

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: P456983

Luminaire Tested: **GLAN-SA8B-740-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45865 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

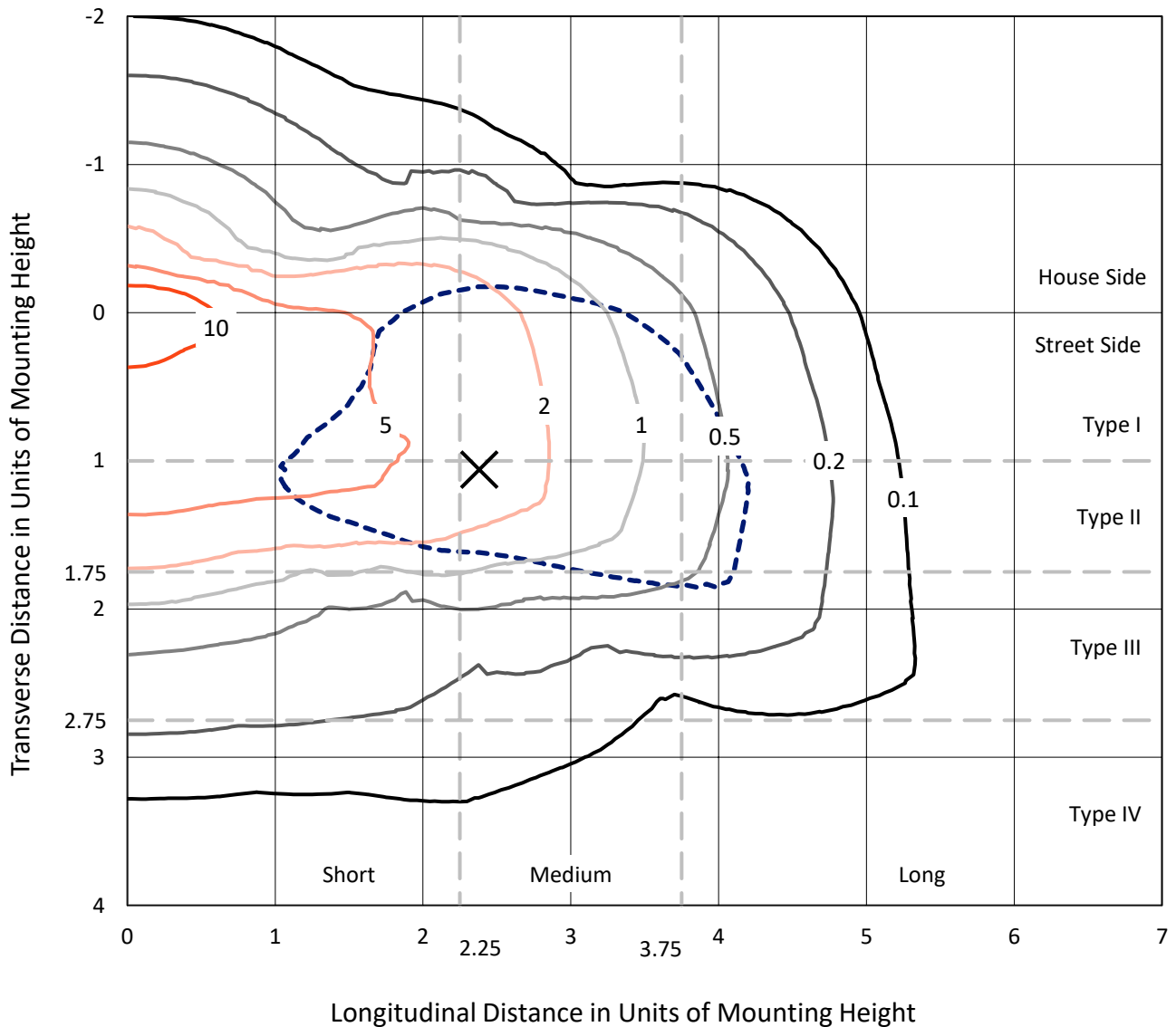
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

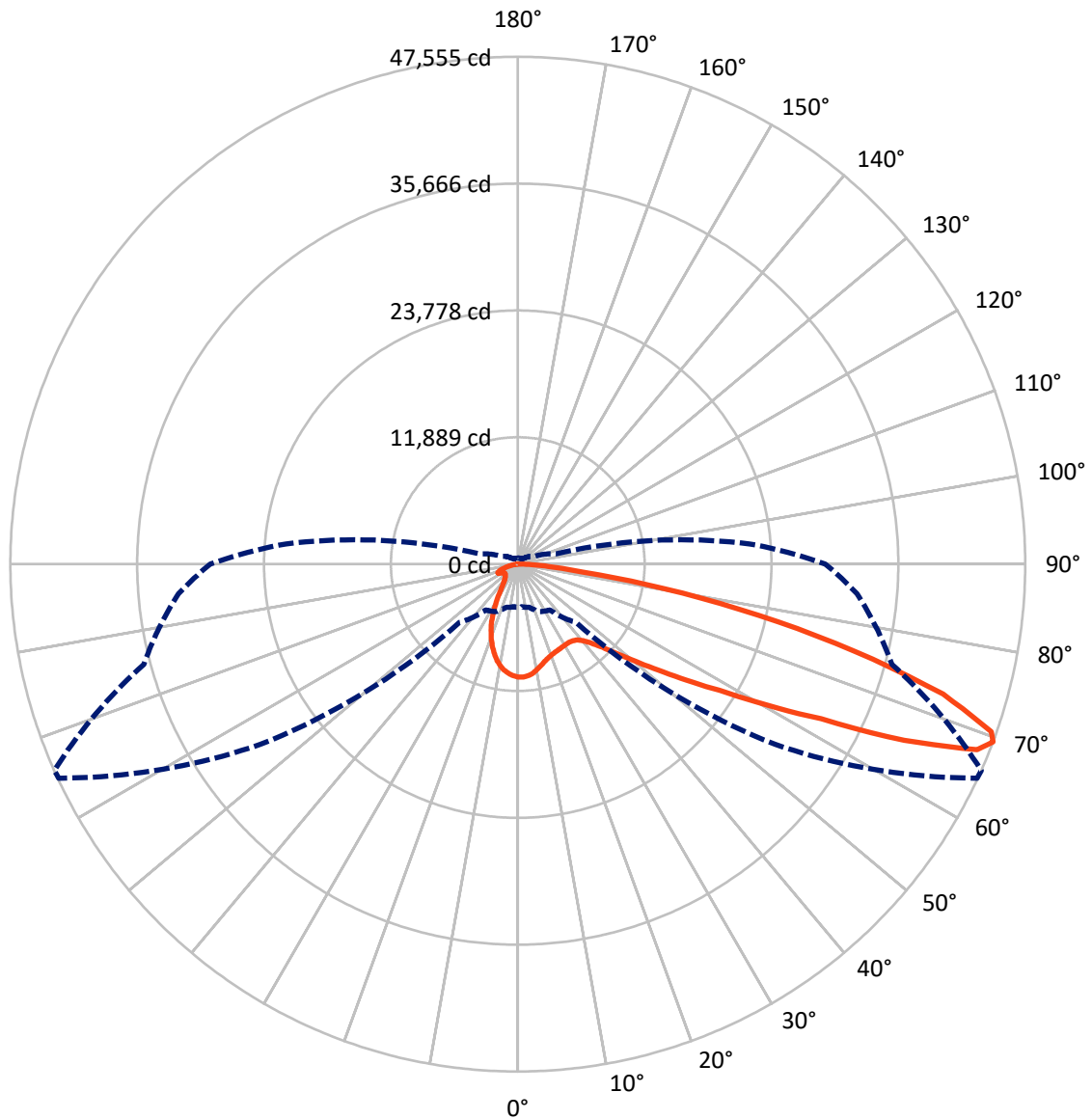
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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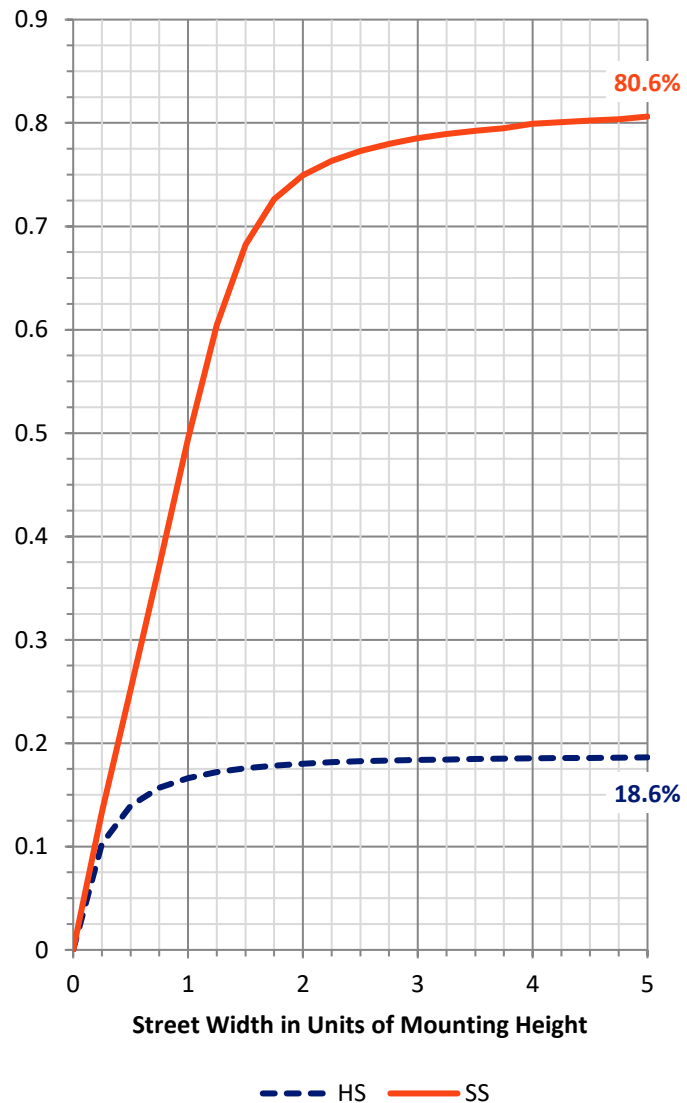
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8625.5   | 0.0    | 8625.5  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 37239.5  | 0.0    | 37239.5 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 45865.0  | 0.0    | 45865.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 919.8   | 2.0       |
| 10°-20°   | 2181.6  | 4.8       |
| 20°-30°   | 2969.9  | 6.5       |
| 30°-40°   | 3991.0  | 8.7       |
| 40°-50°   | 5959.2  | 13.0      |
| 50°-60°   | 9479.0  | 20.7      |
| 60°-70°   | 11658.7 | 25.4      |
| 70°-80°   | 7585.7  | 16.5      |
| 80°-90°   | 1120.2  | 2.4       |
| 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°    | 45865.0 | 100.0     |
| 0°-180°   | 45865.0 | 100.0     |



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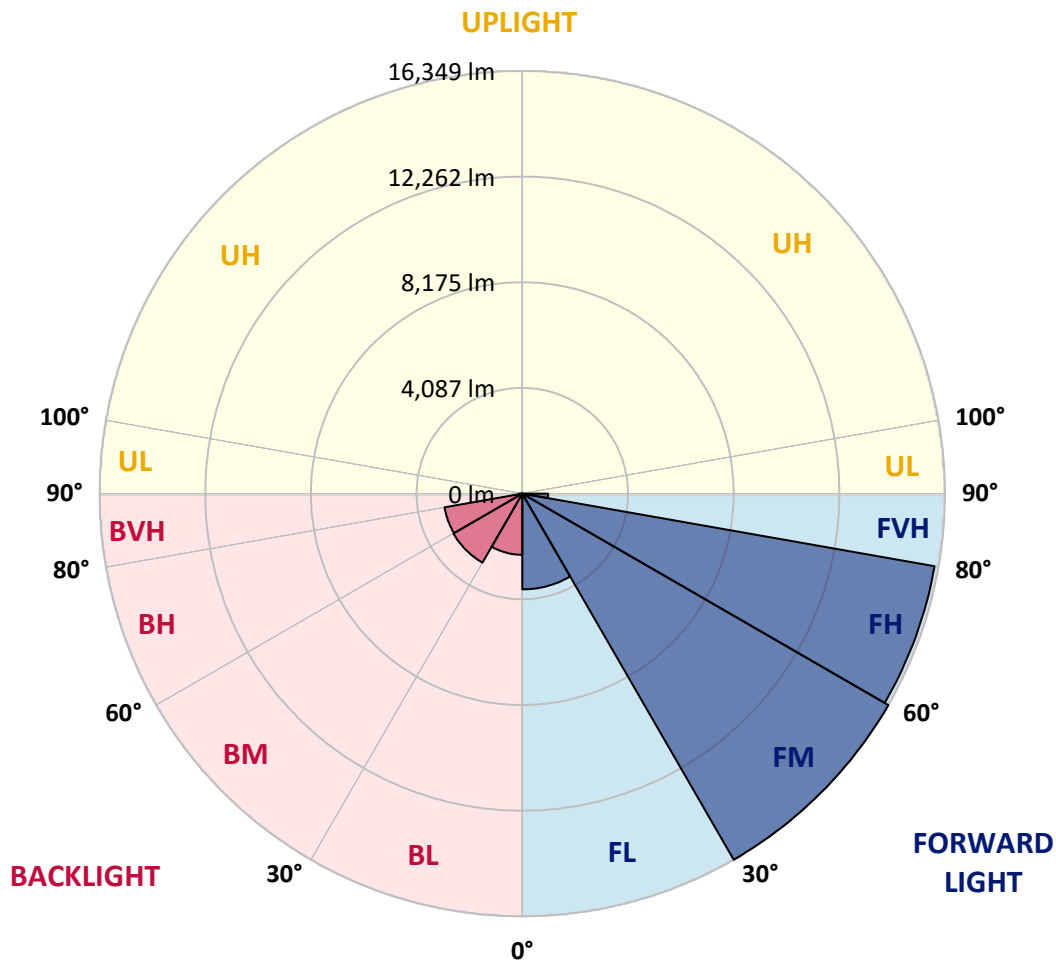
