

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: P532673

Luminaire Tested: **GLAN-SA8A-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532673  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8A-740-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27548 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

Input Watts (W): 244  
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



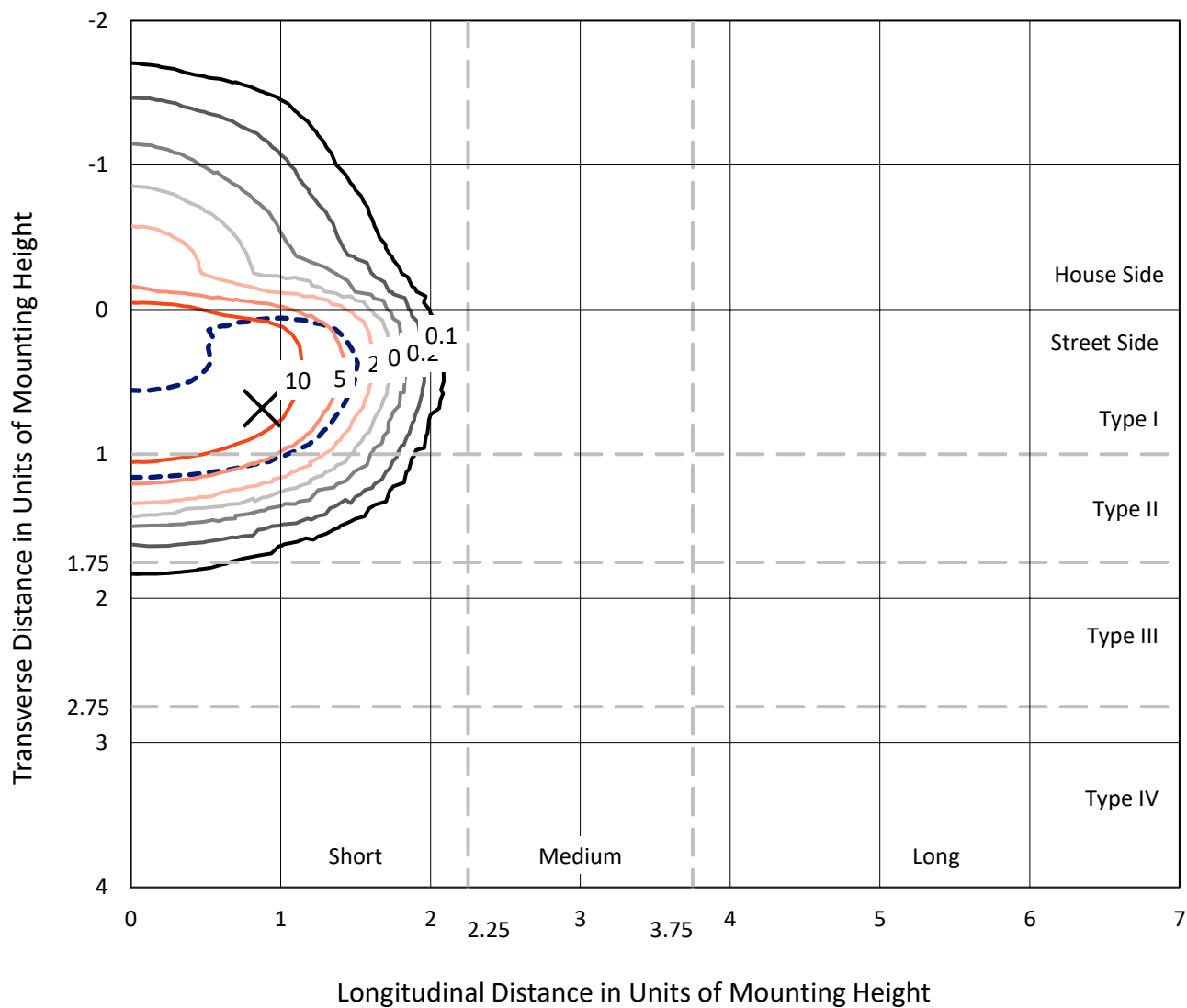
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

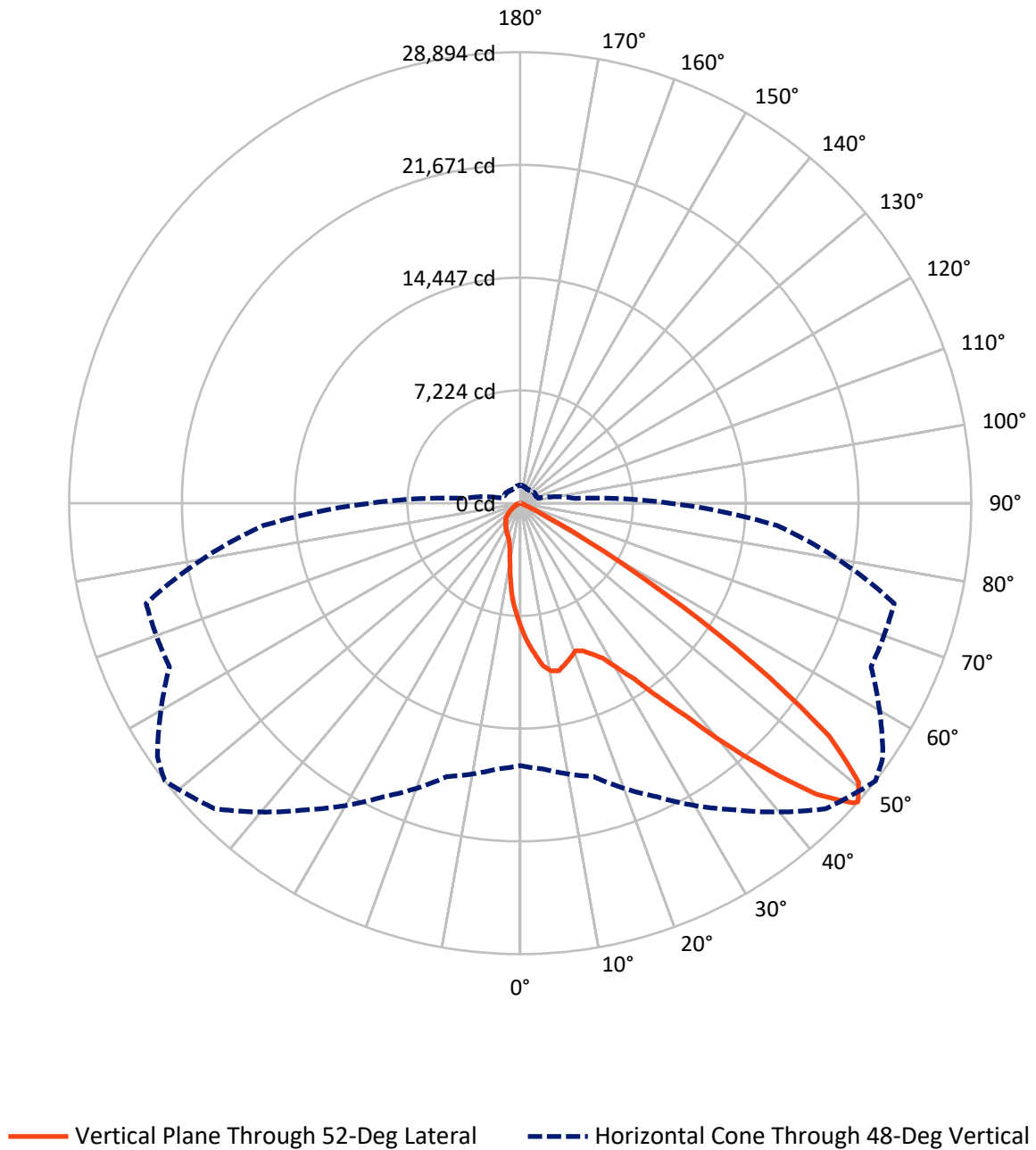


Based on 25 foot mounting height. Maximum calculated value = 17.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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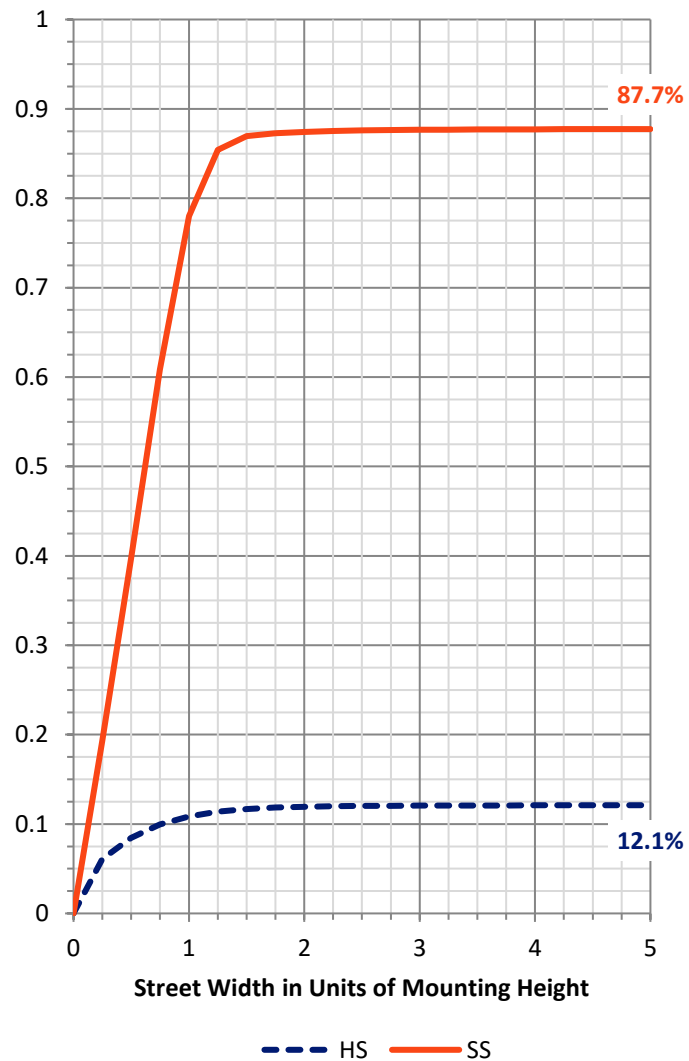
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3354.2   | 0.0    | 3354.2  |
|                    | % Fixture | 12.2     | 0.0    | 12.2    |
| <b>Street Side</b> | Lumens    | 24193.8  | 0.0    | 24193.8 |
|                    | % Fixture | 87.8     | 0.0    | 87.8    |
| <b>Total</b>       | Lumens    | 27548.0  | 0.0    | 27548.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 728.2   | 2.6       |
| 10°-20°   | 1902.9  | 6.9       |
| 20°-30°   | 3249.0  | 11.8      |
| 30°-40°   | 5983.1  | 21.7      |
| 40°-50°   | 9291.8  | 33.7      |
| 50°-60°   | 5592.1  | 20.3      |
| 60°-70°   | 646.8   | 2.3       |
| 70°-80°   | 125.2   | 0.5       |
| 80°-90°   | 28.9    | 0.1       |
| 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°    | 27548.0 | 100.0     |
| 0°-180°   | 27548.0 | 100.0     |

