

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: STREETWORKS

Report Number: P450468

Luminaire Tested: **GLAN-SA1B-730-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1B-730-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3920 lumens  
Efficiency: N/A  
Efficacy: 89.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1

Input Watts (W): 44  
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

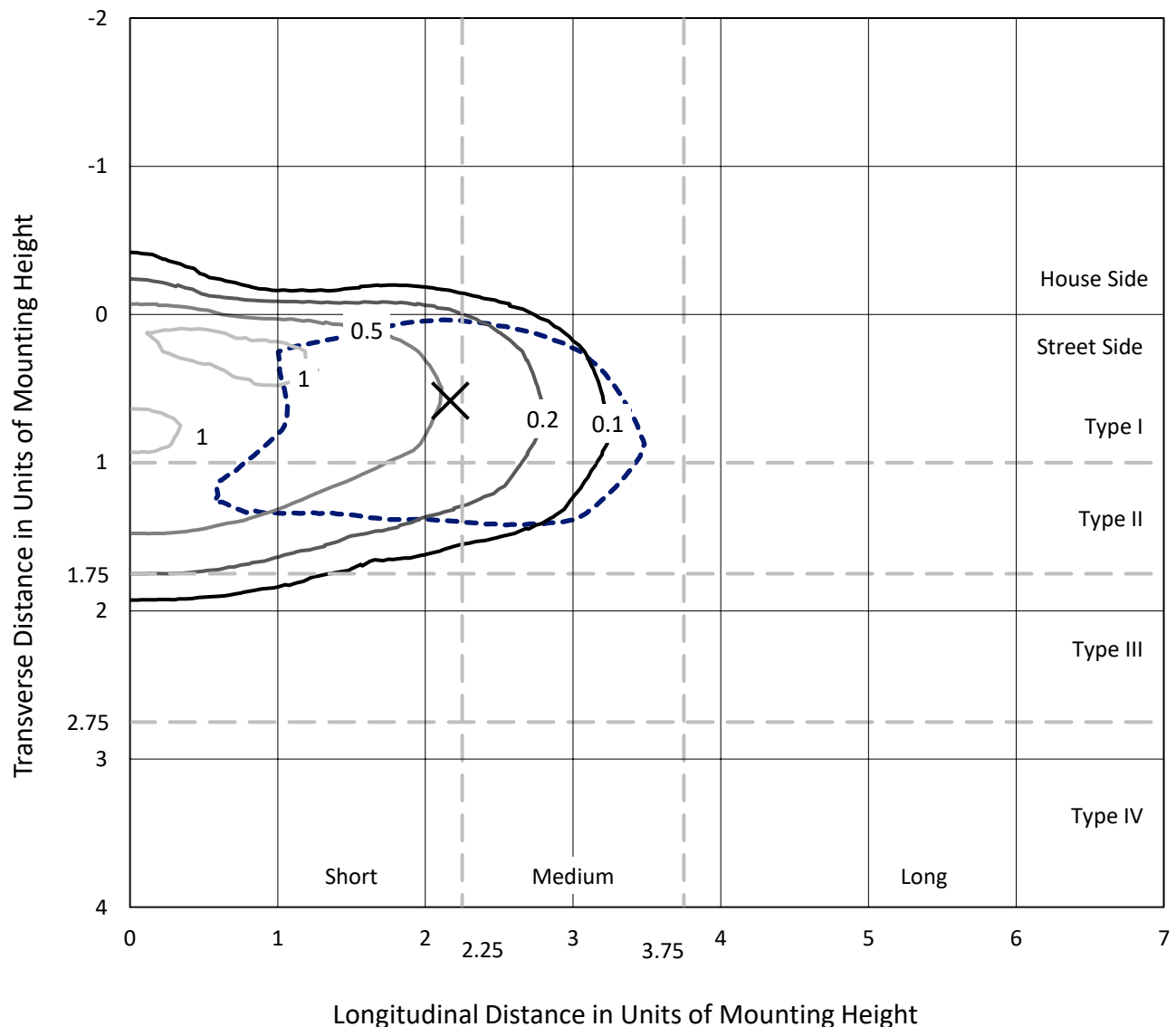


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## Iso-Footcandle Lines of Horizontal Illumination

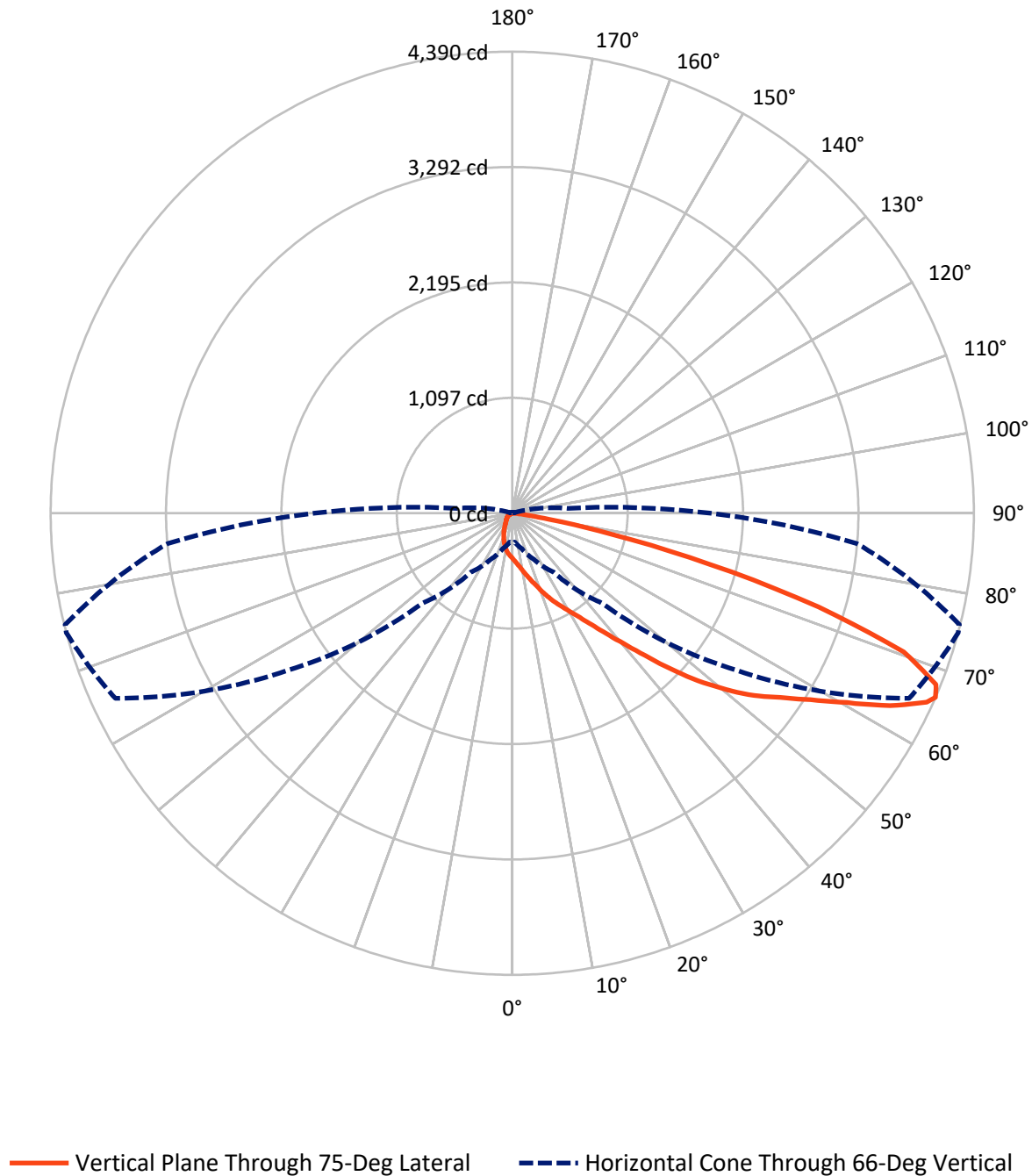
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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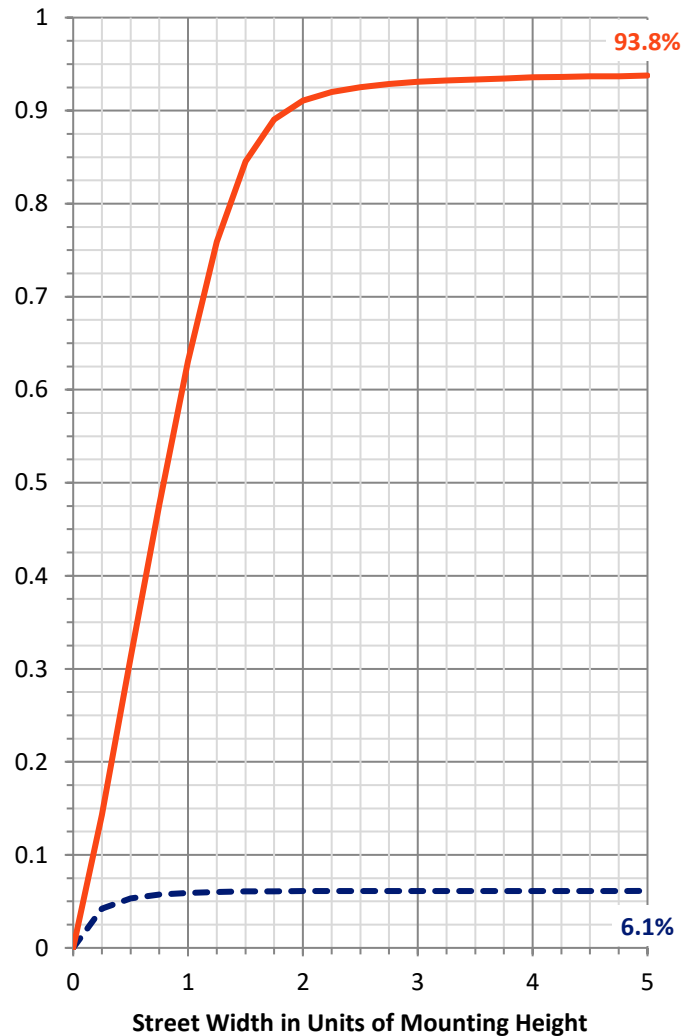
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 242.0    | 0.0    | 242.0  |
|                    | % Fixture | 6.2      | 0.0    | 6.2    |
| <b>Street Side</b> | Lumens    | 3678.0   | 0.0    | 3678.0 |
|                    | % Fixture | 93.8     | 0.0    | 93.8   |
| <b>Total</b>       | Lumens    | 3920.0   | 0.0    | 3920.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.3   | 1.1       |
| 10°-20°   | 121.7  | 3.1       |
| 20°-30°   | 210.1  | 5.4       |
| 30°-40°   | 379.0  | 9.7       |
| 40°-50°   | 684.7  | 17.5      |
| 50°-60°   | 1067.5 | 27.2      |
| 60°-70°   | 1014.1 | 25.9      |
| 70°-80°   | 380.1  | 9.7       |
| 80°-90°   | 21.4   | 0.5       |
