

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: P526081

Luminaire Tested: **GALN-SA1A-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526081  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH  
BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2486 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

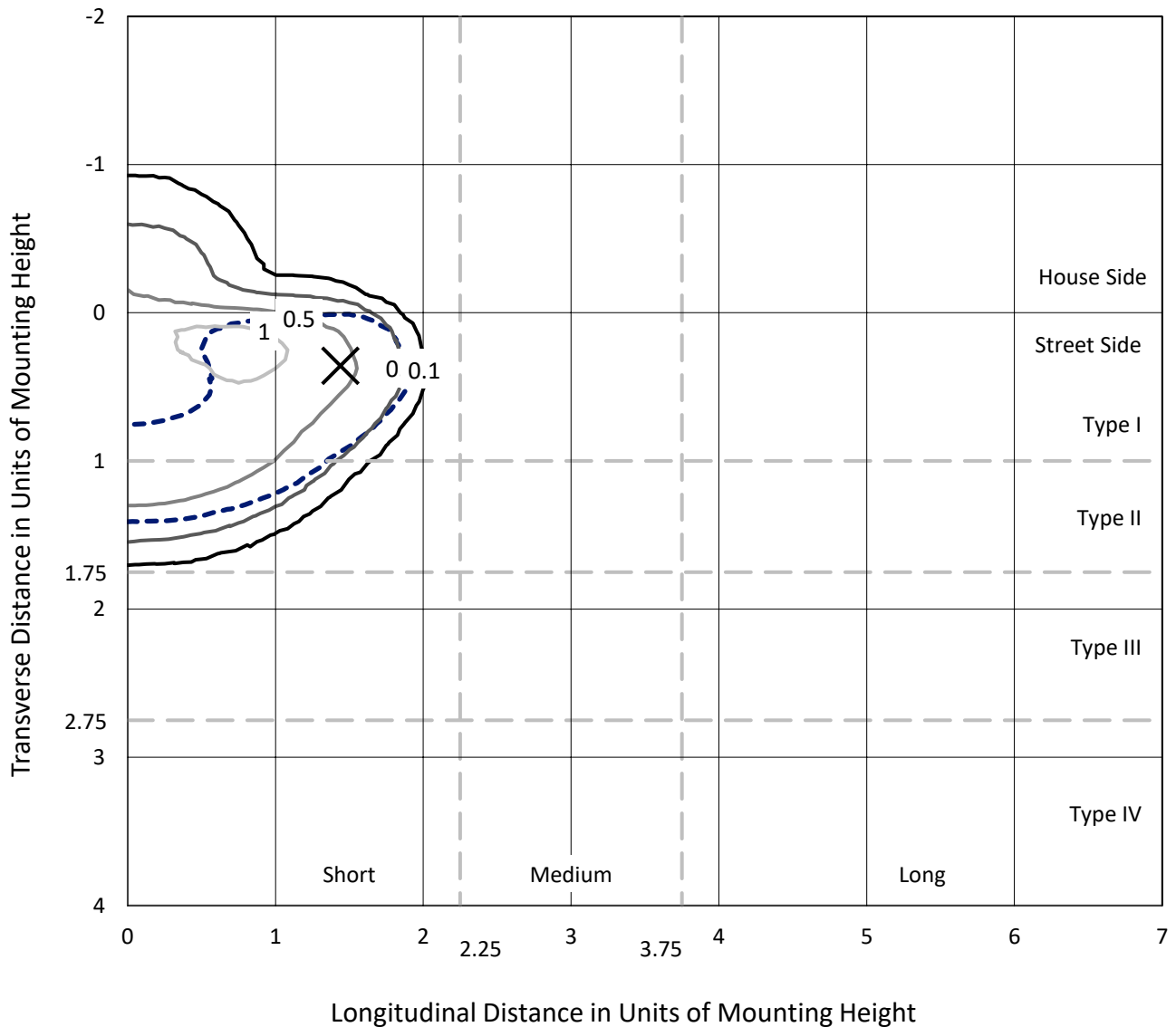
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

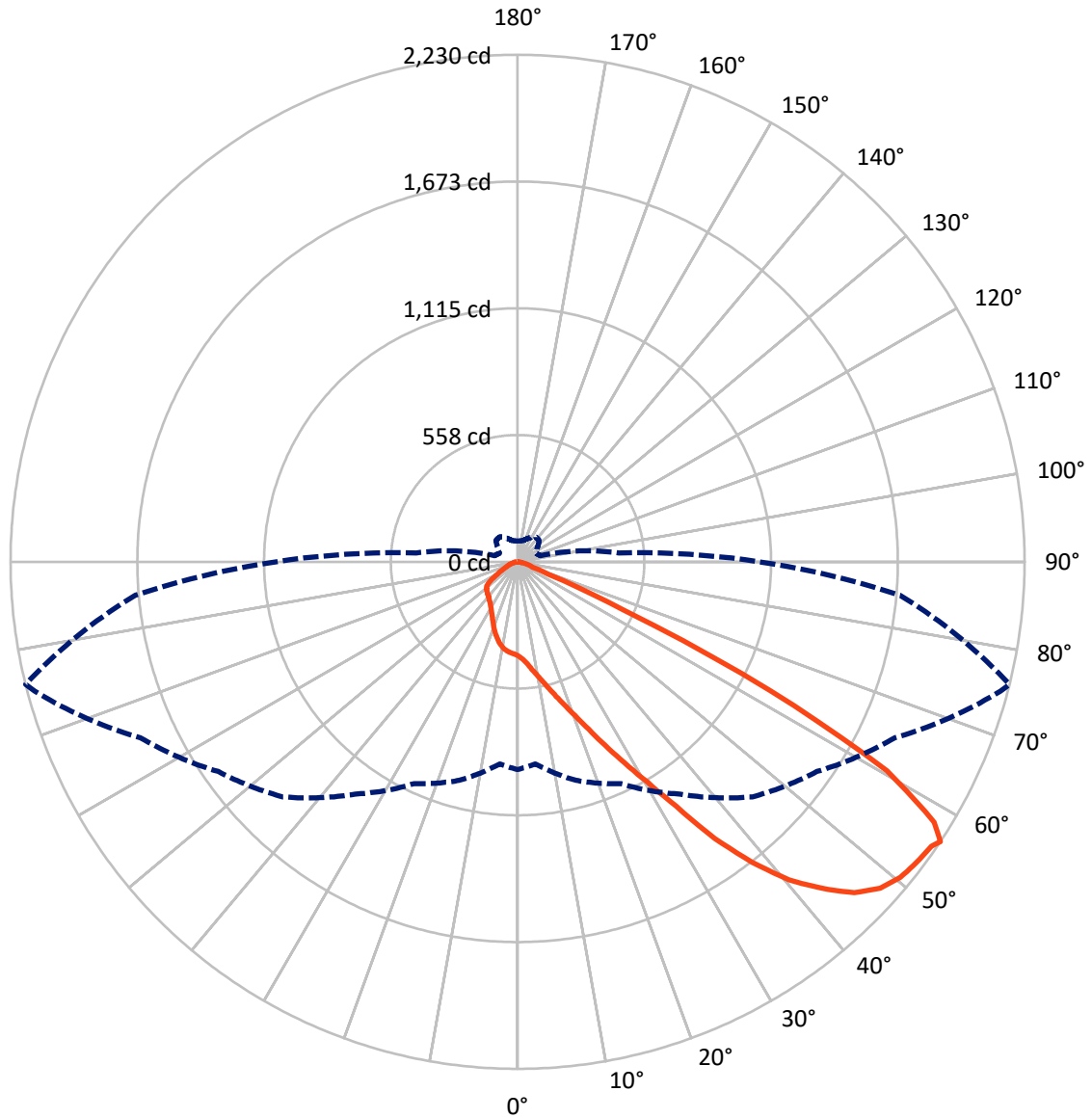
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 390.5    | 0.0    | 390.5  |
|                    | % Fixture | 15.7     | 0.0    | 15.7   |
| <b>Street Side</b> | Lumens    | 2095.5   | 0.0    | 2095.5 |
|                    | % Fixture | 84.3     | 0.0    | 84.3   |
| <b>Total</b>       | Lumens    | 2486.0   | 0.0    | 2486.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.7   | 1.7       |
| 10°-20°   | 133.9  | 5.4       |
| 20°-30°   | 242.8  | 9.8       |
| 30°-40°   | 418.8  | 16.8      |
| 40°-50°   | 680.3  | 27.4      |
| 50°-60°   | 717.1  | 28.8      |
| 60°-70°   | 219.1  | 8.8       |
| 70°-80°   | 28.1   | 1.1       |
| 80°-90°   | 4.3    | 0.2       |
| 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°    | 2486.0 | 100.0     |
| 0°-180°   | 2486.0 | 100.0     |

**Coefficient of Utilization**

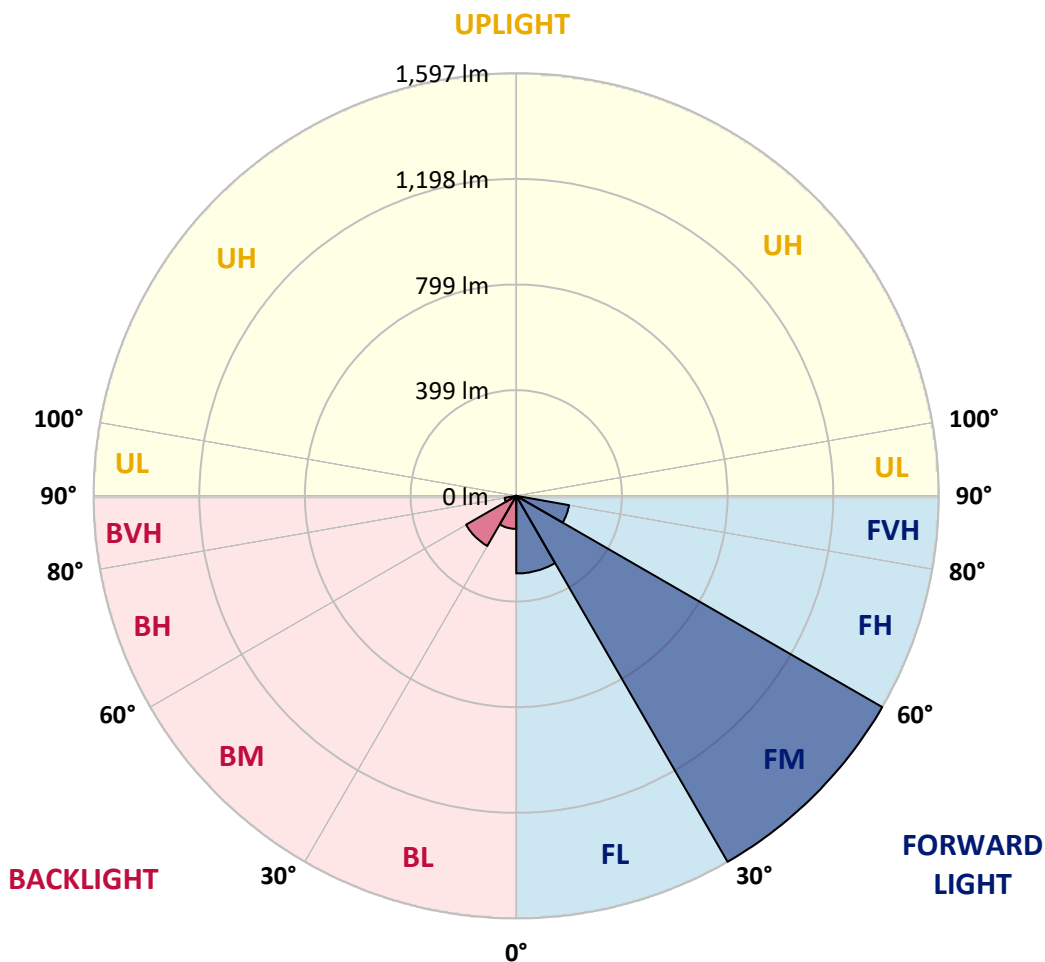


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 293.5  | 11.8      |                         |      |        |
| FM (30°-60°)   | 1597.3 | 64.3      |                         |      |        |
| FH (60°-80°)   | 202.6  | 8.2       |                         |      | G0/660 |