**Coefficient of Utilization**



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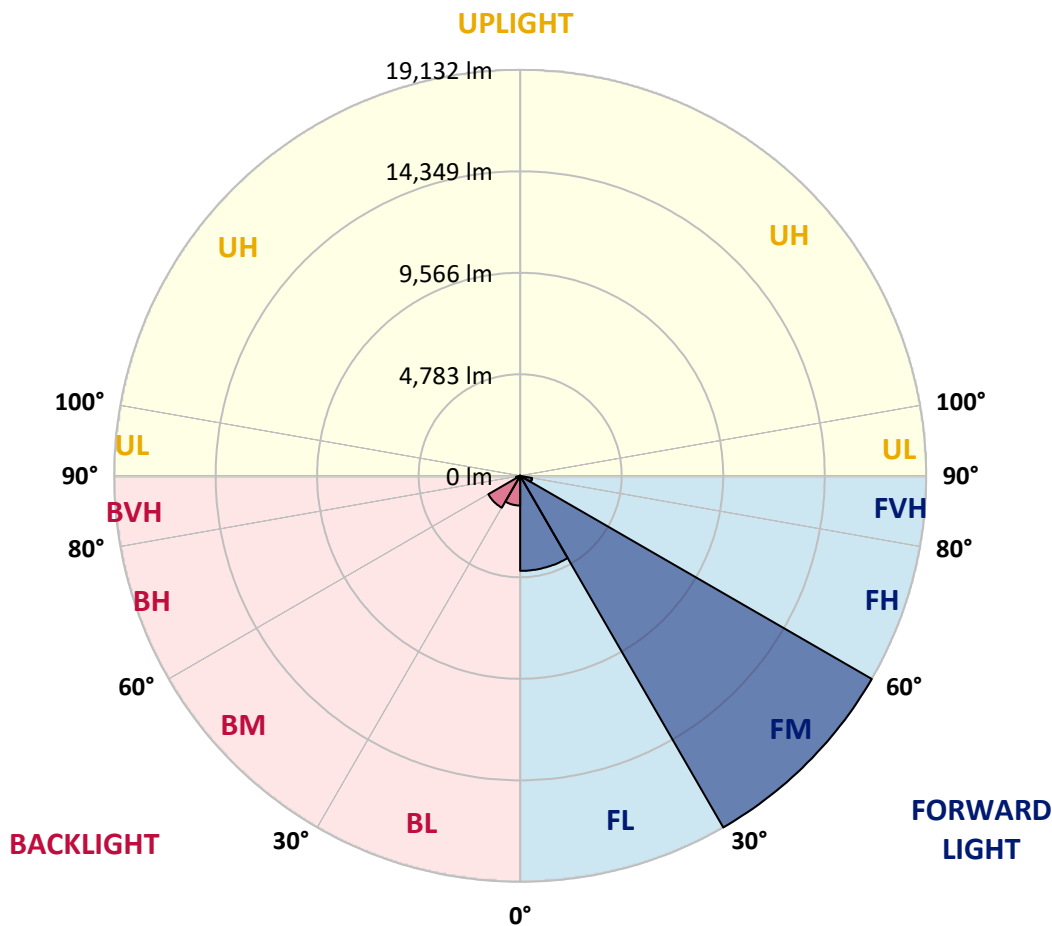
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 4478.9  | 16.3      |                         |      |        |
| FM   | (30°-60°)   | 19131.5 | 69.4      |                         |      |        |
| FH   | (60°-80°)   | 569.5   | 2.1       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 13.8    | 0.0       |                         |      | G1/100 |
| BL   | (0°-30°)    | 1401.2  | 5.1       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 1735.4  | 6.3       | B2/2500                 |      |        |
| BH   | (60°-80°)   | 202.4   | 0.7       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 15.2    | 0.1       |                         |      | G1/100 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B3-U0-G1**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 52°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7955.4  | 7955.4  | 7955.4  | 7955.4  | 7955.4  | 7955.4  | 7955.4  | 7955.4  | 7955.4  | 7955.4  | 7955.4  |
| 2.5°  | 9642.1  | 9421.2  | 9441.3  | 9296.7  | 9212.4  | 9075.8  | 8891.1  | 8855.0  | 8654.2  | 8381.1  | 8104.0  |
| 5°    | 10509.5 | 10457.3 | 10525.6 | 10316.7 | 10324.8 | 10099.9 | 9666.2  | 9674.2  | 9212.4  | 8766.6  | 8336.9  |
| 7.5°  | 10565.7 | 10445.2 | 10513.5 | 10698.2 | 10806.7 | 10766.5 | 10521.5 | 10308.7 | 9871.0  | 9216.4  | 8589.9  |
| 10°   | 9461.3  | 9690.3  | 9762.5  | 10067.7 | 10501.5 | 10959.3 | 10931.2 | 10943.2 | 10577.8 | 9722.4  | 8806.8  |