| 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°    | 3920.0 | 100.0     |
| 0°-180°   | 3920.0 | 100.0     |

**Coefficient of Utilization**



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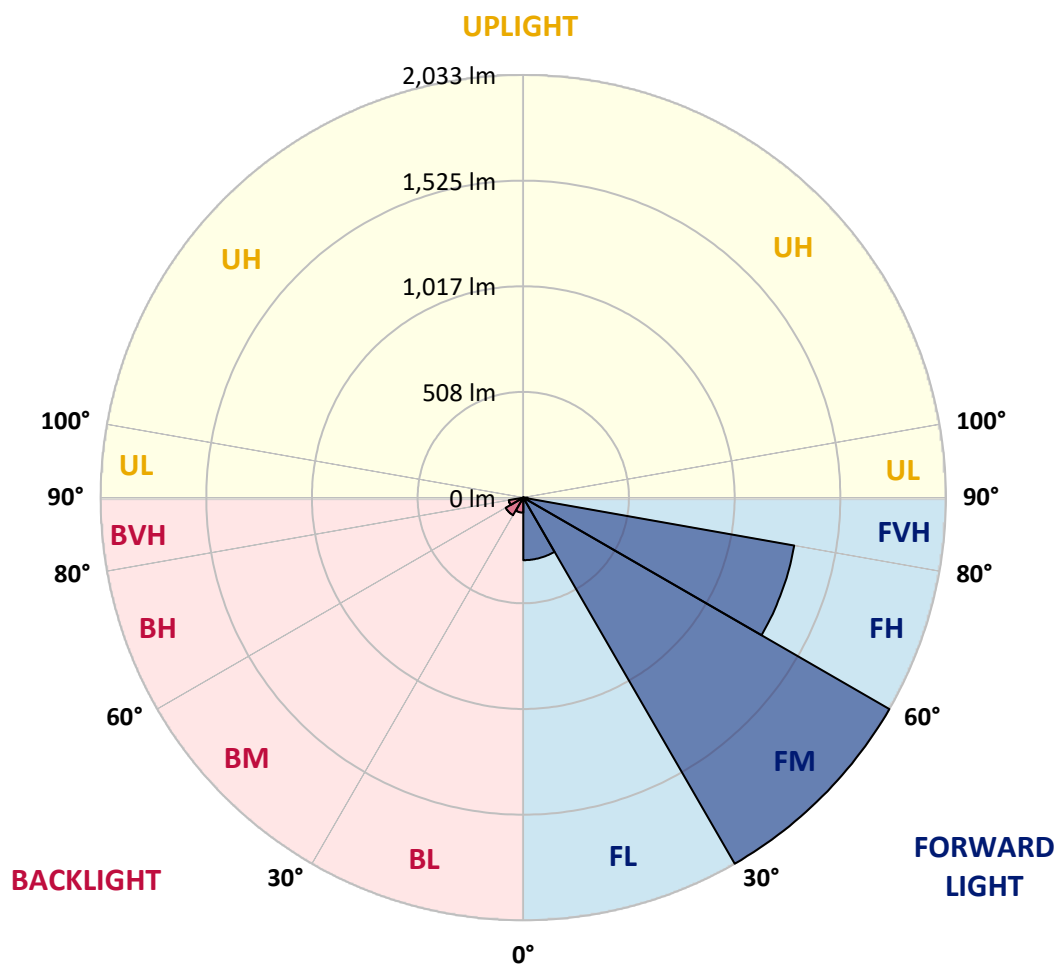
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 300.9  | 7.7       |                         |      |         |
| FM   | (30°-60°)   | 2033.3 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 1323.5 | 33.8      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 20.3   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 72.3   | 1.8       | B0/110                  |      |         |
| BM   | (30°-60°)   | 98.0   | 2.5       | B0/220                  |      |         |
| BH   | (60°-80°)   | 70.7   | 1.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.1    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 428.7  | 428.7  | 428.7  | 428.7  | 428.7  | 428.7  | 428.7  | 428.7  | 428.7  | 428.7  | 428.7  |
| 2.5°  | 512.2  | 505.8  | 507.8  | 504.9  | 498.3  | 488.4  | 479.7  | 467.2  | 454.8  | 452.7  | 438.8  |
| 5°    | 579.7  | 578.0  | 575.6  | 567.2  | 562.6  | 547.5  | 529.6  | 508.1  | 482.3  | 477.7  | 452.5  |
| 7.5°  | 625.8  | 624.9  | 626.1  | 621.7  | 617.7  | 604.1  | 584.9  | 555.6  | 515.6  | 513.0  | 471.0  |
| 10°   | 640.9  | 643.2  | 647.5  | 654.5  | 660.9  | 656.5  | 642.0  | 605.5  | 558.8  | 551.3  | 492.2  |