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3703.5  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 16349.5 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 16190.6 | 35.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 995.9   | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 2367.7  | 5.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3079.7  | 6.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3053.8  | 6.7       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 124.3   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 |
| 2.5°  | 10220.7 | 10261.3 | 10307.0 | 10357.8 | 10454.3 | 10507.7 | 10545.8 | 10589.0 | 10594.0 | 10616.9 | 10599.1 |
| 5°    | 9466.3  | 9514.6  | 9583.2  | 9679.7  | 9824.4  | 10050.5 | 10284.2 | 10474.7 | 10497.5 | 10604.2 | 10634.7 |
| 7.5°  | 8836.4  | 8864.4  | 8920.2  | 9075.2  | 9280.9  | 9532.4  | 9872.7  | 10258.8 | 10314.7 | 10568.6 | 10657.5 |
| 10°   | 8323.3  | 8351.3  | 8417.3  | 8577.3  | 8780.5  | 9095.5  | 9468.9  | 9976.8  | 10022.6 | 10459.4 | 10662.6 |
| 12.5° | 7939.8  | 7965.2  | 8036.3  | 8193.8  | 8427.5  | 8722.1  | 9133.6  | 9672.0  | 9738.1  | 10314.7 | 10614.4 |
| 15°   | 7647.7  | 7696.0  | 7754.4  | 7883.9  | 8130.3  | 8414.8  | 8813.6  | 9392.7  | 9446.0  | 10162.3 | 10581.3 |
| 17.5° | 7523.3  | 7546.1  | 7586.8  | 7706.1  | 7886.5  | 8165.9  | 8567.2  | 9174.2  | 9237.7  | 10055.6 | 10573.7 |
| 20°   | 7528.3  | 7551.2  | 7558.8  | 7624.9  | 7754.4  | 7995.7  | 8391.9  | 9001.5  | 9077.7  | 9961.6  | 10586.4 |
| 22.5° | 7701.1  | 7703.6  | 7675.7  | 7652.8  | 7703.6  | 7904.3  | 8267.5  | 8872.0  | 8960.9  | 9921.0  | 10596.6 |
| 25°   | 7967.8  | 8013.5  | 7972.8  | 7866.2  | 7772.2  | 7868.7  | 8219.2  | 8800.9  | 8884.7  | 9862.5  | 10583.9 |
