

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: P200647

Luminaire Tested: **GAW-AF-01-LED-E1-SLR-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAW-AF-01-LED-E1-SLR-8030  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4560 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 59  
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

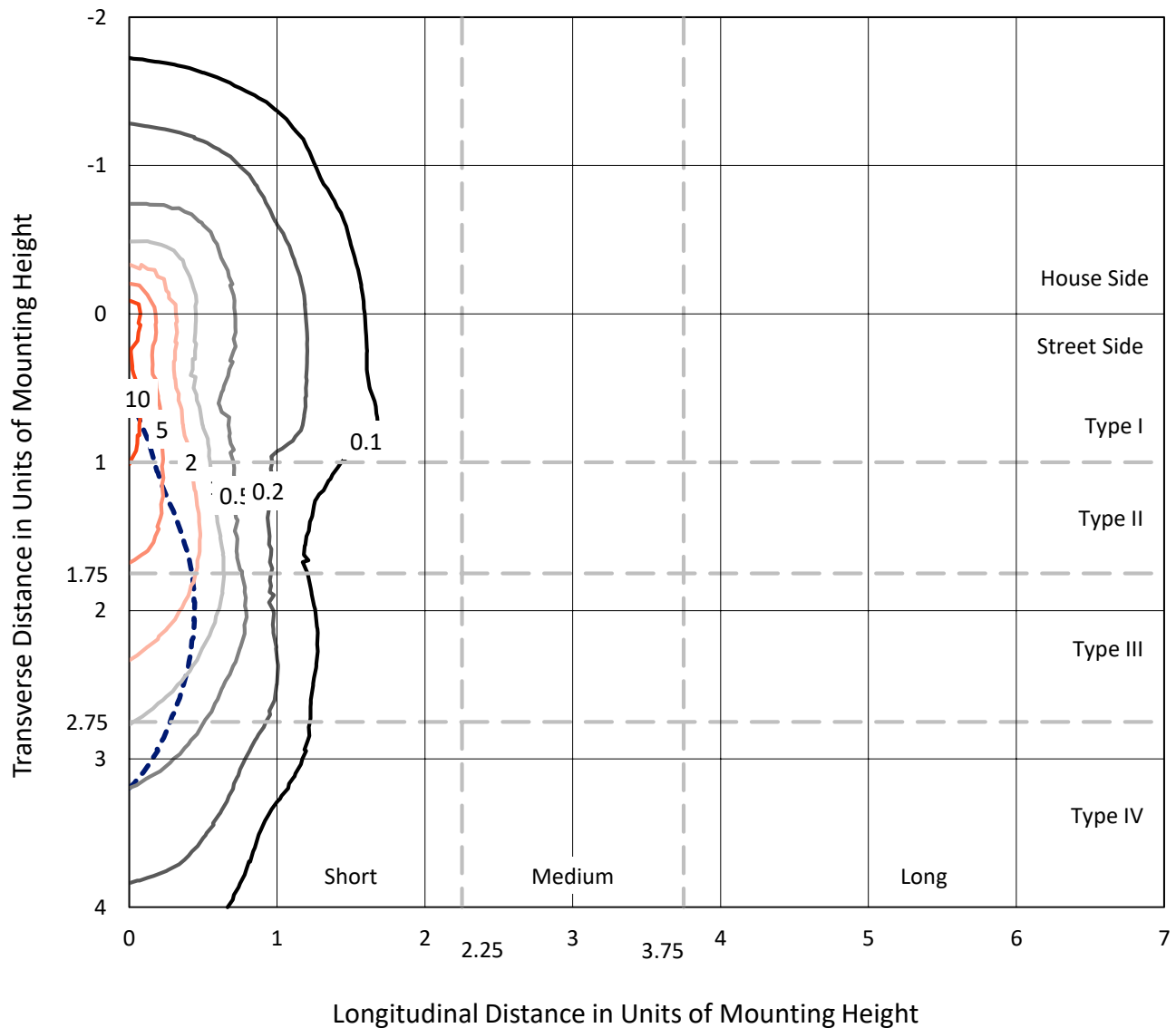


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

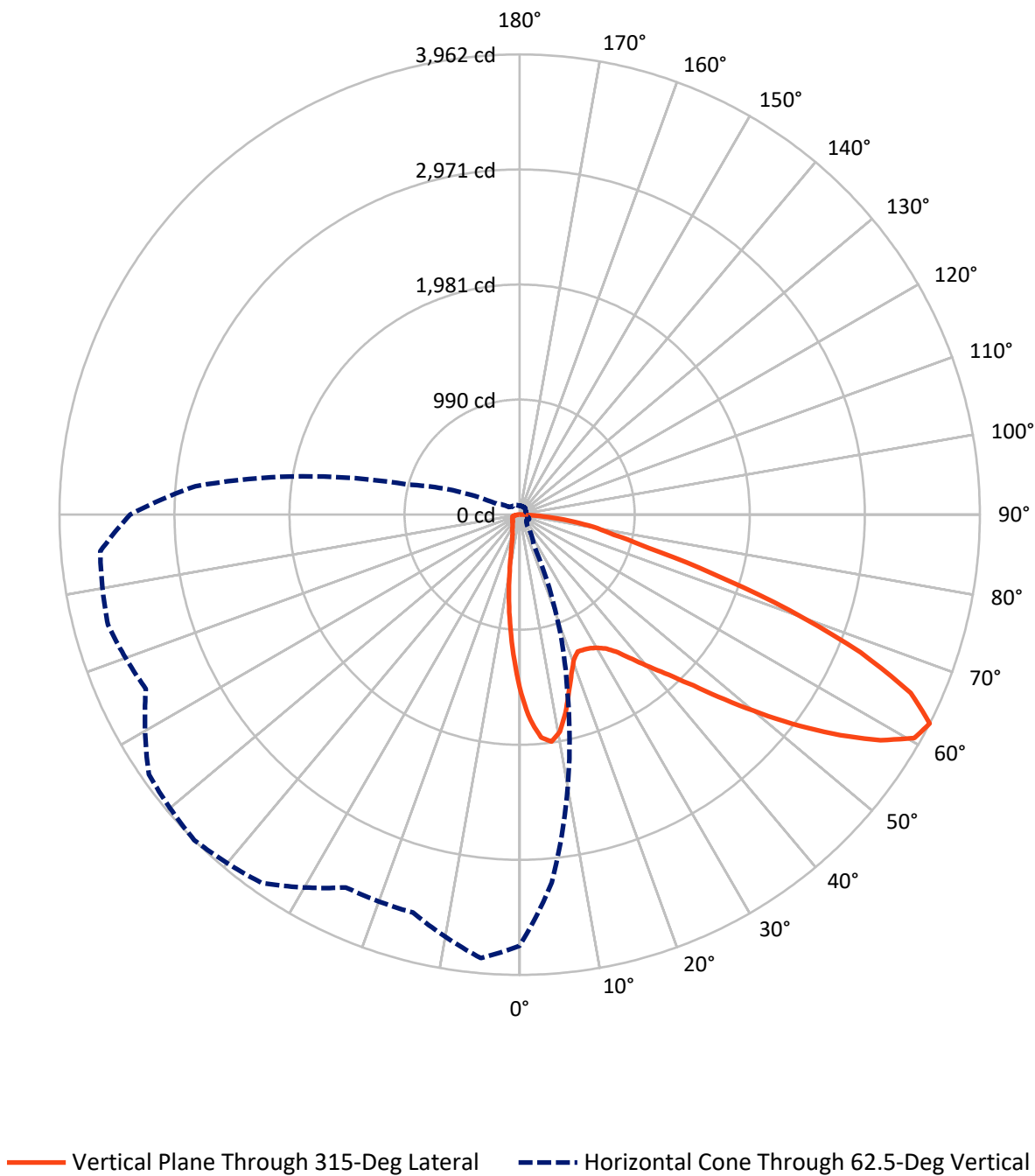


Based on 10 foot mounting height. Maximum calculated value = 15.4 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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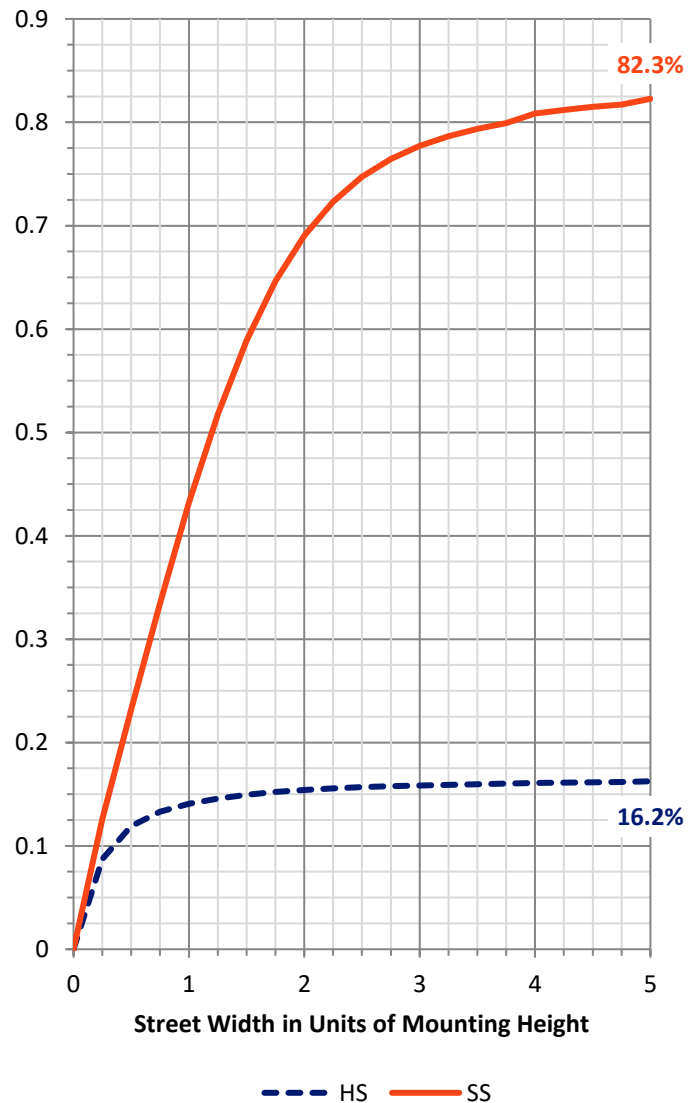
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 754.6    | 0.0    | 754.6  |
|                    | % Fixture | 16.5     | 0.0    | 16.5   |
| <b>Street Side</b> | Lumens    | 3805.4   | 0.0    | 3805.4 |
|                    | % Fixture | 83.5     | 0.0    | 83.5   |
| <b>Total</b>       | Lumens    | 4560.0   | 0.0    | 4560.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 112.1  | 2.5       |
| 10°-20°   | 205.7  | 4.5       |
| 20°-30°   | 299.8  | 6.6       |
| 30°-40°   | 461.8  | 10.1      |
| 40°-50°   | 679.6  | 14.9      |
| 50°-60°   | 996.9  | 21.9      |
| 60°-70°   | 1114.4 | 24.4      |
| 70°-80°   | 545.6  | 12.0      |
| 80°-90°   | 144.0  | 3.2       |
| 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°    | 4560.0 | 100.0     |
| 0°-180°   | 4560.0 | 100.0     |

**Coefficient of Utilization**



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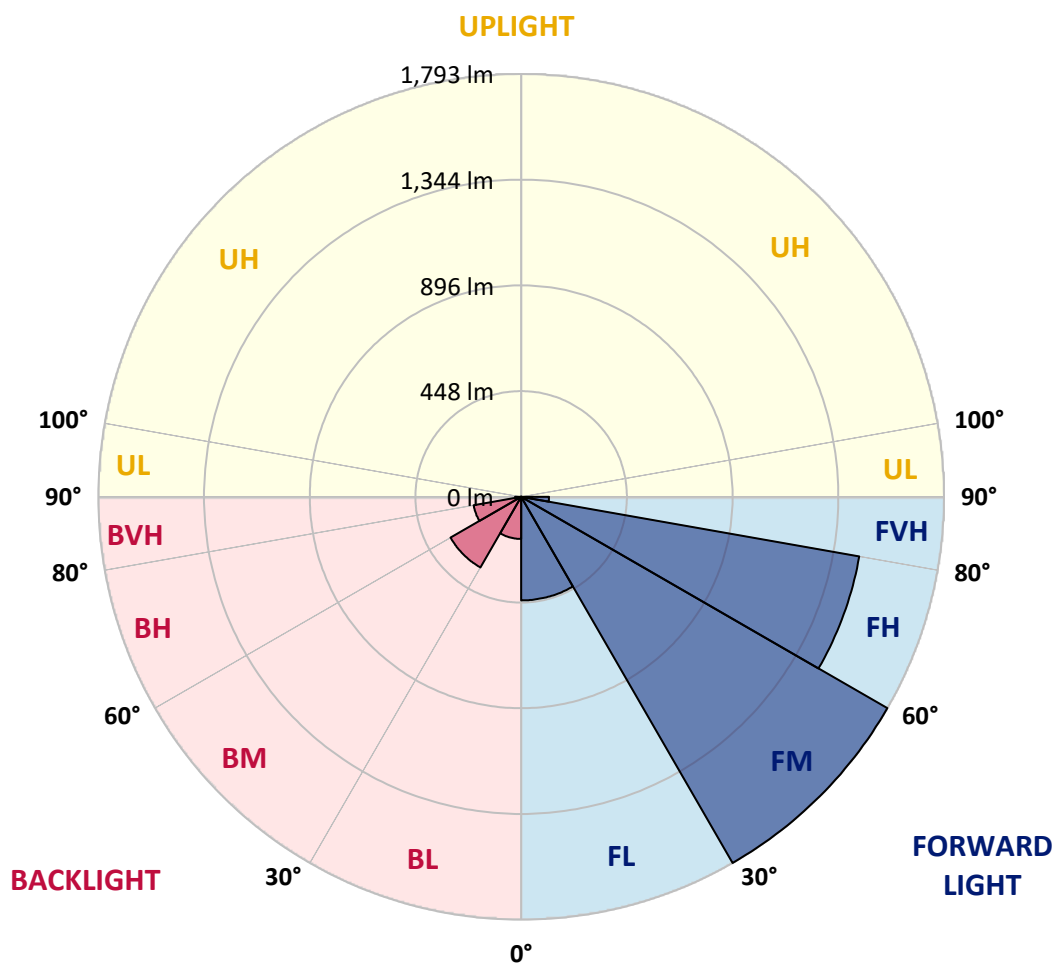
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 439.1  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 1792.6 | 39.3      |                         |      |         |
| FH   | (60°-80°)   | 1455.4 | 31.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 118.3  | 2.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 178.5  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 345.8  | 7.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 204.6  | 4.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 25.7   | 0.6       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 |
