

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: P192315

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-T4FT-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27907 lumens  
Efficiency: N/A  
Efficacy: 123.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 226  
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: 25 FT

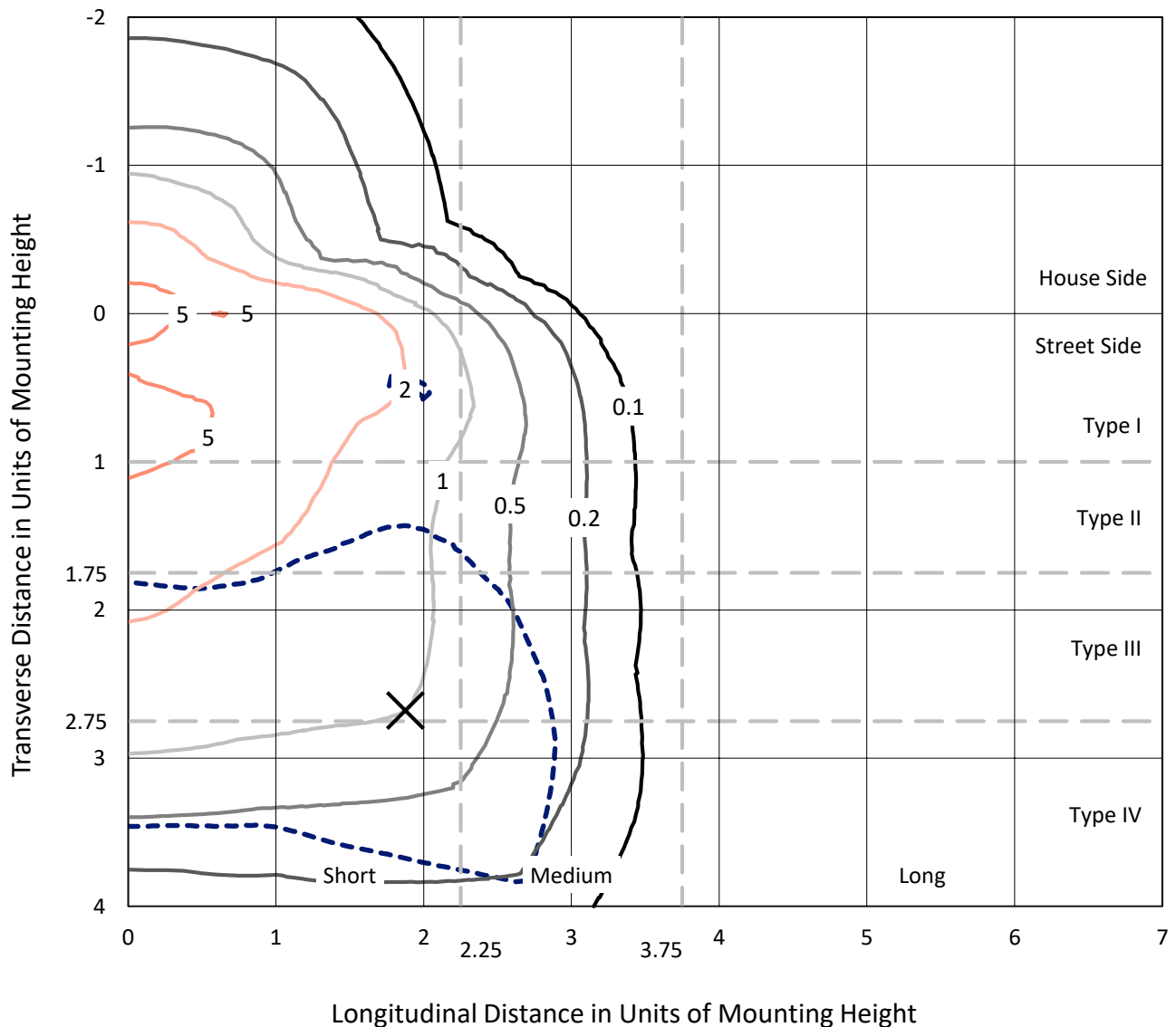


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

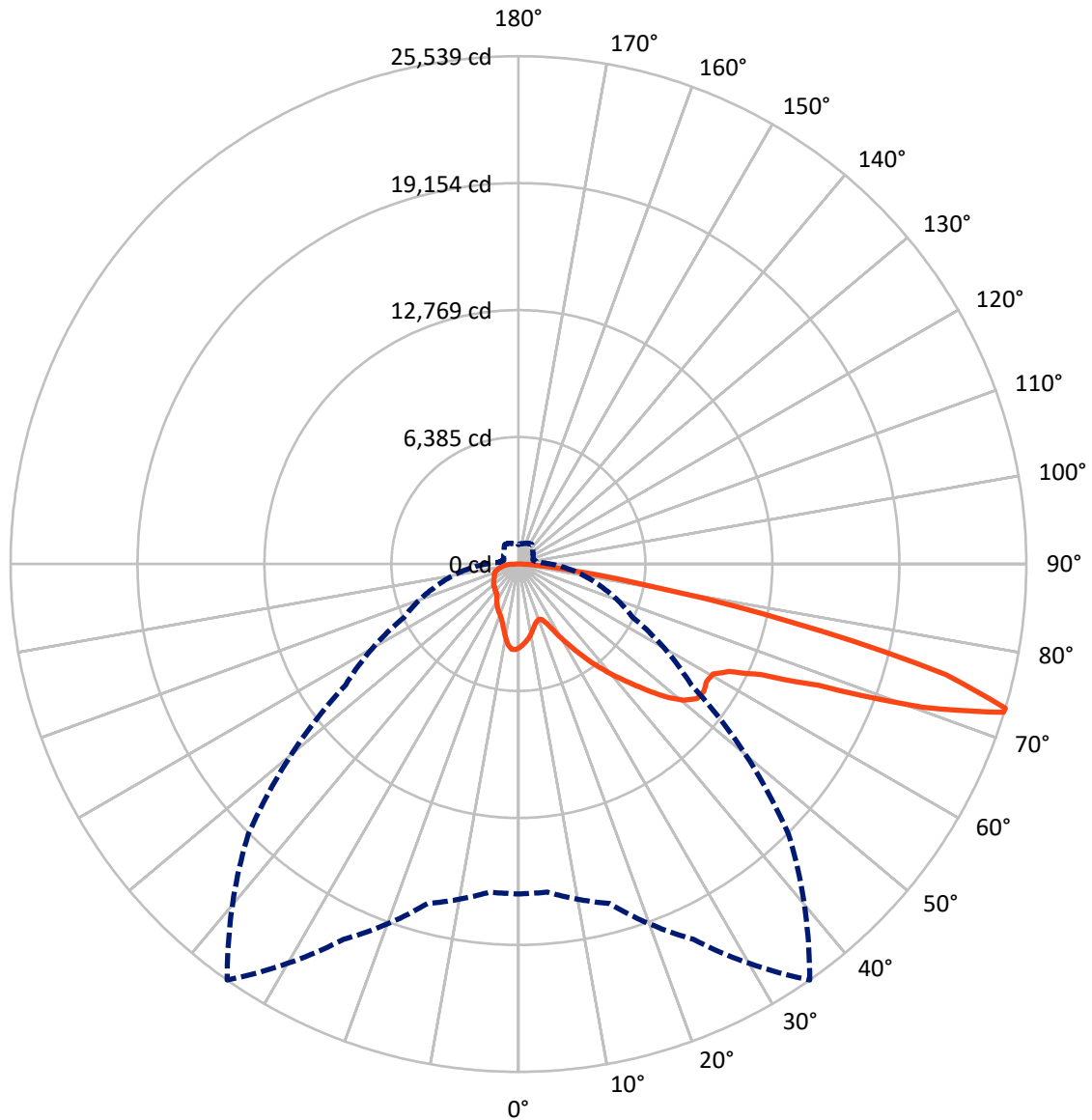


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5322.6   | 0.0    | 5322.6  |
|                    | % Fixture | 19.1     | 0.0    | 19.1    |
| <b>Street Side</b> | Lumens    | 22584.4  | 0.0    | 22584.4 |
|                    | % Fixture | 80.9     | 0.0    | 80.9    |
| <b>Total</b>       | Lumens    | 27907.0  | 0.0    | 27907.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 381.3   | 1.4       |
| 10°-20°   | 951.7   | 3.4       |
| 20°-30°   | 1538.5  | 5.5       |
| 30°-40°   | 2579.9  | 9.2       |
| 40°-50°   | 3976.8  | 14.3      |
| 50°-60°   | 5335.4  | 19.1      |
| 60°-70°   | 7107.8  | 25.5      |
| 70°-80°   | 5421.1  | 19.4      |
| 80°-90°   | 614.5   | 2.2       |
| 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°    | 27907.0 | 100.0     |
| 0°-180°   | 27907.0 | 100.0     |



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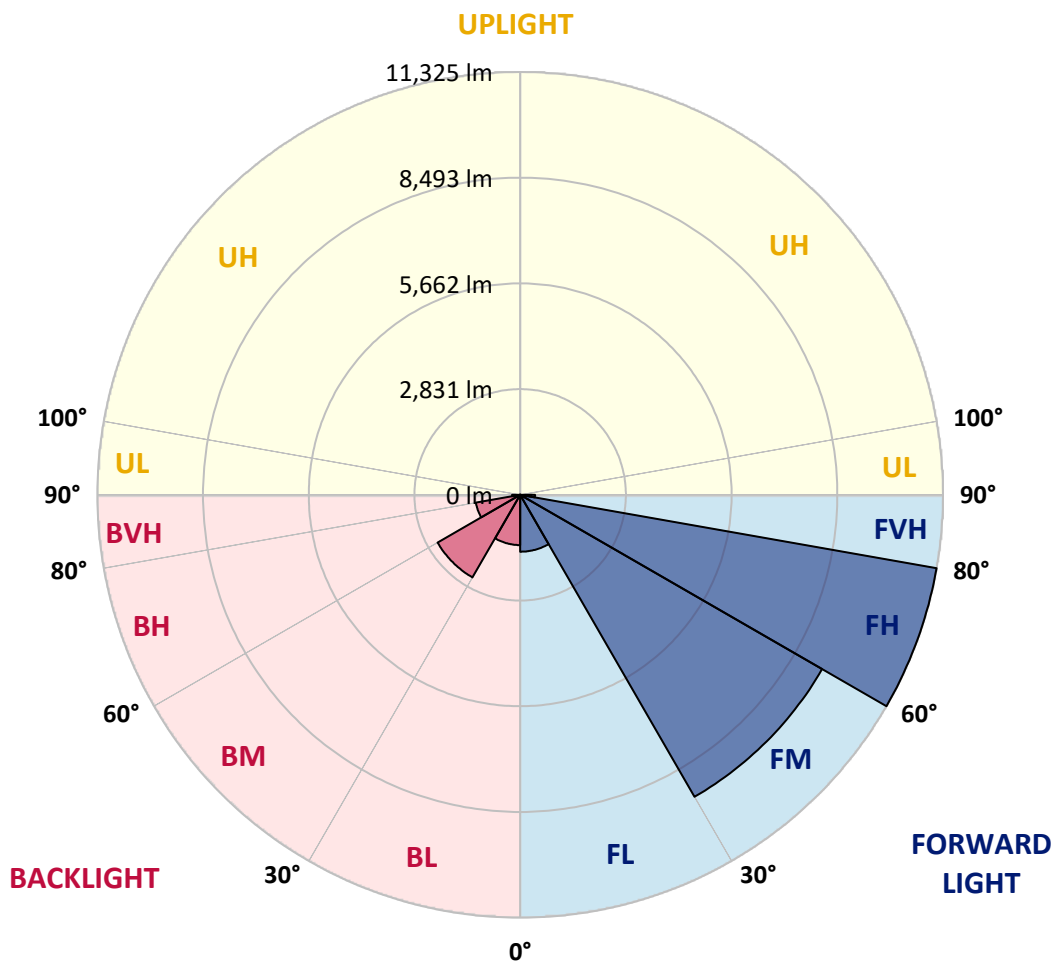
