

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: P455210

Luminaire Tested: **GLAN-SA6B-827-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455210  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6B-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20323 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 243  
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



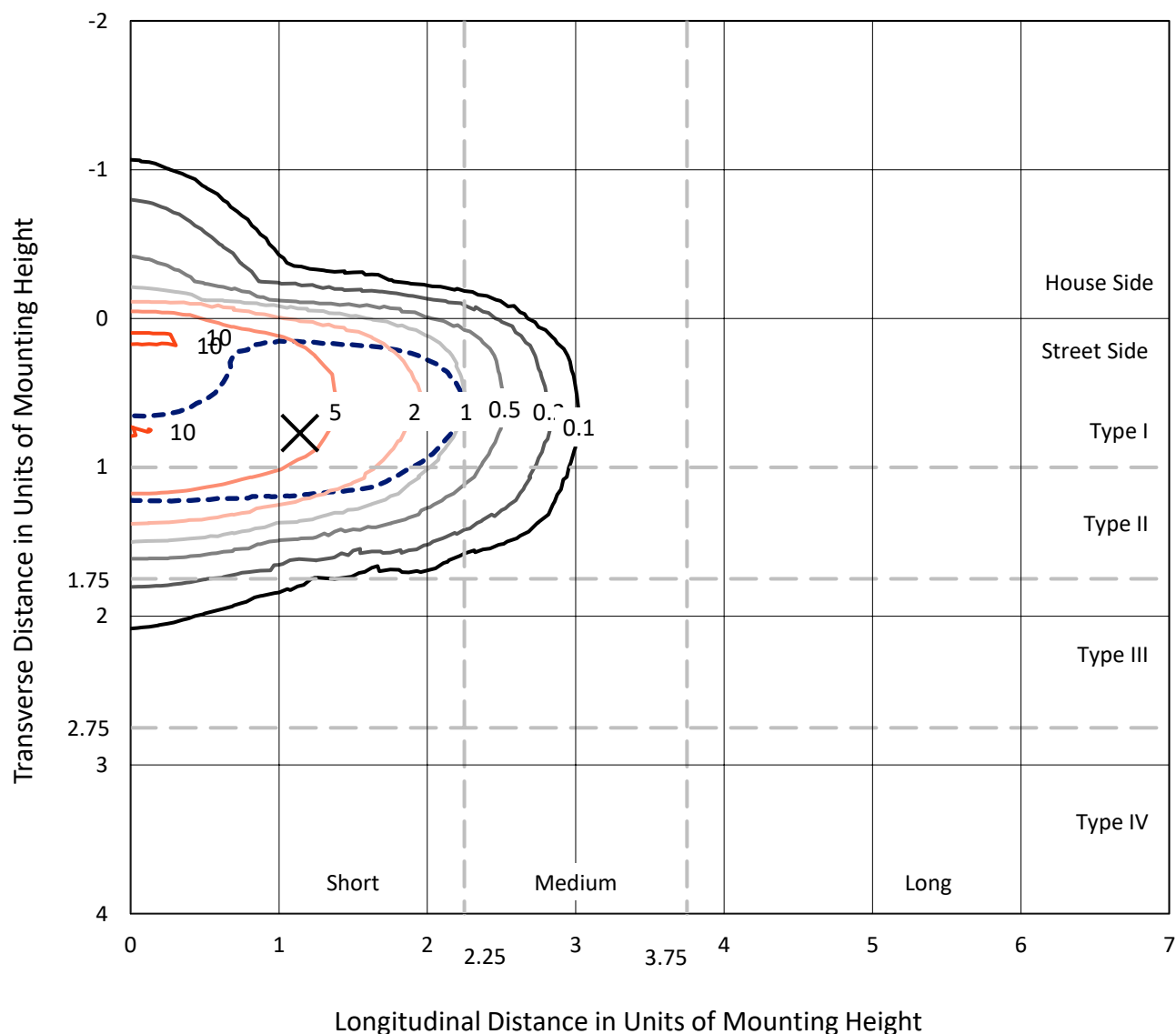
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

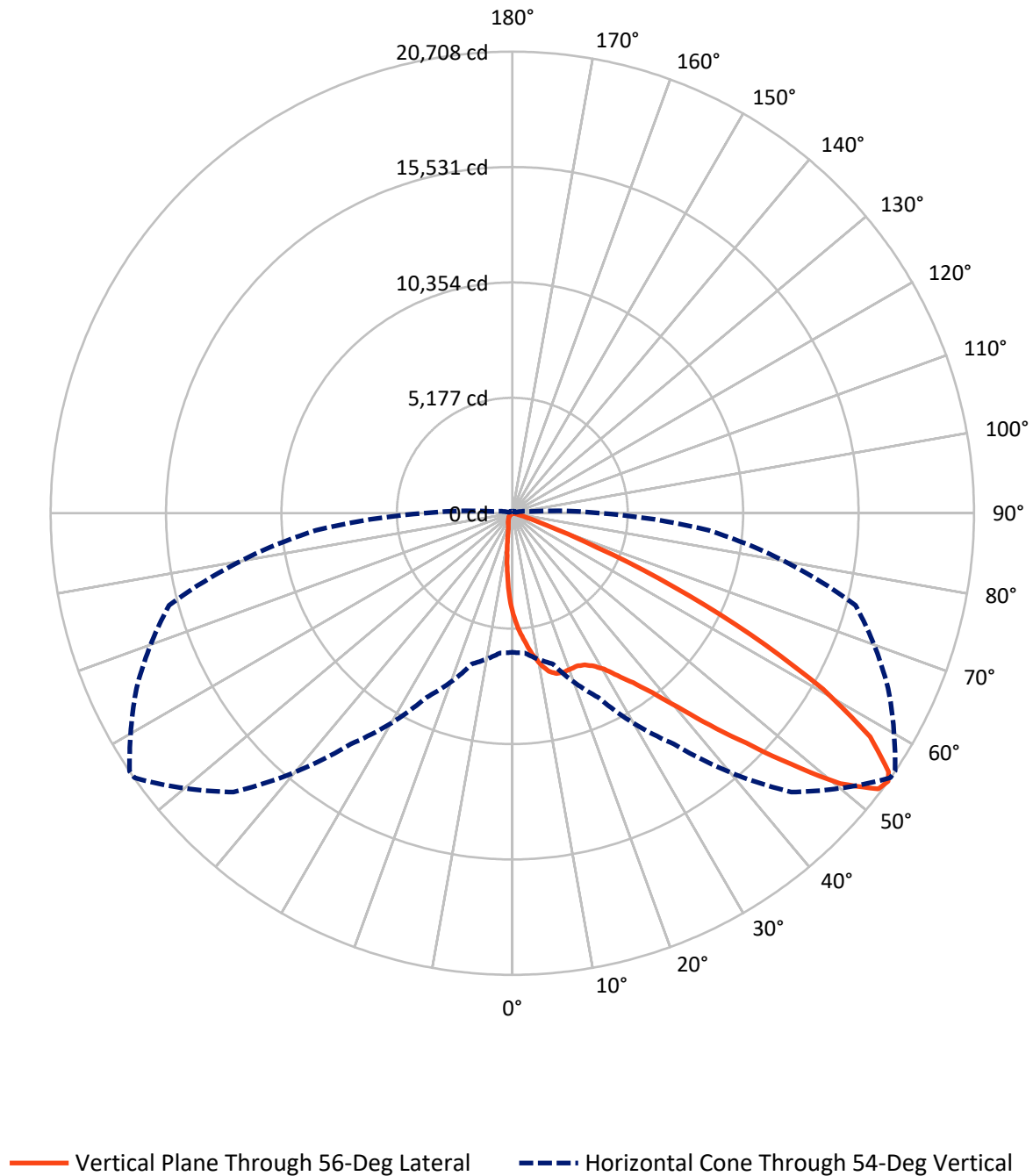
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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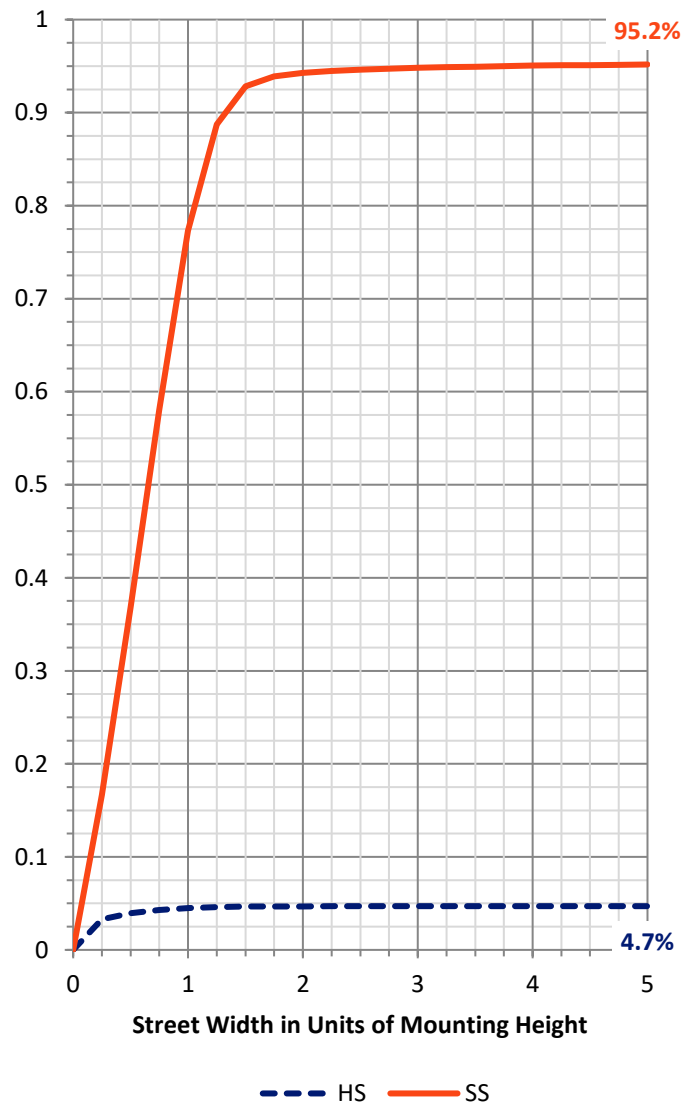
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 961.0    | 0.0    | 961.0   |
|                    | % Fixture | 4.7      | 0.0    | 4.7     |
| <b>Street Side</b> | Lumens    | 19362.0  | 0.0    | 19362.0 |
|                    | % Fixture | 95.3     | 0.0    | 95.3    |
| <b>Total</b>       | Lumens    | 20323.0  | 0.0    | 20323.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 399.0   | 2.0       |
| 10°-20°   | 1078.6  | 5.3       |
| 20°-30°   | 1868.0  | 9.2       |
| 30°-40°   | 3224.5  | 15.9      |
| 40°-50°   | 5488.3  | 27.0      |
| 50°-60°   | 5431.3  | 26.7      |
| 60°-70°   | 2479.0  | 12.2      |
| 70°-80°   | 318.4   | 1.6       |
| 80°-90°   | 35.9    | 0.2       |
| 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°    | 20323.0 | 100.0     |
| 0°-180°   | 20323.0 | 100.0     |