| 2.5°  | 1600.8 | 1568.2 | 1514.0 | 1457.6 | 1423.3 | 1383.2 | 1351.9 | 1324.3 | 1269.1 | 1258.4 | 1268.1 |
| 5°    | 1505.3 | 1439.8 | 1337.8 | 1235.0 | 1166.6 | 1093.2 | 1036.0 | 990.1  | 920.2  | 907.9  | 922.7  |
| 7.5°  | 1352.1 | 1273.9 | 1139.0 | 1007.9 | 911.2  | 819.4  | 757.8  | 708.6  | 654.0  | 630.4  | 631.9  |
| 10°   | 1220.0 | 1131.8 | 972.3  | 829.7  | 750.5  | 688.6  | 636.7  | 586.3  | 530.9  | 494.6  | 484.5  |
| 12.5° | 1146.1 | 1044.5 | 860.8  | 733.5  | 660.0  | 594.8  | 538.9  | 485.0  | 425.9  | 388.8  | 378.3  |
| 15°   | 1133.3 | 1023.0 | 818.9  | 671.8  | 579.8  | 497.3  | 431.4  | 371.2  | 310.3  | 280.2  | 274.0  |
| 17.5° | 1188.7 | 1061.6 | 805.4  | 616.9  | 504.3  | 402.6  | 321.6  | 254.4  | 204.8  | 189.8  | 188.5  |
| 20°   | 1295.0 | 1135.8 | 803.6  | 565.3  | 429.9  | 310.6  | 224.1  | 175.2  | 153.4  | 149.1  | 149.4  |
| 22.5° | 1444.1 | 1250.8 | 825.2  | 526.4  | 361.5  | 231.6  | 168.4  | 146.6  | 138.1  | 134.1  | 134.1  |
| 25°   | 1637.1 | 1409.3 | 874.8  | 498.1  | 302.1  | 185.0  | 148.6  | 135.6  | 127.6  | 124.8  | 125.3  |
| 27.5° | 1824.1 | 1563.4 | 932.5  | 475.8  | 263.2  | 167.9  | 140.9  | 129.1  | 122.1  | 119.3  | 120.6  |
| 30°   | 1970.0 | 1700.3 | 980.6  | 445.4  | 243.4  | 163.2  | 143.6  | 131.6  | 121.6  | 117.3  | 117.6  |
| 32.5° | 2090.8 | 1820.1 | 1021.0 | 423.6  | 225.9  | 139.9  | 123.8  | 118.6  | 117.3  | 112.3  | 109.8  |
| 35°   | 2245.2 | 1950.7 | 1048.0 | 424.1  | 217.6  | 124.8  | 110.3  | 101.0  | 94.3   | 88.5   | 88.5   |
| 37.5° | 2426.2 | 2100.6 | 1076.9 | 429.9  | 214.6  | 116.1  | 105.5  | 96.3   | 90.0   | 84.5   | 83.5   |
| 40°   | 2605.2 | 2247.5 | 1103.2 | 435.4  | 212.8  | 110.8  | 101.8  | 93.2   | 87.5   | 82.0   | 80.5   |
| 42.5° | 2757.4 | 2368.3 | 1126.8 | 438.2  | 206.8  | 110.3  | 99.0   | 91.2   | 85.7   | 79.7   | 78.2   |
| 45°   | 2869.9 | 2469.6 | 1152.1 | 442.4  | 200.8  | 112.3  | 99.0   | 91.0   | 84.2   | 78.5   | 77.0   |
| 47.5° | 2970.4 | 2588.4 | 1194.4 | 442.4  | 193.5  | 108.5  | 102.3  | 91.2   | 84.0   | 78.0   | 76.7   |
