

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: P457273

Luminaire Tested: **GLAN-SA8C-760-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457273  
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-SA8C-760-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5700K, 1050mA 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: 56668 lumens  
Efficiency: N/A  
Efficacy: 132.1 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

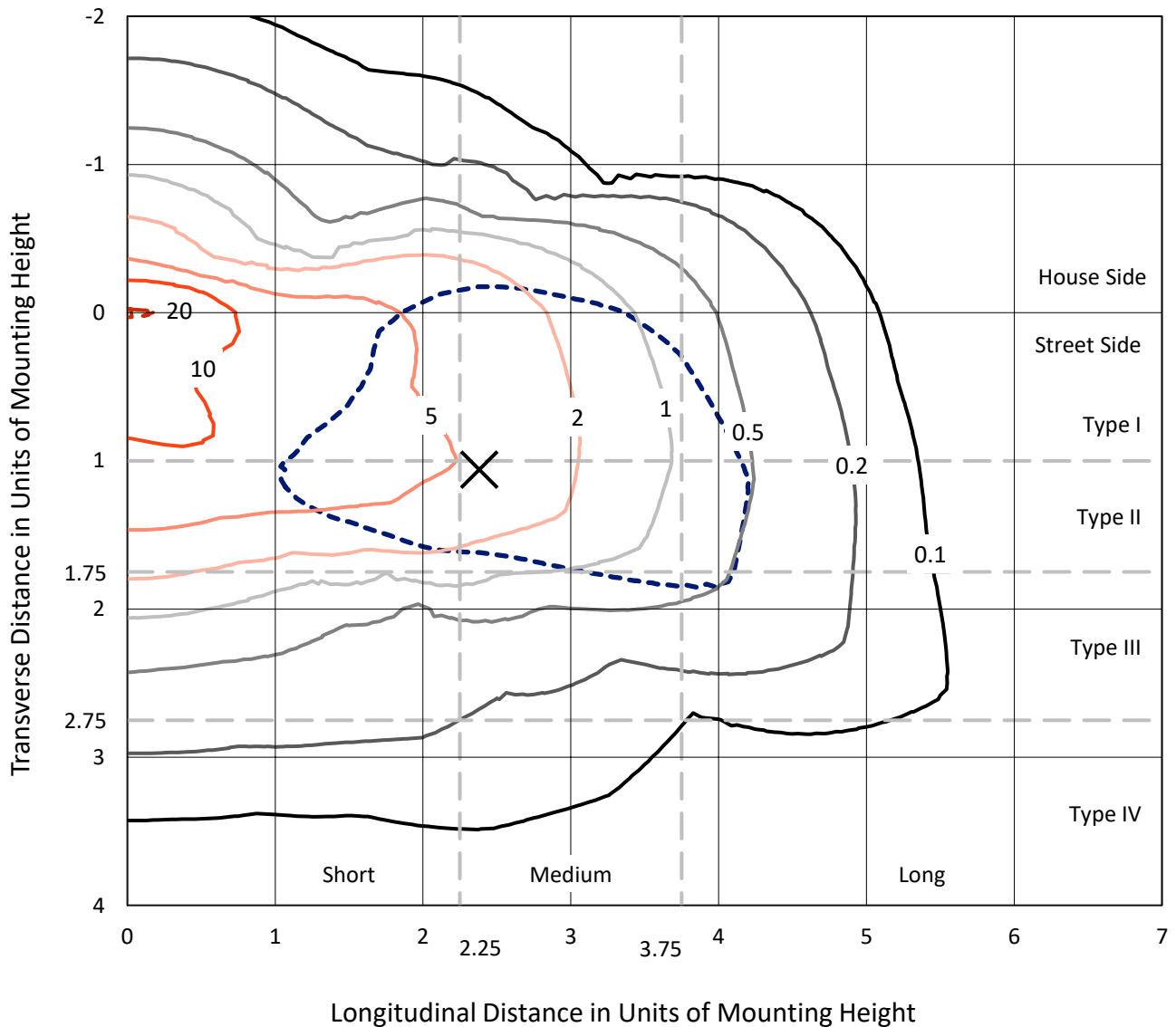
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

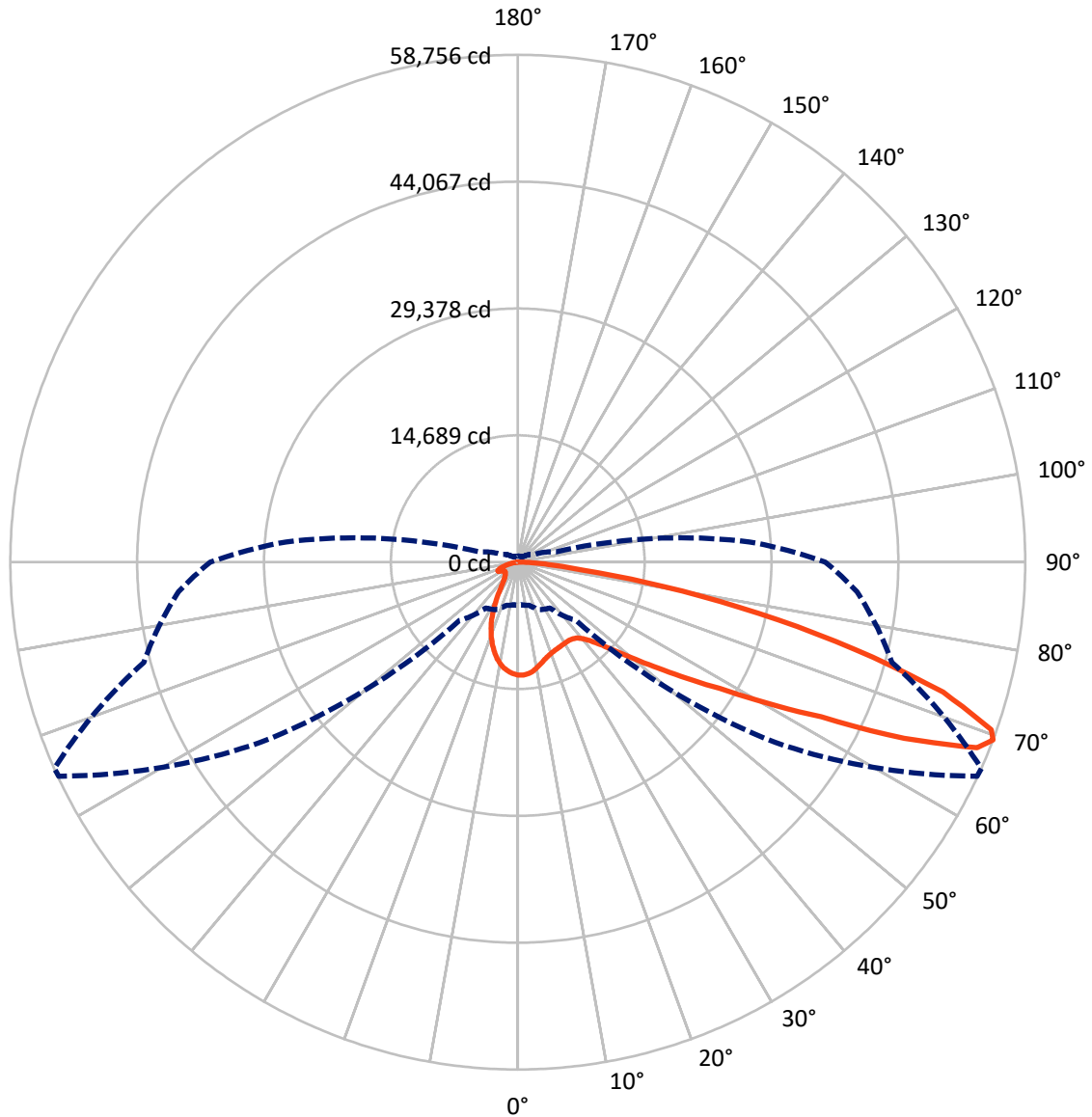
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 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    | 10657.1  | 0.0    | 10657.1 |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 46010.9  | 0.0    | 46010.9 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 56668.0  | 0.0    | 56668.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1136.4  | 2.0       |
| 10°-20°   | 2695.4  | 4.8       |
| 20°-30°   | 3669.5  | 6.5       |
| 30°-40°   | 4931.0  | 8.7       |
| 40°-50°   | 7362.8  | 13.0      |
| 50°-60°   | 11711.7 | 20.7      |
| 60°-70°   | 14404.8 | 25.4      |
| 70°-80°   | 9372.4  | 16.5      |
| 80°-90°   | 1384.0  | 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°    | 56668.0 | 100.0     |
| 0°-180°   | 56668.0 | 100.0     |



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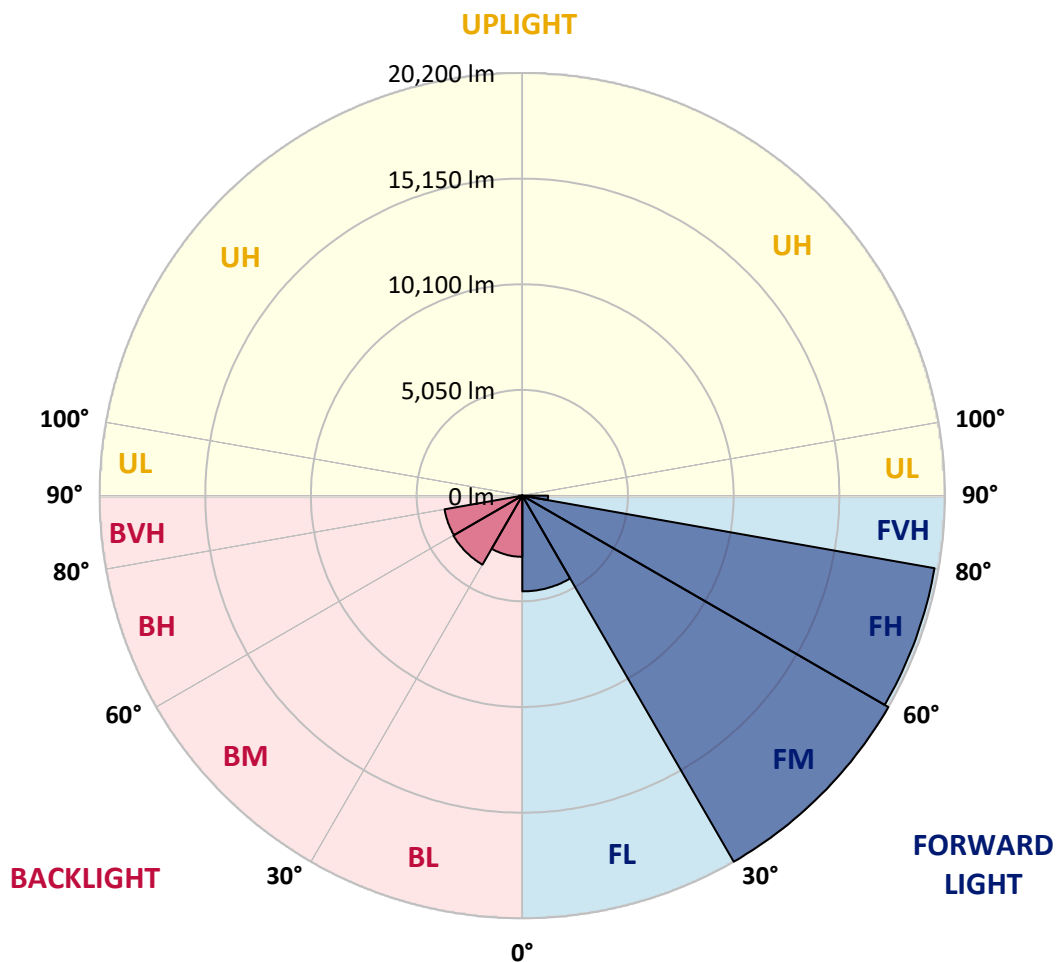