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1524.7  | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 9337.9  | 33.5      |                         |      |          |
| FH   | (60°-80°)   | 11324.7 | 40.6      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 397.2   | 1.4       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1346.9  | 4.8       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2554.3  | 9.2       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1204.2  | 4.3       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 217.3   | 0.8       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4212.0  | 4212.0  | 4212.0  | 4212.0  | 4212.0  | 4212.0  | 4212.0  | 4212.0  | 4212.0  | 4212.0  | 4212.0 |
| 2.5°  | 4045.9  | 4053.9  | 4044.5  | 4056.6  | 4076.7  | 4098.1  | 4112.9  | 4134.3  | 4158.4  | 4191.9  | 4200.0 |
| 5°    | 3855.6  | 3867.6  | 3867.6  | 3889.1  | 3927.9  | 3962.8  | 3994.9  | 4029.8  | 4080.7  | 4138.3  | 4161.1 |
| 7.5°  | 3646.5  | 3653.2  | 3665.3  | 3697.4  | 3753.7  | 3803.3  | 3848.9  | 3905.1  | 3974.8  | 4051.2  | 4091.4 |
| 10°   | 3394.6  | 3403.9  | 3422.7  | 3468.3  | 3544.6  | 3613.0  | 3678.7  | 3756.4  | 3844.8  | 3940.0  | 3990.9 |
| 12.5° | 3216.3  | 3213.6  | 3221.7  | 3255.2  | 3322.2  | 3405.3  | 3500.4  | 3599.6  | 3708.1  | 3819.4  | 3881.0 |
| 15°   | 3156.0  | 3141.3  | 3110.4  | 3102.4  | 3138.6  | 3221.7  | 3331.6  | 3453.5  | 3583.5  | 3717.5  | 3793.9 |