| FVH (80°-90°)  | 2.1    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 124.9  | 5.0       | B1/500                  |      |        |
| BM (30°-60°)   | 218.9  | 8.8       | B0/220                  |      |        |
| BH (60°-80°)   | 44.6   | 1.8       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 2.2    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 413.8  | 413.8  | 413.8  | 413.8  | 413.8  | 413.8  | 413.8  | 413.8  | 413.8  | 413.8  | 413.8  |
| 2.5°  | 476.6  | 465.6  | 466.0  | 465.1  | 463.7  | 458.7  | 443.6  | 441.3  | 431.2  | 428.5  | 419.3  |
| 5°    | 533.9  | 524.2  | 529.7  | 521.5  | 513.7  | 509.1  | 484.4  | 472.9  | 456.9  | 450.9  | 438.1  |
| 7.5°  | 569.6  | 565.0  | 563.2  | 563.6  | 556.3  | 544.9  | 533.9  | 508.7  | 487.1  | 482.5  | 455.5  |
| 10°   | 587.0  | 584.3  | 587.0  | 585.6  | 588.8  | 590.2  | 571.0  | 555.9  | 524.2  | 516.4  | 474.3  |
| 12.5° | 591.1  | 596.6  | 598.9  | 604.9  | 612.7  | 626.0  | 624.6  | 604.0  | 561.8  | 556.8  | 503.2  |
| 15°   | 601.2  | 605.8  | 603.5  | 613.1  | 627.8  | 650.3  | 662.2  | 659.0  | 613.6  | 604.4  | 536.6  |
| 17.5° | 610.4  | 602.1  | 609.9  | 629.2  | 643.8  | 678.2  | 707.1  | 720.4  | 670.0  | 659.4  | 567.3  |
| 20°   | 622.8  | 620.5  | 619.1  | 628.7  | 654.8  | 700.7  | 757.9  | 782.2  | 733.2  | 722.2  | 611.3  |
| 22.5° | 660.3  | 660.8  | 659.9  | 645.7  | 664.5  | 716.2  | 802.4  | 862.4  | 808.8  | 799.6  | 661.3  |
| 25°   | 709.8  | 703.9  | 699.3  | 687.8  | 685.5  | 730.4  | 847.3  | 960.5  | 899.5  | 893.1  | 715.3  |
| 27.5° | 762.1  | 762.1  | 748.3  | 737.8  | 723.1  | 765.7  | 888.5  | 1055.8 | 1009.1 | 1000.4 | 762.5  |