| 12.5° | 8798.7  | 8646.1  | 8891.1  | 9075.8  | 9730.4  | 10617.9 | 11023.5 | 11111.9 | 11140.0 | 10212.3 | 9023.6  |
| 15°   | 8497.5  | 8497.5  | 8537.7  | 8589.9  | 9063.8  | 9883.0  | 10710.3 | 10967.3 | 11573.7 | 10854.9 | 9365.0  |
| 17.5° | 8686.3  | 8678.3  | 8734.5  | 8626.1  | 8802.7  | 9433.2  | 10421.1 | 10714.3 | 12059.6 | 11485.3 | 9634.0  |
| 20°   | 9260.6  | 9288.7  | 9252.5  | 8939.3  | 8951.3  | 9425.2  | 10099.9 | 10561.7 | 12388.9 | 12031.5 | 9991.4  |
| 22.5° | 10059.7 | 10075.8 | 9871.0  | 9529.6  | 9429.2  | 9662.1  | 10284.6 | 10638.0 | 12654.0 | 12686.1 | 10099.9 |
| 25°   | 10983.4 | 10919.1 | 10878.9 | 10397.0 | 10091.8 | 10292.6 | 10702.2 | 10907.1 | 12818.6 | 13248.3 | 10409.1 |
| 27.5° | 12264.4 | 12135.9 | 11890.9 | 11461.2 | 11236.4 | 10951.2 | 11244.4 | 11581.7 | 13288.5 | 14035.4 | 10746.4 |
| 30°   | 14155.9 | 14043.4 | 13565.6 | 13011.4 | 12421.0 | 12139.9 | 12232.3 | 12417.0 | 14135.8 | 14947.0 | 11192.2 |
| 32.5° | 17003.1 | 16766.2 | 16075.5 | 15019.3 | 14216.1 | 13441.1 | 13417.0 | 13613.7 | 14894.8 | 16208.0 | 11722.3 |
| 35°   | 20139.5 | 20067.2 | 19051.2 | 17962.9 | 16408.8 | 15212.1 | 15232.1 | 15336.5 | 16348.5 | 17862.5 | 12417.0 |
| 37.5° | 22223.7 | 22621.3 | 21974.7 | 20806.1 | 19501.0 | 17790.2 | 17356.5 | 17392.7 | 18344.4 | 19822.3 | 13670.0 |
| 40°   | 23834.1 | 23496.8 | 23573.1 | 23300.0 | 22408.5 | 21243.9 | 20284.1 | 20095.3 | 20653.5 | 21990.8 | 14914.9 |
| 42.5° | 23131.3 | 23147.4 | 23617.2 | 24263.8 | 24484.7 | 24400.3 | 23420.5 | 23063.0 | 22629.3 | 23765.8 | 16099.6 |