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4575.9  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 20200.4 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 20004.1 | 35.3      |                         |      | G5      |
| FVH  | (80°-90°)   | 1230.5  | 2.2       |                         |      | G5      |
| BL   | (0°-30°)    | 2925.4  | 5.2       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 3805.1  | 6.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 3773.1  | 6.7       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 153.5   | 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°    | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 |
| 2.5°  | 12628.0 | 12678.3 | 12734.7 | 12797.5 | 12916.8 | 12982.7 | 13029.7 | 13083.1 | 13089.4 | 13117.6 | 13095.6 |
| 5°    | 11696.0 | 11755.6 | 11840.4 | 11959.6 | 12138.5 | 12417.8 | 12706.5 | 12941.9 | 12970.1 | 13101.9 | 13139.6 |
| 7.5°  | 10917.7 | 10952.3 | 11021.3 | 11212.7 | 11466.9 | 11777.6 | 12198.1 | 12675.1 | 12744.2 | 13058.0 | 13167.8 |
| 10°   | 10283.8 | 10318.3 | 10399.9 | 10597.6 | 10848.7 | 11237.8 | 11699.1 | 12326.8 | 12383.3 | 12923.0 | 13174.1 |
| 12.5° | 9810.0  | 9841.3  | 9929.2  | 10123.8 | 10412.5 | 10776.5 | 11284.9 | 11950.2 | 12031.8 | 12744.2 | 13114.5 |
| 15°   | 9449.1  | 9508.7  | 9580.9  | 9740.9  | 10045.3 | 10396.8 | 10889.5 | 11605.0 | 11670.9 | 12555.9 | 13073.7 |
| 17.5° | 9295.3  | 9323.5  | 9373.7  | 9521.2  | 9744.1  | 10089.3 | 10585.1 | 11335.1 | 11413.6 | 12424.1 | 13064.2 |
| 20°   | 9301.6  | 9329.8  | 9339.2  | 9420.8  | 9580.9  | 9879.0  | 10368.6 | 11121.7 | 11215.9 | 12307.9 | 13079.9 |
