

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: P531374

Luminaire Tested: **GALN-SA6C-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-830-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29894 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 321  
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

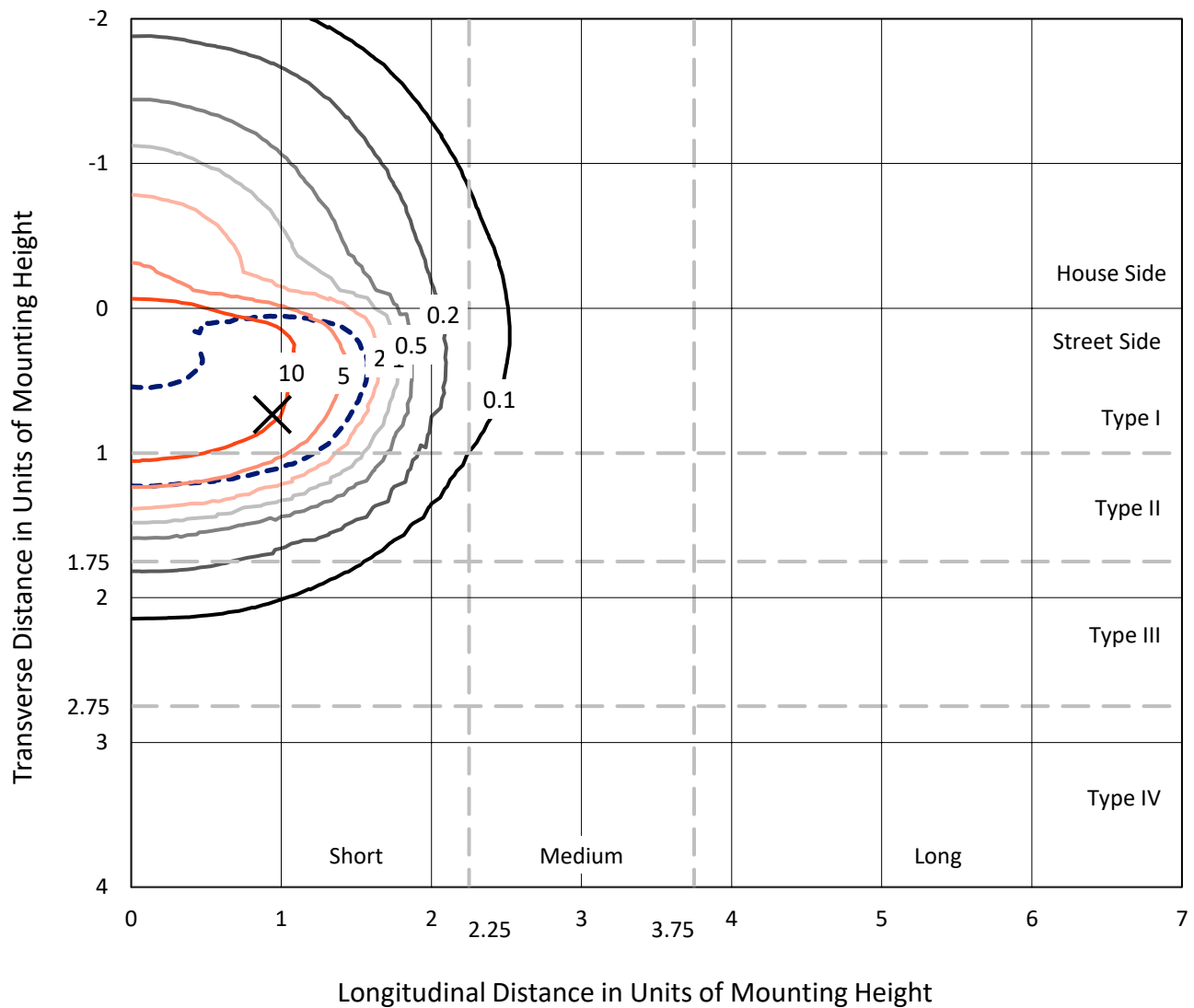


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

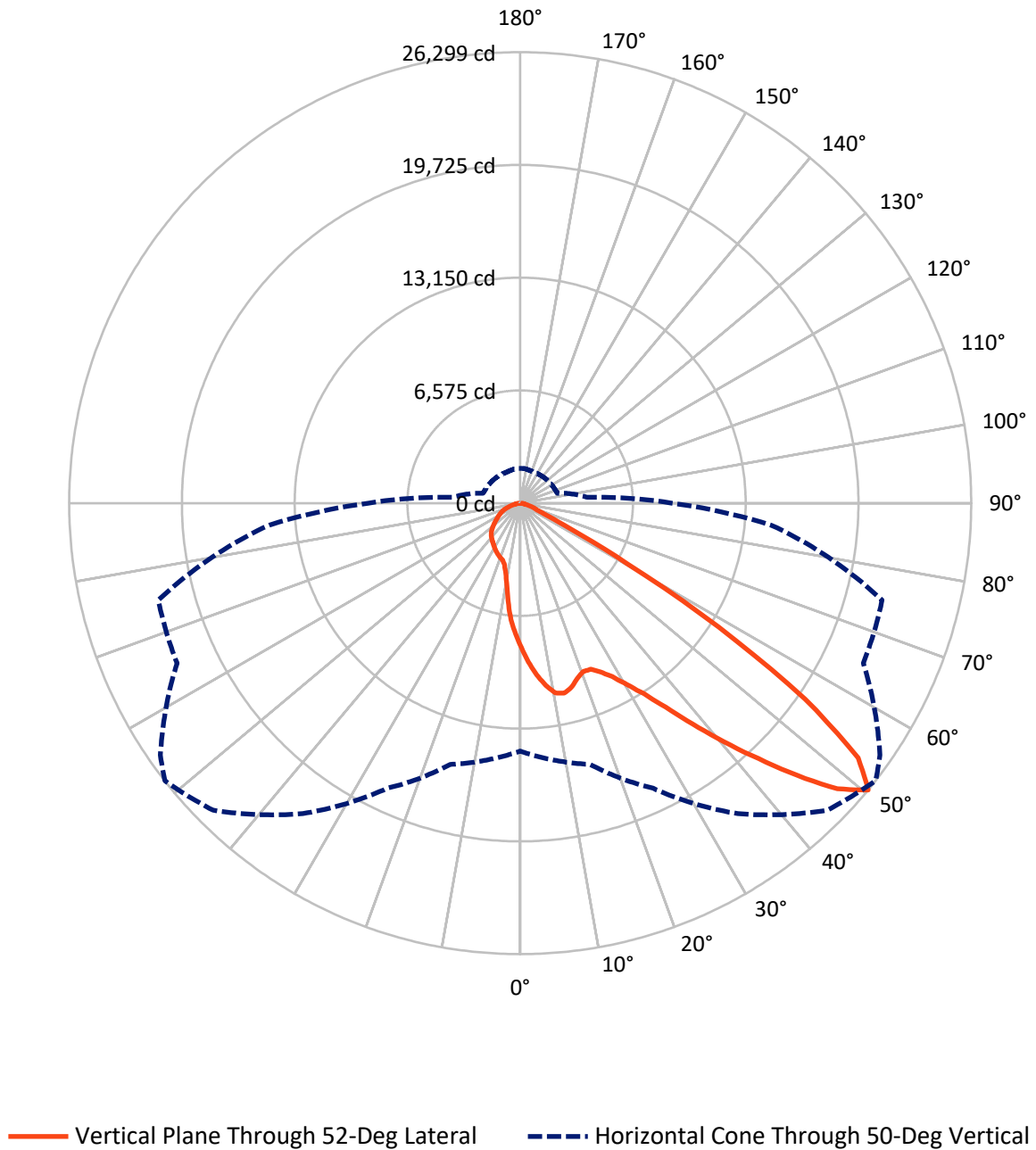


Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5619.4   | 0.0    | 5619.4  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 24274.6  | 0.0    | 24274.6 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 29894.0  | 0.0    | 29894.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 776.7   | 2.6       |
| 10°-20°   | 2081.7  | 7.0       |
| 20°-30°   | 3506.5  | 11.7      |
| 30°-40°   | 5884.3  | 19.7      |
| 40°-50°   | 9001.5  | 30.1      |
| 50°-60°   | 6562.8  | 22.0      |
| 60°-70°   | 1460.5  | 4.9       |
| 70°-80°   | 526.8   | 1.8       |
| 80°-90°   | 93.2    | 0.3       |
| 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°    | 29894.0 | 100.0     |
| 0°-180°   | 29894.0 | 100.0     |

**Coefficient of Utilization**



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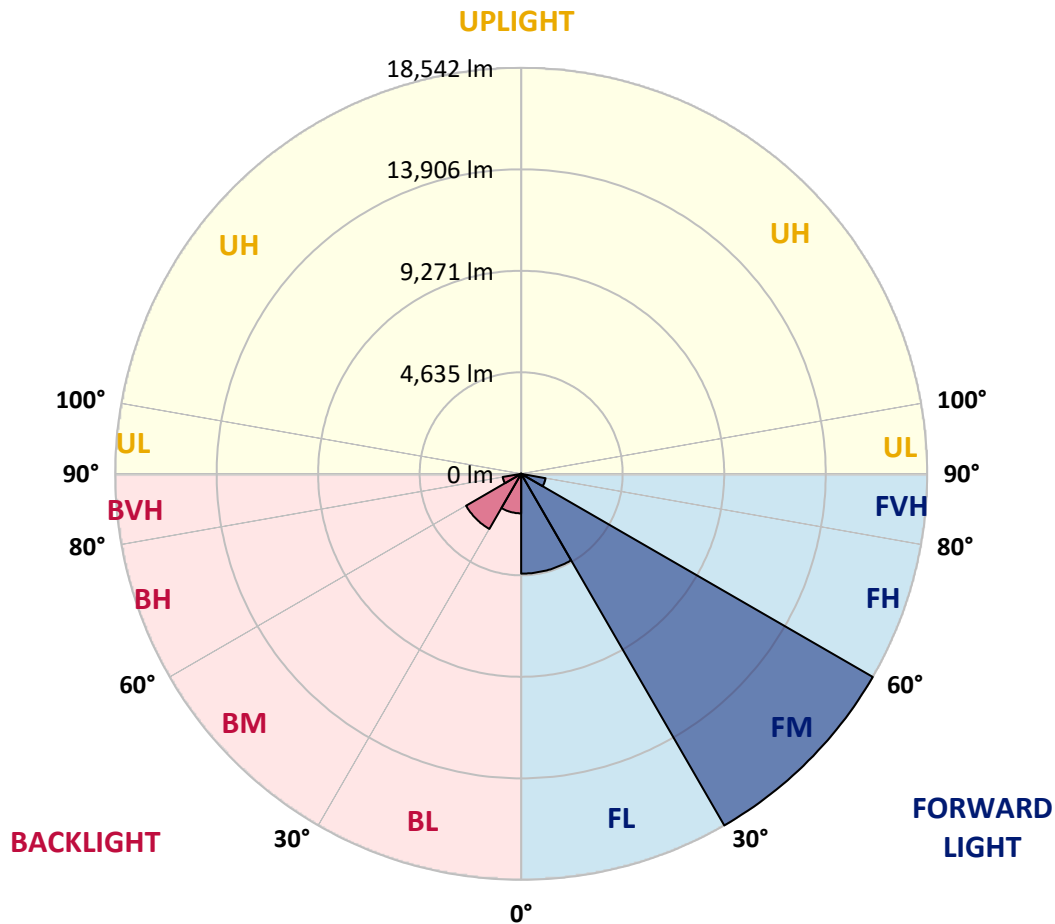
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4559.9  | 15.3      |                         |      |         |
| FM   | (30°-60°)   | 18541.8 | 62.0      |                         |      |         |