| 27.5° | 8399.5  | 8407.2  | 8374.1  | 8229.4  | 7985.5  | 7914.4  | 8198.9  | 8747.5  | 8818.6  | 9819.4  | 10520.4 |
| 30°   | 8978.6  | 8955.8  | 8925.3  | 8765.3  | 8381.8  | 8089.7  | 8242.1  | 8699.3  | 8772.9  | 9755.9  | 10444.2 |
| 32.5° | 9565.4  | 9636.5  | 9608.6  | 9420.6  | 8922.8  | 8430.0  | 8381.8  | 8694.2  | 8755.1  | 9707.6  | 10360.4 |
| 35°   | 10187.7 | 10220.7 | 10352.7 | 10256.2 | 9745.7  | 8981.2  | 8643.4  | 8772.9  | 8821.2  | 9710.1  | 10302.0 |
| 37.5° | 10675.3 | 10764.2 | 11074.1 | 11157.9 | 10677.9 | 9710.1  | 9067.5  | 8996.4  | 9016.7  | 9834.6  | 10324.8 |
| 40°   | 11264.6 | 11417.0 | 11815.7 | 12158.6 | 11843.7 | 10657.5 | 9788.9  | 9410.4  | 9435.8  | 10134.3 | 10474.7 |
| 42.5° | 12011.3 | 12118.0 | 12653.9 | 13118.7 | 13067.9 | 11909.7 | 10662.6 | 10088.6 | 10101.3 | 10731.2 | 10893.8 |
| 45°   | 12885.1 | 13037.5 | 13639.4 | 14337.9 | 14457.3 | 13327.0 | 11925.0 | 11114.7 | 11107.1 | 11658.3 | 11676.1 |
| 47.5° | 14002.6 | 14096.6 | 14693.5 | 15455.5 | 15938.1 | 15107.5 | 13456.5 | 12587.9 | 12506.6 | 13009.5 | 12864.7 |
| 50°   | 15031.3 | 15178.6 | 15630.7 | 16463.8 | 17665.2 | 17192.8 | 15470.7 | 14497.9 | 14307.4 | 14777.3 | 14533.5 |
| 52.5° | 15463.1 | 15618.0 | 15999.0 | 17032.8 | 19146.0 | 19890.2 | 18028.4 | 16776.2 | 16458.7 | 16819.4 | 16730.5 |
| 55°   | 14713.8 | 14914.5 | 15270.1 | 16527.3 | 19796.2 | 23001.6 | 21477.6 | 19410.1 | 19179.0 | 19024.1 | 19049.5 |
