

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: P319529

Luminaire Tested: **GAN-SA5C-830-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA5C-830-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 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: 27519 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 279  
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

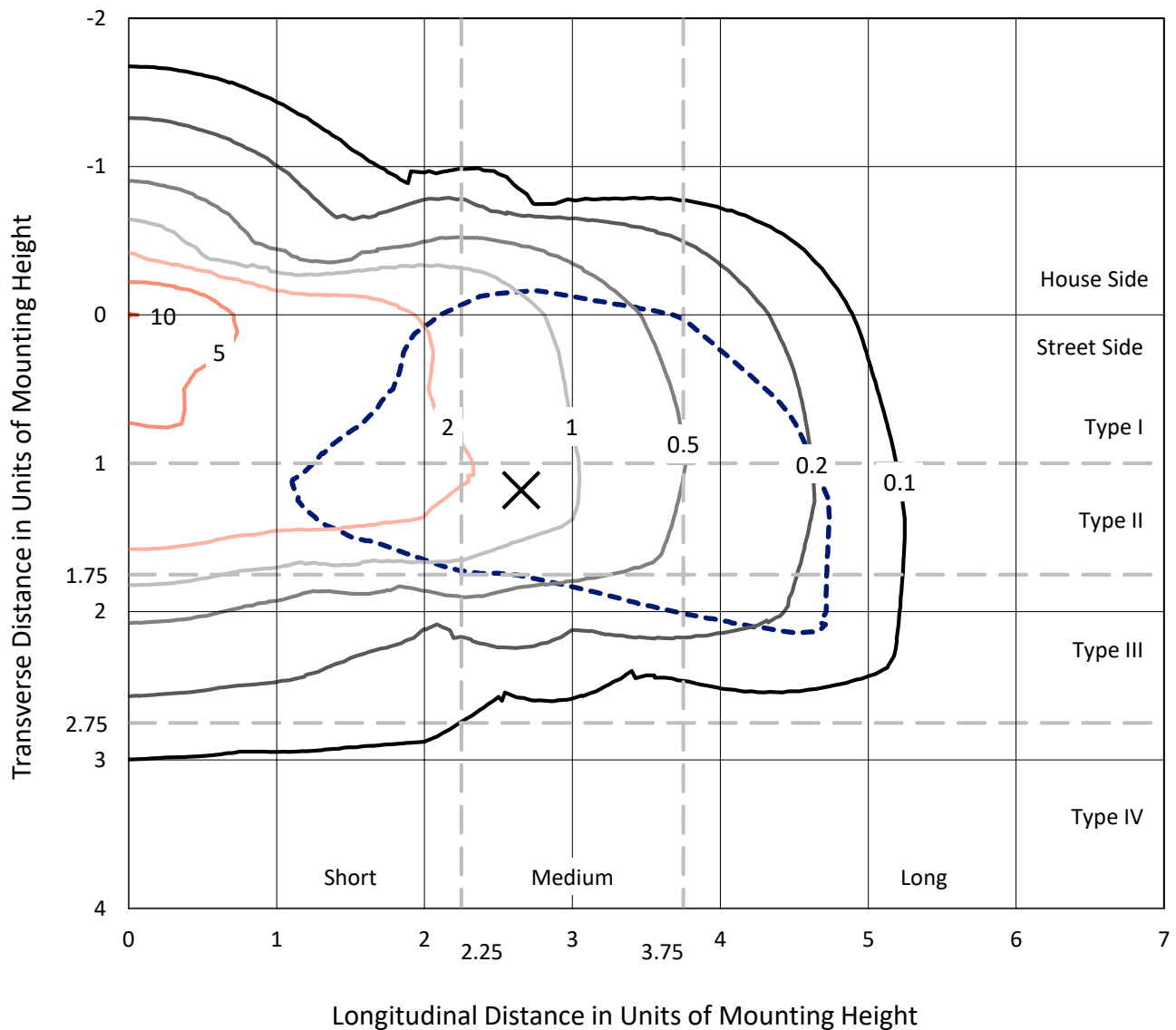


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## Iso-Footcandle Lines of Horizontal Illumination

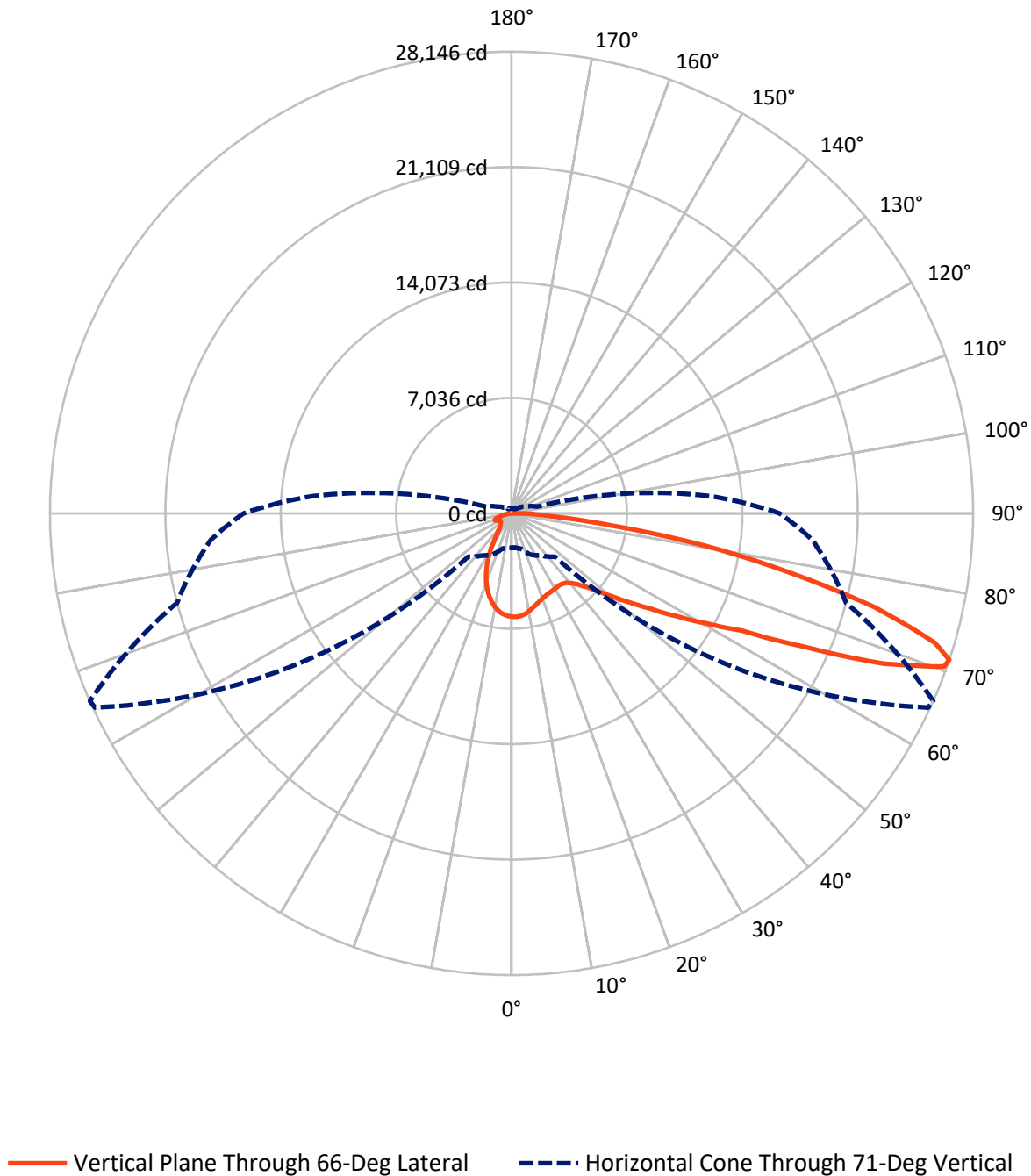
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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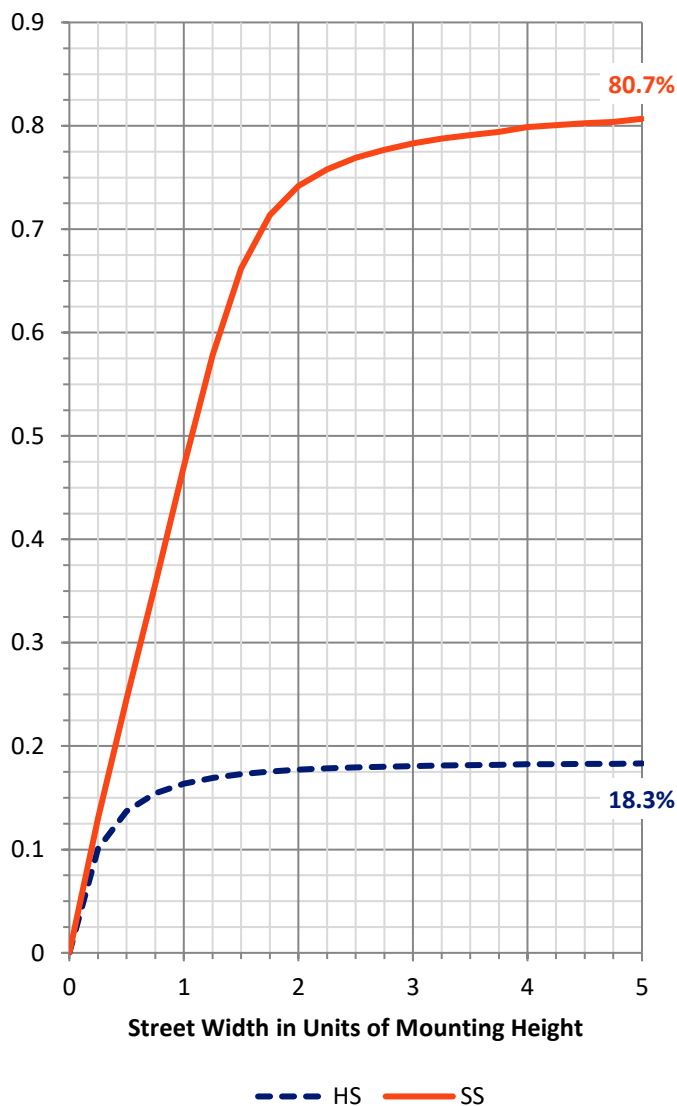
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5100.0   | 0.0    | 5100.0  |
|                    | % Fixture | 18.5     | 0.0    | 18.5    |
| <b>Street Side</b> | Lumens    | 22419.0  | 0.0    | 22419.0 |
|                    | % Fixture | 81.5     | 0.0    | 81.5    |
| <b>Total</b>       | Lumens    | 27519.0  | 0.0    | 27519.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 554.9   | 2.0       |
| 10°-20°   | 1330.9  | 4.8       |
| 20°-30°   | 1787.7  | 6.5       |
