

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: P452357

Luminaire Tested: **GALN-SA3B-740-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452357  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-740-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12471 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

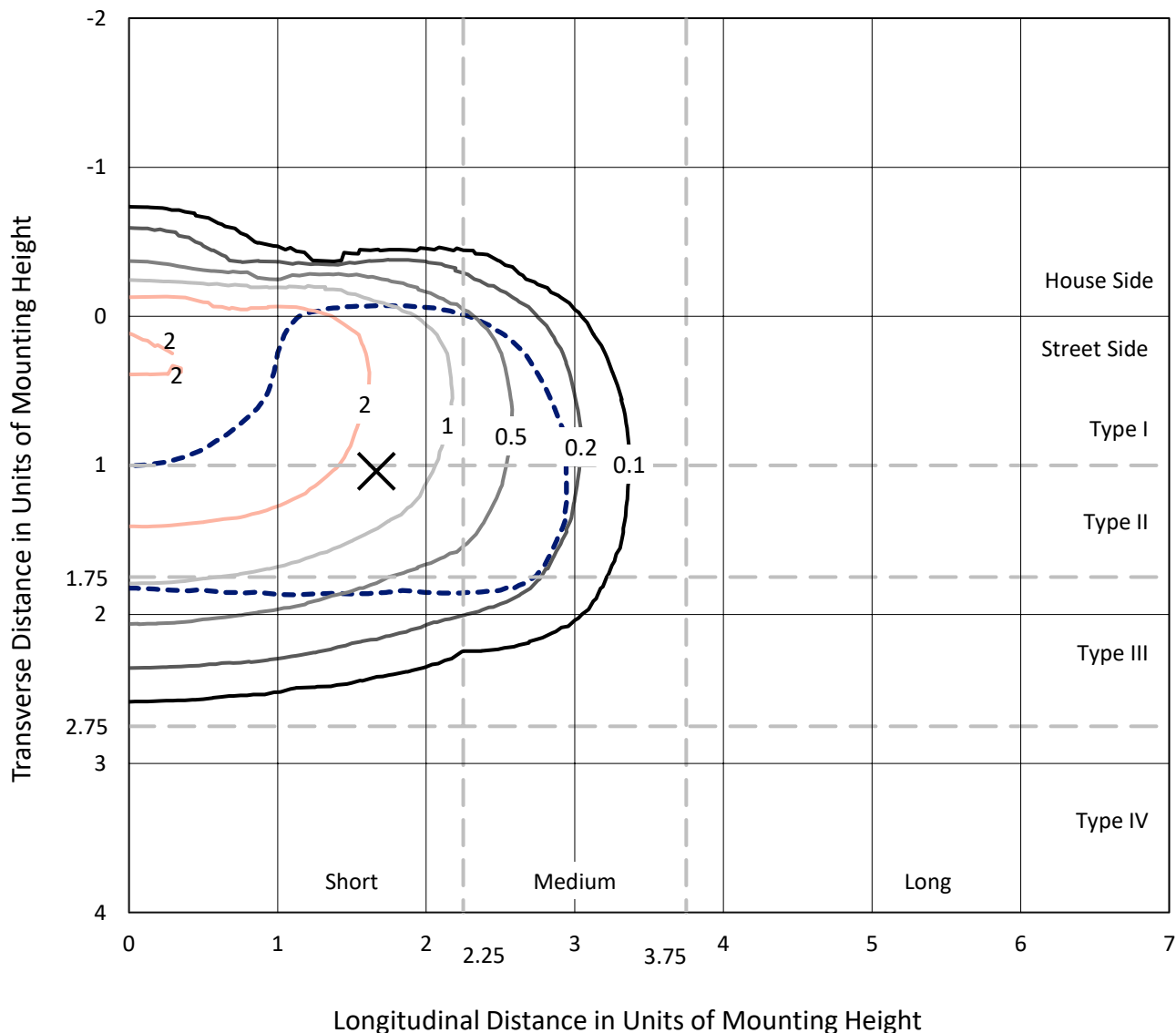
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

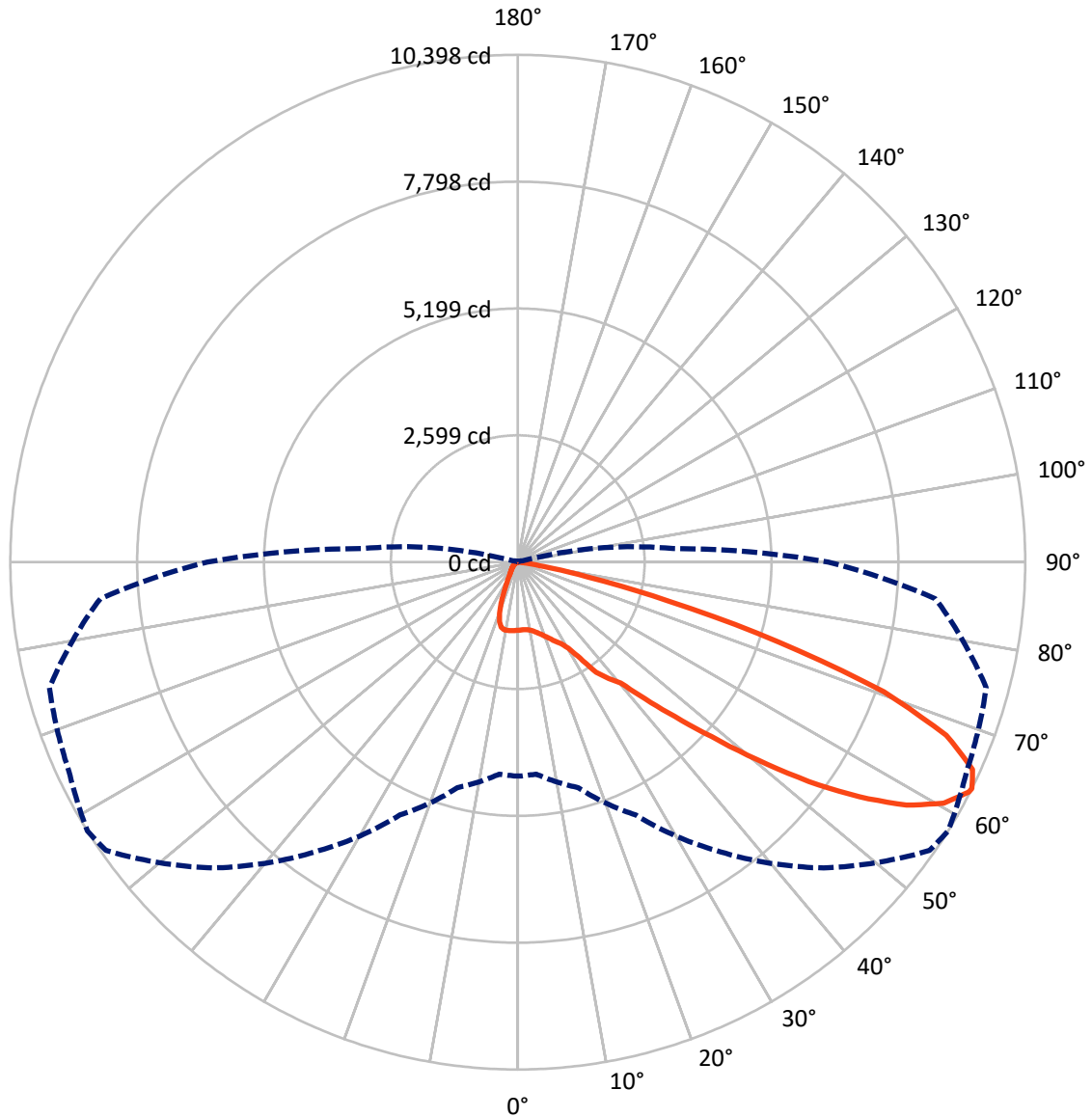
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1291.3   | 0.0    | 1291.3  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 11179.7  | 0.0    | 11179.7 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 12471.0  | 0.0    | 12471.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 130.7   | 1.0       |
| 10°-20°   | 356.0   | 2.9       |
| 20°-30°   | 617.8   | 5.0       |
| 30°-40°   | 1135.3  | 9.1       |
| 40°-50°   | 2137.2  | 17.1      |
| 50°-60°   | 3655.6  | 29.3      |
| 60°-70°   | 3500.2  | 28.1      |
| 70°-80°   | 892.6   | 7.2       |
| 80°-90°   | 45.6    | 0.4       |
| 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°    | 12471.0 | 100.0     |
| 0°-180°   | 12471.0 | 100.0     |

**Coefficient of Utilization**



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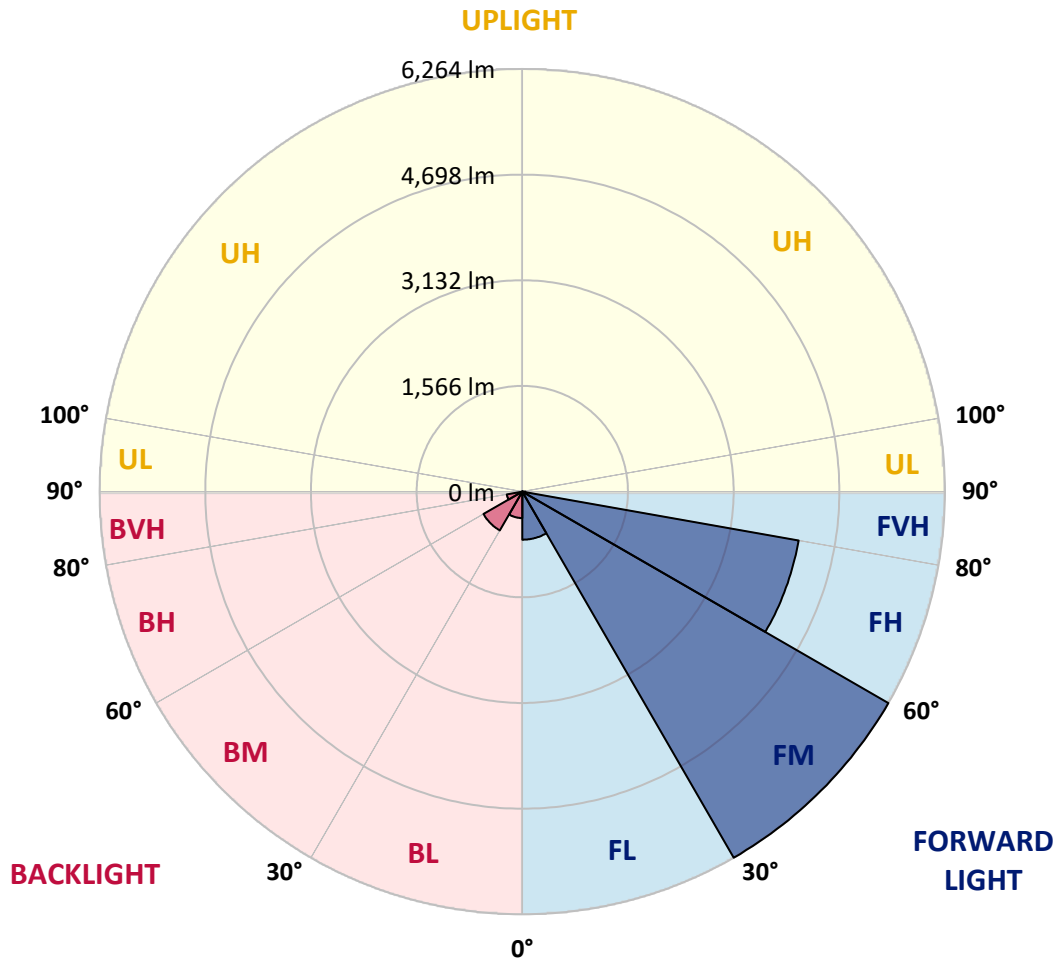
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 712.9  | 5.7       |                         |      |         |
| FM (30°-60°)   | 6263.9 | 50.2      |                         |      |         |
| FH (60°-80°)   | 4159.0 | 33.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 43.9   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 391.6  | 3.1       | B1/500                  |      |         |