| 22.5° | 9515.0  | 9518.1  | 9483.6  | 9455.3  | 9518.1  | 9766.0  | 10214.8 | 10961.7 | 11071.5 | 12257.7 | 13092.5 |
| 25°   | 9844.5  | 9901.0  | 9850.8  | 9718.9  | 9602.8  | 9722.1  | 10155.2 | 10873.8 | 10977.4 | 12185.6 | 13076.8 |
| 27.5° | 10378.0 | 10387.4 | 10346.6 | 10167.7 | 9866.4  | 9778.6  | 10130.0 | 10807.9 | 10895.8 | 12132.2 | 12998.3 |
| 30°   | 11093.5 | 11065.2 | 11027.6 | 10829.9 | 10356.0 | 9995.1  | 10183.4 | 10748.3 | 10839.3 | 12053.8 | 12904.2 |
| 32.5° | 11818.4 | 11906.3 | 11871.7 | 11639.5 | 11024.4 | 10415.6 | 10356.0 | 10742.0 | 10817.3 | 11994.1 | 12800.6 |
| 35°   | 12587.2 | 12628.0 | 12791.2 | 12672.0 | 12041.2 | 11096.6 | 10679.2 | 10839.3 | 10898.9 | 11997.3 | 12728.5 |
| 37.5° | 13189.8 | 13299.6 | 13682.5 | 13786.0 | 13192.9 | 11997.3 | 11203.3 | 11115.4 | 11140.5 | 12151.0 | 12756.7 |
| 40°   | 13917.8 | 14106.1 | 14598.8 | 15022.5 | 14633.3 | 13167.8 | 12094.6 | 11627.0 | 11658.3 | 12521.3 | 12941.9 |
| 42.5° | 14840.5 | 14972.3 | 15634.4 | 16208.7 | 16145.9 | 14714.9 | 13174.1 | 12464.9 | 12480.5 | 13258.8 | 13459.7 |
| 45°   | 15920.0 | 16108.3 | 16852.0 | 17715.0 | 17862.5 | 16466.0 | 14733.8 | 13732.7 | 13723.3 | 14404.3 | 14426.2 |
| 47.5° | 17300.8 | 17416.9 | 18154.4 | 19095.8 | 19692.1 | 18665.9 | 16626.1 | 15552.8 | 15452.4 | 16073.8 | 15894.9 |
| 50°   | 18571.8 | 18753.8 | 19312.4 | 20341.7 | 21826.1 | 21242.3 | 19114.7 | 17912.7 | 17677.4 | 18257.9 | 17956.7 |
| 52.5° | 19105.2 | 19296.7 | 19767.4 | 21044.6 | 23655.6 | 24575.1 | 22274.8 | 20727.7 | 20335.4 | 20781.0 | 20671.2 |