**Coefficient of Utilization**



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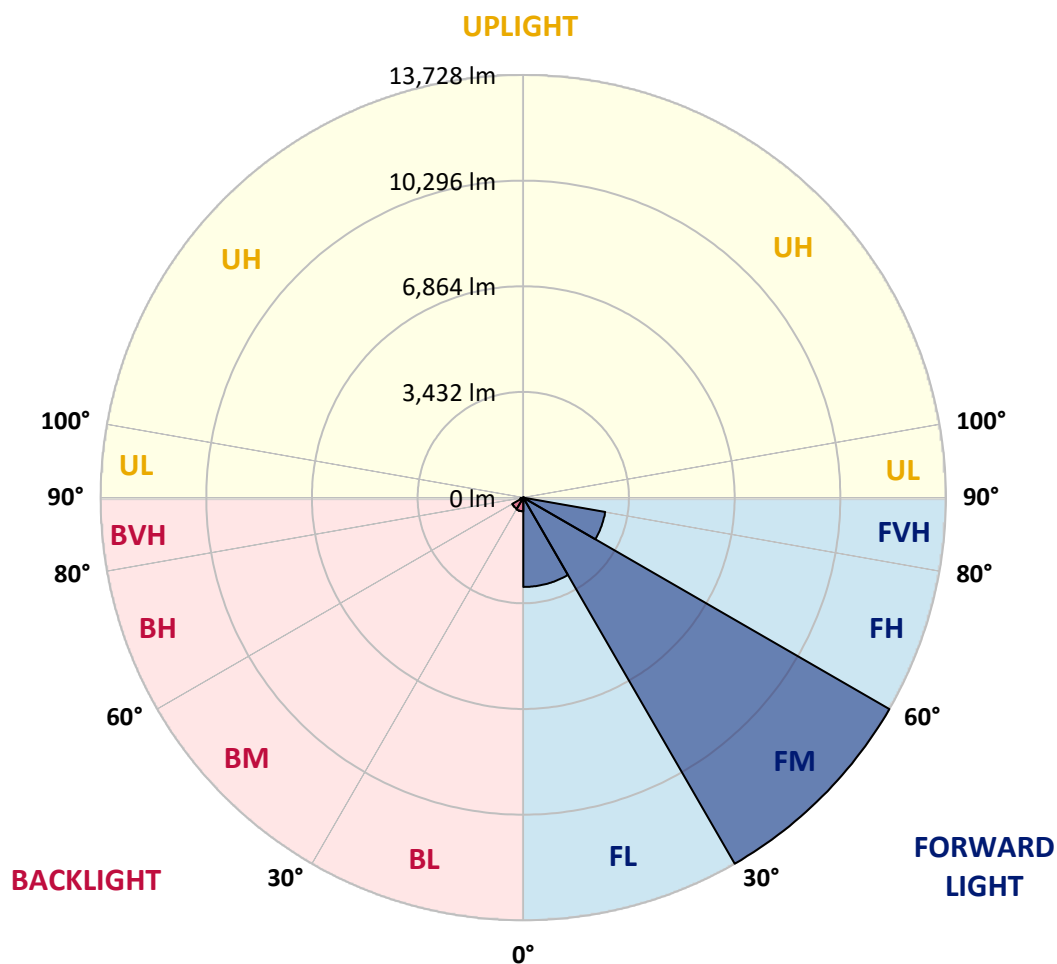
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2901.2  | 14.3      |                         |      |         |
| FM   | (30°-60°)   | 13727.7 | 67.5      |                         |      |         |
| FH   | (60°-80°)   | 2701.1  | 13.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 32.0    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 444.5   | 2.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 416.5   | 2.0       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 96.2    | 0.5       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 3.8     | 0.0       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4515.2  | 4515.2  | 4515.2  | 4515.2  | 4515.2  | 4515.2  | 4515.2  | 4515.2  | 4515.2  | 4515.2  | 4515.2 |
| 2.5°  | 5738.2  | 5698.5  | 5643.6  | 5601.1  | 5501.0  | 5357.1  | 5204.9  | 5204.9  | 5058.2  | 4853.9  | 4645.4 |
| 5°    | 6618.5  | 6592.5  | 6539.0  | 6429.3  | 6316.9  | 6115.3  | 5809.5  | 5756.1  | 5494.2  | 5124.0  | 4734.6 |
| 7.5°  | 6976.4  | 6988.7  | 6991.5  | 6962.7  | 6909.2  | 6710.4  | 6407.4  | 6370.3  | 5952.1  | 5455.8  | 4851.1 |
| 10°   | 6633.6  | 6693.9  | 6752.9  | 6872.2  | 7040.8  | 7088.8  | 6917.4  | 6879.0  | 6467.7  | 5791.7  | 4977.3 |
| 12.5° | 6123.5  | 6156.4  | 6189.4  | 6377.2  | 6715.9  | 7103.9  | 7283.5  | 7282.2  | 6933.9  | 6126.3  | 5137.7 |
| 15°   | 5886.3  | 5915.1  | 5917.9  | 6001.5  | 6294.9  | 6859.8  | 7439.8  | 7460.4  | 7389.1  | 6539.0  | 5310.5 |
