

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: P194308

Luminaire Tested: **GLEON-AF-10-LED-E1-AFL-7060-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194308  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-10-LED-E1-AFL-7060-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48835 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 419  
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



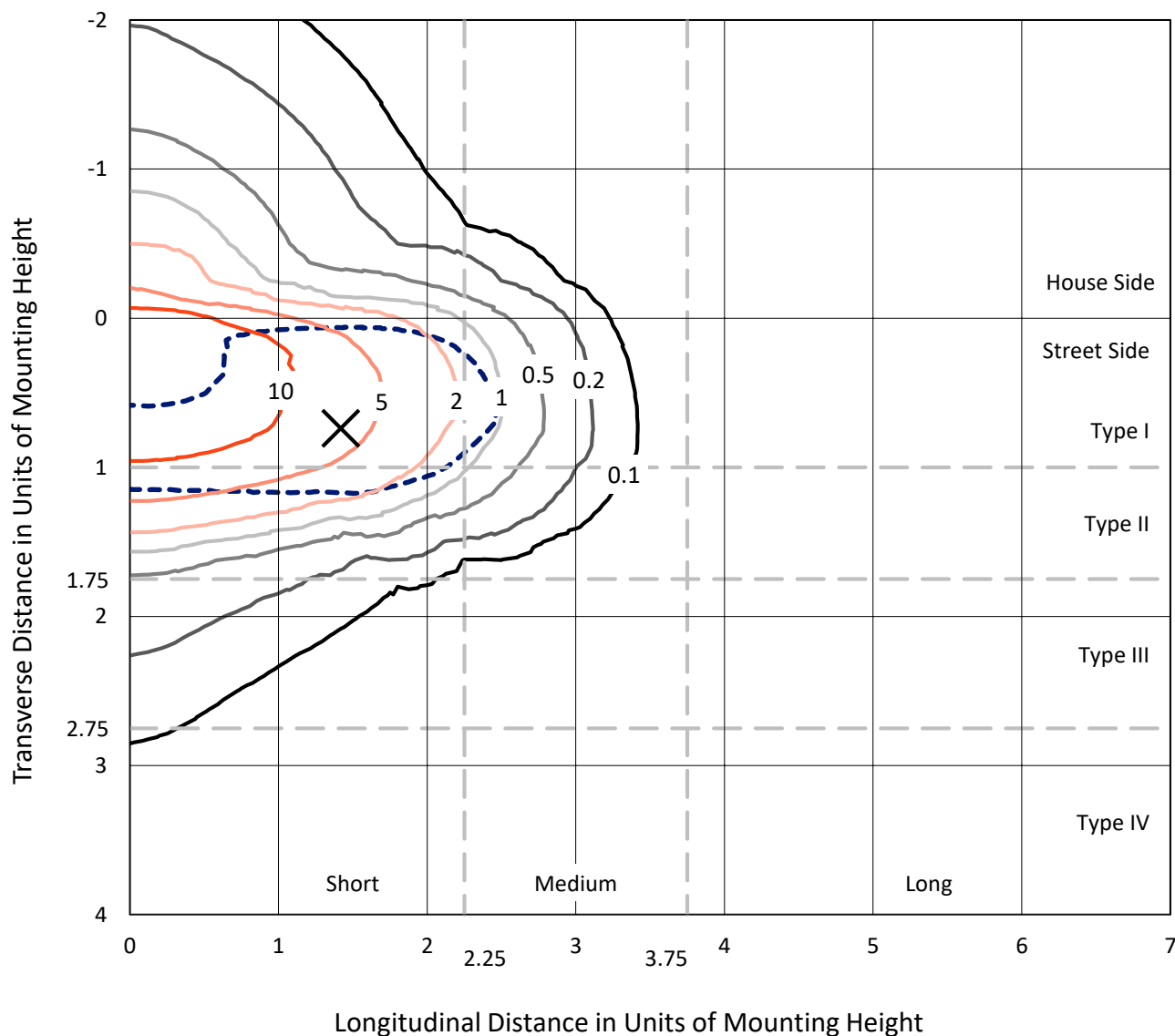
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

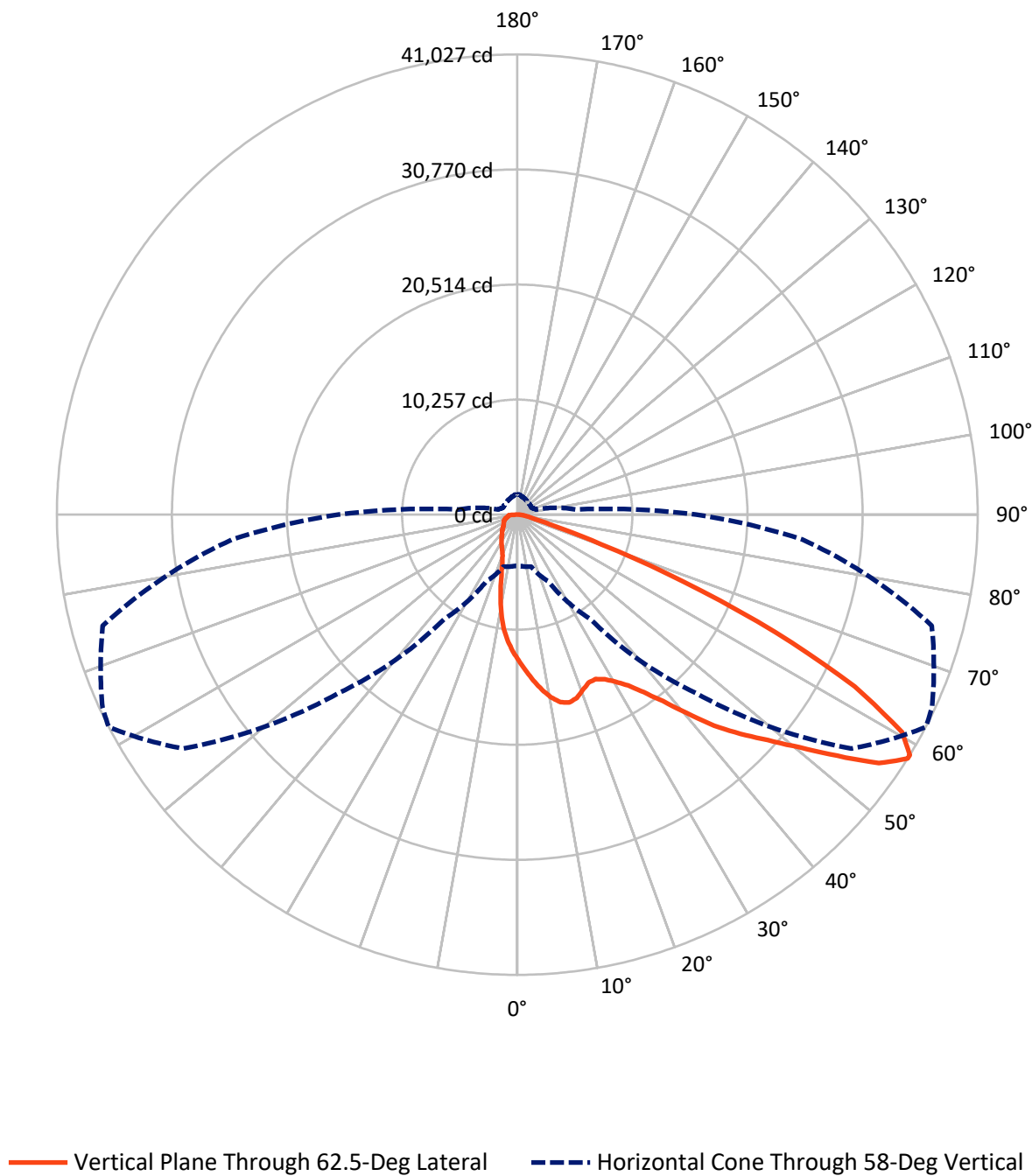


Based on 30 foot mounting height. Maximum calculated value = 17.6 fc  
Type II - Short - Full Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7447.5   | 0.0    | 7447.5  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 41387.5  | 0.0    | 41387.5 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 48835.0  | 0.0    | 48835.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1160.2  | 2.4       |
| 10°-20°   | 2965.5  | 6.1       |
| 20°-30°   | 4793.9  | 9.8       |
| 30°-40°   | 7610.3  | 15.6      |
| 40°-50°   | 11135.4 | 22.8      |
| 50°-60°   | 11646.7 | 23.8      |
| 60°-70°   | 6880.9  | 14.1      |
| 70°-80°   | 1938.4  | 4.0       |
| 80°-90°   | 703.7   | 1.4       |
| 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°    | 48835.0 | 100.0     |
| 0°-180°   | 48835.0 | 100.0     |

**Coefficient of Utilization**



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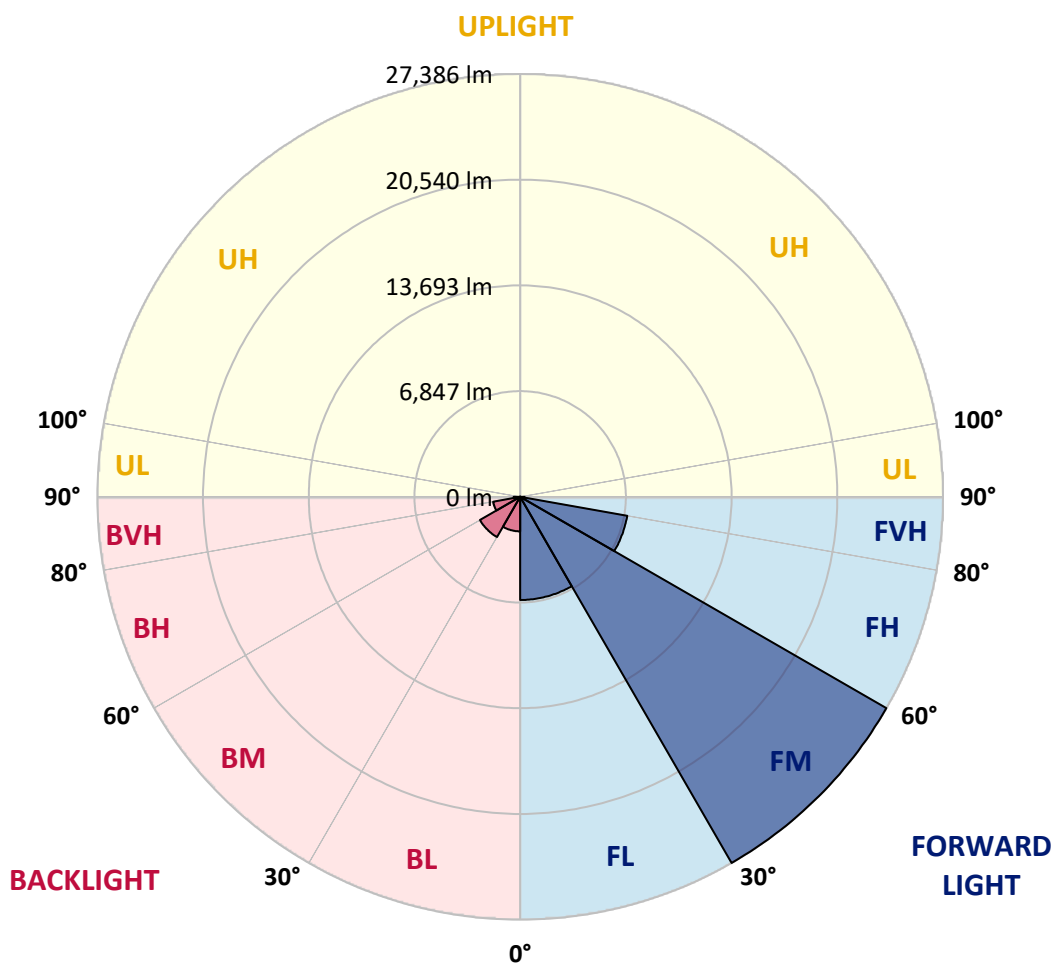
CATALOG NUMBER: GLEON-AF-10-LED-E1-AFL-7060-800