| 30°   | 818.9  | 822.1  | 820.3  | 797.8  | 788.6  | 804.2  | 930.7  | 1177.7 | 1134.6 | 1123.6 | 840.4  |
| 32.5° | 902.7  | 895.9  | 903.7  | 884.9  | 857.8  | 871.6  | 997.1  | 1286.8 | 1297.8 | 1282.2 | 942.6  |
| 35°   | 1013.6 | 1009.5 | 1004.5 | 973.8  | 941.7  | 952.7  | 1091.1 | 1421.0 | 1502.6 | 1494.8 | 1045.7 |
| 37.5° | 1113.1 | 1110.8 | 1106.7 | 1085.6 | 1048.5 | 1061.8 | 1197.9 | 1560.8 | 1702.4 | 1676.7 | 1191.4 |
| 40°   | 1217.6 | 1229.9 | 1216.6 | 1197.9 | 1164.0 | 1193.3 | 1323.4 | 1643.7 | 1870.6 | 1839.4 | 1302.8 |
| 42.5° | 1359.2 | 1349.5 | 1355.5 | 1321.1 | 1302.8 | 1334.9 | 1449.4 | 1726.7 | 2001.2 | 1964.1 | 1421.0 |
| 45°   | 1509.9 | 1510.4 | 1494.3 | 1483.4 | 1435.7 | 1470.5 | 1526.9 | 1772.5 | 2105.2 | 2076.3 | 1510.4 |
| 47.5° | 1606.6 | 1606.2 | 1623.6 | 1641.0 | 1592.0 | 1557.6 | 1579.6 | 1816.0 | 2158.8 | 2145.5 | 1542.9 |
| 50°   | 1591.5 | 1596.1 | 1618.5 | 1683.6 | 1709.3 | 1663.0 | 1629.1 | 1803.2 | 2183.1 | 2181.7 | 1570.9 |
| 52.5° | 1384.4 | 1399.5 | 1437.1 | 1531.0 | 1660.2 | 1717.5 | 1680.9 | 1827.0 | 2195.0 | 2197.3 | 1612.6 |
| 55°   | 1054.0 | 1062.2 | 1133.7 | 1247.8 | 1390.8 | 1586.9 | 1660.2 | 1845.8 | 2204.2 | 2208.3 | 1663.0 |
| 56°   | 914.2  | 892.2  | 995.3  | 1076.4 | 1247.4 | 1461.8 | 1608.0 | 1831.2 | 2198.7 | 2230.3 | 1688.2 |
| 57.5° | 690.1  | 675.5  | 758.9  | 860.1  | 1024.6 | 1251.0 | 1445.8 | 1762.0 | 2161.6 | 2161.1 | 1652.0 |
| 60°   | 419.8  | 405.1  | 469.2  | 528.8  | 620.9  | 770.3  | 977.0  | 1403.2 | 1827.5 | 1866.0 | 1337.6 |