| 17.5° | 5935.7  | 5959.0  | 5939.8  | 5960.4  | 6113.9  | 6591.1  | 7422.0  | 7490.6  | 7757.9  | 6935.3  | 5466.8 |
| 20°   | 6257.9  | 6303.2  | 6229.1  | 6171.5  | 6218.2  | 6519.8  | 7361.7  | 7457.7  | 8018.5  | 7321.9  | 5609.4 |
| 22.5° | 6836.5  | 6861.2  | 6768.0  | 6610.3  | 6528.0  | 6669.3  | 7345.2  | 7439.8  | 8240.6  | 7638.7  | 5691.6 |
| 25°   | 7479.6  | 7471.4  | 7368.5  | 7191.7  | 7018.9  | 6970.9  | 7453.6  | 7538.6  | 8424.3  | 7923.9  | 5716.3 |
| 27.5° | 8122.7  | 8147.4  | 7974.6  | 7755.2  | 7548.2  | 7423.4  | 7696.2  | 7759.3  | 8631.4  | 8248.8  | 5746.5 |
| 30°   | 8869.9  | 8830.2  | 8660.2  | 8409.2  | 8172.0  | 7997.9  | 8087.0  | 8104.8  | 8916.6  | 8679.4  | 5826.0 |
| 32.5° | 9842.1  | 9732.4  | 9541.8  | 9103.0  | 8933.0  | 8638.2  | 8660.2  | 8682.1  | 9263.5  | 9105.8  | 5922.0 |
| 35°   | 11161.1 | 11155.7 | 10782.7 | 10191.7 | 9777.6  | 9411.6  | 9315.6  | 9333.4  | 9788.6  | 9739.3  | 6134.5 |
| 37.5° | 12748.9 | 12770.9 | 12345.8 | 11750.7 | 10988.4 | 10407.0 | 10209.6 | 10212.3 | 10586.6 | 10614.0 | 6458.1 |
| 40°   | 14041.9 | 14099.5 | 13845.8 | 13444.1 | 12691.3 | 11782.3 | 11450.4 | 11420.3 | 11708.2 | 11673.9 | 6920.2 |
| 42.5° | 14598.6 | 14652.1 | 14746.7 | 14886.5 | 14472.5 | 13722.4 | 12939.5 | 12980.6 | 13068.4 | 12828.4 | 7438.5 |
| 45°   | 14325.7 | 14410.8 | 14782.3 | 15646.2 | 16035.6 | 15783.3 | 14849.5 | 14705.5 | 14334.0 | 14083.0 | 7959.5 |
| 47.5° | 13189.1 | 13396.1 | 14017.2 | 15455.6 | 16818.5 | 17671.3 | 17005.0 | 16814.4 | 15600.9 | 14999.0 | 8291.3 |