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 6681.2  | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 27386.4 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 7042.2  | 14.4      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 277.6   | 0.6       |                         |      | G3/500  |
| BL   | (0°-30°)    | 2238.4  | 4.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3006.0  | 6.2       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1777.0  | 3.6       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 426.1   | 0.9       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 62.5°   | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 |
| 2.5°  | 14823.2 | 14703.6 | 14627.7 | 14561.0 | 14473.7 | 14287.4 | 14036.7 | 13878.1 | 13797.6 | 13523.9 | 13199.7 |
| 5°    | 16276.5 | 16170.8 | 16092.6 | 16002.9 | 15846.5 | 15554.5 | 15149.7 | 14827.8 | 14669.1 | 14121.8 | 13473.3 |
| 7.5°  | 15936.2 | 15979.9 | 16115.6 | 16352.4 | 16554.8 | 16515.7 | 16154.7 | 15745.3 | 15536.1 | 14774.9 | 13790.7 |
| 10°   | 13885.0 | 13960.8 | 14195.4 | 14749.6 | 15646.5 | 16566.3 | 16846.8 | 16564.0 | 16352.4 | 15421.1 | 14117.2 |
| 12.5° | 13473.3 | 13471.0 | 13489.4 | 13636.6 | 14170.1 | 15464.8 | 16869.8 | 17155.0 | 17028.5 | 16037.4 | 14450.7 |
| 15°   | 13641.2 | 13645.8 | 13632.0 | 13694.1 | 13859.7 | 14372.5 | 16166.2 | 17382.6 | 17472.3 | 16658.3 | 14795.6 |
| 17.5° | 14082.7 | 14071.2 | 14018.3 | 14018.3 | 14078.1 | 14278.2 | 15338.3 | 17171.1 | 17585.0 | 17207.9 | 15099.1 |
| 20°   | 14823.2 | 14770.3 | 14630.0 | 14501.3 | 14436.9 | 14544.9 | 14998.0 | 16683.6 | 17389.5 | 17688.5 | 15349.8 |