| FH   | (60°-80°)   | 1131.2  | 3.8       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 41.8    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1805.1  | 6.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2906.7  | 9.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 856.1   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 51.5    | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8426.6  | 8426.6  | 8426.6  | 8426.6  | 8426.6  | 8426.6  | 8426.6  | 8426.6  | 8426.6  | 8426.6  | 8426.6  |
| 2.5°  | 9921.7  | 9730.8  | 9752.4  | 9615.5  | 9467.8  | 9424.6  | 9273.2  | 9129.1  | 9021.1  | 8790.5  | 8577.9  |
| 5°    | 10844.0 | 10786.4 | 10699.9 | 10591.8 | 10480.1 | 10206.3 | 10051.4 | 9871.3  | 9475.0  | 9118.3  | 8765.3  |
| 7.5°  | 10977.3 | 10966.5 | 11013.3 | 11013.3 | 11053.0 | 10948.5 | 10728.7 | 10602.6 | 10181.1 | 9601.1  | 8945.4  |
| 10°   | 10040.6 | 10073.0 | 10300.0 | 10595.4 | 11006.1 | 11290.7 | 11254.7 | 11222.3 | 10761.1 | 9968.6  | 9158.0  |
| 12.5° | 9294.9  | 9222.8  | 9356.1  | 9608.3  | 10224.4 | 10912.5 | 11377.2 | 11380.8 | 11261.9 | 10555.8 | 9312.9  |
| 15°   | 8873.4  | 8923.8  | 8959.8  | 9078.7  | 9543.4  | 10339.6 | 11157.4 | 11398.8 | 11921.2 | 10970.1 | 9557.9  |
| 17.5° | 9143.6  | 8974.2  | 8967.0  | 8995.8  | 9233.6  | 9831.7  | 10750.3 | 11164.6 | 12281.5 | 11503.3 | 9860.5  |
| 20°   | 9496.6  | 9493.0  | 9392.1  | 9356.1  | 9352.5  | 9885.7  | 10483.7 | 11045.8 | 12472.4 | 12195.0 | 10166.7 |
| 22.5° | 10116.3 | 10116.3 | 9950.5  | 9871.3  | 9702.0  | 10137.9 | 10519.8 | 10901.7 | 12789.4 | 12670.6 | 10314.4 |
| 25°   | 11153.8 | 10984.5 | 10699.9 | 10505.4 | 10408.1 | 10563.0 | 10901.7 | 11243.9 | 13066.8 | 13174.9 | 10620.6 |
| 27.5° | 12112.1 | 11845.5 | 11705.0 | 11370.0 | 11240.3 | 11150.2 | 11460.1 | 11805.9 | 13391.1 | 13960.3 | 10786.4 |