| 45°   | 21147.5 | 21561.1 | 22171.5 | 23882.3 | 25384.2 | 26793.8 | 26601.0 | 26006.7 | 23994.7 | 25171.4 | 16782.2 |
| 47.5° | 17983.0 | 17966.9 | 18966.9 | 21191.7 | 24528.8 | 27829.9 | 28705.3 | 28287.7 | 24962.5 | 25014.7 | 16641.7 |
| 48°   | 16814.4 | 17103.5 | 18135.6 | 20753.9 | 23986.7 | 27677.3 | 28894.1 | 28368.0 | 24797.9 | 24805.9 | 16521.2 |
| 50°   | 12429.1 | 12376.9 | 13661.9 | 16874.6 | 21424.6 | 26006.7 | 28098.9 | 28508.5 | 24793.9 | 23749.8 | 15677.9 |
| 52.5° | 6565.9  | 6790.8  | 7726.5  | 10609.9 | 15147.8 | 21284.0 | 24785.8 | 25424.4 | 23918.4 | 22022.9 | 14465.1 |
| 55°   | 2791.0  | 2522.0  | 3240.8  | 4790.9  | 8521.6  | 14220.1 | 18183.8 | 19605.4 | 20223.8 | 19488.9 | 12654.0 |
| 57.5° | 995.9   | 1088.3  | 1252.9  | 1803.1  | 3582.1  | 7782.7  | 10842.8 | 11947.2 | 14011.3 | 14300.5 | 8622.0  |
| 60°   | 638.5   | 650.6   | 702.8   | 827.3   | 1345.3  | 2999.8  | 5144.3  | 6023.8  | 6959.5  | 7184.4  | 4023.9  |
| 62.5° | 493.9   | 498.0   | 522.1   | 542.1   | 638.5   | 1164.6  | 1931.6  | 2289.0  | 2377.4  | 2044.1  | 1056.2  |
| 65°   | 413.6   | 417.6   | 425.7   | 425.7   | 453.8   | 546.2   | 674.7   | 742.9   | 722.9   | 714.8   | 598.4   |
| 67.5° | 317.3   | 325.3   | 341.3   | 341.3   | 357.4   | 333.3   | 373.5   | 397.6   | 449.8   | 546.2   | 510.0   |
| 70°   | 249.0   | 253.0   | 265.0   | 273.1   | 273.1   | 241.0   | 269.1   | 293.2   | 329.3   | 405.6   | 401.6   |
| 72.5° | 192.8   | 200.8   | 208.8   | 208.8   | 196.8   | 164.6   | 192.8   | 212.8   | 236.9   | 281.1   | 273.1   |
| 75°   | 148.6   | 148.6   | 152.6   | 124.5   | 96.4    | 84.3    | 116.5   | 140.6   | 176.7   | 184.7   | 152.6   |