| 22.5° | 15720.0 | 15678.6 | 15451.0 | 15175.0 | 14952.0 | 14949.7 | 15172.7 | 16258.1 | 17051.5 | 18141.5 | 15561.4 |
| 25°   | 16879.0 | 16812.3 | 16474.3 | 16032.8 | 15641.9 | 15492.4 | 15554.5 | 16237.5 | 16867.5 | 18633.6 | 15749.9 |
| 27.5° | 18240.4 | 18118.5 | 17718.4 | 17081.4 | 16506.5 | 16205.3 | 16115.6 | 16612.3 | 17035.4 | 19243.0 | 16012.1 |
| 30°   | 19891.5 | 19751.2 | 19238.4 | 18408.3 | 17596.5 | 17102.1 | 16911.2 | 17276.9 | 17591.9 | 19985.8 | 16432.9 |
| 32.5° | 21770.3 | 21567.9 | 20974.6 | 20059.4 | 18992.4 | 18238.1 | 17927.7 | 18155.3 | 18406.0 | 20880.3 | 16959.5 |
| 35°   | 24366.5 | 24125.1 | 23267.3 | 22004.8 | 20799.8 | 19762.7 | 19266.0 | 19431.6 | 19675.3 | 22214.1 | 17720.7 |
| 37.5° | 26137.2 | 26029.1 | 25458.8 | 24272.2 | 22961.5 | 21768.0 | 20999.9 | 21096.5 | 21234.5 | 23881.3 | 18695.7 |
| 40°   | 26121.1 | 26164.8 | 26176.3 | 26187.8 | 25295.6 | 24152.7 | 23327.1 | 23225.9 | 23198.3 | 25711.8 | 19804.1 |
| 42.5° | 24812.6 | 24992.0 | 25571.5 | 26746.6 | 27289.3 | 26765.0 | 26008.4 | 25716.4 | 25571.5 | 27868.8 | 20979.2 |
| 45°   | 22809.7 | 22906.3 | 23991.7 | 26286.7 | 28310.3 | 29352.0 | 28779.4 | 27859.6 | 27597.5 | 29851.1 | 21954.2 |
| 47.5° | 21777.2 | 21883.0 | 22565.9 | 25067.9 | 28298.8 | 31442.4 | 31773.5 | 30021.2 | 29552.1 | 31575.8 | 22795.9 |
| 50°   | 19318.9 | 19539.7 | 20399.7 | 22947.7 | 27266.3 | 32403.6 | 34903.3 | 32596.8 | 31626.3 | 33254.5 | 23639.9 |
| 52.5° | 14804.8 | 15145.1 | 16108.7 | 19461.5 | 24647.1 | 31927.6 | 37407.5 | 35719.6 | 34349.1 | 34993.0 | 24364.2 |