| 62.5° | 249.7  | 258.9  | 322.1  | 358.4  | 388.1  | 403.7  | 505.4  | 834.0  | 1219.4 | 1246.9 | 829.9  |
| 65°   | 166.3  | 169.6  | 217.2  | 276.8  | 290.1  | 231.0  | 205.8  | 337.7  | 528.8  | 511.9  | 342.3  |
| 67.5° | 102.6  | 110.0  | 145.7  | 208.0  | 230.5  | 168.6  | 97.6   | 126.0  | 145.7  | 145.7  | 99.0   |
| 70°   | 62.3   | 66.0   | 97.1   | 141.6  | 158.1  | 108.6  | 71.0   | 71.0   | 70.1   | 68.7   | 59.1   |
| 72.5° | 29.8   | 32.1   | 49.5   | 72.9   | 74.2   | 57.3   | 55.0   | 60.0   | 58.7   | 58.2   | 49.0   |
| 75°   | 12.8   | 13.7   | 17.4   | 22.9   | 26.1   | 24.3   | 33.5   | 43.1   | 44.5   | 43.1   | 35.3   |
| 77.5° | 4.1    | 4.6    | 6.4    | 8.2    | 8.7    | 10.5   | 14.2   | 17.9   | 20.6   | 19.2   | 17.4   |
| 80°   | 0.5    | 0.9    | 1.8    | 4.1    | 6.4    | 8.2    | 10.5   | 11.9   | 13.3   | 13.3   | 12.4   |
| 82.5° | 0.5    | 0.5    | 1.8    | 3.7    | 6.0    | 7.8    | 10.1   | 11.5   | 13.3   | 13.7   | 12.8   |
| 85°   | 0.0    | 0.5    | 1.4    | 3.2    | 5.0    | 5.0    | 4.6    | 4.6    | 3.2    | 3.2    | 3.2    |
| 87.5° | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    | 0.9    |
| 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°    | 413.8  | 413.8 | 413.8 | 413.8 | 413.8 | 413.8 | 413.8 | 413.8 | 413.8 | 413.8 | 413.8 |
| 2.5°  | 417.5  | 416.5 | 404.2 | 396.4 | 392.3 | 384.0 | 379.0 | 375.3 | 372.6 | 369.3 | 369.8 |
| 5°    | 423.0  | 419.8 | 399.1 | 384.9 | 368.0 | 358.8 | 351.0 | 344.6 | 340.5 | 339.6 | 337.7 |
| 7.5°  | 438.5  | 421.6 | 390.4 | 364.8 | 343.2 | 334.1 | 327.2 | 323.1 | 324.9 | 320.8 | 324.0 |
| 10°   | 450.5  | 425.3 | 379.9 | 342.8 | 321.2 | 314.4 | 310.7 | 313.9 | 318.5 | 316.6 | 314.4 |
