979.0 |
| 37.5° | 31607.5 | 31352.6 | 30367.1 | 28989.7 | 27890.1 | 27498.2 | 26995.9 | 25865.9 | 24903.2 | 24256.4 | 20017.7 |
| 40°   | 32665.3 | 32608.2 | 31687.4 | 30127.4 | 28985.9 | 28791.9 | 28624.4 | 27163.3 | 26333.9 | 25732.7 | 21159.2 |
| 42.5° | 32935.4 | 33061.0 | 32330.4 | 31048.2 | 29960.0 | 29804.0 | 30195.9 | 28632.0 | 27939.6 | 27365.0 | 22452.9 |
| 45°   | 32284.8 | 32646.2 | 32166.8 | 31295.5 | 30652.5 | 30568.8 | 31588.5 | 30237.7 | 29716.4 | 29191.4 | 24012.9 |
| 47.5° | 30637.2 | 31249.8 | 31052.0 | 30930.2 | 30838.9 | 31200.4 | 32813.7 | 31942.3 | 31729.3 | 31272.7 | 25793.6 |
| 50°   | 27311.7 | 28472.2 | 28818.5 | 29587.1 | 30469.8 | 31691.2 | 33928.5 | 33802.9 | 34080.7 | 33620.3 | 27962.4 |
| 52.5° | 21562.5 | 23160.6 | 25169.6 | 27094.9 | 29336.0 | 31527.6 | 35153.7 | 36474.0 | 37645.9 | 37394.8 | 31409.6 |
| 55°   | 17799.4 | 18518.6 | 20063.4 | 23594.3 | 27136.7 | 30838.9 | 35705.4 | 38631.4 | 41184.5 | 40960.0 | 34023.6 |
| 57.5° | 14907.7 | 15550.7 | 16502.0 | 19450.8 | 23811.2 | 29275.1 | 36047.8 | 39947.9 | 43608.2 | 43585.4 | 36603.4 |
| 60°   | 11806.7 | 12487.8 | 13461.8 | 15550.7 | 19926.4 | 26573.6 | 35971.7 | 41447.0 | 46701.6 | 46891.9 | 39750.0 |
| 62.5° | 8306.1  | 9055.7  | 10136.3 | 12084.4 | 15957.8 | 23073.1 | 34419.3 | 42531.4 | 50342.9 | 50860.4 | 43535.9 |
| 65°   | 5460.1  | 5954.7  | 6769.0  | 8450.7  | 11890.4 | 18571.8 | 31455.3 | 42672.2 | 54239.2 | 55114.3 | 47089.7 |
| 67.5° | 3827.8  | 4018.0  | 4497.4  | 5410.6  | 7838.1  | 14241.8 | 26733.4 | 41214.9 | 56837.9 | 57823.4 | 48630.7 |
| 70°   | 2986.9  | 3082.0  | 3325.5  | 3690.8  | 4923.6  | 9577.0  | 20485.7 | 37425.2 | 56282.4 | 57309.8 | 47021.2 |
| 72.5° | 2579.7  | 2671.1  | 2762.4  | 2808.0  | 3302.7  | 5912.9  | 13876.6 | 31291.7 | 51050.7 | 51747.0 | 40883.9 |
| 75°   | 2340.0  | 2362.9  | 2439.0  | 2423.7  | 2518.9  | 3835.4  | 8009.4  | 22799.1 | 40278.9 | 40039.2 | 30180.7 |
| 77.5° | 1967.1  | 1997.6  | 2123.1  | 2104.1  | 2237.3  | 2621.6  | 4158.8  | 14713.6 | 26113.2 | 24484.7 | 16798.7 |
| 80°   | 1666.6  | 1681.8  | 1818.8  | 1795.9  | 1944.3  | 1898.7  | 2123.1  | 7499.5  | 11076.1 | 9382.9  | 4843.7  |