| 55°   | 9338.7  | 9591.6  | 10401.1 | 13744.7 | 19716.7 | 29450.9 | 38357.3 | 39097.7 | 37879.0 | 36639.5 | 24992.0 |
| 57.5° | 5077.5  | 5190.2  | 5493.7  | 7588.7  | 12824.8 | 23975.6 | 36972.9 | 41020.2 | 40514.3 | 38037.6 | 25465.7 |
| 58°   | 4544.0  | 4619.9  | 4808.5  | 6576.8  | 11373.8 | 22478.6 | 36358.9 | 41027.1 | 40774.1 | 38242.3 | 25502.5 |
| 60°   | 3371.2  | 3332.1  | 3164.2  | 3752.9  | 6330.8  | 15529.2 | 32647.4 | 39385.2 | 40128.0 | 38492.9 | 25323.2 |
| 62.5° | 2961.9  | 2867.6  | 2525.0  | 2485.9  | 3079.2  | 7154.0  | 24980.5 | 33737.4 | 35492.0 | 37062.6 | 24233.1 |
| 65°   | 2782.5  | 2681.3  | 2239.8  | 2097.2  | 2221.4  | 3026.3  | 14715.1 | 25302.5 | 27503.2 | 32725.6 | 21446.0 |
| 67.5° | 2649.1  | 2518.1  | 2058.1  | 1862.7  | 1871.9  | 2000.6  | 5898.5  | 15936.2 | 18412.9 | 24847.1 | 16681.3 |
| 70°   | 2520.4  | 2377.8  | 1904.1  | 1678.7  | 1625.8  | 1582.1  | 2345.6  | 7977.3  | 10224.0 | 15694.7 | 10635.6 |
| 72.5° | 2382.4  | 2242.1  | 1768.4  | 1533.8  | 1430.3  | 1285.5  | 1531.5  | 3263.1  | 4557.8  | 7425.4  | 4824.6  |
| 75°   | 2182.3  | 2055.8  | 1632.7  | 1405.1  | 1257.9  | 1064.7  | 1156.7  | 1704.0  | 2044.3  | 2957.3  | 2324.9  |
| 77.5° | 1936.3  | 1832.8  | 1480.9  | 1299.3  | 1115.3  | 864.6   | 889.9   | 1182.0  | 1310.8  | 1692.5  | 1382.1  |
| 80°   | 1391.3  | 1428.0  | 1317.7  | 1168.2  | 993.4   | 701.4   | 683.0   | 862.3   | 931.3   | 1087.7  | 899.1   |
| 82.5° | 977.3   | 998.0   | 1090.0  | 954.3   | 821.0   | 551.9   | 503.6   | 607.1   | 648.5   | 715.2   | 485.2   |
