

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: P451509

Luminaire Tested: **GLAN-SA2B-827-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA2B-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6041 lumens  
Efficiency: N/A  
Efficacy: 73.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82  
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



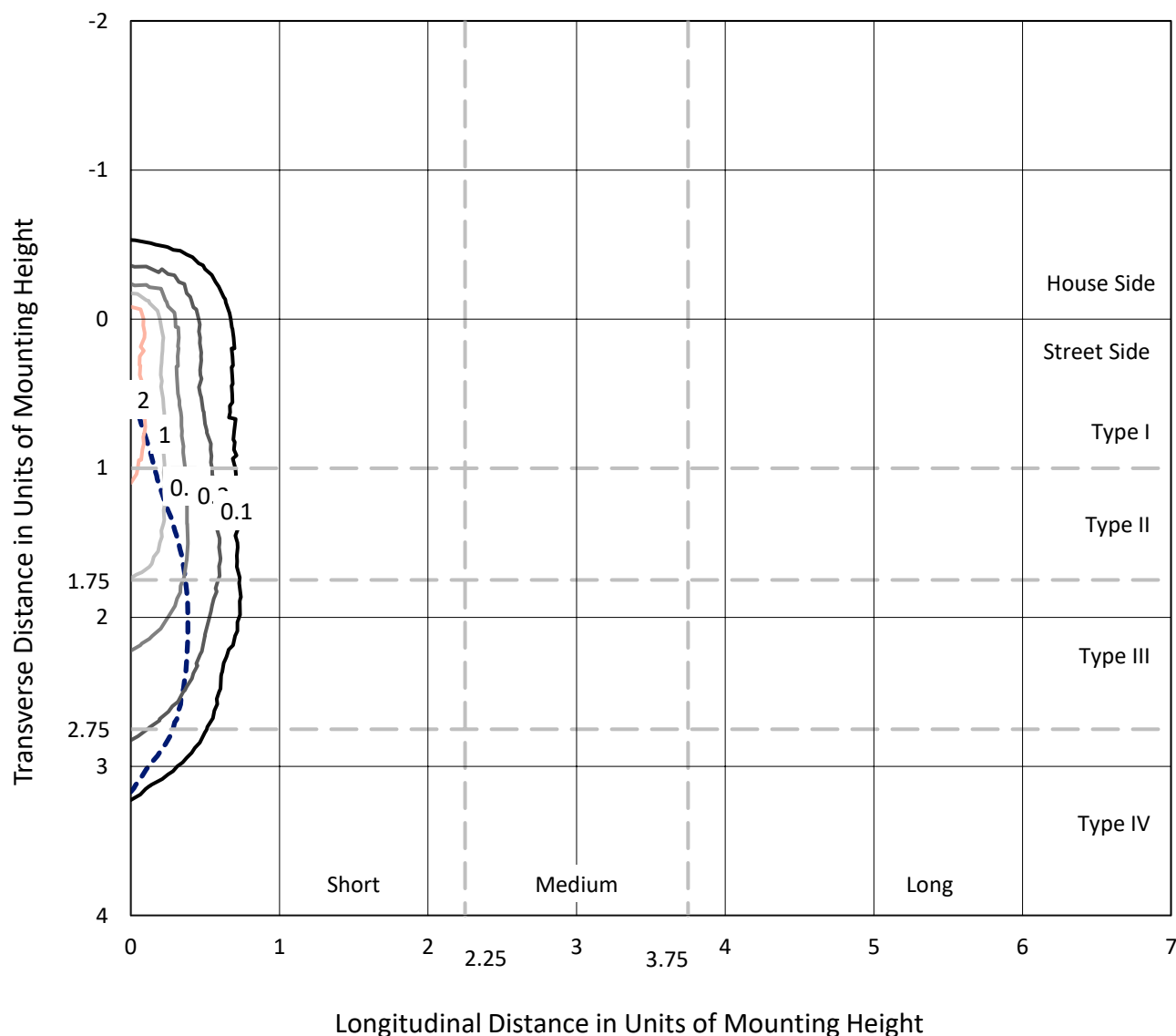
REPORT NUMBER: P451509

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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

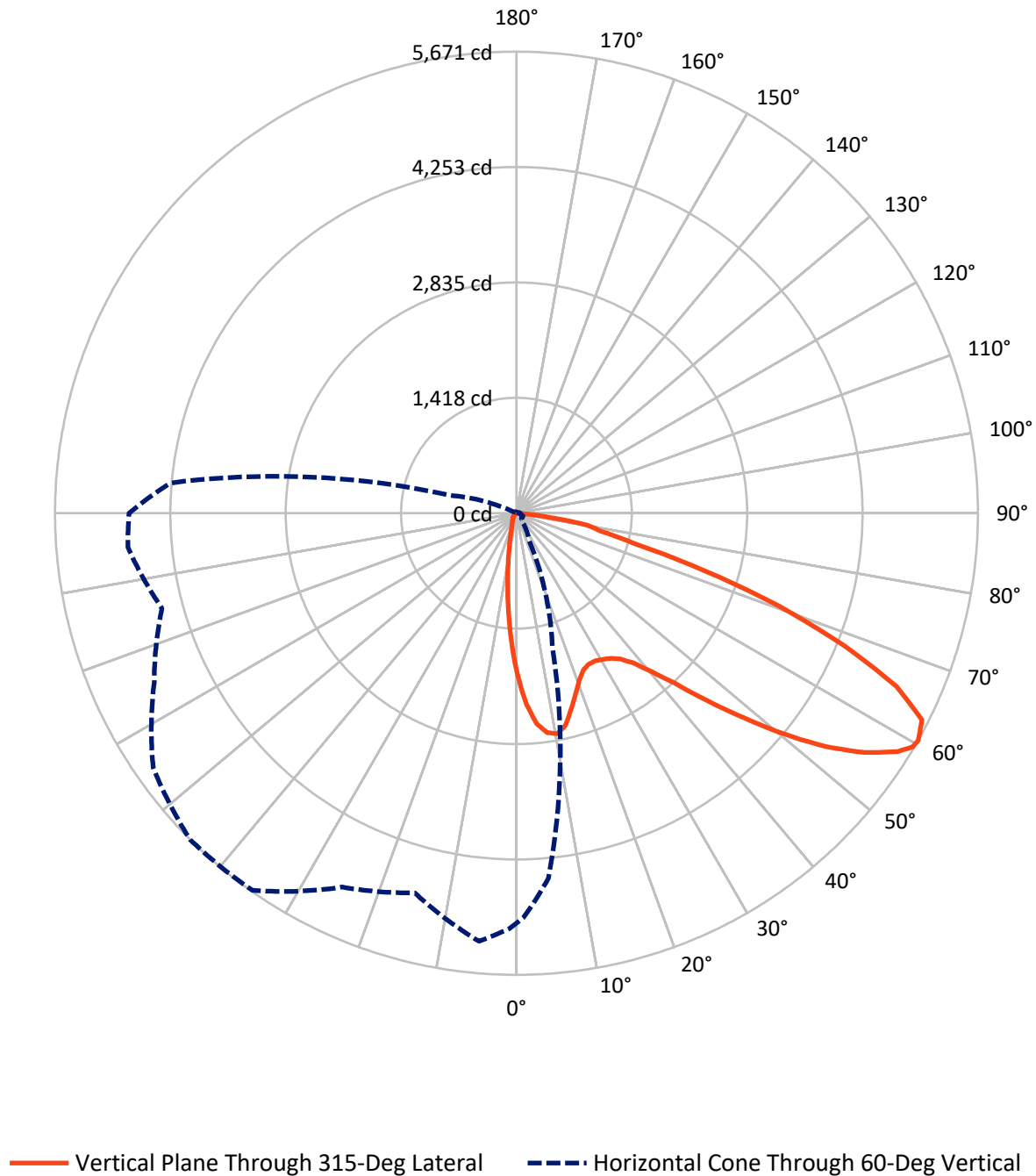


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

Type IV - 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    | 745.1    | 0.0    | 745.1  |
|                    | % Fixture | 12.3     | 0.0    | 12.3   |
| <b>Street Side</b> | Lumens    | 5295.9   | 0.0    | 5295.9 |
|                    | % Fixture | 87.7     | 0.0    | 87.7   |
| <b>Total</b>       | Lumens    | 6041.0   | 0.0    | 6041.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 148.5  | 2.5       |
| 10°-20°   | 294.9  | 4.9       |
| 20°-30°   | 432.4  | 7.2       |
| 30°-40°   | 643.1  | 10.6      |
| 40°-50°   | 935.9  | 15.5      |
| 50°-60°   | 1349.7 | 22.3      |
| 60°-70°   | 1484.5 | 24.6      |
| 70°-80°   | 664.9  | 11.0      |
| 80°-90°   | 86.9   | 1.4       |
| 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°    | 6041.0 | 100.0     |
| 0°-180°   | 6041.0 | 100.0     |

**Coefficient of Utilization**



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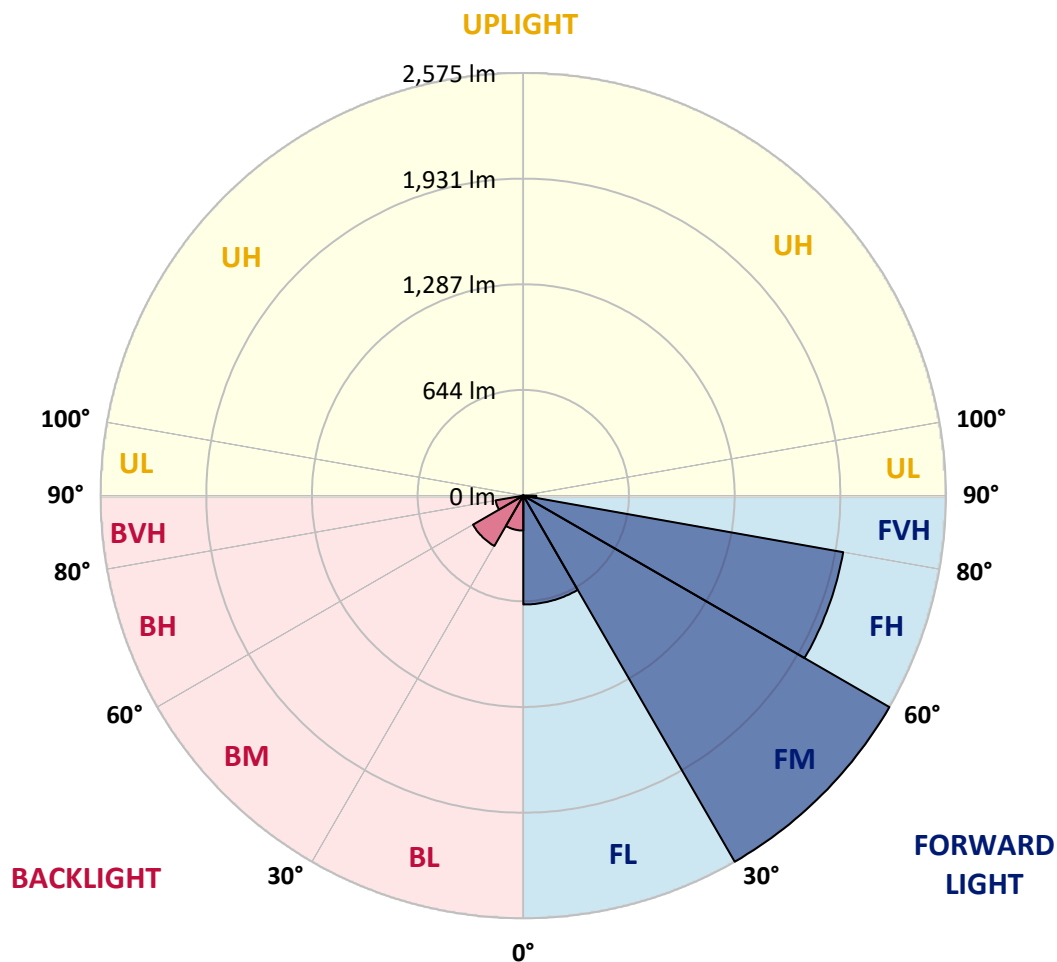
CATALOG NUMBER: GLAN-SA2B-827-U-SLR-HSS

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 663.0  | 11.0      |                         |      |         |
| FM   | (30°-60°)   | 2574.9 | 42.6      |                         |      |         |
| FH   | (60°-80°)   | 1978.6 | 32.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 79.5   | 1.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 212.9  | 3.5       | B1/500                  |      |         |
| BM   | (30°-60°)   | 353.9  | 5.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 170.9  | 2.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 7.4    | 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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 1°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 |