| BM (30°-60°)   | 664.2  | 5.3       | B1/1000                 |      |         |
| BH (60°-80°)   | 233.7  | 1.9       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 1.8    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 58°     | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|--------|
| 0°    | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2  | 1396.2  | 1396.2  | 1396.2 | 1396.2 |
| 2.5°  | 1361.4 | 1366.1 | 1370.8 | 1372.7 | 1379.3 | 1385.8 | 1390.5  | 1389.6  | 1397.1  | 1400.9 | 1400.9 |
| 5°    | 1307.0 | 1307.0 | 1319.2 | 1330.5 | 1349.2 | 1368.0 | 1385.8  | 1389.6  | 1403.7  | 1416.8 | 1421.5 |
| 7.5°  | 1261.0 | 1263.8 | 1273.2 | 1293.8 | 1319.2 | 1352.0 | 1387.7  | 1396.2  | 1420.6  | 1449.7 | 1461.9 |
| 10°   | 1239.4 | 1241.3 | 1253.5 | 1275.1 | 1307.0 | 1352.0 | 1401.8  | 1417.8  | 1455.3  | 1501.3 | 1518.2 |
| 12.5° | 1234.7 | 1237.5 | 1249.7 | 1274.1 | 1310.7 | 1365.2 | 1432.8  | 1449.7  | 1504.2  | 1563.3 | 1588.7 |
| 15°   | 1243.1 | 1245.0 | 1257.2 | 1283.5 | 1323.9 | 1388.7 | 1474.1  | 1497.6  | 1562.4  | 1630.9 | 1663.8 |
| 17.5° | 1273.2 | 1271.3 | 1279.8 | 1301.3 | 1346.4 | 1417.8 | 1523.9  | 1552.0  | 1628.1  | 1722.0 | 1743.6 |
| 20°   | 1400.9 | 1388.7 | 1381.2 | 1362.4 | 1380.2 | 1459.1 | 1584.0  | 1625.3  | 1719.2  | 1814.9 | 1830.0 |
| 22.5° | 1676.0 | 1648.7 | 1595.2 | 1522.0 | 1465.7 | 1515.4 | 1656.3  | 1704.1  | 1825.3  | 1919.2 | 1919.2 |
| 25°   | 2026.2 | 1991.5 | 1937.9 | 1778.3 | 1640.3 | 1608.4 | 1737.9  | 1798.0  | 1940.8  | 2035.6 | 2004.6 |
| 27.5° | 2464.7 | 2437.4 | 2333.2 | 2147.3 | 1936.1 | 1770.8 | 1832.8  | 1888.2  | 2043.1  | 2157.6 | 2092.9 |