| 85°   | 673.8   | 650.8   | 747.4   | 664.6   | 593.3   | 367.9   | 344.9   | 411.6   | 436.9   | 443.8   | 250.7   |
| 87.5° | 404.7   | 404.7   | 432.3   | 356.4   | 319.6   | 190.9   | 186.3   | 234.6   | 250.7   | 239.2   | 138.0   |
| 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):**

|       | 90°     | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 | 12972.0 |
| 2.5°  | 13006.5 | 12843.2 | 12496.0 | 12217.8 | 11865.9 | 11500.3 | 11295.6 | 11077.2 | 10927.7 | 10819.6 | 10992.1 |
| 5°    | 13105.4 | 12772.0 | 12054.5 | 11373.8 | 10621.8 | 9840.0  | 9246.7  | 8694.8  | 8310.7  | 8071.6  | 8296.9  |
| 7.5°  | 13261.8 | 12749.0 | 11606.1 | 10442.5 | 9092.6  | 7791.0  | 6627.4  | 5898.5  | 5473.0  | 5263.8  | 5394.9  |
| 10°   | 13441.1 | 12712.2 | 11079.5 | 9180.0  | 7248.3  | 5608.7  | 4739.5  | 4445.1  | 4348.5  | 4309.4  | 4327.8  |
| 12.5° | 13590.6 | 12634.0 | 10433.3 | 7653.1  | 5443.1  | 4429.0  | 4178.4  | 4171.5  | 4192.2  | 4196.8  | 4203.7  |
| 15°   | 13696.4 | 12519.0 | 9474.3  | 6061.7  | 4353.1  | 4035.8  | 4022.0  | 4063.4  | 4102.5  | 4118.6  | 4127.8  |
| 17.5° | 13767.7 | 12282.1 | 8391.2  | 4792.4  | 3900.1  | 3844.9  | 3877.1  | 3930.0  | 3971.4  | 3982.9  | 3992.1  |
| 20°   | 13760.8 | 11934.9 | 7101.2  | 3996.7  | 3654.1  | 3654.1  | 3709.2  | 3750.6  | 3752.9  | 3739.1  | 3746.0  |
| 22.5° | 13689.5 | 11458.9 | 5850.2  | 3573.6  | 3435.6  | 3474.7  | 3529.9  | 3490.8  | 3329.8  | 3224.0  | 3230.9  |
| 25°   | 13569.9 | 10890.9 | 4778.6  | 3304.5  | 3233.2  | 3302.2  | 3286.1  | 2991.8  | 2761.8  | 2658.3  | 2658.3  |