| 2.5°  | 2195.0 | 2185.4 | 2163.3 | 2096.3 | 2038.0 | 1961.7 | 1884.6 | 1824.0 | 1786.8 | 1718.4 | 1687.1 |
| 5°    | 2126.6 | 2131.2 | 2067.4 | 1929.6 | 1776.2 | 1671.5 | 1557.2 | 1466.3 | 1366.1 | 1302.8 | 1236.2 |
| 7.5°  | 1948.0 | 1938.8 | 1869.4 | 1677.5 | 1491.0 | 1339.5 | 1194.9 | 1077.3 | 1003.4 | 944.1  | 894.5  |
| 10°   | 1795.0 | 1788.2 | 1699.5 | 1452.5 | 1252.3 | 1138.8 | 1041.0 | 938.2  | 858.7  | 771.9  | 702.6  |
| 12.5° | 1699.1 | 1683.5 | 1581.5 | 1323.4 | 1160.4 | 1054.8 | 948.3  | 841.3  | 731.5  | 643.8  | 559.8  |
| 15°   | 1666.9 | 1644.4 | 1531.0 | 1278.9 | 1101.6 | 967.6  | 833.9  | 710.9  | 584.6  | 487.7  | 424.3  |
| 17.5° | 1725.2 | 1688.0 | 1567.3 | 1271.1 | 1031.4 | 853.7  | 689.3  | 529.0  | 397.7  | 323.7  | 284.7  |
| 20°   | 1858.9 | 1816.2 | 1659.1 | 1263.3 | 953.3  | 726.0  | 524.0  | 373.8  | 275.1  | 234.7  | 213.1  |
| 22.5° | 2057.3 | 1998.5 | 1795.0 | 1275.7 | 881.2  | 601.6  | 378.4  | 264.0  | 218.6  | 193.3  | 178.2  |
| 25°   | 2295.6 | 2246.4 | 1967.2 | 1319.8 | 824.3  | 503.8  | 292.5  | 215.8  | 184.1  | 168.5  | 157.0  |
| 27.5° | 2556.9 | 2478.3 | 2190.0 | 1372.6 | 772.4  | 428.0  | 256.7  | 192.9  | 163.9  | 149.7  | 143.7  |
| 30°   | 2742.9 | 2681.8 | 2376.4 | 1409.3 | 707.6  | 371.0  | 234.7  | 190.1  | 164.4  | 147.4  | 136.4  |
| 32.5° | 2926.5 | 2848.5 | 2532.5 | 1426.3 | 660.3  | 331.5  | 203.0  | 165.8  | 144.2  | 135.5  | 124.4  |
| 35°   | 3123.1 | 3041.3 | 2688.2 | 1417.1 | 625.0  | 305.4  | 184.1  | 147.9  | 123.5  | 108.8  | 97.8   |
| 37.5° | 3321.9 | 3235.6 | 2843.0 | 1384.1 | 602.9  | 294.8  | 169.4  | 140.5  | 116.6  | 101.5  | 89.5   |
| 40°   | 3557.9 | 3442.7 | 2988.1 | 1357.0 | 580.0  | 289.3  | 159.8  | 135.9  | 111.6  | 95.5   | 83.6   |
| 42.5° | 3750.8 | 3641.1 | 3125.4 | 1342.7 | 564.4  | 276.4  | 159.8  | 132.3  | 108.4  | 90.5   | 78.1   |
| 45°   | 3933.6 | 3819.7 | 3273.7 | 1354.2 | 557.9  | 260.4  | 161.6  | 131.8  | 106.1  | 86.8   | 74.4   |
| 47.5° | 4086.5 | 3987.8 | 3426.2 | 1397.4 | 549.7  | 242.9  | 152.0  | 138.2  | 104.7  | 83.6   | 70.7   |
| 50°   | 4267.0 | 4171.4 | 3627.7 | 1484.6 | 535.0  | 225.5  | 140.1  | 148.8  | 104.2  | 80.8   | 67.5   |
