

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: P594723

Luminaire Tested: **ISS-PA1D-740-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1D-740-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8733 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63  
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: 28.75 FT

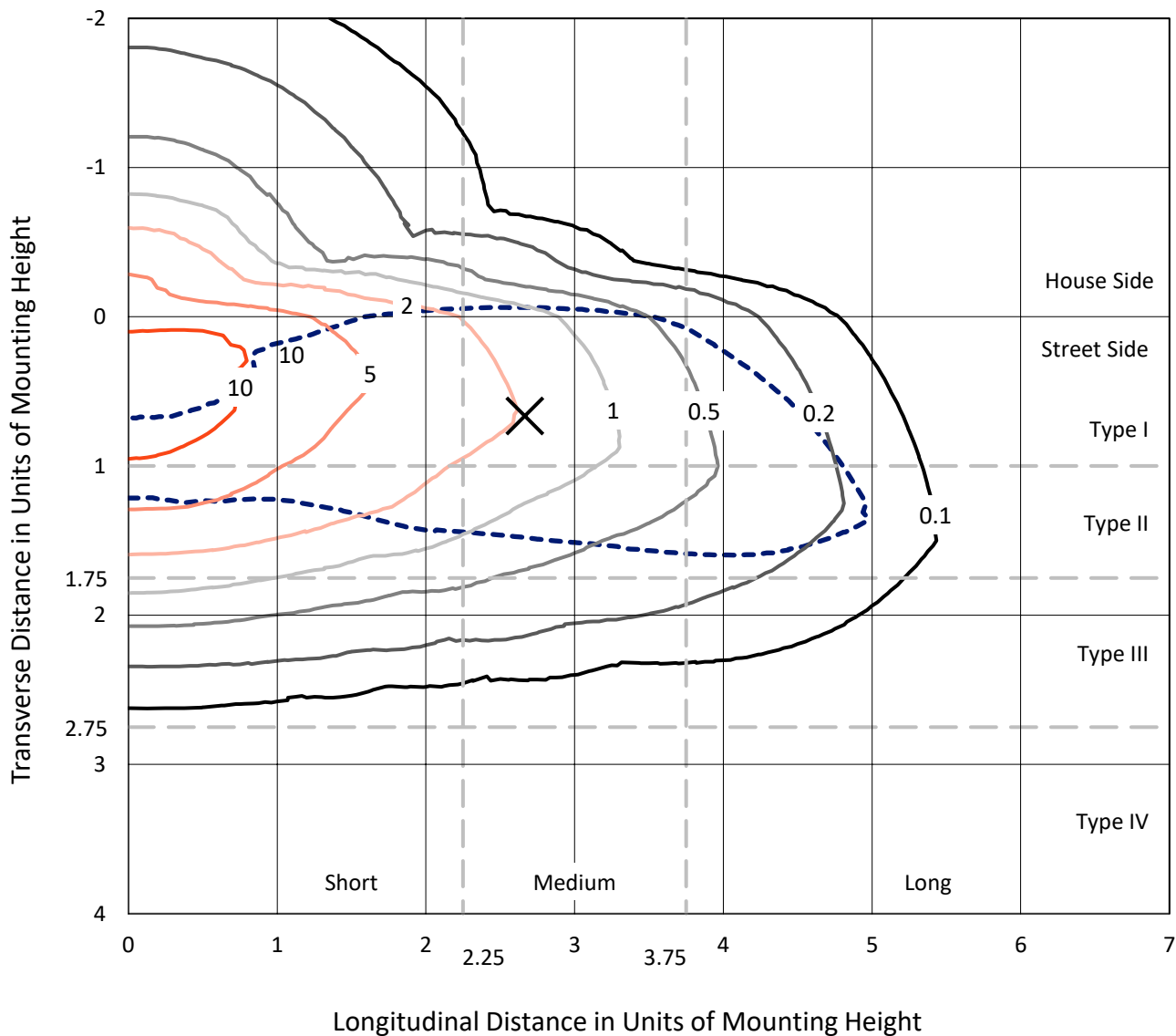




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### Iso-Footcandle Lines of Horizontal Illumination

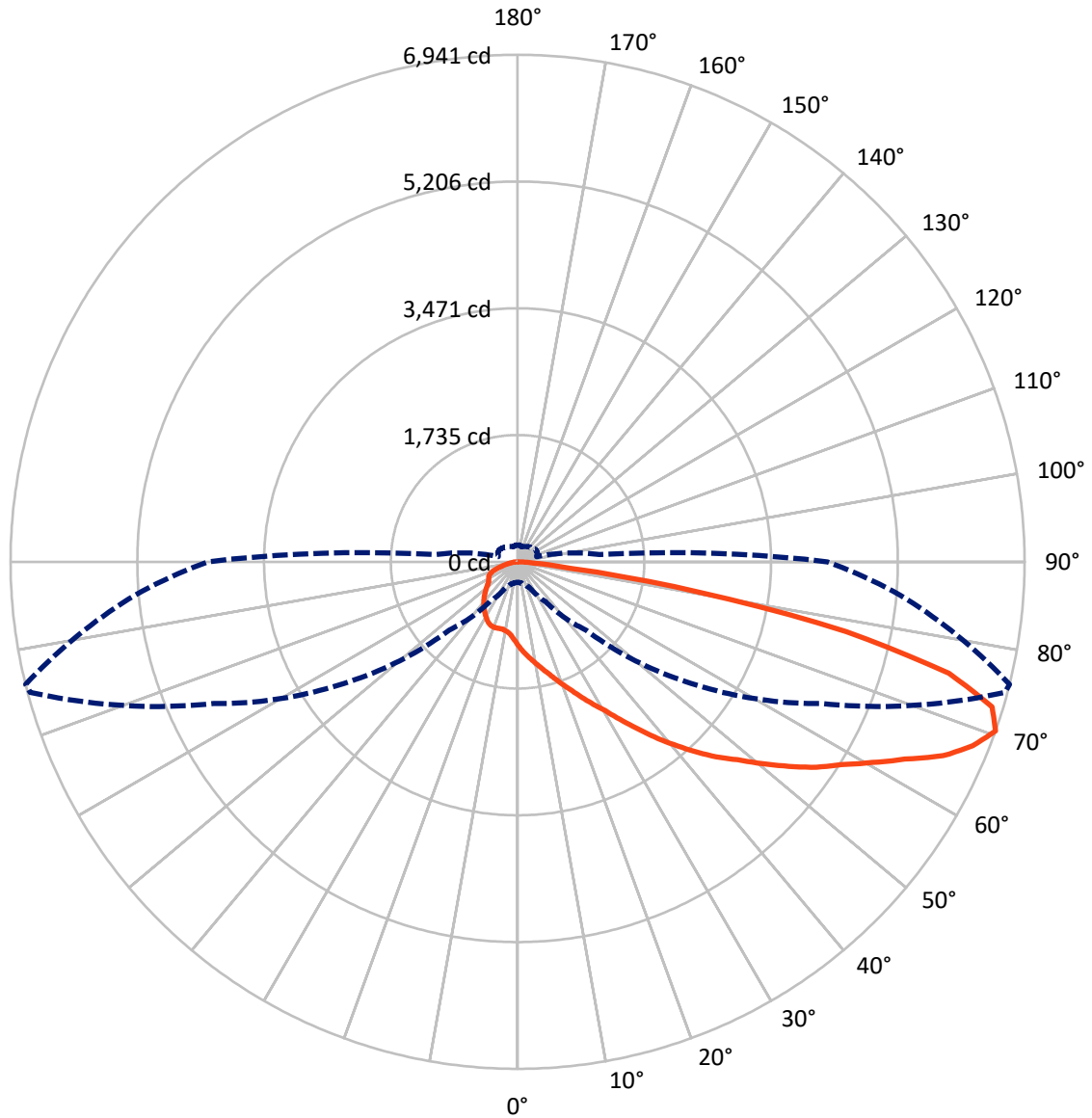
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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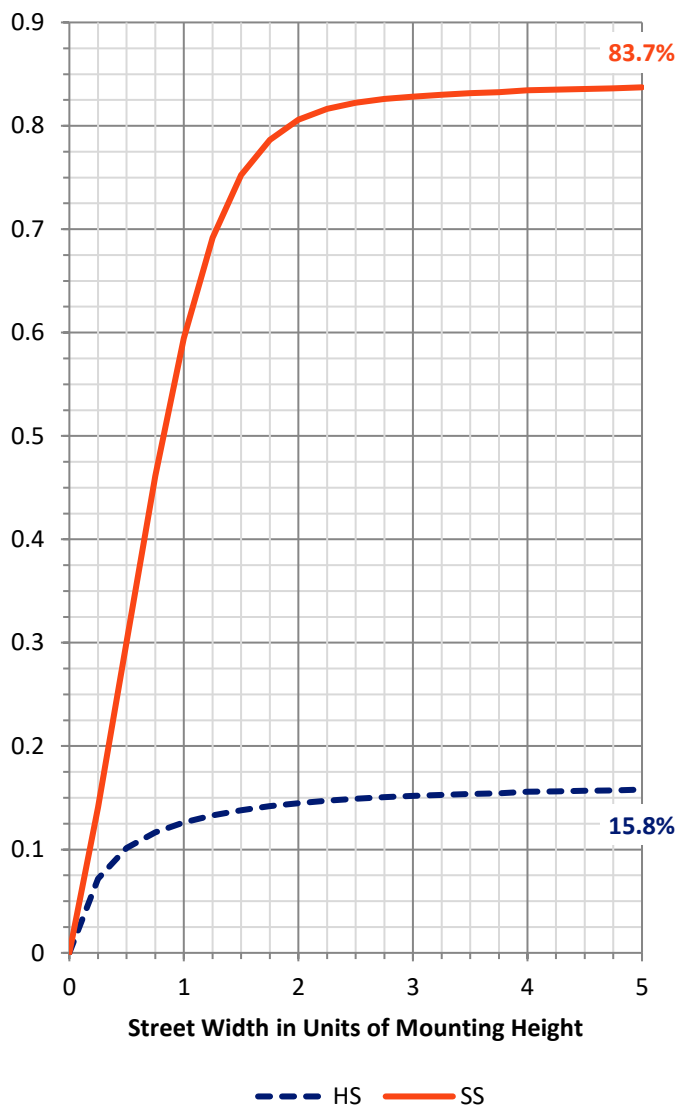
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1400.7   | 0.0    | 1400.7 |
|                    | % Fixture | 16.0     | 0.0    | 16.0   |
| <b>Street Side</b> | Lumens    | 7332.3   | 0.0    | 7332.3 |
|                    | % Fixture | 84.0     | 0.0    | 84.0   |
| <b>Total</b>       | Lumens    | 8733.0   | 0.0    | 8733.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 111.7  | 1.3       |
| 10°-20°   | 368.5  | 4.2       |
| 20°-30°   | 679.0  | 7.8       |
| 30°-40°   | 1137.7 | 13.0      |
| 40°-50°   | 1616.5 | 18.5      |
| 50°-60°   | 1866.4 | 21.4      |
| 60°-70°   | 1715.7 | 19.6      |
| 70°-80°   | 1081.9 | 12.4      |
| 80°-90°   | 155.6  | 1.8       |
| 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°    | 8733.0 | 100.0     |