| 12.5° | 632.2  | 634.8  | 645.2  | 663.8  | 684.3  | 696.2  | 690.4  | 663.8  | 604.6  | 598.5  | 515.9  |
| 15°   | 609.8  | 613.0  | 627.8  | 656.5  | 693.3  | 726.9  | 741.4  | 722.3  | 658.0  | 648.1  | 544.6  |
| 17.5° | 576.8  | 581.4  | 602.6  | 640.6  | 691.0  | 749.0  | 789.8  | 783.5  | 714.8  | 705.5  | 575.9  |
| 20°   | 551.9  | 555.4  | 573.3  | 616.8  | 681.2  | 761.2  | 835.9  | 853.9  | 784.9  | 769.0  | 612.7  |
| 22.5° | 568.4  | 569.6  | 575.6  | 601.7  | 663.5  | 764.3  | 876.5  | 927.2  | 859.4  | 845.2  | 651.0  |
| 25°   | 649.3  | 637.7  | 631.6  | 625.8  | 659.7  | 761.4  | 913.3  | 1003.8 | 933.6  | 918.5  | 689.0  |
| 27.5° | 776.8  | 771.6  | 740.9  | 699.7  | 691.9  | 765.2  | 937.7  | 1076.2 | 1003.5 | 987.2  | 726.1  |
| 30°   | 915.6  | 906.7  | 887.8  | 827.5  | 766.9  | 791.9  | 955.4  | 1146.7 | 1086.1 | 1064.6 | 760.0  |
| 32.5° | 1043.2 | 1049.0 | 1020.9 | 958.8  | 888.7  | 848.7  | 978.2  | 1223.5 | 1180.9 | 1154.2 | 799.4  |
| 35°   | 1191.9 | 1203.5 | 1160.3 | 1100.9 | 1018.8 | 951.3  | 1022.9 | 1310.1 | 1301.1 | 1267.5 | 860.3  |
| 37.5° | 1342.9 | 1349.8 | 1323.5 | 1240.0 | 1166.1 | 1081.7 | 1106.9 | 1417.1 | 1449.3 | 1420.6 | 933.0  |
| 40°   | 1469.8 | 1479.4 | 1460.0 | 1385.8 | 1306.9 | 1232.7 | 1229.0 | 1533.6 | 1625.5 | 1595.9 | 1041.4 |
| 42.5° | 1566.9 | 1574.2 | 1574.8 | 1522.3 | 1451.3 | 1417.7 | 1384.6 | 1682.3 | 1846.4 | 1812.2 | 1167.2 |
| 45°   | 1689.5 | 1700.0 | 1693.9 | 1658.2 | 1605.2 | 1599.1 | 1582.0 | 1862.0 | 2110.7 | 2067.5 | 1330.4 |