| 52.5° | 4521.4 | 4418.0 | 3906.0 | 1583.8 | 511.6  | 198.8  | 129.0  | 147.4  | 102.4  | 76.2   | 64.3   |
| 55°   | 4832.2 | 4748.7 | 4228.4 | 1702.7 | 479.4  | 169.0  | 111.6  | 130.9  | 96.9   | 68.4   | 58.8   |
| 57.5° | 5031.5 | 4960.4 | 4469.9 | 1754.2 | 430.3  | 138.2  | 98.3   | 109.8  | 88.6   | 61.1   | 52.3   |
| 59°   | 5055.0 | 4990.7 | 4520.4 | 1737.2 | 398.1  | 126.3  | 91.8   | 94.1   | 86.3   | 56.9   | 48.7   |
| 60°   | 5035.2 | 4968.6 | 4500.2 | 1704.1 | 368.3  | 118.0  | 86.3   | 83.6   | 86.8   | 54.6   | 45.9   |
| 62.5° | 4908.5 | 4794.6 | 4304.2 | 1536.5 | 321.9  | 108.4  | 76.7   | 68.4   | 76.7   | 49.1   | 40.9   |
| 65°   | 4663.7 | 4492.9 | 3916.1 | 1300.5 | 303.5  | 102.9  | 65.2   | 57.4   | 58.3   | 43.2   | 35.4   |
| 67.5° | 4236.2 | 4020.8 | 3399.5 | 1056.6 | 295.7  | 103.3  | 55.1   | 51.4   | 45.0   | 36.7   | 31.2   |
| 70°   | 3560.2 | 3345.3 | 2727.7 | 869.3  | 292.1  | 103.3  | 46.8   | 44.1   | 37.7   | 30.8   | 27.1   |
| 72.5° | 2522.9 | 2291.4 | 1840.0 | 682.8  | 263.1  | 102.9  | 40.0   | 40.0   | 30.8   | 25.7   | 22.0   |
| 75°   | 1425.4 | 1427.2 | 1156.7 | 483.1  | 218.6  | 85.0   | 32.1   | 31.7   | 22.5   | 19.7   | 16.5   |
| 77.5° | 830.7  | 816.0  | 779.7  | 207.6  | 101.5  | 38.6   | 22.5   | 19.3   | 15.6   | 14.2   | 11.9   |
| 80°   | 427.1  | 351.3  | 342.1  | 75.3   | 36.3   | 24.3   | 15.6   | 11.0   | 10.1   | 9.2    | 8.3    |
| 82.5° | 126.3  | 126.7  | 113.0  | 30.3   | 20.2   | 16.1   | 7.8    | 6.0    | 5.5    | 5.1    | 5.1    |
| 85°   | 8.7    | 5.5    | 6.4    | 9.2    | 12.4   | 6.4    | 0.5    | 1.4    | 1.4    | 1.8    | 2.3    |
| 87.5° | 0.9    | 0.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 |
| 2.5°  | 1652.7 | 1672.9 | 1635.2 | 1636.2 | 1604.9 | 1615.0 | 1578.3 | 1590.2 | 1568.7 | 1585.2 | 1633.9 |
| 5°    | 1243.5 | 1248.1 | 1217.8 | 1208.2 | 1212.8 | 1231.6 | 1238.9 | 1205.4 | 1219.7 | 1191.6 | 1189.8 |
| 7.5°  | 876.2  | 881.7  | 864.2  | 861.9  | 895.0  | 887.2  | 901.4  | 867.0  | 834.4  | 848.6  | 822.4  |
| 10°   | 680.5  | 657.6  | 621.8  | 611.7  | 605.2  | 609.4  | 609.4  | 578.1  | 573.6  | 561.2  | 580.0  |
| 12.5° | 537.3  | 509.3  | 475.3  | 429.4  | 417.9  | 417.0  | 400.0  | 372.4  | 363.7  | 353.1  | 368.7  |