| 30°-40°   | 2351.8  | 8.5       |
| 40°-50°   | 3421.2  | 12.4      |
| 50°-60°   | 5344.3  | 19.4      |
| 60°-70°   | 6694.5  | 24.3      |
| 70°-80°   | 5106.4  | 18.6      |
| 80°-90°   | 927.3   | 3.4       |
| 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°    | 27519.0 | 100.0     |
| 0°-180°   | 27519.0 | 100.0     |

**Coefficient of Utilization**



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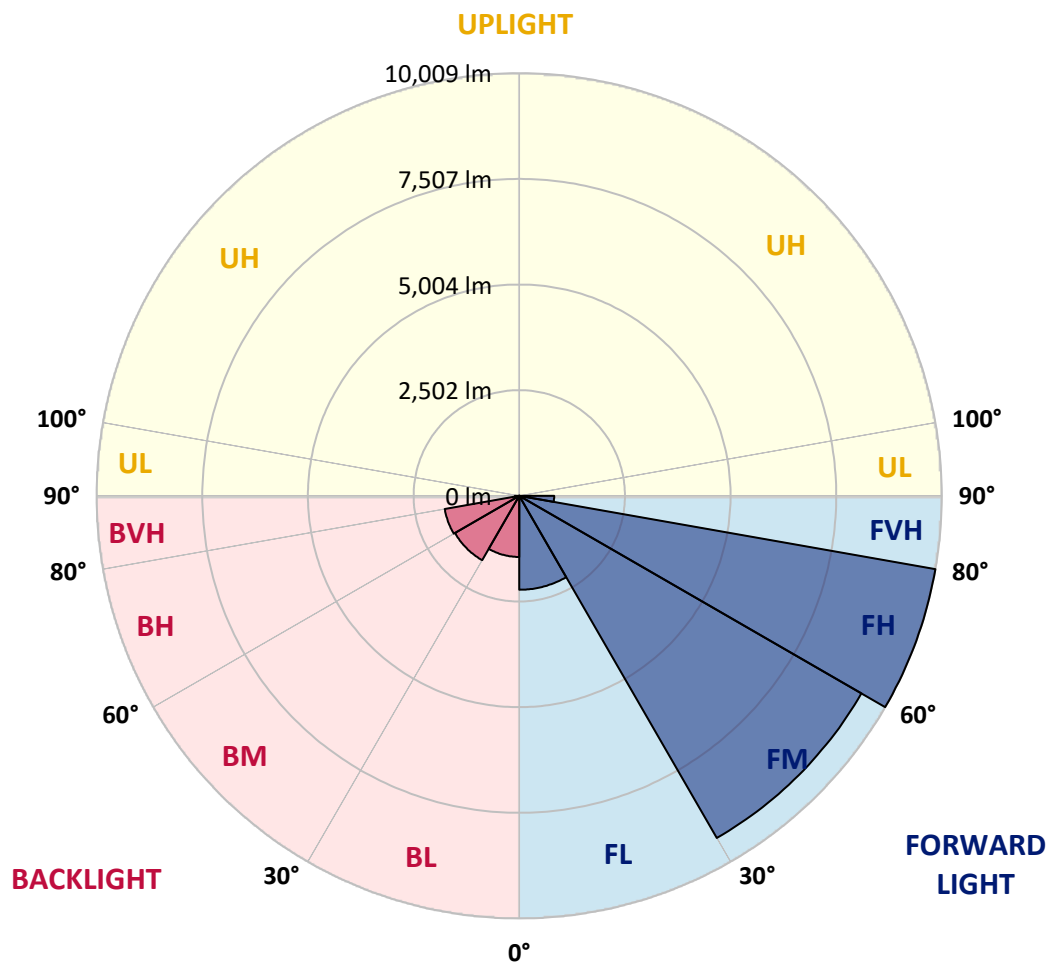
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2225.3  | 8.1       |                         |      |          |
| FM   | (30°-60°)   | 9357.8  | 34.0      |                         |      |          |
| FH   | (60°-80°)   | 10008.9 | 36.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 826.9   | 3.0       |                         |      | G5       |
| BL   | (0°-30°)    | 1448.3  | 5.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1759.3  | 6.4       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1792.0  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 100.4   | 0.4       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6304.1 | 6304.1 | 6304.1 | 6304.1  | 6304.1  | 6304.1  | 6304.1  | 6304.1  | 6304.1  | 6304.1  | 6304.1  |