| 55°   | 18179.5 | 18427.4 | 18866.7 | 20420.1 | 24459.0 | 28419.4 | 26536.5 | 23982.0 | 23696.4 | 23505.0 | 23536.4 |
| 57.5° | 15690.9 | 15926.3 | 16519.4 | 18232.8 | 23498.7 | 31209.2 | 32621.4 | 28165.2 | 27553.2 | 26671.4 | 26822.0 |
| 60°   | 11943.9 | 12091.4 | 12399.0 | 14297.6 | 20652.4 | 31934.1 | 39531.7 | 33453.0 | 33063.9 | 29825.3 | 29932.0 |
| 62.5° | 8482.5  | 8648.8  | 8862.2  | 9810.0  | 15119.8 | 29891.2 | 44941.9 | 40837.2 | 39446.9 | 33092.1 | 32988.6 |
| 65°   | 6888.3  | 6775.3  | 7032.7  | 7475.1  | 8871.6  | 23166.1 | 46159.5 | 51086.5 | 49172.2 | 37394.6 | 35957.3 |
| 67.5° | 5664.4  | 5545.2  | 5799.4  | 6587.0  | 6747.1  | 13447.1 | 41772.3 | 57739.4 | 57356.5 | 42073.6 | 38973.1 |
| 69°   | 5014.8  | 4952.0  | 5174.9  | 6072.4  | 6477.2  | 9549.5  | 36390.3 | 58665.2 | 58756.2 | 44832.1 | 39437.5 |
| 70°   | 4519.0  | 4544.1  | 4760.6  | 5811.9  | 6354.8  | 7873.7  | 31102.5 | 57387.9 | 58159.9 | 46209.7 | 38935.4 |
| 72.5° | 3326.5  | 3379.8  | 3681.1  | 4814.0  | 6238.7  | 6681.2  | 18509.0 | 50126.2 | 51491.3 | 46291.3 | 35618.4 |
| 75°   | 2325.4  | 2300.3  | 2567.0  | 3624.6  | 5893.5  | 6621.6  | 10870.7 | 38766.0 | 40313.1 | 40011.8 | 29928.8 |
| 77.5° | 1522.0  | 1562.8  | 1776.2  | 2560.8  | 4958.3  | 6571.4  | 7086.0  | 27503.0 | 28507.2 | 26759.3 | 17702.5 |
| 80°   | 1073.3  | 1070.1  | 1189.4  | 1748.0  | 3677.9  | 6314.0  | 5802.5  | 17335.3 | 17081.1 | 10516.0 | 5250.2  |
| 82.5° | 615.1   | 659.0   | 797.1   | 1230.2  | 2460.3  | 5557.7  | 5338.0  | 8291.1  | 7569.3  | 2997.0  | 1773.1  |