| 15°   | 390.3  | 378.8  | 350.4  | 324.7  | 298.5  | 293.4  | 265.9  | 243.4  | 213.5  | 209.4  | 208.0  |
| 17.5° | 274.6  | 257.6  | 257.2  | 242.5  | 227.3  | 217.2  | 191.5  | 165.8  | 154.3  | 152.9  | 152.9  |
| 20°   | 205.7  | 199.8  | 190.1  | 188.3  | 183.7  | 172.2  | 149.2  | 135.5  | 130.0  | 130.4  | 132.3  |
| 22.5° | 173.1  | 169.0  | 160.3  | 156.1  | 154.3  | 144.2  | 127.2  | 118.0  | 115.3  | 115.3  | 115.7  |
| 25°   | 154.8  | 151.1  | 141.4  | 135.0  | 132.7  | 125.4  | 112.0  | 105.2  | 102.9  | 102.9  | 102.9  |
| 27.5° | 141.0  | 136.4  | 126.3  | 120.8  | 116.6  | 108.4  | 100.1  | 93.2   | 90.9   | 90.9   | 91.4   |
| 30°   | 131.3  | 126.3  | 117.1  | 109.8  | 103.3  | 96.0   | 89.1   | 83.1   | 80.4   | 79.9   | 80.4   |
| 32.5° | 118.5  | 113.9  | 104.7  | 100.1  | 92.8   | 84.0   | 78.5   | 73.0   | 70.3   | 70.7   | 70.3   |
| 35°   | 92.3   | 90.9   | 84.5   | 85.9   | 81.7   | 74.4   | 69.3   | 63.4   | 60.2   | 59.7   | 60.6   |
| 37.5° | 84.0   | 78.5   | 71.2   | 71.6   | 70.3   | 67.5   | 59.2   | 52.8   | 50.5   | 50.5   | 51.0   |
| 40°   | 77.6   | 72.1   | 63.8   | 59.7   | 60.2   | 60.2   | 51.4   | 44.5   | 42.2   | 41.8   | 42.7   |
| 42.5° | 72.1   | 66.6   | 57.4   | 50.5   | 48.7   | 51.0   | 43.6   | 36.7   | 34.4   | 33.5   | 34.4   |
| 45°   | 68.4   | 62.5   | 51.9   | 44.1   | 38.6   | 41.3   | 35.8   | 30.3   | 27.6   | 27.6   | 27.1   |
| 47.5° | 64.7   | 59.2   | 47.8   | 38.1   | 32.1   | 30.8   | 29.4   | 24.3   | 21.6   | 21.1   | 21.6   |
| 50°   | 61.5   | 56.0   | 43.2   | 33.1   | 27.1   | 23.9   | 23.9   | 19.3   | 17.4   | 16.5   | 17.0   |
| 52.5° | 58.3   | 52.3   | 39.0   | 29.4   | 23.4   | 19.3   | 17.0   | 15.6   | 14.2   | 13.8   | 14.2   |
| 55°   | 53.7   | 47.8   | 34.9   | 25.3   | 20.2   | 16.1   | 13.3   | 12.9   | 11.9   | 11.0   | 11.9   |
| 57.5° | 48.2   | 42.7   | 30.8   | 21.6   | 16.1   | 12.4   | 11.0   | 10.6   | 9.6    | 9.2    | 9.2    |
| 59°   | 45.0   | 40.0   | 28.5   | 18.8   | 14.2   | 11.0   | 10.1   | 9.6    | 8.7    | 7.8    | 8.3    |
| 60°   | 43.2   | 39.0   | 27.1   | 17.4   | 12.9   | 10.1   | 9.2    | 8.7    | 7.8    | 7.3    | 7.8    |
| 62.5° | 38.1   | 34.9   | 23.9   | 14.2   | 10.1   | 7.3    | 6.4    | 6.9    | 6.4    | 6.0    | 6.4    |