| 47.5° | 1879.1 | 1886.1 | 1871.0 | 1829.0 | 1775.1 | 1784.6 | 1774.5 | 2063.5 | 2380.3 | 2343.2 | 1499.4 |
| 50°   | 2010.7 | 2022.3 | 2043.7 | 2060.6 | 2021.4 | 1986.1 | 1955.9 | 2251.6 | 2636.2 | 2602.9 | 1672.2 |
| 52.5° | 2009.3 | 2028.4 | 2096.2 | 2180.8 | 2266.4 | 2255.6 | 2169.0 | 2459.4 | 2880.5 | 2839.4 | 1834.5 |
| 55°   | 1873.9 | 1911.0 | 2010.7 | 2160.8 | 2397.7 | 2515.6 | 2476.2 | 2700.0 | 3091.6 | 3063.7 | 2022.6 |
| 57.5° | 1594.5 | 1617.1 | 1755.6 | 1965.5 | 2324.3 | 2637.9 | 2832.1 | 3026.1 | 3344.6 | 3331.6 | 2314.8 |
| 60°   | 1072.5 | 1082.6 | 1260.9 | 1520.3 | 1978.8 | 2515.9 | 3093.0 | 3420.5 | 3656.2 | 3649.8 | 2655.9 |
| 62.5° | 614.5  | 618.8  | 748.1  | 966.9  | 1408.1 | 2132.1 | 3115.0 | 3907.2 | 4029.8 | 4033.3 | 3050.7 |
| 65°   | 330.7  | 333.0  | 437.4  | 567.5  | 856.8  | 1519.7 | 2801.1 | 4173.9 | 4331.8 | 4338.5 | 3295.3 |
| 66°   | 285.5  | 274.5  | 348.1  | 483.8  | 681.7  | 1209.6 | 2602.6 | 4164.3 | 4389.8 | 4382.6 | 3286.6 |
| 67.5° | 217.1  | 227.0  | 278.0  | 371.9  | 505.2  | 860.0  | 2148.7 | 3979.1 | 4345.7 | 4323.1 | 3153.0 |
| 70°   | 155.4  | 159.4  | 198.0  | 265.2  | 344.1  | 471.9  | 1373.0 | 3304.9 | 3949.8 | 3919.4 | 2746.9 |
| 72.5° | 100.3  | 104.6  | 140.3  | 191.9  | 248.7  | 257.7  | 768.7  | 2387.8 | 3045.2 | 3040.8 | 2068.7 |
| 75°   | 71.6   | 75.7   | 92.8   | 137.4  | 187.0  | 159.4  | 370.1  | 1609.3 | 1935.9 | 1922.9 | 1279.7 |