| 0°-180°   | 8733.0 | 100.0     |

**Coefficient of Utilization**

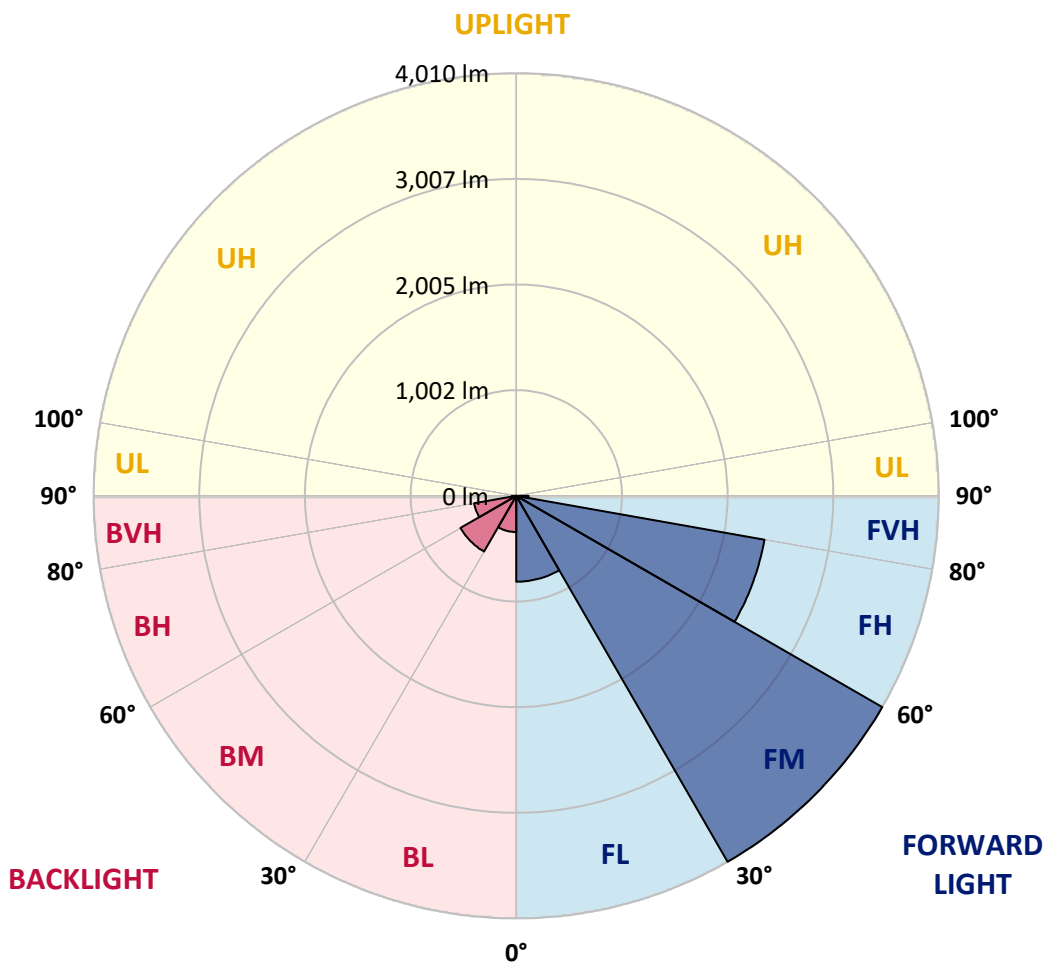


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 815.3  | 9.3       |                         |      |         |
| FM (30°-60°)   | 4010.0 | 45.9      |                         |      |         |
| FH (60°-80°)   | 2391.6 | 27.4      |                         |      | G2/5000 |
| FVH (80°-90°)  | 115.3  | 1.3       |                         |      | G2/225  |
| BL (0°-30°)    | 343.8  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 610.7  | 7.0       | B1/1000                 |      |         |
| BH (60°-80°)   | 406.0  | 4.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 40.3   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 |
| 2.5°  | 1379.0 | 1376.9 | 1370.6 | 1360.1 | 1351.6 | 1326.4 | 1292.8 | 1263.4 | 1219.2 | 1215.0 | 1170.9 |
| 5°    | 1503.0 | 1494.6 | 1494.6 | 1484.1 | 1473.6 | 1446.2 | 1404.2 | 1351.6 | 1288.6 | 1284.4 | 1200.3 |
| 7.5°  | 1561.9 | 1564.0 | 1559.8 | 1551.3 | 1553.4 | 1530.3 | 1492.5 | 1439.9 | 1353.7 | 1349.5 | 1240.2 |
| 10°   | 1645.9 | 1643.8 | 1635.4 | 1629.1 | 1627.0 | 1606.0 | 1572.4 | 1524.0 | 1433.6 | 1425.2 | 1286.5 |
| 12.5° | 1727.9 | 1721.6 | 1723.7 | 1721.6 | 1717.4 | 1696.4 | 1664.9 | 1616.5 | 1505.1 | 1500.9 | 1343.2 |
| 15°   | 1774.2 | 1772.1 | 1786.8 | 1791.0 | 1807.8 | 1788.9 | 1761.6 | 1706.9 | 1606.0 | 1589.2 | 1410.5 |