| 85°   | 342.1   | 357.8   | 473.9   | 743.7   | 1437.3  | 4186.3  | 4660.2  | 3772.1  | 3558.7  | 1252.1  | 762.6   |
| 87.5° | 109.8   | 119.3   | 197.7   | 376.6   | 652.7   | 1977.1  | 2639.2  | 1741.7  | 1606.7  | 451.9   | 307.5   |
| 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°    | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 | 13086.2 |
| 2.5°  | 13105.0 | 13142.7 | 13042.3 | 12945.0 | 12857.1 | 12734.7 | 12624.9 | 12533.9 | 12471.1 | 12461.7 | 12430.3 |
| 5°    | 13149.0 | 13152.1 | 12960.7 | 12703.4 | 12452.3 | 12176.1 | 11890.6 | 11686.6 | 11495.2 | 11388.5 | 11335.1 |
| 7.5°  | 13180.4 | 13152.1 | 12806.9 | 12389.5 | 11906.3 | 11404.2 | 10902.0 | 10500.4 | 10189.7 | 10067.3 | 10114.4 |
| 10°   | 13167.8 | 13079.9 | 12574.7 | 11906.3 | 11203.3 | 10453.3 | 9731.5  | 9166.6  | 8648.8  | 8382.1  | 8388.4  |
| 12.5° | 13098.8 | 12954.4 | 12229.5 | 11363.4 | 10330.9 | 9326.7  | 8222.0  | 7459.5  | 6860.1  | 6505.4  | 6395.6  |
| 15°   | 13039.1 | 12788.1 | 11824.7 | 10625.9 | 9342.4  | 7908.2  | 6561.9  | 5620.5  | 5118.4  | 4839.1  | 4835.9  |
| 17.5° | 12976.4 | 12628.0 | 11382.2 | 9844.5  | 8206.3  | 6361.1  | 4948.9  | 4230.3  | 3994.9  | 4023.1  | 3976.1  |
| 20°   | 12910.5 | 12439.8 | 10920.9 | 8975.2  | 6822.4  | 4744.9  | 3706.2  | 3414.3  | 3480.2  | 3608.9  | 3627.7  |
| 22.5° | 12835.2 | 12238.9 | 10425.0 | 8018.1  | 5366.3  | 3571.3  | 3006.4  | 2962.4  | 3131.9  | 3332.7  | 3361.0  |
| 25°   | 12719.0 | 11987.9 | 9800.5  | 7017.0  | 4139.3  | 2877.7  | 2632.9  | 2664.3  | 2830.6  | 3000.1  | 3018.9  |