| 77.5° | 51.9   | 53.9   | 62.0   | 89.9   | 133.6  | 114.2  | 171.6  | 859.4  | 963.8  | 1009.3 | 565.5  |
| 80°   | 29.9   | 31.6   | 43.2   | 54.8   | 90.4   | 78.0   | 82.0   | 344.9  | 355.6  | 338.5  | 176.8  |
| 82.5° | 14.8   | 16.8   | 25.8   | 37.4   | 56.5   | 52.5   | 37.7   | 103.8  | 109.6  | 106.7  | 44.6   |
| 85°   | 3.5    | 4.3    | 14.5   | 24.6   | 27.5   | 23.5   | 18.3   | 30.4   | 37.7   | 36.8   | 17.1   |
| 87.5° | 0.3    | 0.6    | 5.2    | 4.3    | 4.6    | 7.8    | 6.4    | 7.8    | 12.2   | 11.3   | 6.1    |
| 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°    | 428.7  | 428.7 | 428.7 | 428.7 | 428.7 | 428.7 | 428.7 | 428.7 | 428.7 | 428.7 | 428.7 |
| 2.5°  | 432.5  | 427.0 | 411.0 | 395.4 | 382.3 | 368.7 | 356.2 | 349.0 | 346.1 | 342.9 | 344.3 |
| 5°    | 438.5  | 425.2 | 393.0 | 365.2 | 338.0 | 314.8 | 296.2 | 284.3 | 278.5 | 277.7 | 276.2 |
| 7.5°  | 446.7  | 423.8 | 373.9 | 330.4 | 294.8 | 269.0 | 247.8 | 230.7 | 225.5 | 220.9 | 217.1 |
| 10°   | 456.5  | 421.2 | 350.1 | 293.9 | 255.9 | 223.5 | 195.6 | 175.4 | 164.9 | 162.0 | 164.1 |
| 12.5° | 467.0  | 416.2 | 325.2 | 260.3 | 216.5 | 175.1 | 149.3 | 139.1 | 136.2 | 135.1 | 135.4 |
| 15°   | 477.4  | 410.1 | 299.1 | 227.8 | 172.5 | 139.7 | 127.8 | 125.2 | 124.1 | 123.5 | 122.9 |
| 17.5° | 487.0  | 400.3 | 269.9 | 196.2 | 139.7 | 119.4 | 115.1 | 112.8 | 110.4 | 109.6 | 108.1 |