| 50°   | 11320.2 | 11332.5 | 12197.7 | 14036.4 | 16412.6 | 18862.9 | 19205.7 | 19063.1 | 16781.5 | 15513.2 | 8458.6 |
| 52.5° | 8206.3  | 8476.4  | 9269.0  | 11398.3 | 14654.8 | 18681.9 | 20608.3 | 20549.4 | 17999.0 | 15776.4 | 8699.9 |
| 54°   | 6238.7  | 6290.8  | 6995.6  | 9108.5  | 12635.1 | 17687.8 | 20694.7 | 20708.4 | 18603.7 | 15935.5 | 8842.5 |
| 55°   | 5114.4  | 4989.6  | 5730.0  | 7759.3  | 11257.1 | 16808.9 | 20412.3 | 20478.1 | 18875.2 | 16017.7 | 8948.1 |
| 57.5° | 2424.2  | 2425.6  | 2991.8  | 4092.9  | 7050.4  | 13051.9 | 18686.0 | 18919.1 | 18905.4 | 16159.0 | 9273.1 |
| 60°   | 1227.2  | 1235.4  | 1360.2  | 1889.4  | 3482.7  | 8676.6  | 15450.1 | 16005.4 | 17450.6 | 16179.5 | 9380.0 |
| 62.5° | 858.3   | 848.7   | 828.2   | 909.1   | 1465.8  | 4409.6  | 11502.6 | 11985.2 | 14826.2 | 15396.6 | 9040.0 |
| 65°   | 734.9   | 714.4   | 656.8   | 644.4   | 740.4   | 1756.4  | 7164.2  | 7951.3  | 11320.2 | 13331.7 | 8071.9 |
| 67.5° | 628.0   | 619.8   | 567.7   | 536.1   | 523.8   | 765.1   | 3696.6  | 4110.7  | 7737.4  | 9582.9  | 6113.9 |
| 70°   | 533.4   | 529.3   | 497.7   | 458.0   | 423.7   | 458.0   | 1371.1  | 1698.9  | 4312.3  | 5159.6  | 2884.9 |
| 72.5° | 433.3   | 437.4   | 442.9   | 392.1   | 356.5   | 325.0   | 585.5   | 681.5   | 1804.4  | 1844.2  | 1009.2 |
| 75°   | 379.8   | 375.7   | 375.7   | 341.4   | 297.5   | 241.3   | 322.2   | 346.9   | 552.6   | 512.8   | 234.5  |
| 77.5° | 267.4   | 257.8   | 301.7   | 281.1   | 248.2   | 171.4   | 183.7   | 194.7   | 229.0   | 196.1   | 109.7  |