| 30°   | 13200.1 | 13153.3 | 12901.1 | 12468.8 | 12148.2 | 11982.4 | 12267.1 | 12609.3 | 13985.5 | 14763.7 | 11168.2 |
| 32.5° | 15145.6 | 14720.5 | 14378.2 | 13848.6 | 13326.2 | 12973.2 | 13254.2 | 13481.2 | 14972.7 | 15603.1 | 11586.2 |
| 35°   | 17245.9 | 17109.0 | 16518.2 | 15563.5 | 14763.7 | 14446.7 | 14612.4 | 14781.7 | 16121.9 | 16885.7 | 12288.7 |
| 37.5° | 19310.3 | 19122.9 | 18636.6 | 17833.2 | 16860.5 | 16215.6 | 16334.5 | 16532.6 | 17411.7 | 18614.9 | 13146.1 |
| 40°   | 20794.6 | 20564.0 | 20319.0 | 20200.1 | 19234.6 | 18352.0 | 18283.5 | 18333.9 | 19155.3 | 20236.1 | 14097.2 |
| 42.5° | 20902.6 | 21187.2 | 21262.9 | 21742.1 | 21515.1 | 20791.0 | 20369.4 | 20380.3 | 20819.8 | 21839.3 | 15059.1 |
| 45°   | 20675.7 | 20412.7 | 20971.1 | 22278.9 | 23028.2 | 23366.9 | 22657.1 | 22567.1 | 21850.1 | 22768.8 | 15538.3 |
| 47.5° | 18294.3 | 18366.4 | 19310.3 | 21378.2 | 23543.4 | 25056.5 | 24890.8 | 24591.8 | 22401.3 | 22736.4 | 15462.6 |
| 50°   | 14461.1 | 14897.0 | 15772.4 | 18348.4 | 22102.3 | 25323.1 | 26299.4 | 25607.7 | 22073.5 | 21842.9 | 14691.6 |
| 52.5° | 9629.9  | 9810.0  | 10386.5 | 13711.7 | 17771.9 | 22635.5 | 24678.2 | 24836.7 | 21770.9 | 20672.1 | 13715.3 |
| 55°   | 4287.2  | 4272.8  | 5083.4  | 7162.1  | 11150.2 | 17224.3 | 20164.1 | 21129.6 | 20607.2 | 19479.6 | 12764.2 |
| 57.5° | 1815.7  | 1877.0  | 2208.4  | 3094.7  | 5483.2  | 10393.7 | 13661.3 | 14507.9 | 15848.1 | 15995.8 | 9792.0  |
| 60°   | 1228.5  | 1235.7  | 1325.8  | 1549.1  | 2294.9  | 4881.6  | 7165.7  | 8181.6  | 9139.9  | 9075.1  | 5195.0  |
| 62.5° | 965.5   | 990.7   | 1059.2  | 1149.2  | 1361.8  | 2215.6  | 3206.4  | 3772.0  | 3833.2  | 3224.4  | 1970.7  |
| 65°   | 825.0   | 828.6   | 897.1   | 972.7   | 1066.4  | 1289.8  | 1545.5  | 1574.4  | 1592.4  | 1534.7  | 1448.3  |