| 27.5° | 13464.1 | 10219.4 | 3955.3  | 3070.0  | 3030.9  | 3116.0  | 2830.8  | 2564.0  | 2467.5  | 2419.2  | 2403.1  |
| 30°   | 13388.3 | 9495.0  | 3405.7  | 2844.6  | 2840.0  | 2777.9  | 2456.0  | 2382.4  | 2366.3  | 2327.2  | 2313.4  |
| 32.5° | 13406.6 | 8761.5  | 3053.9  | 2646.8  | 2662.9  | 2377.8  | 2276.6  | 2292.7  | 2278.9  | 2237.5  | 2219.1  |
| 35°   | 13558.4 | 8064.7  | 2823.9  | 2467.5  | 2419.2  | 2147.8  | 2170.8  | 2200.7  | 2196.1  | 2138.6  | 2120.2  |
| 37.5° | 13829.8 | 7404.7  | 2672.1  | 2318.0  | 2111.0  | 2032.8  | 2069.6  | 2115.6  | 2104.1  | 2065.0  | 2051.2  |
| 40°   | 14114.9 | 6783.8  | 2548.0  | 2200.7  | 1929.4  | 1954.7  | 1986.9  | 2012.1  | 2023.6  | 2035.1  | 2025.9  |
| 42.5° | 14393.2 | 6135.3  | 2396.2  | 2081.1  | 1853.5  | 1881.1  | 1894.9  | 1920.2  | 1982.3  | 2025.9  | 2023.6  |
| 45°   | 14558.7 | 5525.9  | 2239.8  | 1911.0  | 1793.7  | 1809.8  | 1800.6  | 1851.2  | 1927.1  | 1998.3  | 2000.6  |
| 47.5° | 14742.7 | 5052.2  | 2115.6  | 1754.6  | 1736.2  | 1747.7  | 1720.1  | 1770.7  | 1839.7  | 1927.1  | 1936.3  |
| 50°   | 14965.8 | 4769.4  | 2016.7  | 1630.4  | 1658.0  | 1658.0  | 1651.1  | 1697.1  | 1793.7  | 1894.9  | 1913.3  |
| 52.5° | 15218.7 | 4714.2  | 1934.0  | 1540.7  | 1579.8  | 1577.5  | 1584.4  | 1653.4  | 1759.2  | 1858.1  | 1874.2  |
| 55°   | 15526.9 | 4863.6  | 1844.3  | 1474.0  | 1503.9  | 1513.1  | 1536.1  | 1614.3  | 1704.0  | 1816.7  | 1823.6  |
| 57.5° | 15885.6 | 5167.2  | 1773.0  | 1421.2  | 1434.9  | 1464.8  | 1501.6  | 1572.9  | 1669.5  | 1793.7  | 1800.6  |