| 2.5°  | 6187.2 | 6177.7 | 6206.2 | 6235.7  | 6247.1  | 6266.1  | 6294.6  | 6310.7  | 6309.8  | 6312.6  | 6303.1  |
| 5°    | 5776.8 | 5764.4 | 5821.4 | 5868.0  | 5957.3  | 6058.0  | 6180.6  | 6268.0  | 6269.9  | 6319.3  | 6332.6  |
| 7.5°  | 5388.2 | 5379.6 | 5445.2 | 5520.2  | 5623.8  | 5777.7  | 5976.3  | 6164.4  | 6175.8  | 6309.8  | 6356.3  |
| 10°   | 5076.5 | 5074.6 | 5138.3 | 5220.0  | 5340.6  | 5512.6  | 5740.6  | 6016.2  | 6033.3  | 6264.2  | 6360.1  |
| 12.5° | 4833.3 | 4837.1 | 4892.2 | 4985.3  | 5112.6  | 5292.2  | 5539.2  | 5849.9  | 5877.5  | 6192.0  | 6338.3  |
| 15°   | 4653.7 | 4668.9 | 4713.6 | 4807.6  | 4933.0  | 5115.5  | 5369.1  | 5696.0  | 5737.8  | 6111.2  | 6325.9  |
| 17.5° | 4551.1 | 4568.2 | 4599.5 | 4677.5  | 4795.3  | 4971.0  | 5211.4  | 5569.6  | 5607.6  | 6049.4  | 6326.9  |
| 20°   | 4520.7 | 4534.9 | 4553.0 | 4600.5  | 4700.3  | 4859.9  | 5087.0  | 5455.6  | 5496.5  | 6000.0  | 6336.4  |
| 22.5° | 4580.5 | 4591.0 | 4592.9 | 4589.1  | 4649.9  | 4780.1  | 4996.7  | 5372.0  | 5415.7  | 5967.7  | 6343.0  |
| 25°   | 4708.8 | 4723.1 | 4712.6 | 4677.5  | 4657.5  | 4737.3  | 4950.1  | 5316.9  | 5360.6  | 5944.0  | 6329.7  |