| 65°   | 33.5   | 30.8   | 20.2   | 11.0   | 7.8    | 5.1    | 4.6    | 6.0    | 5.5    | 5.1    | 5.5    |
| 67.5° | 29.8   | 26.6   | 17.0   | 8.3    | 5.5    | 2.8    | 3.2    | 5.1    | 5.1    | 4.6    | 5.1    |
| 70°   | 25.7   | 23.0   | 13.8   | 6.0    | 2.8    | 1.4    | 2.3    | 3.7    | 4.6    | 4.1    | 4.6    |
| 72.5° | 21.1   | 17.9   | 10.6   | 4.1    | 1.4    | 0.0    | 1.4    | 3.2    | 4.6    | 4.1    | 4.6    |
| 75°   | 16.5   | 13.3   | 7.8    | 2.3    | 0.0    | 0.0    | 0.5    | 2.8    | 4.6    | 4.1    | 4.6    |
| 77.5° | 11.9   | 9.6    | 4.6    | 0.5    | 0.0    | 0.0    | 0.5    | 2.8    | 4.6    | 4.1    | 4.6    |
| 80°   | 7.8    | 6.9    | 1.8    | 0.0    | 0.0    | 0.0    | 0.5    | 2.8    | 4.6    | 4.6    | 5.1    |
| 82.5° | 5.1    | 3.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 3.7    | 5.1    | 5.5    | 5.5    |
| 85°   | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.8    | 4.6    | 6.0    | 6.0    | 6.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.9    | 3.2    | 5.5    | 6.9    | 6.9    | 6.9    |
| 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):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°   | 270°   | 275°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 |
| 2.5°  | 1642.1 | 1671.1 | 1711.9 | 1774.8 | 1825.8 | 1906.2 | 1967.7 | 2051.7 | 2136.7 | 2162.4 | 2202.4 |
| 5°    | 1208.6 | 1245.8 | 1338.6 | 1423.1 | 1476.4 | 1646.3 | 1753.7 | 1923.2 | 2075.2 | 2148.2 | 2227.6 |
| 7.5°  | 839.4  | 883.5  | 954.2  | 1072.3 | 1184.3 | 1322.5 | 1496.1 | 1689.9 | 1912.6 | 2016.8 | 2128.9 |
| 10°   | 589.2  | 644.3  | 743.9  | 840.8  | 981.8  | 1113.1 | 1284.4 | 1498.4 | 1744.1 | 1867.1 | 2007.7 |
| 12.5° | 372.0  | 421.1  | 552.9  | 661.7  | 837.6  | 990.1  | 1148.0 | 1341.8 | 1626.5 | 1752.8 | 1900.2 |
| 15°   | 212.6  | 253.9  | 315.5  | 455.1  | 650.2  | 851.8  | 1048.8 | 1273.8 | 1566.4 | 1722.0 | 1881.4 |
| 17.5° | 158.4  | 169.4  | 197.0  | 276.0  | 453.7  | 689.3  | 957.4  | 1253.2 | 1607.2 | 1790.0 | 1971.8 |
| 20°   | 133.2  | 140.5  | 153.4  | 184.6  | 289.3  | 530.8  | 868.4  | 1256.9 | 1739.5 | 1969.1 | 2141.7 |
| 22.5° | 119.4  | 124.0  | 134.5  | 154.8  | 197.5  | 386.7  | 764.1  | 1278.4 | 1899.7 | 2189.0 | 2388.3 |