| 17.5° | 1803.6 | 1801.5 | 1816.2 | 1849.8 | 1881.4 | 1881.4 | 1873.0 | 1814.1 | 1702.7 | 1690.1 | 1486.2 |
| 20°   | 1854.0 | 1862.5 | 1887.7 | 1915.0 | 1961.3 | 1969.7 | 1967.6 | 1942.3 | 1814.1 | 1801.5 | 1570.3 |
| 22.5° | 1954.9 | 1950.7 | 1971.8 | 2013.8 | 2055.8 | 2068.5 | 2070.6 | 2070.6 | 1942.3 | 1919.2 | 1656.4 |
| 25°   | 2171.5 | 2160.9 | 2144.1 | 2139.9 | 2190.4 | 2188.3 | 2182.0 | 2196.7 | 2076.9 | 2060.0 | 1755.2 |
| 27.5° | 2583.5 | 2560.3 | 2495.2 | 2364.9 | 2335.4 | 2345.9 | 2314.4 | 2316.5 | 2230.3 | 2209.3 | 1839.3 |
| 30°   | 2974.5 | 2963.9 | 2903.0 | 2745.3 | 2579.3 | 2520.4 | 2465.8 | 2442.6 | 2400.6 | 2364.9 | 1929.7 |
| 32.5° | 3327.6 | 3329.7 | 3256.1 | 3083.8 | 2913.5 | 2728.5 | 2633.9 | 2585.6 | 2602.4 | 2570.9 | 2053.7 |
| 35°   | 3567.2 | 3548.3 | 3502.1 | 3386.5 | 3201.5 | 3024.9 | 2844.1 | 2736.9 | 2827.3 | 2791.6 | 2177.8 |
| 37.5° | 3708.1 | 3693.4 | 3655.5 | 3573.6 | 3481.1 | 3310.8 | 3081.7 | 2917.7 | 3094.3 | 3041.7 | 2335.4 |
| 40°   | 3779.6 | 3758.5 | 3720.7 | 3687.1 | 3642.9 | 3550.4 | 3348.6 | 3123.7 | 3338.1 | 3291.9 | 2491.0 |
| 42.5° | 3788.0 | 3773.3 | 3752.2 | 3735.4 | 3750.1 | 3737.5 | 3609.3 | 3363.3 | 3594.6 | 3544.1 | 2669.7 |
| 45°   | 3781.7 | 3792.2 | 3766.9 | 3737.5 | 3766.9 | 3874.2 | 3874.2 | 3603.0 | 3848.9 | 3811.1 | 2839.9 |
| 47.5° | 3785.9 | 3775.4 | 3766.9 | 3758.5 | 3762.7 | 3909.9 | 4057.0 | 3827.9 | 4092.8 | 4048.6 | 3039.6 |