| 27.5° | 4901.7 | 4903.6 | 4895.0 | 4849.4  | 4755.4  | 4742.1  | 4935.9  | 5284.6  | 5326.4  | 5916.4  | 6302.2  |
| 30°   | 5163.9 | 5176.3 | 5161.1 | 5099.3  | 4945.4  | 4818.1  | 4953.0  | 5253.2  | 5291.2  | 5881.3  | 6257.5  |
| 32.5° | 5470.8 | 5501.2 | 5500.3 | 5435.7  | 5215.2  | 4988.1  | 5023.3  | 5234.2  | 5263.7  | 5844.2  | 6203.4  |
| 35°   | 5789.1 | 5830.9 | 5908.8 | 5881.3  | 5608.6  | 5257.0  | 5158.2  | 5264.6  | 5284.6  | 5839.5  | 6165.4  |
| 37.5° | 6119.7 | 6161.6 | 6322.1 | 6396.2  | 6077.0  | 5641.8  | 5371.0  | 5372.0  | 5381.5  | 5897.4  | 6162.5  |
| 40°   | 6465.6 | 6510.2 | 6751.6 | 6944.5  | 6684.1  | 6129.2  | 5714.0  | 5596.2  | 5585.8  | 6039.9  | 6218.6  |
| 42.5° | 6950.2 | 6990.1 | 7279.8 | 7525.9  | 7357.8  | 6753.5  | 6188.2  | 5942.1  | 5920.2  | 6319.3  | 6398.1  |
| 45°   | 7563.0 | 7597.2 | 7905.0 | 8168.2  | 8081.8  | 7466.1  | 6783.9  | 6418.1  | 6414.3  | 6784.8  | 6762.0  |
| 47.5° | 8291.7 | 8318.3 | 8594.8 | 8849.5  | 8880.8  | 8286.0  | 7532.6  | 7152.5  | 7090.8  | 7423.3  | 7325.5  |
| 50°   | 9050.9 | 9080.3 | 9268.5 | 9542.1  | 9774.9  | 9383.4  | 8496.0  | 8052.3  | 7969.6  | 8266.1  | 8123.6  |
| 52.5° | 9553.5 | 9592.4 | 9755.9 | 10102.7 | 10780.1 | 10586.3 | 9635.2  | 9143.0  | 9017.6  | 9287.5  | 9178.2  |