| 80°   | 185.1   | 185.1   | 193.3   | 252.3   | 223.5   | 124.8   | 112.4   | 120.7   | 135.7   | 116.5   | 63.1   |
| 82.5° | 104.2   | 106.9   | 126.1   | 134.4   | 130.3   | 83.6    | 74.0    | 75.4    | 90.5    | 79.5    | 39.8   |
| 85°   | 12.3    | 20.6    | 72.7    | 71.3    | 53.5    | 37.0    | 41.1    | 42.5    | 56.2    | 49.4    | 23.3   |
| 87.5° | 1.4     | 2.7     | 15.1    | 19.2    | 13.7    | 15.1    | 15.1    | 15.1    | 19.2    | 21.9    | 16.5   |
| 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°    | 4515.2 | 4515.2 | 4515.2 | 4515.2 | 4515.2 | 4515.2 | 4515.2 | 4515.2 | 4515.2 | 4515.2 | 4515.2 |
| 2.5°  | 4533.0 | 4428.8 | 4180.6 | 3892.7 | 3709.0 | 3410.0 | 3157.8 | 2975.4 | 2930.1 | 2842.4 | 2868.4 |
| 5°    | 4527.5 | 4310.9 | 3804.9 | 3270.2 | 2699.8 | 2274.7 | 1958.0 | 1708.4 | 1598.8 | 1526.1 | 1475.4 |
| 7.5°  | 4530.3 | 4191.6 | 3379.9 | 2528.4 | 1846.9 | 1430.1 | 1136.7 | 984.5  | 883.0  | 840.5  | 846.0  |
| 10°   | 4538.5 | 4057.2 | 2886.3 | 1873.0 | 1246.4 | 924.2  | 744.5  | 671.9  | 637.6  | 632.1  | 630.7  |
| 12.5° | 4557.7 | 3910.5 | 2414.6 | 1390.3 | 872.0  | 671.9  | 603.3  | 578.6  | 567.7  | 567.7  | 563.5  |
| 15°   | 4578.3 | 3748.7 | 2022.4 | 1033.8 | 671.9  | 577.3  | 545.7  | 533.4  | 526.5  | 526.5  | 525.1  |
| 17.5° | 4578.3 | 3562.2 | 1656.3 | 802.1  | 578.6  | 530.6  | 506.0  | 489.5  | 484.0  | 484.0  | 482.6  |
| 20°   | 4549.5 | 3345.6 | 1331.4 | 645.8  | 525.1  | 486.8  | 462.1  | 444.3  | 437.4  | 434.7  | 433.3  |