| 30°   | 2821.5 | 2808.3 | 2722.9 | 2556.7 | 2323.8 | 2082.5 | 2009.3  | 2045.9  | 2179.2  | 2311.6 | 2245.0 |
| 32.5° | 3122.9 | 3122.9 | 3035.5 | 2880.6 | 2662.8 | 2448.7 | 2308.8  | 2335.1  | 2462.8  | 2615.8 | 2491.9 |
| 35°   | 3454.3 | 3443.0 | 3372.6 | 3225.2 | 2981.1 | 2792.4 | 2735.1  | 2770.8  | 2886.2  | 2999.9 | 2694.7 |
| 37.5° | 3802.6 | 3798.9 | 3725.6 | 3582.9 | 3383.9 | 3146.3 | 3012.1  | 3021.5  | 3080.6  | 3150.1 | 2932.3 |
| 40°   | 4181.0 | 4186.7 | 4090.9 | 4002.6 | 3814.8 | 3571.7 | 3314.4  | 3255.2  | 3310.6  | 3506.9 | 3370.7 |
| 42.5° | 4627.9 | 4614.8 | 4573.5 | 4453.3 | 4302.1 | 4156.6 | 3847.7  | 3826.1  | 3874.9  | 4085.2 | 3937.8 |
| 45°   | 5147.2 | 5165.9 | 5094.6 | 5027.9 | 4926.5 | 4805.4 | 4547.2  | 4509.6  | 4563.2  | 4889.9 | 4680.5 |
| 47.5° | 5667.3 | 5649.5 | 5695.5 | 5683.3 | 5737.8 | 5647.6 | 5419.5  | 5342.5  | 5471.1  | 5780.9 | 5473.0 |
| 50°   | 6063.6 | 6083.3 | 6179.0 | 6318.9 | 6552.7 | 6603.4 | 6384.7  | 6358.4  | 6415.7  | 6614.7 | 6181.9 |
| 52.5° | 6320.8 | 6386.5 | 6536.8 | 6896.4 | 7318.0 | 7645.6 | 7479.5  | 7465.4  | 7441.9  | 7495.4 | 6859.8 |
| 55°   | 6488.9 | 6555.6 | 6751.8 | 7281.3 | 8007.1 | 8539.5 | 8547.9  | 8487.9  | 8332.9  | 8294.4 | 7493.5 |
| 57.5° | 6385.6 | 6398.8 | 6678.6 | 7386.5 | 8389.3 | 9177.0 | 9453.1  | 9393.0  | 9106.6  | 8961.1 | 8053.1 |
| 60°   | 5739.6 | 5766.9 | 6156.5 | 6988.4 | 8223.1 | 9385.5 | 10053.0 | 10025.8 | 9712.2  | 9547.9 | 8488.8 |
| 62.5° | 4595.1 | 4674.0 | 5074.9 | 6002.5 | 7450.3 | 9034.3 | 10296.2 | 10373.2 | 10129.1 | 9902.8 | 8625.9 |
| 63°   | 4384.8 | 4359.4 | 4782.9 | 5715.2 | 7245.7 | 8860.6 | 10300.0 | 10397.6 | 10147.9 | 9936.6 | 8588.3 |
| 65°   | 3245.9 | 3321.9 | 3597.0 | 4506.8 | 6029.8 | 8052.2 | 10068.1 | 10240.8 | 10078.4 | 9787.3 | 8172.4 |