| 17.5° | 3193.5  | 3168.1  | 3083.6  | 3022.0  | 3016.6  | 3079.6  | 3196.2  | 3332.9  | 3483.0  | 3646.5  | 3741.6 |
| 20°   | 3429.4  | 3369.1  | 3161.4  | 3018.0  | 2968.4  | 2999.2  | 3101.1  | 3245.8  | 3422.7  | 3639.8  | 3761.7 |
| 22.5° | 3993.6  | 3905.1  | 3464.2  | 3197.6  | 3030.0  | 2992.5  | 3068.9  | 3223.0  | 3429.4  | 3722.9  | 3878.3 |
| 25°   | 4815.1  | 4689.1  | 3984.2  | 3645.2  | 3299.4  | 3099.7  | 3117.1  | 3275.3  | 3524.5  | 3915.9  | 4103.5 |
| 27.5° | 5463.7  | 5382.0  | 4663.7  | 4276.4  | 3789.9  | 3389.2  | 3273.9  | 3406.6  | 3718.9  | 4232.1  | 4423.8 |
| 30°   | 5849.7  | 5800.1  | 5390.0  | 4992.0  | 4415.7  | 3850.2  | 3574.1  | 3653.2  | 4023.1  | 4670.4  | 4828.5 |
| 32.5° | 6297.3  | 6267.8  | 6066.8  | 5700.9  | 5091.2  | 4455.9  | 4049.9  | 4021.7  | 4430.5  | 5197.0  | 5269.4 |
| 35°   | 6761.0  | 6751.6  | 6633.7  | 6371.0  | 5816.2  | 5254.7  | 4681.1  | 4490.8  | 4874.1  | 5743.8  | 5698.2 |
| 37.5° | 7192.5  | 7176.4  | 7108.1  | 6955.3  | 6574.7  | 6112.3  | 5324.3  | 4971.9  | 5352.5  | 6266.5  | 6064.1 |
| 40°   | 7987.2  | 7861.2  | 7626.7  | 7511.4  | 7341.2  | 6834.7  | 5834.9  | 5420.8  | 5848.3  | 6765.0  | 6380.4 |
| 42.5° | 8956.1  | 8751.1  | 8314.2  | 8156.0  | 8131.9  | 7404.2  | 6183.4  | 5856.4  | 6348.2  | 7259.5  | 6691.3 |
| 45°   | 9718.6  | 9525.7  | 9149.1  | 8949.4  | 9037.8  | 7920.2  | 6533.1  | 6321.4  | 6862.8  | 7778.1  | 7011.6 |
| 47.5° | 10532.1 | 10229.2 | 9730.7  | 9791.0  | 9984.0  | 8408.0  | 6889.6  | 6821.3  | 7427.0  | 8358.4  | 7409.6 |