| 20°   | 498.3  | 389.0 | 243.5 | 160.9 | 118.3 | 108.1 | 102.9 | 98.5  | 95.1  | 92.8  | 92.5  |
| 22.5° | 509.0  | 374.5 | 215.9 | 133.3 | 107.8 | 97.1  | 88.7  | 84.1  | 80.0  | 77.1  | 78.0  |
| 25°   | 514.8  | 356.8 | 191.3 | 116.2 | 98.3  | 86.1  | 76.8  | 71.0  | 66.7  | 65.2  | 64.9  |
| 27.5° | 514.8  | 335.1 | 167.2 | 106.4 | 89.6  | 76.2  | 66.7  | 61.2  | 58.3  | 56.2  | 56.5  |
| 30°   | 510.7  | 311.0 | 144.9 | 98.8  | 82.0  | 67.5  | 58.6  | 53.6  | 51.3  | 49.9  | 49.6  |
| 32.5° | 507.5  | 288.1 | 125.8 | 91.6  | 74.2  | 60.0  | 52.2  | 48.4  | 46.1  | 44.6  | 44.6  |
| 35°   | 512.5  | 268.4 | 111.0 | 84.3  | 67.0  | 54.2  | 47.2  | 43.8  | 41.4  | 40.3  | 40.0  |
| 37.5° | 525.5  | 250.4 | 99.7  | 76.5  | 60.3  | 49.3  | 43.8  | 39.7  | 37.4  | 35.9  | 35.4  |
| 40°   | 557.7  | 240.3 | 91.3  | 69.3  | 53.9  | 45.2  | 39.7  | 35.9  | 33.0  | 31.6  | 31.3  |
| 42.5° | 609.3  | 240.6 | 83.2  | 62.6  | 49.0  | 41.7  | 36.2  | 31.9  | 28.7  | 27.2  | 27.0  |
| 45°   | 686.9  | 251.6 | 76.8  | 56.2  | 44.6  | 38.0  | 32.5  | 27.8  | 24.9  | 23.5  | 23.5  |
| 47.5° | 780.0  | 273.0 | 71.3  | 50.7  | 40.6  | 34.5  | 28.7  | 24.1  | 21.2  | 20.0  | 20.0  |
| 50°   | 880.9  | 300.9 | 65.8  | 44.9  | 37.1  | 30.7  | 24.6  | 20.9  | 18.6  | 17.7  | 17.7  |
| 52.5° | 983.8  | 334.5 | 60.3  | 40.3  | 33.3  | 26.7  | 21.2  | 18.6  | 16.5  | 15.9  | 15.7  |
| 55°   | 1118.8 | 377.4 | 54.5  | 35.4  | 29.3  | 22.9  | 18.8  | 16.2  | 13.9  | 13.0  | 12.8  |