| 50°   | 3611.4 | 3626.1 | 3697.6 | 3729.1 | 3748.0 | 3918.3 | 4204.2 | 4071.7 | 4395.5 | 4340.8 | 3262.4 |
| 52.5° | 3056.4 | 3064.8 | 3390.7 | 3626.1 | 3701.8 | 3884.7 | 4307.2 | 4342.9 | 4694.0 | 4651.9 | 3502.1 |
| 55°   | 2354.3 | 2398.5 | 2707.5 | 3283.5 | 3596.7 | 3827.9 | 4338.7 | 4519.5 | 4998.8 | 4965.1 | 3743.8 |
| 57.5° | 1938.1 | 1944.4 | 2123.1 | 2638.1 | 3264.5 | 3775.4 | 4370.2 | 4681.4 | 5272.0 | 5234.2 | 3996.1 |
| 60°   | 1608.1 | 1593.4 | 1702.7 | 2034.8 | 2711.7 | 3565.1 | 4376.6 | 4809.6 | 5589.5 | 5576.8 | 4256.7 |
| 62.5° | 1181.4 | 1198.2 | 1303.3 | 1585.0 | 2121.0 | 3138.4 | 4345.0 | 4918.9 | 5967.8 | 5951.0 | 4546.8 |
| 65°   | 725.2  | 746.2  | 874.5  | 1133.0 | 1606.0 | 2491.0 | 4139.0 | 4975.6 | 6365.1 | 6403.0 | 4860.0 |
| 67.5° | 384.7  | 399.4  | 475.1  | 685.3  | 1101.5 | 1898.2 | 3642.9 | 4904.2 | 6701.5 | 6718.3 | 5160.6 |
| 70°   | 281.7  | 283.8  | 309.0  | 386.8  | 664.3  | 1320.1 | 2900.9 | 4593.1 | 6907.5 | 6941.1 | 5259.4 |
| 72.5° | 245.9  | 248.0  | 258.6  | 277.5  | 361.6  | 805.1  | 2079.0 | 4050.7 | 6821.3 | 6791.9 | 5093.4 |
| 75°   | 222.8  | 222.8  | 231.2  | 237.5  | 264.9  | 445.6  | 1273.9 | 3315.0 | 6163.3 | 6098.2 | 4342.9 |
| 77.5° | 191.3  | 191.3  | 199.7  | 208.1  | 229.1  | 288.0  | 666.4  | 2457.3 | 4712.9 | 4601.5 | 2970.3 |
| 80°   | 153.5  | 153.5  | 164.0  | 174.5  | 201.8  | 216.5  | 325.8  | 1643.8 | 2694.9 | 2530.9 | 1351.6 |