| 50°   | 10561.6 | 10329.7 | 10111.3 | 10471.8 | 10772.0 | 8856.9  | 7335.9  | 7345.3  | 8117.2  | 9088.8  | 7938.9 |
| 52.5° | 9949.1  | 9899.6  | 10246.6 | 10813.5 | 11246.4 | 9212.1  | 7843.8  | 7886.7  | 9000.3  | 9927.7  | 8520.6 |
| 55°   | 9734.7  | 9678.4  | 10079.1 | 10694.2 | 11310.7 | 9505.6  | 8394.6  | 8472.3  | 10068.4 | 10812.2 | 9087.4 |
| 57.5° | 10257.4 | 10132.7 | 10159.5 | 10638.0 | 11153.9 | 9827.2  | 8995.0  | 9151.8  | 11229.0 | 11585.4 | 9451.9 |
| 60°   | 11718.1 | 11451.4 | 10944.9 | 10932.8 | 11238.3 | 10309.6 | 9689.2  | 9880.8  | 12435.1 | 11955.3 | 9309.9 |
| 62.5° | 13767.2 | 13500.5 | 12551.7 | 11933.9 | 11888.3 | 11105.7 | 10541.5 | 10592.4 | 13131.9 | 11454.1 | 8442.8 |
| 65°   | 15985.1 | 15746.5 | 14686.5 | 13814.1 | 13393.3 | 12424.4 | 11531.8 | 10910.0 | 12904.1 | 10075.1 | 6925.8 |
| 67.5° | 18677.4 | 18421.4 | 17510.2 | 16704.7 | 16300.0 | 14552.5 | 12227.4 | 10605.8 | 11458.1 | 7804.9  | 4978.6 |
| 70°   | 20560.3 | 20299.0 | 19939.8 | 20592.5 | 21582.8 | 17622.7 | 12317.1 | 9368.9  | 8558.1  | 5187.6  | 2996.5 |
| 72.5° | 18103.8 | 17981.9 | 18637.2 | 21385.8 | 25510.7 | 19485.5 | 11133.8 | 6821.3  | 4970.5  | 2754.0  | 1734.1 |
| 73°   | 16586.8 | 16560.0 | 17677.7 | 20829.7 | 25538.9 | 19198.7 | 10615.2 | 6340.2  | 4263.0  | 2436.4  | 1585.4 |
| 75°   | 7490.0  | 7705.8  | 10155.5 | 15910.0 | 22188.6 | 15820.3 | 7471.2  | 3637.1  | 2408.2  | 1683.2  | 1196.7 |