| 77.5° | 40.2    | 44.2    | 40.2    | 36.1    | 40.2    | 60.2    | 76.3    | 88.3    | 112.4   | 112.4   | 100.4   |
| 80°   | 0.0     | 4.0     | 12.0    | 24.1    | 40.2    | 56.2    | 68.3    | 76.3    | 88.3    | 96.4    | 92.4    |
| 82.5° | 0.0     | 4.0     | 12.0    | 24.1    | 36.1    | 44.2    | 60.2    | 64.3    | 72.3    | 84.3    | 84.3    |
| 85°   | 0.0     | 4.0     | 8.0     | 16.1    | 24.1    | 28.1    | 28.1    | 24.1    | 24.1    | 20.1    | 16.1    |
| 87.5° | 0.0     | 0.0     | 4.0     | 8.0     | 8.0     | 12.0    | 12.0    | 12.0    | 12.0    | 12.0    | 12.0    |
| 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°    | 7955.4 | 7955.4 | 7955.4 | 7955.4 | 7955.4 | 7955.4 | 7955.4 | 7955.4 | 7955.4 | 7955.4 | 7955.4 |
| 2.5°  | 7995.6 | 7871.1 | 7682.3 | 7385.2 | 7100.0 | 6915.3 | 6738.6 | 6541.8 | 6433.4 | 6425.4 | 6365.1 |
| 5°    | 8091.9 | 7810.8 | 7361.1 | 6851.0 | 6304.9 | 5835.0 | 5361.2 | 5051.9 | 4774.8 | 4622.2 | 4594.1 |
| 7.5°  | 8144.1 | 7778.7 | 7051.8 | 6196.5 | 5264.8 | 4497.8 | 3967.7 | 3578.1 | 3425.5 | 3313.1 | 3309.1 |
| 10°   | 8252.6 | 7722.5 | 6590.0 | 5329.0 | 4176.5 | 3401.4 | 3036.0 | 2859.3 | 2775.0 | 2742.8 | 2694.6 |
| 12.5° | 8332.9 | 7618.1 | 6116.1 | 4437.5 | 3301.0 | 2819.1 | 2658.5 | 2618.3 | 2622.4 | 2638.4 | 2618.3 |
| 15°   | 8445.3 | 7525.7 | 5477.6 | 3642.4 | 2770.9 | 2538.0 | 2538.0 | 2546.1 | 2602.3 | 2610.3 | 2606.3 |
| 17.5° | 8437.3 | 7345.0 | 4819.0 | 2999.8 | 2449.7 | 2417.5 | 2429.6 | 2505.9 | 2542.0 | 2554.1 | 2526.0 |