| 82.5° | 105.1  | 113.5  | 132.4  | 145.0  | 168.2  | 153.5  | 191.3  | 710.5  | 849.2  | 735.7  | 304.8  |
| 85°   | 63.1   | 67.3   | 94.6   | 109.3  | 126.1  | 82.0   | 117.7  | 273.3  | 254.4  | 222.8  | 69.4   |
| 87.5° | 6.3    | 10.5   | 37.8   | 44.1   | 44.1   | 23.1   | 50.5   | 65.2   | 73.6   | 75.7   | 16.8   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 |
| 2.5°  | 1145.6 | 1120.4 | 1072.1 | 1027.9 | 983.8  | 954.3  | 924.9  | 914.4  | 899.7  | 889.2  | 897.6  |
| 5°    | 1156.1 | 1103.6 | 1011.1 | 933.3  | 880.8  | 840.8  | 821.9  | 811.4  | 803.0  | 800.9  | 798.8  |
| 7.5°  | 1168.8 | 1091.0 | 967.0  | 880.8  | 830.3  | 811.4  | 807.2  | 807.2  | 807.2  | 809.3  | 811.4  |
| 10°   | 1196.1 | 1095.2 | 943.8  | 851.3  | 824.0  | 819.8  | 821.9  | 830.3  | 830.3  | 832.4  | 832.4  |
| 12.5° | 1227.6 | 1105.7 | 927.0  | 847.1  | 830.3  | 832.4  | 834.5  | 838.7  | 838.7  | 845.0  | 842.9  |
| 15°   | 1273.9 | 1126.7 | 924.9  | 851.3  | 836.6  | 832.4  | 832.4  | 830.3  | 830.3  | 830.3  | 834.5  |
| 17.5° | 1332.7 | 1156.1 | 927.0  | 851.3  | 830.3  | 821.9  | 815.6  | 809.3  | 800.9  | 805.1  | 800.9  |
| 20°   | 1391.6 | 1191.9 | 927.0  | 840.8  | 813.5  | 792.5  | 773.6  | 763.1  | 752.5  | 750.4  | 752.5  |
| 22.5° | 1465.2 | 1233.9 | 916.5  | 817.7  | 777.8  | 748.3  | 721.0  | 706.3  | 689.5  | 683.2  | 679.0  |