| 57.5° | 12699.6 | 12890.1 | 13370.2 | 14757.0 | 19019.0 | 25259.6 | 26402.6 | 22795.9 | 22300.6 | 21586.9 | 21708.8 |
| 60°   | 9667.0  | 9786.3  | 10035.3 | 11571.9 | 16715.3 | 25846.3 | 31995.5 | 27075.6 | 26760.7 | 24139.5 | 24225.8 |
| 62.5° | 6865.4  | 7000.0  | 7172.8  | 7939.8  | 12237.4 | 24192.8 | 36374.3 | 33052.1 | 31926.9 | 26783.5 | 26699.7 |
| 65°   | 5575.1  | 5483.7  | 5692.0  | 6050.1  | 7180.4  | 18749.8 | 37359.8 | 41347.5 | 39798.1 | 30265.8 | 29102.5 |
| 67.5° | 4584.6  | 4488.1  | 4693.8  | 5331.3  | 5460.8  | 10883.6 | 33809.0 | 46732.1 | 46422.3 | 34052.8 | 31543.4 |
| 69°   | 4058.8  | 4008.0  | 4188.3  | 4914.8  | 5242.4  | 7729.0  | 29453.0 | 47481.4 | 47555.1 | 36285.4 | 31919.3 |
| 70°   | 3657.5  | 3677.8  | 3853.1  | 4703.9  | 5143.4  | 6372.7  | 25173.2 | 46447.7 | 47072.5 | 37400.5 | 31512.9 |
| 72.5° | 2692.3  | 2735.5  | 2979.3  | 3896.3  | 5049.4  | 5407.5  | 14980.5 | 40570.3 | 41675.2 | 37466.5 | 28828.2 |
| 75°   | 1882.1  | 1861.8  | 2077.7  | 2933.6  | 4770.0  | 5359.2  | 8798.3  | 31375.7 | 32627.9 | 32384.1 | 24223.3 |
| 77.5° | 1231.9  | 1264.9  | 1437.6  | 2072.6  | 4013.1  | 5318.6  | 5735.2  | 22259.9 | 23072.7 | 21658.0 | 14327.7 |
| 80°   | 868.7   | 866.1   | 962.6   | 1414.7  | 2976.8  | 5110.3  | 4696.3  | 14030.6 | 13824.8 | 8511.3  | 4249.3  |
| 82.5° | 497.8   | 533.4   | 645.1   | 995.7   | 1991.3  | 4498.2  | 4320.4  | 6710.5  | 6126.3  | 2425.6  | 1435.1  |
| 85°   | 276.9   | 289.6   | 383.5   | 602.0   | 1163.3  | 3388.3  | 3771.8  | 3053.0  | 2880.3  | 1013.4  | 617.2   |