| 77.5° | 1799.8  | 1874.8  | 3177.5  | 7555.7  | 14012.4 | 9427.8  | 3385.2  | 1798.5  | 1539.8  | 1188.7  | 873.8  |
| 80°   | 766.6   | 792.0   | 1223.5  | 2791.5  | 6597.5  | 3796.6  | 1559.9  | 1204.8  | 1065.4  | 829.5   | 612.4  |
| 82.5° | 426.2   | 453.0   | 694.2   | 1266.4  | 2662.8  | 1294.6  | 951.5   | 838.9   | 700.9   | 499.9   | 398.0  |
| 85°   | 241.2   | 256.0   | 406.1   | 707.6   | 1128.4  | 520.0   | 569.6   | 557.5   | 395.3   | 257.3   | 195.7  |
| 87.5° | 113.9   | 123.3   | 195.7   | 328.3   | 442.2   | 203.7   | 289.5   | 319.0   | 247.9   | 156.8   | 101.8  |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4212.0 | 4212.0 | 4212.0 | 4212.0 | 4212.0 | 4212.0 | 4212.0 | 4212.0 | 4212.0 | 4212.0 |
| 2.5°  | 4209.4 | 4233.5 | 4261.6 | 4276.4 | 4289.8 | 4305.8 | 4321.9 | 4321.9 | 4324.6 | 4325.9 |
| 5°    | 4179.9 | 4229.5 | 4273.7 | 4292.4 | 4296.5 | 4296.5 | 4292.4 | 4271.0 | 4252.2 | 4260.3 |
| 7.5°  | 4118.2 | 4190.6 | 4228.1 | 4221.4 | 4170.5 | 4111.5 | 4061.9 | 4001.6 | 3970.8 | 3965.4 |
| 10°   | 4029.8 | 4112.9 | 4119.6 | 4052.6 | 3926.6 | 3800.6 | 3696.1 | 3594.2 | 3546.0 | 3533.9 |
| 12.5° | 3931.9 | 4008.3 | 3965.4 | 3827.4 | 3625.1 | 3441.5 | 3308.8 | 3205.6 | 3160.0 | 3148.0 |
| 15°   | 3852.9 | 3905.1 | 3796.6 | 3579.5 | 3324.9 | 3130.5 | 3020.7 | 2944.3 | 2912.1 | 2902.7 |
| 17.5° | 3811.3 | 3822.1 | 3623.7 | 3330.2 | 3059.5 | 2897.4 | 2829.0 | 2792.8 | 2780.8 | 2774.1 |