| 58°   | 15945.4 | 5231.6  | 1761.5  | 1416.6  | 1421.2  | 1455.6  | 1497.0  | 1566.0  | 1662.6  | 1798.3  | 1805.2  |
| 60°   | 15947.7 | 5445.4  | 1736.2  | 1395.9  | 1368.3  | 1425.7  | 1471.7  | 1540.7  | 1651.1  | 1814.4  | 1830.5  |
| 62.5° | 15382.0 | 5443.1  | 1717.8  | 1366.0  | 1313.1  | 1384.4  | 1437.2  | 1517.7  | 1639.6  | 1853.5  | 1885.7  |
| 65°   | 13544.6 | 4946.4  | 1630.4  | 1320.0  | 1269.4  | 1347.6  | 1407.4  | 1501.6  | 1671.8  | 2023.6  | 2044.3  |
| 67.5° | 10594.2 | 4054.2  | 1467.1  | 1255.6  | 1211.9  | 1310.8  | 1389.0  | 1499.3  | 1706.3  | 2062.7  | 2076.5  |
| 70°   | 7004.6  | 3033.2  | 1287.8  | 1182.0  | 1152.1  | 1267.1  | 1398.2  | 1577.5  | 1667.2  | 1980.0  | 1943.2  |
| 72.5° | 3635.7  | 2129.4  | 1142.9  | 1090.0  | 1083.1  | 1228.0  | 1531.5  | 1568.3  | 1628.1  | 1862.7  | 1816.7  |
| 75°   | 1908.7  | 1478.6  | 1016.4  | 988.8   | 1000.3  | 1218.8  | 1807.5  | 1526.9  | 1577.5  | 1782.2  | 1869.6  |
| 77.5° | 1168.2  | 1193.5  | 908.3   | 896.8   | 919.8   | 1191.2  | 1805.2  | 1474.0  | 1503.9  | 1639.6  | 1736.2  |
| 80°   | 781.9   | 968.1   | 825.6   | 827.9   | 844.0   | 1090.0  | 1621.2  | 1391.3  | 1414.3  | 1549.9  | 1648.8  |
| 82.5° | 494.4   | 572.6   | 749.7   | 788.8   | 768.1   | 899.1   | 1377.5  | 1267.1  | 1299.3  | 1773.0  | 1874.2  |
| 85°   | 250.7   | 358.7   | 650.8   | 758.9   | 692.2   | 630.1   | 1117.6  | 1110.7  | 1126.8  | 1278.6  | 1336.1  |
| 87.5° | 115.0   | 197.8   | 508.2   | 662.3   | 522.0   | 393.2   | 811.8   | 823.3   | 887.6   | 908.3   | 908.3   |
| 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)