| 22.5° | 4449.4 | 3056.3 | 1059.9 | 555.3  | 481.3  | 448.4  | 416.8  | 396.3  | 390.8  | 388.0  | 389.4  |
| 25°   | 4271.1 | 2730.0 | 839.1  | 488.1  | 441.5  | 401.7  | 374.3  | 359.2  | 353.8  | 353.8  | 355.1  |
| 27.5° | 4087.4 | 2388.5 | 665.0  | 437.4  | 393.5  | 357.9  | 335.9  | 326.3  | 325.0  | 329.1  | 330.4  |
| 30°   | 3917.4 | 2045.8 | 538.9  | 396.3  | 351.0  | 320.8  | 305.8  | 303.0  | 303.0  | 304.4  | 305.8  |
| 32.5° | 3728.1 | 1745.5 | 451.1  | 360.6  | 316.7  | 290.7  | 282.5  | 282.5  | 285.2  | 285.2  | 287.9  |
| 35°   | 3608.9 | 1487.7 | 396.3  | 326.3  | 290.7  | 268.7  | 263.3  | 264.6  | 268.7  | 274.2  | 277.0  |
| 37.5° | 3544.4 | 1282.0 | 360.6  | 298.9  | 266.0  | 250.9  | 245.4  | 248.2  | 257.8  | 267.4  | 268.7  |
| 40°   | 3549.9 | 1127.1 | 331.8  | 275.6  | 246.8  | 230.4  | 226.2  | 234.5  | 244.1  | 253.7  | 255.0  |
| 42.5° | 3610.2 | 1011.9 | 304.4  | 248.2  | 230.4  | 207.0  | 205.7  | 213.9  | 218.0  | 227.6  | 229.0  |
| 45°   | 3681.5 | 928.3  | 275.6  | 219.4  | 200.2  | 179.6  | 181.0  | 187.8  | 193.3  | 208.4  | 211.2  |
| 47.5° | 3703.5 | 870.7  | 242.7  | 186.5  | 164.5  | 157.7  | 159.1  | 163.2  | 174.1  | 187.8  | 189.2  |
| 50°   | 3728.1 | 835.0  | 211.2  | 157.7  | 139.9  | 138.5  | 139.9  | 142.6  | 149.5  | 154.9  | 153.6  |
| 52.5° | 3833.7 | 833.7  | 185.1  | 137.1  | 119.3  | 122.0  | 123.4  | 122.0  | 116.5  | 108.3  | 105.6  |
| 54°   | 3932.4 | 837.8  | 172.8  | 127.5  | 109.7  | 113.8  | 112.4  | 105.6  | 91.9   | 83.6   | 79.5   |