| 67.5° | 680.9   | 688.1   | 742.1   | 828.6   | 915.1   | 987.1   | 1059.2  | 1095.2  | 1178.1  | 1340.2  | 1318.6  |
| 70°   | 540.4   | 551.2   | 598.0   | 670.1   | 749.4   | 792.6   | 882.7   | 915.1   | 990.7   | 1116.8  | 1167.3  |
| 72.5° | 410.7   | 414.3   | 453.9   | 504.4   | 576.4   | 619.7   | 695.3   | 731.3   | 781.8   | 889.9   | 936.7   |
| 75°   | 295.4   | 306.2   | 335.0   | 360.3   | 371.1   | 399.9   | 471.9   | 511.6   | 583.6   | 630.5   | 634.1   |
| 77.5° | 154.9   | 162.1   | 169.3   | 169.3   | 205.4   | 259.4   | 306.2   | 327.8   | 378.3   | 414.3   | 396.3   |
| 80°   | 61.2    | 64.8    | 82.9    | 111.7   | 144.1   | 187.3   | 219.8   | 230.6   | 273.8   | 295.4   | 306.2   |
| 82.5° | 36.0    | 39.6    | 54.0    | 79.3    | 104.5   | 133.3   | 158.5   | 169.3   | 198.1   | 223.4   | 230.6   |
| 85°   | 18.0    | 21.6    | 32.4    | 50.4    | 68.5    | 82.9    | 79.3    | 75.7    | 75.7    | 72.1    | 75.7    |
| 87.5° | 7.2     | 7.2     | 10.8    | 10.8    | 10.8    | 14.4    | 18.0    | 18.0    | 18.0    | 21.6    | 21.6    |
| 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°    | 8426.6 | 8426.6 | 8426.6 | 8426.6 | 8426.6 | 8426.6 | 8426.6 | 8426.6 | 8426.6 | 8426.6 | 8426.6 |
| 2.5°  | 8437.4 | 8293.3 | 8160.0 | 7915.0 | 7648.4 | 7572.8 | 7263.0 | 7151.3 | 7072.0 | 6978.4 | 6949.5 |
| 5°    | 8480.7 | 8289.7 | 7861.0 | 7367.4 | 6974.8 | 6470.4 | 6138.9 | 5782.3 | 5522.9 | 5458.0 | 5440.0 |
| 7.5°  | 8570.7 | 8242.9 | 7504.3 | 6758.6 | 5955.2 | 5270.7 | 4748.3 | 4467.3 | 4218.7 | 4204.3 | 4179.1 |
| 10°   | 8671.6 | 8102.4 | 7115.3 | 5944.4 | 4917.6 | 4283.6 | 3970.1 | 3847.6 | 3786.4 | 3772.0 | 3764.8 |