| 25°   | 104.7  | 110.7  | 119.9  | 137.3  | 164.4  | 268.2  | 661.3  | 1326.7 | 2124.3 | 2468.2 | 2655.6 |
| 27.5° | 93.2   | 98.7   | 107.9  | 124.0  | 144.2  | 204.8  | 541.4  | 1368.0 | 2361.2 | 2749.3 | 2902.7 |
| 30°   | 81.7   | 87.2   | 96.4   | 109.3  | 127.7  | 165.8  | 412.4  | 1392.3 | 2591.3 | 2960.1 | 3078.1 |
| 32.5° | 72.1   | 76.7   | 85.4   | 96.9   | 112.0  | 140.5  | 325.1  | 1367.1 | 2767.2 | 3151.5 | 3230.5 |
| 35°   | 62.5   | 68.0   | 75.3   | 85.9   | 99.2   | 119.9  | 270.5  | 1279.8 | 2918.3 | 3348.5 | 3377.0 |
| 37.5° | 52.3   | 58.8   | 66.6   | 76.2   | 86.8   | 110.2  | 217.2  | 1183.4 | 3079.9 | 3594.2 | 3547.4 |
| 40°   | 44.1   | 50.1   | 57.4   | 68.0   | 77.6   | 101.0  | 167.2  | 1080.5 | 3254.4 | 3824.7 | 3733.4 |
| 42.5° | 35.8   | 42.2   | 51.0   | 60.6   | 76.7   | 88.2   | 129.5  | 974.0  | 3411.0 | 4025.4 | 3901.4 |
| 45°   | 28.5   | 34.0   | 43.2   | 55.6   | 76.2   | 75.8   | 100.1  | 868.8  | 3529.0 | 4168.7 | 4026.8 |
| 47.5° | 22.5   | 27.1   | 36.3   | 54.2   | 70.3   | 64.3   | 80.4   | 803.6  | 3653.0 | 4297.7 | 4122.8 |
| 50°   | 17.9   | 22.5   | 31.2   | 56.5   | 61.5   | 55.1   | 67.5   | 814.2  | 3772.9 | 4363.4 | 4162.3 |
| 52.5° | 15.2   | 19.7   | 27.1   | 44.5   | 47.3   | 48.2   | 59.2   | 862.9  | 3927.6 | 4433.7 | 4240.8 |
| 55°   | 13.3   | 17.4   | 23.0   | 31.2   | 36.7   | 43.2   | 54.2   | 898.2  | 4134.7 | 4584.3 | 4413.9 |
| 57.5° | 10.6   | 15.2   | 20.7   | 26.6   | 30.3   | 37.7   | 50.1   | 901.0  | 4322.1 | 4777.6 | 4644.0 |
| 59°   | 9.6    | 13.8   | 19.3   | 25.3   | 27.1   | 34.0   | 47.3   | 877.5  | 4329.0 | 4806.5 | 4749.6 |
| 60°   | 8.7    | 13.3   | 18.4   | 23.4   | 25.7   | 32.1   | 45.0   | 850.5  | 4266.5 | 4760.6 | 4793.2 |
| 62.5° | 7.3    | 11.5   | 16.1   | 18.8   | 22.0   | 26.6   | 39.0   | 752.2  | 3963.9 | 4552.6 | 4712.4 |
| 65°   | 6.4    | 10.1   | 13.8   | 15.6   | 18.4   | 23.0   | 34.4   | 602.0  | 3629.6 | 4270.6 | 4481.0 |
| 67.5° | 6.0    | 9.2    | 11.9   | 13.3   | 16.1   | 21.1   | 30.8   | 425.2  | 3196.5 | 3912.9 | 4133.3 |
| 70°   | 5.5    | 8.7    | 10.6   | 12.4   | 14.2   | 17.9   | 26.2   | 248.0  | 2462.3 | 3285.6 | 3518.5 |
| 72.5° | 5.5    | 8.3    | 9.2    | 10.6   | 12.4   | 16.1   | 24.3   | 134.1  | 1683.5 | 2506.4 | 2807.1 |