| 27.5° | 12555.9 | 11677.2 | 9169.8  | 5768.0  | 3109.9  | 2469.7  | 2407.0  | 2447.8  | 2529.4  | 2632.9  | 2658.0  |
| 30°   | 12336.2 | 11325.7 | 8444.8  | 4688.4  | 2491.7  | 2265.8  | 2240.7  | 2262.6  | 2309.7  | 2353.6  | 2366.2  |
| 32.5° | 12116.5 | 10986.8 | 7713.6  | 3590.1  | 2221.8  | 2130.8  | 2105.7  | 2105.7  | 2105.7  | 2112.0  | 2115.1  |
| 35°   | 11912.5 | 10666.7 | 6929.1  | 2796.1  | 2080.6  | 2024.1  | 1989.6  | 1951.9  | 1945.7  | 1923.7  | 1923.7  |
| 37.5° | 11799.6 | 10374.8 | 6094.3  | 2341.1  | 1977.1  | 1936.3  | 1889.2  | 1826.4  | 1791.9  | 1795.0  | 1788.8  |
| 40°   | 11821.5 | 10183.4 | 5334.9  | 2083.8  | 1892.3  | 1848.4  | 1776.2  | 1704.0  | 1682.1  | 1682.1  | 1675.8  |
| 42.5° | 12069.4 | 10120.6 | 4606.9  | 1948.8  | 1810.7  | 1760.5  | 1669.5  | 1603.6  | 1591.1  | 1587.9  | 1594.2  |
| 45°   | 12640.6 | 10274.4 | 3954.1  | 1860.9  | 1741.7  | 1666.4  | 1575.4  | 1515.7  | 1503.2  | 1503.2  | 1500.1  |
| 47.5° | 13754.6 | 10773.4 | 3486.5  | 1804.5  | 1691.5  | 1594.2  | 1500.1  | 1440.4  | 1418.5  | 1412.2  | 1412.2  |
| 50°   | 15486.9 | 11856.0 | 3138.2  | 1754.2  | 1628.7  | 1528.3  | 1431.0  | 1362.0  | 1327.5  | 1324.3  | 1321.2  |
| 52.5° | 17893.9 | 13544.4 | 3003.2  | 1716.6  | 1559.7  | 1459.3  | 1352.6  | 1286.7  | 1242.7  | 1233.3  | 1227.0  |
| 55°   | 20708.9 | 15901.2 | 3188.4  | 1688.3  | 1487.5  | 1380.8  | 1271.0  | 1201.9  | 1161.1  | 1142.3  | 1139.2  |
| 57.5° | 23969.4 | 18731.8 | 3891.3  | 1650.7  | 1421.6  | 1296.1  | 1189.4  | 1120.3  | 1076.4  | 1054.4  | 1048.2  |