| 20°   | 8533.7 | 7176.3 | 4140.3 | 2562.1 | 2269.0 | 2317.1 | 2397.5 | 2417.5 | 2461.7 | 2469.7 | 2437.6 |
| 22.5° | 8505.6 | 6754.7 | 3509.9 | 2216.8 | 2132.4 | 2224.8 | 2305.1 | 2329.2 | 2317.1 | 2293.1 | 2289.0 |
| 25°   | 8453.4 | 6393.2 | 2931.6 | 1987.8 | 2032.0 | 2132.4 | 2208.7 | 2164.5 | 2140.4 | 2144.5 | 2148.5 |
| 27.5° | 8361.0 | 5935.4 | 2453.7 | 1827.2 | 1895.5 | 2044.1 | 2040.1 | 2024.0 | 2048.1 | 2028.0 | 2048.1 |
| 30°   | 8344.9 | 5477.6 | 2060.1 | 1682.6 | 1795.1 | 1903.5 | 1911.5 | 1939.7 | 1967.8 | 1931.6 | 1967.8 |
| 32.5° | 8369.0 | 4975.6 | 1779.0 | 1594.3 | 1734.8 | 1738.9 | 1827.2 | 1855.3 | 1835.2 | 1754.9 | 1763.0 |
| 35°   | 8553.8 | 4590.1 | 1574.2 | 1546.1 | 1638.5 | 1642.5 | 1726.8 | 1690.7 | 1602.3 | 1554.1 | 1582.2 |
| 37.5° | 8943.3 | 4268.9 | 1477.8 | 1501.9 | 1510.0 | 1562.2 | 1566.2 | 1493.9 | 1501.9 | 1497.9 | 1514.0 |
| 40°   | 9441.3 | 4023.9 | 1409.6 | 1461.8 | 1453.7 | 1489.9 | 1345.3 | 1385.5 | 1421.6 | 1433.7 | 1441.7 |
| 42.5° | 9782.6 | 3847.2 | 1365.4 | 1397.5 | 1381.5 | 1317.2 | 1236.9 | 1277.0 | 1305.2 | 1349.3 | 1357.4 |
| 45°   | 9935.2 | 3706.6 | 1313.2 | 1285.1 | 1285.1 | 1168.6 | 1136.5 | 1144.5 | 1208.8 | 1257.0 | 1248.9 |
| 47.5° | 9686.2 | 3570.1 | 1220.8 | 1136.5 | 1164.6 | 1068.2 | 1032.1 | 1032.1 | 1100.3 | 1160.6 | 1148.5 |
| 48°   | 9589.9 | 3513.9 | 1224.8 | 1104.4 | 1124.4 | 1052.2 | 1016.0 | 1008.0 | 1084.3 | 1140.5 | 1140.5 |
| 50°   | 9112.0 | 3305.0 | 1120.4 | 1016.0 | 975.9  | 967.8  | 943.7  | 951.8  | 999.9  | 1052.2 | 1052.2 |
| 52.5° | 8180.3 | 2855.3 | 947.7  | 871.4  | 799.2  | 847.3  | 859.4  | 843.3  | 867.4  | 915.6  | 911.6  |