| 75°   | 5.5    | 7.8    | 8.3    | 9.2    | 11.0   | 14.7   | 21.6   | 70.3   | 1088.3 | 1741.3 | 2149.1 |
| 77.5° | 5.5    | 7.3    | 8.3    | 8.7    | 10.6   | 12.9   | 18.8   | 44.1   | 725.1  | 1219.7 | 1452.5 |
| 80°   | 6.0    | 7.3    | 7.8    | 8.7    | 10.1   | 11.9   | 15.6   | 29.4   | 426.1  | 733.8  | 884.0  |
| 82.5° | 6.4    | 7.3    | 8.3    | 9.2    | 10.6   | 11.5   | 13.8   | 18.4   | 196.5  | 485.4  | 549.2  |
| 85°   | 6.9    | 7.8    | 8.7    | 9.6    | 11.0   | 11.5   | 12.9   | 13.3   | 32.1   | 219.0  | 296.2  |
| 87.5° | 7.3    | 8.3    | 9.2    | 10.1   | 11.9   | 11.9   | 11.9   | 11.9   | 11.0   | 23.4   | 59.7   |
| 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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|       | 285°   | 295°   | 305°   | 315°   | 325°   | 335°   | 345°   | 355°   | 359°   | 360°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 | 1996.6 |
| 2.5°  | 2252.9 | 2304.8 | 2341.0 | 2350.2 | 2324.1 | 2312.1 | 2279.0 | 2227.6 | 2196.4 | 2195.0 |
| 5°    | 2374.1 | 2495.8 | 2580.3 | 2594.5 | 2544.0 | 2458.6 | 2357.1 | 2226.2 | 2149.6 | 2126.6 |
| 7.5°  | 2353.4 | 2566.5 | 2702.4 | 2722.2 | 2637.2 | 2474.2 | 2277.7 | 2066.9 | 1983.3 | 1948.0 |
| 10°   | 2268.5 | 2528.4 | 2722.6 | 2753.9 | 2640.4 | 2410.8 | 2161.0 | 1925.9 | 1822.1 | 1795.0 |
| 12.5° | 2195.9 | 2458.6 | 2631.3 | 2674.4 | 2588.6 | 2359.4 | 2091.2 | 1835.5 | 1724.3 | 1699.1 |
| 15°   | 2164.2 | 2375.9 | 2481.6 | 2503.6 | 2489.4 | 2327.3 | 2083.9 | 1821.7 | 1694.5 | 1666.9 |
| 17.5° | 2195.9 | 2305.7 | 2319.0 | 2341.5 | 2373.2 | 2324.1 | 2154.6 | 1896.5 | 1759.2 | 1725.2 |
| 20°   | 2279.0 | 2244.6 | 2189.5 | 2199.1 | 2271.7 | 2337.4 | 2280.4 | 2062.3 | 1895.2 | 1858.9 |
| 22.5° | 2420.5 | 2229.5 | 2104.6 | 2096.3 | 2188.1 | 2381.9 | 2465.0 | 2286.9 | 2093.1 | 2057.3 |
| 25°   | 2594.1 | 2267.6 | 2073.3 | 2055.4 | 2155.5 | 2447.1 | 2665.7 | 2561.9 | 2350.2 | 2295.6 |
| 27.5° | 2783.3 | 2346.6 | 2073.3 | 2055.9 | 2152.8 | 2505.0 | 2837.4 | 2805.3 | 2616.6 | 2556.9 |
| 30°   | 2887.0 | 2411.8 | 2103.2 | 2083.4 | 2186.7 | 2538.5 | 2929.3 | 3021.6 | 2816.8 | 2742.9 |
| 32.5° | 2979.8 | 2502.2 | 2161.5 | 2124.3 | 2257.9 | 2588.1 | 3011.5 | 3205.3 | 2976.1 | 2926.5 |
| 35°   | 3065.2 | 2599.1 | 2241.9 | 2198.7 | 2351.6 | 2656.1 | 3102.4 | 3398.1 | 3197.9 | 3123.1 |