| 25°   | 1528.2 | 1267.6 | 895.5  | 784.1  | 737.8  | 695.8  | 660.1  | 634.8  | 613.8  | 609.6  | 609.6  |
| 27.5° | 1593.4 | 1297.0 | 864.0  | 742.0  | 681.1  | 634.8  | 594.9  | 563.4  | 542.3  | 540.2  | 538.1  |
| 30°   | 1654.3 | 1322.2 | 821.9  | 695.8  | 630.6  | 576.0  | 529.7  | 502.4  | 483.5  | 473.0  | 466.7  |
| 32.5° | 1734.2 | 1355.8 | 782.0  | 649.5  | 571.8  | 517.1  | 475.1  | 451.9  | 426.7  | 409.9  | 403.6  |
| 35°   | 1835.1 | 1395.8 | 737.8  | 599.1  | 519.2  | 464.6  | 439.3  | 405.7  | 374.2  | 355.3  | 348.9  |
| 37.5° | 1948.6 | 1452.5 | 691.6  | 546.5  | 466.7  | 426.7  | 412.0  | 359.5  | 325.8  | 319.5  | 317.4  |
| 40°   | 2089.5 | 1507.2 | 639.0  | 491.9  | 416.2  | 405.7  | 380.5  | 325.8  | 309.0  | 306.9  | 304.8  |
| 42.5° | 2230.3 | 1566.1 | 588.6  | 437.2  | 376.3  | 380.5  | 344.7  | 317.4  | 302.7  | 298.5  | 296.4  |
| 45°   | 2394.3 | 1624.9 | 538.1  | 388.9  | 344.7  | 344.7  | 325.8  | 309.0  | 296.4  | 292.2  | 292.2  |
| 47.5° | 2566.7 | 1683.8 | 483.5  | 346.8  | 321.6  | 309.0  | 311.1  | 298.5  | 290.1  | 285.9  | 283.8  |
| 50°   | 2783.2 | 1740.5 | 433.0  | 317.4  | 306.9  | 290.1  | 296.4  | 288.0  | 283.8  | 279.6  | 277.5  |
| 52.5° | 2987.1 | 1765.8 | 386.8  | 300.6  | 298.5  | 281.7  | 283.8  | 279.6  | 277.5  | 271.2  | 269.1  |
| 55°   | 3186.8 | 1759.4 | 351.0  | 292.2  | 288.0  | 279.6  | 275.4  | 273.3  | 271.2  | 264.9  | 262.8  |