| 67.5° | 1822.4 | 1818.7 | 2122.9 | 2949.2 | 4220.5 | 6316.1 | 9103.8  | 9469.0  | 9435.2  | 8782.7 | 6774.3 |
| 70°   | 892.0  | 906.1  | 1030.9 | 1528.6 | 2447.8 | 4357.5 | 7564.9  | 7959.2  | 7971.4  | 6898.3 | 4684.3 |
| 72.5° | 403.7  | 410.3  | 499.5  | 744.6  | 1258.2 | 2320.1 | 5212.9  | 5589.4  | 5519.9  | 4396.0 | 2586.7 |
| 75°   | 213.1  | 227.2  | 275.1  | 374.6  | 606.5  | 956.8  | 2835.5  | 3199.8  | 3054.3  | 2008.4 | 952.1  |
| 77.5° | 157.7  | 162.4  | 186.8  | 238.5  | 324.9  | 372.8  | 1223.4  | 1455.3  | 1363.3  | 726.7  | 315.5  |
| 80°   | 115.5  | 119.2  | 139.0  | 169.0  | 204.7  | 189.7  | 461.0   | 528.6   | 474.2   | 246.9  | 96.7   |
| 82.5° | 70.4   | 71.4   | 101.4  | 125.8  | 128.6  | 106.1  | 152.1   | 163.4   | 170.9   | 139.0  | 52.6   |
| 85°   | 25.4   | 31.9   | 68.5   | 91.1   | 76.1   | 53.5   | 63.8    | 70.4    | 77.0    | 88.3   | 31.0   |
| 87.5° | 2.8    | 3.8    | 32.9   | 44.1   | 21.6   | 19.7   | 23.5    | 26.3    | 28.2    | 32.9   | 15.0   |
| 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°    | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2 | 1396.2 |
| 2.5°  | 1404.6 | 1408.4 | 1405.6 | 1400.9 | 1399.9 | 1397.1 | 1391.5 | 1391.5 | 1391.5 | 1393.4 | 1391.5 |
| 5°    | 1425.3 | 1428.1 | 1421.5 | 1412.1 | 1401.8 | 1388.7 | 1374.6 | 1366.1 | 1365.2 | 1363.3 | 1358.6 |
| 7.5°  | 1464.7 | 1468.5 | 1453.5 | 1430.9 | 1402.7 | 1370.8 | 1340.8 | 1312.6 | 1299.5 | 1289.1 | 1289.1 |
| 10°   | 1522.0 | 1525.7 | 1495.7 | 1455.3 | 1399.0 | 1334.2 | 1262.8 | 1198.1 | 1147.4 | 1123.9 | 1118.3 |
| 12.5° | 1590.5 | 1592.4 | 1542.6 | 1472.2 | 1379.3 | 1254.4 | 1102.3 | 960.5  | 861.9  | 816.9  | 812.2  |