| 12.5° | 465.1  | 428.9 | 362.9 | 321.7 | 301.5 | 296.5 | 302.9 | 308.9 | 318.0 | 321.7 | 317.1 |
| 15°   | 481.6  | 433.0 | 341.4 | 297.4 | 284.6 | 288.7 | 299.7 | 310.2 | 319.4 | 324.0 | 326.7 |
| 17.5° | 501.8  | 431.7 | 320.3 | 278.2 | 268.5 | 280.4 | 293.7 | 303.4 | 317.1 | 324.0 | 322.1 |
| 20°   | 520.6  | 427.1 | 296.9 | 258.9 | 259.4 | 270.4 | 281.4 | 296.9 | 304.3 | 313.4 | 310.2 |
| 22.5° | 538.4  | 418.8 | 272.7 | 245.6 | 245.6 | 262.6 | 268.1 | 278.2 | 284.6 | 289.2 | 288.7 |
| 25°   | 563.6  | 403.3 | 252.5 | 232.8 | 238.3 | 249.3 | 253.9 | 257.1 | 254.3 | 258.0 | 258.5 |
| 27.5° | 581.5  | 387.2 | 236.0 | 221.3 | 231.4 | 239.7 | 238.3 | 236.5 | 230.0 | 225.0 | 228.2 |
| 30°   | 600.8  | 368.4 | 221.8 | 213.5 | 219.0 | 226.4 | 220.9 | 215.4 | 205.3 | 197.0 | 197.5 |
| 32.5° | 628.3  | 359.7 | 209.4 | 204.4 | 211.7 | 212.6 | 206.7 | 198.4 | 188.3 | 180.5 | 180.1 |
| 35°   | 679.6  | 354.2 | 198.9 | 198.4 | 199.8 | 200.3 | 194.3 | 184.2 | 180.1 | 173.7 | 176.0 |
| 37.5° | 730.9  | 351.5 | 191.5 | 189.7 | 189.3 | 189.7 | 182.8 | 173.2 | 181.0 | 180.5 | 181.5 |
| 40°   | 796.4  | 363.8 | 181.0 | 178.7 | 179.2 | 179.2 | 170.5 | 167.7 | 181.5 | 182.8 | 183.3 |
| 42.5° | 862.9  | 379.4 | 174.1 | 166.8 | 168.6 | 168.6 | 164.1 | 160.8 | 170.5 | 161.3 | 159.9 |
| 45°   | 920.6  | 402.3 | 166.8 | 154.9 | 159.5 | 161.8 | 160.4 | 154.9 | 148.9 | 133.4 | 133.4 |
| 47.5° | 939.4  | 422.5 | 158.1 | 143.4 | 147.1 | 157.2 | 153.1 | 141.6 | 131.1 | 118.2 | 117.3 |
| 50°   | 972.4  | 444.5 | 151.2 | 130.1 | 137.9 | 150.3 | 146.2 | 134.7 | 122.8 | 113.6 | 114.1 |