| 82.5° | 578.3   | 715.3   | 1388.8  | 1430.7  | 1483.9  | 1149.1  | 1225.2  | 3059.2  | 3382.6  | 2591.2  | 1015.9  |
| 85°   | 281.6   | 300.6   | 707.7   | 1004.5  | 1000.7  | 578.3   | 597.4   | 1092.0  | 1065.4  | 837.1   | 338.6   |
| 87.5° | 45.7    | 57.1    | 83.7    | 391.9   | 312.0   | 152.2   | 205.5   | 213.1   | 220.7   | 190.2   | 76.1    |
| 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°    | 8648.6  | 8648.6  | 8648.6 | 8648.6 | 8648.6 | 8648.6 | 8648.6 | 8648.6 | 8648.6 | 8648.6 | 8648.6 |
| 2.5°  | 8743.7  | 8553.5  | 8154.0 | 7784.9 | 7495.7 | 7217.9 | 7061.9 | 6928.8 | 6852.7 | 6837.4 | 6837.4 |
| 5°    | 8979.6  | 8587.7  | 7861.0 | 7248.4 | 6848.9 | 6552.1 | 6396.1 | 6297.1 | 6247.7 | 6217.2 | 6213.4 |
| 7.5°  | 9318.3  | 8743.7  | 7708.8 | 7012.5 | 6593.9 | 6380.9 | 6301.0 | 6285.7 | 6281.9 | 6285.7 | 6297.1 |
| 10°   | 9786.3  | 8998.6  | 7693.6 | 6955.4 | 6605.3 | 6487.4 | 6483.6 | 6487.4 | 6502.6 | 6506.4 | 6510.2 |
| 12.5° | 10292.3 | 9261.2  | 7754.4 | 7004.9 | 6749.9 | 6685.2 | 6673.8 | 6670.0 | 6681.4 | 6689.1 | 6692.9 |
| 15°   | 10844.0 | 9607.4  | 7857.2 | 7111.4 | 6909.7 | 6841.3 | 6829.8 | 6807.0 | 6803.2 | 6799.4 | 6795.6 |
| 17.5° | 11411.0 | 9949.9  | 7971.3 | 7225.5 | 7012.5 | 6917.4 | 6875.5 | 6822.2 | 6780.4 | 6769.0 | 6780.4 |
| 20°   | 11985.5 | 10288.5 | 8051.2 | 7282.6 | 7020.1 | 6886.9 | 6803.2 | 6711.9 | 6639.6 | 6597.7 | 6613.0 |
| 22.5° | 12598.1 | 10642.4 | 8100.7 | 7267.4 | 6951.6 | 6769.0 | 6616.8 | 6510.2 | 6399.9 | 6327.6 | 6331.4 |
| 25°   | 13195.5 | 10950.6 | 8096.9 | 7187.5 | 6818.4 | 6586.3 | 6392.3 | 6255.3 | 6103.1 | 6027.0 | 6027.0 |
| 27.5° | 13770.0 | 11228.3 | 8001.8 | 7046.7 | 6628.2 | 6369.4 | 6137.3 | 5973.7 | 5825.3 | 5753.0 | 5749.2 |
| 30°   | 14363.6 | 11460.4 | 7853.4 | 6841.3 | 6403.7 | 6118.3 | 5863.4 | 5722.6 | 5589.4 | 5520.9 | 5517.1 |
| 32.5° | 14953.3 | 11673.5 | 7644.1 | 6586.3 | 6145.0 | 5871.0 | 5619.9 | 5490.5 | 5410.6 | 5410.6 | 5414.4 |
| 35°   | 15577.4 | 11821.9 | 7366.3 | 6289.5 | 5871.0 | 5608.5 | 5410.6 | 5334.5 | 5326.9 | 5281.2 | 5269.8 |
| 37.5° | 16235.6 | 11917.0 | 7027.7 | 5985.1 | 5600.8 | 5353.5 | 5292.6 | 5201.3 | 5125.2 | 5026.3 | 5011.1 |
| 40°   | 16928.1 | 12012.1 | 6620.6 | 5669.3 | 5315.5 | 5178.5 | 5151.9 | 5030.1 | 4813.2 | 4569.7 | 4535.5 |