| 15°   | 1665.6 | 1652.5 | 1586.8 | 1478.8 | 1322.9 | 1090.1 | 827.2  | 653.5  | 551.1  | 521.1  | 532.4  |
| 17.5° | 1741.7 | 1717.3 | 1620.6 | 1468.5 | 1196.2 | 827.2  | 555.8  | 446.0  | 414.1  | 405.6  | 405.6  |
| 20°   | 1813.1 | 1779.3 | 1645.0 | 1423.4 | 976.5  | 569.9  | 412.2  | 385.9  | 380.3  | 374.6  | 375.6  |
| 22.5° | 1884.4 | 1832.8 | 1666.6 | 1322.9 | 727.7  | 407.5  | 369.0  | 360.5  | 353.0  | 345.5  | 344.6  |
| 25°   | 1953.9 | 1882.5 | 1675.0 | 1137.0 | 495.8  | 350.2  | 337.1  | 325.8  | 310.8  | 302.3  | 300.5  |
| 27.5° | 2026.2 | 1942.6 | 1669.4 | 902.3  | 361.5  | 313.6  | 300.5  | 284.5  | 266.7  | 251.6  | 251.6  |
| 30°   | 2165.2 | 2057.2 | 1649.7 | 648.8  | 304.2  | 276.0  | 259.1  | 233.8  | 214.1  | 199.1  | 198.1  |
| 32.5° | 2354.8 | 2206.5 | 1582.1 | 456.3  | 270.4  | 243.2  | 217.8  | 189.7  | 169.0  | 157.7  | 157.7  |
| 35°   | 2523.8 | 2356.7 | 1455.3 | 336.1  | 243.2  | 211.3  | 180.3  | 153.0  | 137.1  | 129.6  | 126.8  |
| 37.5° | 2781.1 | 2576.4 | 1280.7 | 273.2  | 216.9  | 183.1  | 151.2  | 125.8  | 112.7  | 107.0  | 107.0  |
| 40°   | 3167.0 | 2844.9 | 1066.6 | 239.4  | 191.5  | 155.9  | 125.8  | 106.1  | 95.8   | 89.2   | 89.2   |
| 42.5° | 3645.8 | 3173.6 | 849.7  | 215.0  | 168.1  | 134.3  | 105.2  | 90.1   | 80.7   | 76.1   | 75.1   |
| 45°   | 4248.6 | 3520.0 | 654.4  | 192.5  | 149.3  | 114.5  | 89.2   | 76.1   | 66.7   | 63.8   | 64.8   |
| 47.5° | 4877.7 | 3825.2 | 507.0  | 172.8  | 129.6  | 96.7   | 76.1   | 65.7   | 59.2   | 55.4   | 55.4   |
| 50°   | 5414.8 | 4035.5 | 385.0  | 150.2  | 114.5  | 81.7   | 66.7   | 59.2   | 53.5   | 51.6   | 50.7   |