| 87.5° | 88.9    | 96.5    | 160.0   | 304.8   | 528.3   | 1600.2  | 2136.1  | 1409.7  | 1300.4  | 365.7   | 248.9   |
| 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°    | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 | 10591.5 |
| 2.5°  | 10606.7 | 10637.2 | 10555.9 | 10477.2 | 10406.1 | 10307.0 | 10218.1 | 10144.5 | 10093.7 | 10086.1 | 10060.7 |
| 5°    | 10642.3 | 10644.8 | 10489.9 | 10281.6 | 10078.4 | 9854.9  | 9623.8  | 9458.7  | 9303.8  | 9217.4  | 9174.2  |
| 7.5°  | 10667.7 | 10644.8 | 10365.4 | 10027.6 | 9636.5  | 9230.1  | 8823.7  | 8498.6  | 8247.1  | 8148.1  | 8186.2  |
| 10°   | 10657.5 | 10586.4 | 10177.5 | 9636.5  | 9067.5  | 8460.5  | 7876.3  | 7419.1  | 7000.0  | 6784.1  | 6789.2  |
| 12.5° | 10601.7 | 10484.8 | 9898.1  | 9197.1  | 8361.4  | 7548.7  | 6654.6  | 6037.4  | 5552.3  | 5265.3  | 5176.4  |
| 15°   | 10553.4 | 10350.2 | 9570.5  | 8600.2  | 7561.4  | 6400.6  | 5311.0  | 4549.0  | 4142.6  | 3916.6  | 3914.0  |
| 17.5° | 10502.6 | 10220.7 | 9212.3  | 7967.8  | 6641.9  | 5148.4  | 4005.5  | 3423.8  | 3233.3  | 3256.2  | 3218.1  |
| 20°   | 10449.3 | 10068.3 | 8839.0  | 7264.2  | 5521.8  | 3840.4  | 2999.7  | 2763.4  | 2816.8  | 2920.9  | 2936.2  |
| 22.5° | 10388.3 | 9905.7  | 8437.6  | 6489.5  | 4343.3  | 2890.4  | 2433.3  | 2397.7  | 2534.8  | 2697.4  | 2720.3  |
| 25°   | 10294.3 | 9702.5  | 7932.2  | 5679.3  | 3350.2  | 2329.1  | 2131.0  | 2156.4  | 2291.0  | 2428.2  | 2443.4  |
| 27.5° | 10162.3 | 9451.1  | 7421.7  | 4668.4  | 2517.1  | 1998.9  | 1948.1  | 1981.1  | 2047.2  | 2131.0  | 2151.3  |