| 12.5° | 8754.5 | 8073.6 | 6679.3 | 5151.8 | 4182.7 | 3800.8 | 3707.1 | 3696.3 | 3721.5 | 3728.8 | 3743.2 |
| 15°   | 8790.5 | 7958.3 | 6153.3 | 4442.1 | 3725.2 | 3584.6 | 3624.3 | 3667.5 | 3685.5 | 3732.4 | 3696.3 |
| 17.5° | 8858.9 | 7810.6 | 5504.9 | 3880.1 | 3469.4 | 3494.6 | 3563.0 | 3613.5 | 3642.3 | 3674.7 | 3627.9 |
| 20°   | 8895.0 | 7677.3 | 4896.0 | 3545.0 | 3379.3 | 3426.1 | 3519.8 | 3559.4 | 3595.5 | 3609.9 | 3555.8 |
| 22.5° | 8862.5 | 7403.5 | 4359.2 | 3274.8 | 3292.8 | 3354.1 | 3436.9 | 3480.2 | 3458.6 | 3400.9 | 3368.5 |
| 25°   | 8776.1 | 7018.0 | 3800.8 | 3101.9 | 3170.3 | 3278.4 | 3343.3 | 3310.8 | 3271.2 | 3238.8 | 3228.0 |
| 27.5° | 8772.5 | 6546.0 | 3397.3 | 2943.4 | 3065.9 | 3213.6 | 3192.0 | 3163.1 | 3181.1 | 3155.9 | 3127.1 |
| 30°   | 8790.5 | 6088.5 | 3065.9 | 2853.3 | 2990.2 | 3062.3 | 3087.5 | 3058.7 | 3080.3 | 3033.4 | 3047.9 |
| 32.5° | 8696.8 | 5641.8 | 2849.7 | 2748.8 | 2900.1 | 2896.5 | 2979.4 | 3001.0 | 2950.6 | 2853.3 | 2867.7 |
| 35°   | 8736.5 | 5281.5 | 2666.0 | 2702.0 | 2799.3 | 2799.3 | 2864.1 | 2838.9 | 2705.6 | 2648.0 | 2662.4 |
| 37.5° | 9010.3 | 4928.4 | 2575.9 | 2637.1 | 2702.0 | 2730.8 | 2709.2 | 2601.1 | 2568.7 | 2568.7 | 2575.9 |
| 40°   | 9269.6 | 4625.8 | 2521.9 | 2622.7 | 2611.9 | 2629.9 | 2471.4 | 2482.2 | 2482.2 | 2485.8 | 2467.8 |
| 42.5° | 9500.2 | 4420.5 | 2478.6 | 2536.3 | 2554.3 | 2460.6 | 2363.3 | 2352.5 | 2377.8 | 2374.2 | 2359.7 |
| 45°   | 9583.1 | 4251.1 | 2417.4 | 2439.0 | 2453.4 | 2298.5 | 2251.7 | 2230.0 | 2258.9 | 2269.7 | 2284.1 |
| 47.5° | 9266.0 | 4110.6 | 2348.9 | 2305.7 | 2276.9 | 2176.0 | 2114.8 | 2075.1 | 2111.2 | 2172.4 | 2186.8 |
| 50°   | 8858.9 | 3926.9 | 2240.9 | 2158.0 | 2096.7 | 2053.5 | 2010.3 | 1970.7 | 1995.9 | 2039.1 | 2028.3 |