| 50°   | 3105.0 | 2751.3 | 1274.7 | 432.2  | 183.2  | 104.5  | 107.8  | 90.2   | 81.7   | 77.0   | 75.5   |
| 52.5° | 3290.5 | 2960.2 | 1402.0 | 414.4  | 167.4  | 96.8   | 107.0  | 89.7   | 79.5   | 74.4   | 72.7   |
| 55°   | 3509.9 | 3183.8 | 1540.9 | 393.6  | 143.9  | 91.2   | 103.3  | 88.5   | 77.0   | 71.4   | 69.7   |
| 57.5° | 3681.1 | 3337.7 | 1638.6 | 361.5  | 123.3  | 88.2   | 91.5   | 87.2   | 73.9   | 68.2   | 66.7   |
| 60°   | 3749.3 | 3331.6 | 1665.4 | 318.6  | 113.3  | 85.7   | 80.0   | 97.8   | 71.4   | 65.7   | 63.9   |
| 62.5° | 3712.4 | 3177.7 | 1590.2 | 288.5  | 111.0  | 82.5   | 75.0   | 90.5   | 69.4   | 63.9   | 61.4   |
| 65°   | 3542.2 | 2905.0 | 1391.0 | 280.5  | 117.6  | 79.2   | 71.7   | 70.9   | 66.7   | 61.4   | 58.9   |
| 67.5° | 3171.5 | 2497.4 | 1113.7 | 281.3  | 125.8  | 76.0   | 68.4   | 64.9   | 62.9   | 58.7   | 56.4   |
| 70°   | 2583.1 | 1974.5 | 830.2  | 283.3  | 130.1  | 72.2   | 64.9   | 61.2   | 58.9   | 54.6   | 53.1   |
| 72.5° | 1899.3 | 1521.8 | 603.1  | 270.2  | 130.8  | 67.9   | 60.2   | 56.9   | 54.6   | 50.1   | 48.9   |
| 75°   | 1299.5 | 1164.1 | 418.4  | 223.8  | 114.1  | 61.9   | 54.9   | 51.9   | 50.4   | 44.9   | 44.1   |
| 77.5° | 949.3  | 873.8  | 267.7  | 166.2  | 88.0   | 54.4   | 48.4   | 46.1   | 45.1   | 39.1   | 38.1   |
| 80°   | 761.8  | 691.3  | 167.4  | 113.8  | 64.4   | 45.6   | 40.6   | 39.4   | 38.4   | 32.3   | 31.6   |
| 82.5° | 528.4  | 463.0  | 107.5  | 73.9   | 48.4   | 35.3   | 32.1   | 31.6   | 30.1   | 24.6   | 23.8   |
| 85°   | 278.7  | 251.4  | 68.2   | 50.4   | 35.1   | 24.3   | 22.3   | 22.3   | 21.6   | 16.3   | 15.8   |
| 87.5° | 35.6   | 57.9   | 34.6   | 26.3   | 19.3   | 10.8   | 10.8   | 10.5   | 11.3   | 9.3    | 8.0    |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   | 185°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 |
| 2.5°  | 1245.1 | 1257.1 | 1245.6 | 1246.3 | 1259.1 | 1297.2 | 1314.5 | 1328.8 | 1344.1 | 1354.1 | 1358.6 |
| 5°    | 902.4  | 930.5  | 940.0  | 960.1  | 989.6  | 1038.3 | 1057.6 | 1071.6 | 1080.9 | 1086.4 | 1088.7 |