| 52.5° | 5863.6 | 4096.5 | 294.8  | 130.5  | 100.5  | 70.4   | 59.2   | 53.5   | 48.8   | 46.0   | 46.0   |
| 55°   | 6245.7 | 4043.0 | 231.0  | 109.9  | 84.5   | 61.0   | 52.6   | 47.9   | 42.3   | 39.4   | 38.5   |
| 57.5° | 6469.2 | 3871.2 | 176.5  | 91.1   | 68.5   | 50.7   | 46.0   | 40.4   | 33.8   | 29.1   | 29.1   |
| 60°   | 6581.8 | 3621.4 | 135.2  | 75.1   | 52.6   | 40.4   | 37.6   | 30.0   | 23.5   | 19.7   | 18.8   |
| 62.5° | 6446.6 | 3290.0 | 102.3  | 59.2   | 39.4   | 30.0   | 25.4   | 21.6   | 15.0   | 11.3   | 11.3   |
| 63°   | 6363.1 | 3194.2 | 98.6   | 56.3   | 36.6   | 28.2   | 23.5   | 19.7   | 13.1   | 10.3   | 9.4    |
| 65°   | 5800.7 | 2776.4 | 80.7   | 45.1   | 29.1   | 19.7   | 16.0   | 14.1   | 9.4    | 4.7    | 3.8    |
| 67.5° | 4606.4 | 2123.8 | 63.8   | 33.8   | 20.7   | 14.1   | 9.4    | 8.5    | 2.8    | 0.0    | 0.0    |
| 70°   | 3114.4 | 1371.8 | 49.8   | 24.4   | 14.1   | 8.5    | 4.7    | 3.8    | 0.9    | 0.0    | 0.0    |
| 72.5° | 1624.3 | 703.3  | 38.5   | 17.8   | 8.5    | 5.6    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    |
| 75°   | 574.6  | 239.4  | 28.2   | 11.3   | 5.6    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 173.7  | 89.2   | 17.8   | 8.5    | 3.8    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 61.0   | 32.9   | 10.3   | 5.6    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 30.0   | 16.0   | 6.6    | 4.7    | 2.8    | 0.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 16.9   | 10.3   | 5.6    | 4.7    | 2.8    | 1.9    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 12.2   | 7.5    | 5.6    | 4.7    | 3.8    | 1.9    | 0.9    | 0.0    | 0.0    | 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    |

(END OF REPORT)