| 55°   | 6827.0 | 2192.7 | 759.0  | 722.9  | 666.6  | 718.8  | 742.9  | 722.9  | 698.8  | 734.9  | 734.9  |
| 57.5° | 4373.3 | 1180.7 | 606.4  | 614.4  | 558.2  | 610.4  | 630.5  | 582.3  | 538.1  | 566.2  | 562.2  |
| 60°   | 1971.8 | 706.8  | 498.0  | 485.9  | 449.8  | 510.0  | 542.1  | 485.9  | 425.7  | 445.8  | 465.8  |
| 62.5° | 738.9  | 502.0  | 377.5  | 369.5  | 361.4  | 417.6  | 433.7  | 389.5  | 329.3  | 341.3  | 345.4  |
| 65°   | 542.1  | 441.7  | 301.2  | 273.1  | 289.1  | 329.3  | 321.3  | 277.1  | 236.9  | 236.9  | 245.0  |
| 67.5° | 461.8  | 385.5  | 245.0  | 212.8  | 212.8  | 216.9  | 200.8  | 176.7  | 164.6  | 172.7  | 180.7  |
| 70°   | 361.4  | 305.2  | 192.8  | 164.6  | 148.6  | 132.5  | 116.5  | 112.4  | 100.4  | 112.4  | 108.4  |
| 72.5° | 232.9  | 204.8  | 148.6  | 124.5  | 112.4  | 92.4   | 76.3   | 72.3   | 60.2   | 56.2   | 56.2   |
| 75°   | 124.5  | 124.5  | 116.5  | 100.4  | 88.3   | 72.3   | 60.2   | 48.2   | 32.1   | 24.1   | 24.1   |
| 77.5° | 88.3   | 96.4   | 104.4  | 96.4   | 80.3   | 60.2   | 48.2   | 32.1   | 16.1   | 8.0    | 8.0    |
| 80°   | 84.3   | 96.4   | 104.4  | 92.4   | 80.3   | 60.2   | 44.2   | 24.1   | 12.0   | 4.0    | 4.0    |
| 82.5° | 76.3   | 88.3   | 96.4   | 84.3   | 72.3   | 52.2   | 40.2   | 24.1   | 12.0   | 4.0    | 4.0    |
| 85°   | 16.1   | 20.1   | 24.1   | 24.1   | 28.1   | 36.1   | 28.1   | 20.1   | 8.0    | 4.0    | 4.0    |
| 87.5° | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 12.0   | 8.0    | 8.0    | 4.0    | 4.0    | 4.0    |
| 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)