| 7.5°  | 617.1  | 634.2  | 653.2  | 685.6  | 750.0  | 778.6  | 791.4  | 788.1  | 777.6  | 773.8  | 770.1  |
| 10°   | 465.2  | 458.5  | 455.0  | 472.8  | 524.9  | 553.7  | 562.8  | 554.0  | 548.2  | 549.5  | 555.7  |
| 12.5° | 360.5  | 348.7  | 334.4  | 332.4  | 366.7  | 392.5  | 398.3  | 398.8  | 409.3  | 418.6  | 432.4  |
| 15°   | 262.7  | 261.4  | 254.4  | 250.2  | 269.7  | 290.8  | 293.3  | 297.8  | 307.3  | 314.1  | 326.1  |
| 17.5° | 185.2  | 192.0  | 197.5  | 200.3  | 215.1  | 230.1  | 227.4  | 225.1  | 223.3  | 223.3  | 229.1  |
| 20°   | 149.4  | 153.9  | 160.9  | 169.0  | 184.0  | 194.5  | 187.8  | 178.7  | 172.2  | 170.2  | 171.0  |
| 22.5° | 134.6  | 138.1  | 142.1  | 149.1  | 162.7  | 170.0  | 162.7  | 156.2  | 149.6  | 147.4  | 146.6  |
| 25°   | 127.1  | 131.6  | 135.4  | 140.6  | 150.7  | 155.7  | 148.6  | 143.9  | 139.9  | 137.1  | 135.1  |
| 27.5° | 122.8  | 126.8  | 127.8  | 130.3  | 138.9  | 143.4  | 139.9  | 137.9  | 135.4  | 132.9  | 130.3  |
| 30°   | 118.3  | 117.6  | 115.8  | 116.1  | 122.8  | 127.3  | 127.1  | 127.6  | 127.3  | 126.6  | 126.1  |
| 32.5° | 108.0  | 106.5  | 105.0  | 106.5  | 112.8  | 116.8  | 117.1  | 118.1  | 118.1  | 117.8  | 119.8  |
| 35°   | 90.0   | 92.7   | 94.5   | 99.0   | 106.5  | 110.0  | 108.5  | 106.0  | 101.5  | 98.8   | 98.5   |
| 37.5° | 83.2   | 83.7   | 86.7   | 93.0   | 101.3  | 104.5  | 102.3  | 96.5   | 93.5   | 93.0   | 93.8   |
| 40°   | 80.0   | 80.5   | 82.2   | 88.0   | 96.3   | 99.5   | 97.5   | 93.2   | 90.5   | 90.2   | 91.5   |
| 42.5° | 77.7   | 78.2   | 79.2   | 83.2   | 90.0   | 94.0   | 94.3   | 91.2   | 88.0   | 88.2   | 89.5   |
| 45°   | 76.5   | 76.7   | 76.5   | 78.5   | 84.7   | 89.5   | 91.5   | 89.5   | 86.7   | 87.2   | 88.7   |
| 47.5° | 76.2   | 75.5   | 74.4   | 75.0   | 81.5   | 86.2   | 88.7   | 88.0   | 86.7   | 87.2   | 88.5   |
| 50°   | 75.2   | 73.4   | 72.2   | 71.9   | 78.5   | 83.5   | 85.7   | 85.7   | 86.2   | 87.2   | 88.5   |
| 52.5° | 72.2   | 70.2   | 70.2   | 69.4   | 76.5   | 81.2   | 82.7   | 83.0   | 83.7   | 85.5   | 87.2   |
| 55°   | 68.4   | 67.7   | 68.4   | 67.2   | 75.0   | 79.5   | 80.2   | 80.7   | 81.2   | 82.7   | 85.2   |