| 30°   | 9984.5  | 9166.6  | 6834.9  | 3794.7  | 2016.7  | 1833.8  | 1813.5  | 1831.3  | 1869.4  | 1904.9  | 1915.1  |
| 32.5° | 9806.7  | 8892.3  | 6243.1  | 2905.7  | 1798.3  | 1724.6  | 1704.3  | 1704.3  | 1704.3  | 1709.4  | 1711.9  |
| 35°   | 9641.6  | 8633.2  | 5608.2  | 2263.1  | 1684.0  | 1638.3  | 1610.3  | 1579.8  | 1574.8  | 1557.0  | 1557.0  |
| 37.5° | 9550.1  | 8397.0  | 4932.5  | 1894.8  | 1600.2  | 1567.1  | 1529.0  | 1478.2  | 1450.3  | 1452.8  | 1447.8  |
| 40°   | 9567.9  | 8242.1  | 4317.9  | 1686.5  | 1531.6  | 1496.0  | 1437.6  | 1379.2  | 1361.4  | 1361.4  | 1356.3  |
| 42.5° | 9768.6  | 8191.3  | 3728.6  | 1577.3  | 1465.5  | 1424.9  | 1351.2  | 1297.9  | 1287.7  | 1285.2  | 1290.3  |
| 45°   | 10230.8 | 8315.7  | 3200.3  | 1506.2  | 1409.7  | 1348.7  | 1275.0  | 1226.8  | 1216.6  | 1216.6  | 1214.1  |
| 47.5° | 11132.5 | 8719.6  | 2821.9  | 1460.5  | 1369.0  | 1290.3  | 1214.1  | 1165.8  | 1148.0  | 1143.0  | 1143.0  |
| 50°   | 12534.5 | 9595.9  | 2539.9  | 1419.8  | 1318.2  | 1236.9  | 1158.2  | 1102.3  | 1074.4  | 1071.8  | 1069.3  |
| 52.5° | 14482.7 | 10962.3 | 2430.7  | 1389.3  | 1262.3  | 1181.1  | 1094.7  | 1041.4  | 1005.8  | 998.2   | 993.1   |
| 55°   | 16761.0 | 12869.8 | 2580.6  | 1366.5  | 1203.9  | 1117.6  | 1028.7  | 972.8   | 939.8   | 924.5   | 922.0   |
| 57.5° | 19400.0 | 15160.8 | 3149.5  | 1336.0  | 1150.6  | 1049.0  | 962.6   | 906.8   | 871.2   | 853.4   | 848.3   |
| 60°   | 21769.7 | 17515.3 | 4142.6  | 1318.2  | 1104.9  | 975.3   | 886.4   | 835.6   | 802.6   | 784.8   | 782.3   |