| 60°   | 26897.4 | 21640.9 | 5118.4  | 1628.7  | 1365.1  | 1205.1  | 1095.2  | 1032.5  | 991.7   | 969.7   | 966.6   |
| 62.5° | 30114.0 | 24415.0 | 6583.9  | 1688.3  | 1340.0  | 1117.2  | 1007.4  | 950.9   | 916.3   | 894.4   | 894.4   |
| 65°   | 33550.3 | 27192.3 | 7553.6  | 1889.2  | 1377.7  | 1048.2  | 913.2   | 866.1   | 834.8   | 819.1   | 815.9   |
| 67.5° | 35866.3 | 28152.6 | 6223.0  | 2096.3  | 1471.8  | 972.8   | 822.2   | 784.5   | 765.7   | 750.0   | 750.0   |
| 69°   | 35615.2 | 26938.1 | 4591.2  | 2149.7  | 1500.1  | 935.2   | 772.0   | 743.7   | 718.6   | 712.4   | 706.1   |
| 70°   | 34821.3 | 25554.2 | 3847.4  | 2115.1  | 1478.1  | 900.7   | 740.6   | 706.1   | 684.1   | 677.8   | 674.7   |
| 72.5° | 31014.6 | 22161.8 | 2865.2  | 1839.0  | 1258.4  | 781.4   | 655.9   | 624.5   | 605.7   | 596.3   | 596.3   |
| 75°   | 25767.6 | 18113.6 | 2237.5  | 1462.4  | 985.4   | 659.0   | 561.7   | 536.6   | 520.9   | 514.7   | 511.5   |
| 77.5° | 14441.9 | 10114.4 | 1606.7  | 1145.4  | 746.9   | 533.5   | 470.7   | 448.8   | 433.1   | 426.8   | 426.8   |
| 80°   | 4023.1  | 2890.3  | 944.6   | 756.3   | 508.4   | 404.8   | 373.4   | 357.8   | 335.8   | 320.1   | 329.5   |
| 82.5° | 1515.7  | 1252.1  | 539.8   | 455.0   | 323.2   | 269.9   | 260.5   | 247.9   | 238.5   | 216.5   | 216.5   |
| 85°   | 737.5   | 608.8   | 345.2   | 241.6   | 178.9   | 141.2   | 134.9   | 128.7   | 122.4   | 106.7   | 109.8   |
| 87.5° | 254.2   | 269.9   | 150.6   | 87.9    | 53.3    | 34.5    | 28.2    | 15.7    | 15.7    | 15.7    | 15.7    |
| 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)