| 57.5° | 65.2   | 64.2   | 65.9   | 65.4   | 73.7   | 77.7   | 77.7   | 78.7   | 78.7   | 80.7   | 82.7   |
| 60°   | 63.4   | 61.4   | 62.2   | 62.7   | 71.9   | 76.2   | 75.7   | 76.7   | 77.2   | 79.0   | 80.5   |
| 62.5° | 61.2   | 59.4   | 59.4   | 60.7   | 69.9   | 73.9   | 73.7   | 74.4   | 76.5   | 77.0   | 78.5   |
| 65°   | 58.4   | 57.7   | 56.9   | 58.4   | 67.9   | 71.4   | 71.7   | 72.7   | 74.4   | 75.0   | 76.2   |
| 67.5° | 55.6   | 55.9   | 54.4   | 55.9   | 66.2   | 68.9   | 68.9   | 70.9   | 71.7   | 72.7   | 73.9   |
| 70°   | 52.6   | 52.9   | 51.6   | 53.4   | 64.9   | 66.2   | 65.9   | 68.7   | 69.2   | 69.9   | 71.2   |
| 72.5° | 48.9   | 48.9   | 48.4   | 50.9   | 62.9   | 63.4   | 62.9   | 65.2   | 65.4   | 66.2   | 66.7   |
| 75°   | 44.9   | 44.9   | 44.4   | 47.9   | 61.7   | 60.4   | 58.9   | 60.7   | 61.2   | 61.7   | 61.7   |
| 77.5° | 39.6   | 40.1   | 40.1   | 44.4   | 57.4   | 59.2   | 54.1   | 55.1   | 55.9   | 56.1   | 55.4   |
| 80°   | 33.1   | 34.3   | 34.8   | 40.4   | 48.1   | 54.6   | 48.4   | 49.1   | 49.4   | 49.4   | 48.4   |
| 82.5° | 25.3   | 27.6   | 28.8   | 34.8   | 36.8   | 45.9   | 42.1   | 42.9   | 42.1   | 40.6   | 40.1   |
| 85°   | 17.5   | 20.6   | 22.1   | 26.6   | 27.8   | 35.3   | 35.1   | 35.1   | 33.6   | 31.6   | 31.3   |
| 87.5° | 9.5    | 11.3   | 12.3   | 15.8   | 19.1   | 23.8   | 25.8   | 25.1   | 23.8   | 22.6   | 22.8   |
| 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):**

|       | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   | 285°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 |
| 2.5°  | 1382.2 | 1416.3 | 1470.7 | 1512.3 | 1554.1 | 1594.5 | 1638.1 | 1671.5 | 1699.8 | 1710.8 | 1744.4 |
| 5°    | 1111.5 | 1154.1 | 1205.5 | 1298.2 | 1363.9 | 1436.3 | 1520.1 | 1630.9 | 1673.5 | 1732.4 | 1828.9 |
| 7.5°  | 785.8  | 824.5  | 907.2  | 982.1  | 1075.1 | 1177.6 | 1290.7 | 1443.6 | 1499.5 | 1594.0 | 1751.2 |
| 10°   | 586.8  | 631.7  | 698.1  | 761.3  | 843.3  | 948.0  | 1077.9 | 1248.8 | 1316.8 | 1419.3 | 1600.3 |
| 12.5° | 472.8  | 525.7  | 596.1  | 655.5  | 718.9  | 792.9  | 919.0  | 1106.5 | 1197.4 | 1287.2 | 1470.2 |