| 62.5° | 24373.2 | 19760.6 | 5328.8  | 1366.5  | 1084.5  | 904.2   | 815.3   | 769.6   | 741.7   | 723.9   | 723.9   |
| 65°   | 27154.4 | 22008.5 | 6113.6  | 1529.0  | 1115.0  | 848.3   | 739.1   | 701.0   | 675.6   | 662.9   | 660.4   |
| 67.5° | 29028.8 | 22785.7 | 5036.7  | 1696.7  | 1191.2  | 787.4   | 665.5   | 635.0   | 619.7   | 607.0   | 607.0   |
| 69°   | 28825.7 | 21802.7 | 3715.9  | 1739.9  | 1214.1  | 756.9   | 624.8   | 602.0   | 581.6   | 576.6   | 571.5   |
| 70°   | 28183.0 | 20682.6 | 3114.0  | 1711.9  | 1196.3  | 729.0   | 599.4   | 571.5   | 553.7   | 548.6   | 546.1   |
| 72.5° | 25102.1 | 17937.0 | 2319.0  | 1488.4  | 1018.5  | 632.4   | 530.8   | 505.4   | 490.2   | 482.6   | 482.6   |
| 75°   | 20855.4 | 14660.5 | 1811.0  | 1183.6  | 797.5   | 533.4   | 454.6   | 434.3   | 421.6   | 416.5   | 414.0   |
| 77.5° | 11688.8 | 8186.2  | 1300.4  | 927.1   | 604.5   | 431.8   | 381.0   | 363.2   | 350.5   | 345.4   | 345.4   |
| 80°   | 3256.2  | 2339.3  | 764.5   | 612.1   | 411.5   | 327.7   | 302.3   | 289.6   | 271.8   | 259.1   | 266.7   |
| 82.5° | 1226.8  | 1013.4  | 436.9   | 368.3   | 261.6   | 218.4   | 210.8   | 200.7   | 193.0   | 175.3   | 175.3   |
| 85°   | 596.9   | 492.7   | 279.4   | 195.6   | 144.8   | 114.3   | 109.2   | 104.1   | 99.1    | 86.4    | 88.9    |
| 87.5° | 205.7   | 218.4   | 121.9   | 71.1    | 43.2    | 27.9    | 22.9    | 12.7    | 12.7    | 12.7    | 12.7    |
| 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)