| 52.5° | 1006.3 | 469.7 | 138.4 | 114.6 | 124.2 | 144.8 | 144.8 | 132.0 | 113.6 | 107.2 | 106.3 |
| 55°   | 1057.2 | 468.8 | 115.5 | 93.9  | 110.9 | 136.6 | 138.8 | 118.2 | 101.7 | 96.7  | 96.7  |
| 56°   | 1064.5 | 447.7 | 104.0 | 88.0  | 104.9 | 134.3 | 134.7 | 114.6 | 97.1  | 91.6  | 91.6  |
| 57.5° | 1009.5 | 404.2 | 91.2  | 80.7  | 97.6  | 130.1 | 130.6 | 111.4 | 93.5  | 85.7  | 84.8  |
| 60°   | 776.7  | 273.6 | 76.1  | 71.9  | 88.4  | 117.3 | 119.6 | 101.3 | 82.0  | 76.1  | 75.6  |
| 62.5° | 438.5  | 151.7 | 66.9  | 65.1  | 76.1  | 99.9  | 106.8 | 88.4  | 69.7  | 66.4  | 67.4  |
| 65°   | 200.3  | 83.4  | 56.4  | 52.7  | 61.4  | 77.0  | 86.2  | 72.9  | 57.3  | 53.6  | 53.6  |
| 67.5° | 73.3   | 56.8  | 48.1  | 41.7  | 43.1  | 49.9  | 55.9  | 47.2  | 38.0  | 32.5  | 33.9  |
| 70°   | 52.2   | 47.7  | 42.2  | 36.2  | 33.5  | 32.5  | 32.1  | 26.6  | 18.8  | 14.7  | 15.6  |
| 72.5° | 42.2   | 39.4  | 35.3  | 30.7  | 26.1  | 22.0  | 18.8  | 13.7  | 8.7   | 6.0   | 5.5   |
| 75°   | 30.2   | 28.9  | 25.7  | 22.0  | 18.3  | 15.6  | 12.8  | 8.7   | 4.6   | 2.3   | 2.3   |
| 77.5° | 15.6   | 15.6  | 15.1  | 13.7  | 11.5  | 9.2   | 7.3   | 5.0   | 2.7   | 0.9   | 0.9   |
| 80°   | 11.9   | 12.8  | 13.3  | 11.9  | 10.5  | 8.2   | 6.0   | 3.7   | 1.8   | 0.5   | 0.5   |
| 82.5° | 11.5   | 13.3  | 14.2  | 12.4  | 10.5  | 7.8   | 6.0   | 3.7   | 1.8   | 0.5   | 0.5   |
| 85°   | 2.7    | 2.7   | 4.1   | 4.6   | 6.0   | 6.4   | 5.0   | 3.2   | 1.4   | 0.5   | 0.5   |
| 87.5° | 0.9    | 0.9   | 0.9   | 0.9   | 0.9   | 0.9   | 0.5   | 0.5   | 0.5   | 0.5   | 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)