| 15°   | 363.2  | 418.6  | 484.0  | 559.5  | 629.4  | 709.1  | 841.2  | 1046.3 | 1151.1 | 1244.6 | 1400.7 |
| 17.5° | 251.4  | 298.8  | 381.3  | 460.0  | 549.5  | 651.5  | 819.7  | 1059.1 | 1184.2 | 1291.9 | 1412.8 |
| 20°   | 178.2  | 205.3  | 273.0  | 364.2  | 475.8  | 603.9  | 815.7  | 1126.3 | 1288.9 | 1412.0 | 1490.0 |
| 22.5° | 149.9  | 159.9  | 199.3  | 283.0  | 411.8  | 568.3  | 829.7  | 1220.5 | 1430.3 | 1587.5 | 1613.1 |
| 25°   | 136.6  | 142.6  | 163.2  | 222.1  | 354.9  | 542.4  | 877.1  | 1360.9 | 1605.3 | 1763.0 | 1758.4 |
| 27.5° | 129.3  | 135.6  | 149.1  | 187.5  | 312.1  | 526.4  | 924.5  | 1527.3 | 1805.3 | 1953.5 | 1897.3 |
| 30°   | 127.1  | 135.6  | 149.9  | 176.7  | 281.5  | 501.1  | 963.3  | 1673.5 | 1959.2 | 2082.1 | 1960.5 |
| 32.5° | 125.3  | 126.6  | 133.1  | 152.4  | 252.4  | 471.5  | 989.6  | 1804.6 | 2109.9 | 2204.4 | 2051.5 |
| 35°   | 101.3  | 107.5  | 118.1  | 136.6  | 235.4  | 453.7  | 989.6  | 1917.6 | 2258.3 | 2328.0 | 2138.2 |
| 37.5° | 97.5   | 103.0  | 112.3  | 128.1  | 225.9  | 444.9  | 969.8  | 2026.7 | 2409.9 | 2468.1 | 2209.7 |
| 40°   | 95.5   | 100.0  | 108.8  | 121.6  | 221.8  | 434.9  | 941.0  | 2122.9 | 2558.1 | 2608.5 | 2276.3 |
| 42.5° | 94.0   | 98.0   | 106.3  | 117.6  | 216.6  | 423.9  | 917.7  | 2200.1 | 2686.7 | 2728.3 | 2340.0 |
| 45°   | 93.2   | 97.5   | 106.5  | 119.6  | 206.1  | 409.3  | 909.9  | 2283.6 | 2792.5 | 2828.3 | 2408.9 |
| 47.5° | 93.2   | 98.3   | 107.8  | 123.8  | 193.5  | 394.3  | 934.2  | 2393.6 | 2892.5 | 2910.0 | 2490.1 |
| 50°   | 92.5   | 98.0   | 111.3  | 119.6  | 175.2  | 375.3  | 991.4  | 2532.3 | 3000.8 | 3002.8 | 2592.9 |
| 52.5° | 91.0   | 97.5   | 119.8  | 117.1  | 154.2  | 350.2  | 1068.6 | 2710.2 | 3160.9 | 3173.0 | 2753.9 |
| 55°   | 89.2   | 96.8   | 117.6  | 111.3  | 136.9  | 320.4  | 1131.8 | 2926.6 | 3386.0 | 3419.4 | 2990.5 |
| 57.5° | 87.0   | 95.8   | 113.8  | 103.3  | 125.6  | 282.0  | 1154.6 | 3085.0 | 3543.2 | 3626.9 | 3257.2 |
| 60°   | 85.0   | 95.0   | 102.8  | 98.5   | 118.6  | 249.7  | 1110.5 | 3053.7 | 3532.4 | 3712.9 | 3493.6 |