| 20°   | 3831.4 | 3756.4 | 3458.9 | 3098.4 | 2842.4 | 2728.5 | 2712.4 | 2703.0 | 2700.4 | 2696.3 |
| 22.5° | 3931.9 | 3736.3 | 3307.4 | 2878.6 | 2652.1 | 2602.5 | 2615.9 | 2614.6 | 2611.9 | 2609.2 |
| 25°   | 4111.5 | 3753.7 | 3160.0 | 2669.5 | 2492.6 | 2481.9 | 2506.0 | 2506.0 | 2495.3 | 2495.3 |
| 27.5° | 4348.7 | 3789.9 | 2995.2 | 2471.2 | 2347.9 | 2349.3 | 2368.0 | 2362.7 | 2350.6 | 2342.5 |
| 30°   | 4638.2 | 3812.7 | 2802.2 | 2293.0 | 2212.6 | 2207.2 | 2212.6 | 2189.8 | 2153.6 | 2150.9 |
| 32.5° | 4934.4 | 3784.5 | 2578.4 | 2134.8 | 2069.2 | 2057.1 | 2053.1 | 2020.9 | 1979.4 | 1967.3 |
| 35°   | 5202.4 | 3681.3 | 2350.6 | 2008.9 | 1932.5 | 1905.7 | 1924.4 | 1913.7 | 1876.2 | 1866.8 |
| 37.5° | 5398.0 | 3489.7 | 2145.6 | 1897.6 | 1834.6 | 1827.9 | 1840.0 | 1844.0 | 1799.8 | 1790.4 |
| 40°   | 5529.4 | 3229.7 | 1970.0 | 1803.8 | 1815.9 | 1790.4 | 1750.2 | 1722.1 | 1708.7 | 1704.6 |
| 42.5° | 5635.3 | 2959.0 | 1822.6 | 1759.6 | 1819.9 | 1746.2 | 1659.1 | 1613.5 | 1637.6 | 1648.4 |
| 45°   | 5757.2 | 2695.0 | 1699.3 | 1704.6 | 1799.8 | 1695.3 | 1596.1 | 1551.9 | 1561.3 | 1563.9 |
| 47.5° | 5924.7 | 2373.4 | 1566.6 | 1616.2 | 1732.8 | 1660.4 | 1557.2 | 1494.2 | 1450.0 | 1429.9 |
| 50°   | 6156.6 | 1992.8 | 1428.6 | 1517.0 | 1667.1 | 1635.0 | 1496.9 | 1429.9 | 1348.2 | 1329.4 |
| 52.5° | 6317.4 | 1637.6 | 1314.7 | 1433.9 | 1608.2 | 1584.0 | 1448.7 | 1361.6 | 1275.8 | 1259.7 |
| 55°   | 6230.3 | 1360.2 | 1215.5 | 1341.5 | 1530.4 | 1521.0 | 1408.5 | 1291.9 | 1224.9 | 1211.5 |