| 55°   | 4012.0 | 841.9  | 165.9  | 120.7  | 104.2  | 105.6  | 106.9  | 93.2   | 75.4   | 67.2   | 64.4   |
| 57.5° | 4168.3 | 832.3  | 149.5  | 105.6  | 91.9   | 86.4   | 85.0   | 61.7   | 41.1   | 35.6   | 32.9   |
| 60°   | 4090.1 | 751.4  | 135.7  | 90.5   | 78.2   | 69.9   | 57.6   | 34.3   | 20.6   | 15.1   | 15.1   |
| 62.5° | 3783.0 | 637.6  | 120.7  | 74.0   | 64.4   | 53.5   | 30.2   | 19.2   | 9.6    | 5.5    | 4.1    |
| 65°   | 3384.0 | 536.1  | 108.3  | 59.0   | 50.7   | 34.3   | 16.5   | 12.3   | 4.1    | 0.0    | 0.0    |
| 67.5° | 2516.1 | 397.6  | 91.9   | 46.6   | 38.4   | 21.9   | 11.0   | 6.9    | 1.4    | 0.0    | 0.0    |
| 70°   | 1165.5 | 242.7  | 78.2   | 35.6   | 27.4   | 16.5   | 8.2    | 4.1    | 0.0    | 0.0    | 0.0    |
| 72.5° | 334.6  | 152.2  | 64.4   | 26.1   | 19.2   | 13.7   | 6.9    | 2.7    | 1.4    | 0.0    | 0.0    |
| 75°   | 116.5  | 122.0  | 48.0   | 19.2   | 15.1   | 9.6    | 5.5    | 2.7    | 1.4    | 0.0    | 0.0    |
| 77.5° | 69.9   | 98.7   | 30.2   | 16.5   | 12.3   | 8.2    | 5.5    | 2.7    | 1.4    | 1.4    | 0.0    |
| 80°   | 39.8   | 65.8   | 19.2   | 13.7   | 11.0   | 6.9    | 4.1    | 2.7    | 1.4    | 1.4    | 0.0    |
| 82.5° | 21.9   | 31.5   | 15.1   | 12.3   | 9.6    | 6.9    | 4.1    | 2.7    | 1.4    | 1.4    | 1.4    |
| 85°   | 17.8   | 16.5   | 12.3   | 11.0   | 8.2    | 5.5    | 4.1    | 1.4    | 0.0    | 0.0    | 0.0    |
| 87.5° | 13.7   | 11.0   | 11.0   | 11.0   | 8.2    | 5.5    | 4.1    | 1.4    | 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    |

(END OF REPORT)