| 37.5° | 3159.4 | 2711.6 | 2367.2 | 2330.5 | 2508.2 | 2788.3 | 3210.3 | 3651.6 | 3416.0 | 3321.9 |
| 40°   | 3261.8 | 2842.0 | 2573.4 | 2557.8 | 2757.1 | 2938.0 | 3346.7 | 3922.1 | 3664.9 | 3557.9 |
| 42.5° | 3366.0 | 2992.2 | 2826.0 | 2851.7 | 3039.0 | 3147.9 | 3486.8 | 4130.1 | 3868.8 | 3750.8 |
| 45°   | 3460.6 | 3184.1 | 3154.3 | 3281.5 | 3367.8 | 3352.7 | 3590.5 | 4276.6 | 4046.5 | 3933.6 |
| 47.5° | 3580.0 | 3463.8 | 3551.5 | 3747.6 | 3749.9 | 3575.4 | 3669.1 | 4396.5 | 4199.5 | 4086.5 |
| 50°   | 3713.6 | 3794.0 | 4064.5 | 4264.2 | 4210.5 | 3794.4 | 3760.9 | 4538.4 | 4357.4 | 4267.0 |
| 52.5° | 3868.4 | 4163.6 | 4538.4 | 4760.2 | 4634.8 | 4033.2 | 3913.8 | 4691.7 | 4608.2 | 4521.4 |
| 55°   | 4048.4 | 4415.7 | 5010.9 | 5187.7 | 5061.4 | 4329.9 | 4146.2 | 4899.8 | 4891.5 | 4832.2 |
| 57.5° | 4251.8 | 4682.1 | 5284.6 | 5523.8 | 5411.3 | 4678.0 | 4470.9 | 5095.8 | 5064.6 | 5031.5 |
| 59°   | 4412.5 | 4818.9 | 5405.3 | 5653.3 | 5585.3 | 4921.8 | 4689.0 | 5218.0 | 5104.6 | 5055.0 |
| 60°   | 4509.9 | 4911.7 | 5449.9 | 5670.8 | 5655.1 | 5066.9 | 4827.2 | 5277.7 | 5104.1 | 5035.2 |
| 62.5° | 4798.7 | 5073.8 | 5432.9 | 5593.2 | 5654.2 | 5345.2 | 5232.7 | 5343.3 | 5009.5 | 4908.5 |
| 65°   | 4901.6 | 5020.1 | 5151.4 | 5131.7 | 5184.0 | 5330.9 | 5491.7 | 5271.2 | 4807.4 | 4663.7 |
| 67.5° | 4701.4 | 4430.9 | 4477.3 | 4345.5 | 4319.8 | 4739.5 | 5386.5 | 4918.6 | 4412.1 | 4236.2 |
| 70°   | 3963.0 | 3394.5 | 3371.0 | 3431.7 | 3265.4 | 3837.1 | 4836.8 | 4239.4 | 3759.5 | 3560.2 |
| 72.5° | 3119.4 | 2398.9 | 2201.4 | 2424.6 | 2419.6 | 2927.5 | 4018.1 | 3008.3 | 2539.9 | 2522.9 |
| 75°   | 2453.1 | 1670.1 | 1465.8 | 1502.1 | 1571.9 | 2119.2 | 3200.2 | 1910.3 | 1564.1 | 1425.4 |
| 77.5° | 1646.7 | 1183.4 | 1103.9 | 1059.4 | 1134.7 | 1360.6 | 2024.6 | 1036.0 | 877.1  | 830.7  |
| 80°   | 949.2  | 859.6  | 976.3  | 886.3  | 926.7  | 857.3  | 1007.0 | 475.3  | 394.5  | 427.1  |
| 82.5° | 617.6  | 489.5  | 521.7  | 387.6  | 529.9  | 534.5  | 323.3  | 140.5  | 118.9  | 126.3  |
| 85°   | 386.2  | 229.6  | 129.0  | 91.8   | 182.8  | 336.1  | 101.0  | 8.7    | 10.1   | 8.7    |
| 87.5° | 100.1  | 38.1   | 16.1   | 23.9   | 29.4   | 26.2   | 23.4   | 1.4    | 0.5    | 0.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)