| 52.5° | 8257.3 | 3638.7 | 2104.0 | 2017.5 | 1913.0 | 1923.8 | 1884.2 | 1862.6 | 1877.0 | 1877.0 | 1866.2 |
| 55°   | 7399.9 | 2990.2 | 1873.4 | 1812.1 | 1725.7 | 1754.5 | 1761.7 | 1732.9 | 1704.1 | 1729.3 | 1707.7 |
| 57.5° | 5050.9 | 2111.2 | 1671.6 | 1671.6 | 1585.2 | 1624.8 | 1621.2 | 1552.7 | 1484.3 | 1491.5 | 1477.1 |
| 60°   | 2921.8 | 1682.4 | 1541.9 | 1527.5 | 1437.5 | 1469.9 | 1477.1 | 1430.3 | 1325.8 | 1333.0 | 1318.6 |
| 62.5° | 1660.8 | 1437.5 | 1347.4 | 1325.8 | 1307.8 | 1336.6 | 1336.6 | 1275.3 | 1185.3 | 1192.5 | 1178.1 |
| 65°   | 1412.2 | 1333.0 | 1203.3 | 1199.7 | 1192.5 | 1199.7 | 1170.9 | 1106.0 | 1026.8 | 994.3  | 997.9  |
| 67.5° | 1282.5 | 1232.1 | 1106.0 | 1073.6 | 1052.0 | 1048.4 | 994.3  | 933.1  | 897.1  | 868.2  | 864.6  |
| 70°   | 1124.0 | 1084.4 | 990.7  | 947.5  | 925.9  | 875.4  | 821.4  | 781.8  | 731.3  | 716.9  | 731.3  |
| 72.5° | 889.9  | 886.3  | 850.2  | 803.4  | 756.6  | 716.9  | 670.1  | 616.1  | 569.2  | 558.4  | 533.2  |
| 75°   | 616.1  | 623.3  | 630.5  | 623.3  | 583.6  | 533.2  | 479.2  | 435.9  | 378.3  | 345.9  | 338.7  |
| 77.5° | 403.5  | 414.3  | 425.1  | 410.7  | 385.5  | 338.7  | 302.6  | 248.6  | 205.4  | 180.1  | 176.5  |
| 80°   | 295.4  | 309.8  | 317.0  | 306.2  | 277.4  | 241.4  | 201.7  | 158.5  | 126.1  | 104.5  | 104.5  |
| 82.5° | 227.0  | 241.4  | 248.6  | 230.6  | 201.7  | 172.9  | 144.1  | 111.7  | 86.5   | 68.5   | 64.8   |
| 85°   | 79.3   | 75.7   | 90.1   | 93.7   | 111.7  | 104.5  | 86.5   | 64.8   | 50.4   | 36.0   | 32.4   |
| 87.5° | 21.6   | 21.6   | 25.2   | 25.2   | 21.6   | 18.0   | 18.0   | 18.0   | 14.4   | 10.8   | 10.8   |
| 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)