| 62.5° | 83.0   | 95.8   | 93.8   | 95.5   | 115.3  | 228.9  | 995.2  | 2802.7 | 3353.7 | 3624.2 | 3668.8 |
| 65°   | 80.7   | 89.0   | 88.5   | 93.0   | 114.6  | 220.6  | 825.0  | 2426.5 | 3008.3 | 3343.7 | 3710.2 |
| 67.5° | 77.7   | 82.2   | 84.7   | 89.7   | 117.1  | 213.3  | 665.8  | 2001.6 | 2528.3 | 2923.3 | 3494.6 |
| 70°   | 74.4   | 78.2   | 81.0   | 85.7   | 115.6  | 210.1  | 553.7  | 1578.5 | 2006.1 | 2395.9 | 3069.2 |
| 72.5° | 70.2   | 73.4   | 76.0   | 80.5   | 114.1  | 208.3  | 467.7  | 1271.1 | 1497.7 | 1779.8 | 2495.4 |
| 75°   | 65.2   | 68.2   | 69.9   | 74.4   | 109.3  | 190.8  | 367.7  | 1075.6 | 1120.7 | 1238.1 | 1987.6 |
| 77.5° | 59.4   | 61.7   | 63.2   | 68.2   | 96.8   | 158.7  | 266.0  | 829.7  | 870.3  | 898.9  | 1523.8 |
| 80°   | 52.6   | 54.9   | 55.6   | 60.4   | 80.2   | 124.1  | 173.5  | 612.9  | 651.0  | 657.5  | 995.2  |
| 82.5° | 44.9   | 47.1   | 47.1   | 51.6   | 65.7   | 89.2   | 113.8  | 419.9  | 427.4  | 449.5  | 703.4  |
| 85°   | 36.1   | 37.9   | 37.9   | 40.1   | 50.9   | 66.7   | 78.2   | 210.8  | 208.6  | 238.1  | 609.4  |
| 87.5° | 25.8   | 27.1   | 28.3   | 28.8   | 36.3   | 44.1   | 47.1   | 64.2   | 42.4   | 48.6   | 391.3  |
| 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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|       | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 | 1540.6 |
| 2.5°  | 1769.7 | 1784.0 | 1769.5 | 1758.9 | 1713.6 | 1676.2 | 1626.3 | 1600.8 |
| 5°    | 1902.3 | 1938.7 | 1926.4 | 1882.3 | 1787.5 | 1681.0 | 1559.9 | 1505.3 |
| 7.5°  | 1886.3 | 1970.8 | 1972.8 | 1890.3 | 1750.7 | 1593.8 | 1429.8 | 1352.1 |
| 10°   | 1761.5 | 1869.5 | 1900.3 | 1820.4 | 1672.2 | 1496.7 | 1308.7 | 1220.0 |
| 12.5° | 1622.1 | 1727.9 | 1751.4 | 1723.9 | 1600.0 | 1423.8 | 1233.0 | 1146.1 |
| 15°   | 1508.0 | 1555.4 | 1583.5 | 1607.5 | 1538.1 | 1394.7 | 1228.8 | 1133.3 |
| 17.5° | 1438.6 | 1433.3 | 1441.3 | 1483.2 | 1495.0 | 1428.1 | 1294.0 | 1188.7 |
| 20°   | 1413.5 | 1333.1 | 1331.1 | 1388.7 | 1474.7 | 1507.5 | 1421.3 | 1295.0 |
| 22.5° | 1427.3 | 1297.0 | 1280.4 | 1348.9 | 1485.5 | 1622.1 | 1588.2 | 1444.1 |
| 25°   | 1474.9 | 1300.0 | 1286.7 | 1352.9 | 1524.6 | 1744.2 | 1768.5 | 1637.1 |