| 42.5° | 17769.0 | 12076.8 | 6198.2 | 5353.5 | 5014.9 | 4969.2 | 5007.3 | 4798.0 | 4451.8 | 4269.1 | 4272.9 |
| 45°   | 18743.1 | 12183.4 | 5810.1 | 5041.5 | 4706.7 | 4706.7 | 4866.5 | 4592.5 | 4307.2 | 4193.0 | 4212.0 |
| 47.5° | 20006.3 | 12430.7 | 5448.6 | 4699.1 | 4421.3 | 4497.4 | 4554.5 | 4345.2 | 4185.4 | 4044.6 | 4040.8 |
| 50°   | 21832.6 | 13024.3 | 5075.8 | 4352.8 | 4204.4 | 4356.6 | 4276.7 | 4155.0 | 3968.5 | 3854.4 | 3843.0 |
| 52.5° | 24100.4 | 13374.3 | 4744.7 | 4040.8 | 4018.0 | 4170.2 | 4056.0 | 3941.9 | 3801.1 | 3648.9 | 3618.5 |
| 55°   | 25645.2 | 13439.0 | 4467.0 | 3812.5 | 3892.4 | 3877.2 | 3835.4 | 3732.6 | 3656.5 | 3454.9 | 3458.7 |
| 57.5° | 27372.6 | 13568.4 | 4238.7 | 3675.6 | 3812.5 | 3645.1 | 3629.9 | 3542.4 | 3443.5 | 3306.5 | 3260.8 |
| 60°   | 29438.7 | 13770.0 | 4040.8 | 3622.3 | 3744.0 | 3492.9 | 3416.8 | 3382.6 | 3283.6 | 3215.2 | 3234.2 |
| 62.5° | 31691.2 | 13952.7 | 3839.2 | 3629.9 | 3664.1 | 3344.5 | 3230.4 | 3219.0 | 3158.1 | 3135.3 | 3135.3 |
| 65°   | 33228.4 | 13454.2 | 3588.0 | 3622.3 | 3538.6 | 3192.3 | 3047.7 | 3043.9 | 2994.5 | 2986.9 | 2983.1 |
| 67.5° | 32691.9 | 11875.2 | 3249.4 | 3515.7 | 3409.2 | 3040.1 | 2880.3 | 2865.1 | 2800.4 | 2804.2 | 2804.2 |
| 70°   | 30005.6 | 9622.7  | 2781.4 | 3253.2 | 3249.4 | 2903.2 | 2705.3 | 2655.8 | 2568.3 | 2583.5 | 2598.8 |
| 72.5° | 24967.9 | 7130.4  | 2153.6 | 2815.6 | 2994.5 | 2777.6 | 2503.6 | 2423.7 | 2313.4 | 2328.6 | 2324.8 |
| 75°   | 18031.5 | 4847.5  | 1567.6 | 2142.2 | 2606.4 | 2629.2 | 2305.8 | 2168.8 | 2035.6 | 2058.5 | 2066.1 |
| 77.5° | 9226.9  | 2747.2  | 1152.9 | 1476.3 | 2047.0 | 2389.5 | 2127.0 | 1944.3 | 1913.9 | 2127.0 | 2096.5 |
| 80°   | 3009.7  | 1377.4  | 799.0  | 1034.9 | 1343.1 | 1955.7 | 1864.4 | 1655.1 | 1647.5 | 1697.0 | 1457.3 |
| 82.5° | 898.0   | 582.2   | 513.7  | 681.1  | 742.0  | 1499.1 | 1609.5 | 1251.8 | 1076.8 | 1133.9 | 1171.9 |
| 85°   | 308.2   | 281.6   | 293.0  | 338.6  | 353.9  | 878.9  | 1126.3 | 829.5  | 783.8  | 863.7  | 852.3  |
| 87.5° | 72.3    | 98.9    | 83.7   | 76.1   | 76.1   | 213.1  | 437.6  | 346.2  | 479.4  | 319.6  | 308.2  |
| 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)