| 57.5° | 3409.6 | 1751.0 | 327.9  | 290.1  | 281.7  | 273.3  | 273.3  | 267.0  | 258.6  | 258.6  | 258.6  |
| 60°   | 3640.8 | 1723.7 | 317.4  | 290.1  | 279.6  | 273.3  | 269.1  | 262.8  | 254.4  | 256.5  | 254.4  |
| 62.5° | 3901.5 | 1671.2 | 311.1  | 296.4  | 281.7  | 271.2  | 267.0  | 258.6  | 248.0  | 250.1  | 248.0  |
| 65°   | 4130.6 | 1564.0 | 306.9  | 302.7  | 285.9  | 273.3  | 262.8  | 252.3  | 239.6  | 241.7  | 239.6  |
| 67.5° | 4286.2 | 1383.2 | 294.3  | 306.9  | 292.2  | 271.2  | 258.6  | 243.8  | 227.0  | 235.4  | 233.3  |
| 70°   | 4242.0 | 1124.6 | 271.2  | 298.5  | 298.5  | 273.3  | 252.3  | 233.3  | 214.4  | 231.2  | 224.9  |
| 72.5° | 3899.4 | 845.0  | 227.0  | 269.1  | 294.3  | 273.3  | 239.6  | 216.5  | 199.7  | 210.2  | 197.6  |
| 75°   | 3201.5 | 573.9  | 180.8  | 214.4  | 275.4  | 275.4  | 229.1  | 199.7  | 178.7  | 172.4  | 168.2  |
| 77.5° | 1997.0 | 357.4  | 140.8  | 157.7  | 231.2  | 273.3  | 218.6  | 178.7  | 149.2  | 145.0  | 140.8  |
| 80°   | 790.4  | 191.3  | 111.4  | 113.5  | 170.3  | 250.1  | 203.9  | 151.4  | 119.8  | 115.6  | 107.2  |
| 82.5° | 180.8  | 96.7   | 77.8   | 75.7   | 105.1  | 203.9  | 185.0  | 119.8  | 92.5   | 92.5   | 77.8   |
| 85°   | 54.7   | 50.5   | 50.5   | 48.3   | 52.6   | 105.1  | 142.9  | 82.0   | 63.1   | 44.1   | 37.8   |
| 87.5° | 14.7   | 21.0   | 18.9   | 16.8   | 16.8   | 14.7   | 46.2   | 21.0   | 12.6   | 6.3    | 4.2    |
| 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)