| 27.5° | 1549.9 | 1319.0 | 1301.5 | 1369.4 | 1576.5 | 1846.7 | 1945.9 | 1824.1 |
| 30°   | 1621.1 | 1352.1 | 1330.3 | 1402.0 | 1623.8 | 1887.3 | 2054.7 | 1970.0 |
| 32.5° | 1707.6 | 1414.0 | 1375.7 | 1461.9 | 1682.5 | 1952.0 | 2151.7 | 2090.8 |
| 35°   | 1792.3 | 1502.3 | 1454.6 | 1554.4 | 1747.9 | 2032.4 | 2262.5 | 2245.2 |
| 37.5° | 1885.3 | 1617.6 | 1578.2 | 1674.0 | 1837.4 | 2108.4 | 2403.9 | 2426.2 |
| 40°   | 1984.5 | 1770.5 | 1723.9 | 1848.4 | 1976.3 | 2203.6 | 2551.6 | 2605.2 |
| 42.5° | 2084.6 | 1940.2 | 1884.5 | 2010.9 | 2128.9 | 2297.6 | 2677.9 | 2757.4 |
| 45°   | 2199.1 | 2124.4 | 2098.1 | 2234.7 | 2275.6 | 2387.1 | 2771.1 | 2869.9 |
| 47.5° | 2332.5 | 2333.5 | 2375.8 | 2430.5 | 2423.5 | 2488.4 | 2864.9 | 2970.4 |
| 50°   | 2488.1 | 2594.4 | 2687.9 | 2724.3 | 2575.9 | 2597.2 | 2995.0 | 3105.0 |
| 52.5° | 2675.1 | 2906.5 | 3022.3 | 2998.5 | 2740.1 | 2730.0 | 3201.0 | 3290.5 |
| 55°   | 2909.0 | 3236.9 | 3352.0 | 3334.9 | 2928.8 | 2911.0 | 3457.7 | 3509.9 |
| 57.5° | 3179.7 | 3557.0 | 3662.8 | 3586.1 | 3155.4 | 3109.6 | 3670.0 | 3681.1 |
| 60°   | 3417.6 | 3810.7 | 3903.4 | 3818.4 | 3384.0 | 3320.9 | 3802.7 | 3749.3 |
| 62.5° | 3550.0 | 3896.7 | 3961.8 | 3870.3 | 3540.7 | 3546.0 | 3831.7 | 3712.4 |
| 65°   | 3490.8 | 3679.3 | 3700.4 | 3692.9 | 3500.3 | 3676.6 | 3727.2 | 3542.2 |
| 67.5° | 3167.0 | 3129.9 | 3165.2 | 3214.1 | 3154.4 | 3504.6 | 3437.7 | 3171.5 |
| 70°   | 2596.4 | 2392.6 | 2463.1 | 2495.9 | 2523.0 | 3015.8 | 2983.7 | 2583.1 |
| 72.5° | 1956.7 | 1676.2 | 1731.9 | 1725.1 | 1850.4 | 2419.0 | 2320.4 | 1899.3 |
| 75°   | 1386.5 | 1136.5 | 1143.6 | 1140.8 | 1291.2 | 1892.6 | 1680.2 | 1299.5 |
| 77.5° | 970.1  | 823.4  | 827.2  | 842.8  | 868.1  | 1427.3 | 1200.5 | 949.3  |
| 80°   | 667.0  | 624.9  | 645.7  | 647.0  | 601.6  | 958.8  | 886.9  | 761.8  |
| 82.5° | 496.8  | 434.4  | 429.4  | 436.7  | 471.5  | 776.8  | 681.6  | 528.4  |
| 85°   | 406.8  | 257.2  | 206.8  | 259.2  | 417.9  | 769.3  | 452.7  | 278.7  |
| 87.5° | 229.1  | 122.1  | 55.1   | 102.3  | 166.7  | 509.4  | 130.8  | 35.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)