| 57.5° | 1326.7 | 442.0 | 48.1  | 31.0  | 24.1  | 19.1  | 16.2  | 13.6  | 11.0  | 9.6   | 9.3   |
| 60°   | 1577.4 | 520.9 | 41.4  | 27.2  | 19.4  | 15.7  | 13.0  | 10.4  | 8.1   | 6.4   | 6.1   |
| 62.5° | 1812.2 | 571.0 | 35.1  | 22.9  | 15.4  | 11.9  | 9.3   | 7.8   | 5.8   | 4.1   | 3.8   |
| 65°   | 1915.9 | 554.2 | 29.0  | 18.6  | 12.2  | 8.4   | 6.1   | 5.5   | 3.5   | 1.7   | 1.4   |
| 66°   | 1881.4 | 529.3 | 26.7  | 16.8  | 11.0  | 7.2   | 5.2   | 4.6   | 2.6   | 0.9   | 0.9   |
| 67.5° | 1779.7 | 470.4 | 23.2  | 14.5  | 9.6   | 5.8   | 4.1   | 3.5   | 1.4   | 0.3   | 0.0   |
| 70°   | 1524.9 | 380.6 | 18.3  | 10.7  | 7.0   | 4.1   | 2.3   | 1.7   | 0.9   | 0.0   | 0.0   |
| 72.5° | 1171.3 | 283.5 | 14.5  | 8.1   | 4.9   | 2.3   | 1.2   | 0.6   | 0.9   | 0.0   | 0.0   |
| 75°   | 717.7  | 162.0 | 11.3  | 6.1   | 3.2   | 1.4   | 0.9   | 0.0   | 0.9   | 0.3   | 0.0   |
| 77.5° | 318.5  | 72.8  | 7.5   | 4.1   | 2.3   | 1.2   | 0.6   | 0.0   | 0.6   | 0.3   | 0.0   |
| 80°   | 80.6   | 23.8  | 4.3   | 2.9   | 1.7   | 0.9   | 0.3   | 0.0   | 0.6   | 0.6   | 0.3   |
| 82.5° | 22.0   | 8.7   | 3.2   | 2.3   | 1.4   | 0.9   | 0.3   | 0.0   | 0.6   | 0.6   | 0.6   |
| 85°   | 8.7    | 4.1   | 2.9   | 2.3   | 1.7   | 0.9   | 0.3   | 0.0   | 0.6   | 0.6   | 0.6   |
| 87.5° | 4.1    | 2.9   | 2.9   | 2.6   | 2.0   | 0.9   | 0.3   | 0.0   | 0.6   | 0.3   | 0.6   |
| 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)