| 57.5° | 5794.7 | 1184.7 | 1139.1 | 1254.4 | 1435.3 | 1467.4 | 1354.9 | 1232.9 | 1184.7 | 1175.3 |
| 60°   | 4963.8 | 1074.8 | 1090.9 | 1195.4 | 1357.6 | 1413.8 | 1301.3 | 1200.8 | 1168.6 | 1161.9 |
| 62.5° | 3851.5 | 1001.1 | 1054.7 | 1152.5 | 1297.2 | 1376.3 | 1271.8 | 1196.7 | 1184.7 | 1176.6 |
| 65°   | 2759.3 | 942.1  | 1015.8 | 1109.6 | 1242.3 | 1341.5 | 1261.1 | 1191.4 | 1194.1 | 1187.4 |
| 67.5° | 1874.8 | 889.8  | 968.9  | 1061.4 | 1188.7 | 1310.6 | 1246.3 | 1172.6 | 1206.1 | 1198.1 |
| 70°   | 1312.0 | 838.9  | 914.0  | 999.7  | 1121.7 | 1267.8 | 1219.5 | 1144.5 | 1141.8 | 1109.6 |
| 72.5° | 1023.9 | 771.9  | 838.9  | 914.0  | 1035.9 | 1207.5 | 1165.9 | 1081.5 | 1037.3 | 1003.8 |
| 73°   | 977.0  | 755.8  | 820.2  | 895.2  | 1017.2 | 1192.7 | 1151.2 | 1064.1 | 1014.5 | 983.7  |
| 75°   | 808.1  | 686.1  | 745.1  | 812.1  | 936.8  | 1123.0 | 1078.8 | 985.0  | 922.0  | 903.2  |
| 77.5° | 635.2  | 587.0  | 643.3  | 703.6  | 825.5  | 1021.2 | 971.6  | 881.8  | 847.0  | 830.9  |
| 80°   | 470.4  | 486.5  | 536.1  | 589.7  | 715.6  | 912.6  | 868.4  | 778.6  | 934.1  | 895.2  |
| 82.5° | 331.0  | 368.5  | 414.1  | 462.3  | 600.4  | 806.8  | 753.2  | 660.7  | 683.5  | 568.2  |
| 85°   | 195.7  | 241.2  | 284.1  | 325.7  | 432.9  | 668.7  | 621.8  | 526.7  | 431.5  | 411.4  |
| 87.5° | 113.9  | 134.0  | 146.1  | 189.0  | 297.5  | 503.9  | 438.2  | 390.0  | 223.8  | 151.4  |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)