| 55°   | 9329.3 | 9416.7 | 9666.6 | 10222.4 | 11583.9 | 12423.8 | 11040.4 | 10415.3 | 10273.7 | 10497.9 | 10433.3 |
| 57.5° | 8309.8 | 8429.5 | 8770.6 | 9628.6  | 11697.0 | 14042.8 | 13164.9 | 11913.6 | 11813.8 | 11749.2 | 11778.7 |
| 60°   | 6446.6 | 6561.6 | 6984.4 | 8102.7  | 10909.3 | 15224.8 | 16362.1 | 13760.6 | 13616.2 | 13005.3 | 13031.9 |
| 62.5° | 4562.5 | 4504.5 | 4794.3 | 5612.4  | 8864.7  | 15363.5 | 20000.1 | 16231.0 | 15755.9 | 14331.7 | 14214.8 |
| 65°   | 3479.4 | 3466.1 | 3596.2 | 3856.6  | 5369.1  | 13703.6 | 22167.3 | 20383.0 | 19641.0 | 15891.8 | 15616.2 |
| 67.5° | 2858.9 | 2835.2 | 2963.4 | 3342.5  | 3457.5  | 8840.9  | 22214.8 | 25200.1 | 24471.4 | 17833.8 | 17237.1 |
| 70°   | 2350.6 | 2324.0 | 2443.7 | 2933.0  | 3195.3  | 4483.6  | 18696.5 | 28021.0 | 27982.1 | 20292.7 | 18460.9 |
| 71°   | 2107.4 | 2088.4 | 2231.8 | 2775.3  | 3139.2  | 3736.8  | 16142.6 | 28028.6 | 28145.5 | 21125.0 | 18388.7 |
| 72.5° | 1715.9 | 1722.6 | 1874.6 | 2470.3  | 3097.4  | 3299.8  | 11864.2 | 26722.2 | 26969.3 | 21918.4 | 17732.2 |
| 75°   | 1140.1 | 1145.8 | 1345.4 | 1900.2  | 3003.3  | 3228.5  | 6520.7  | 22422.9 | 22877.1 | 21443.3 | 16180.6 |
| 77.5° | 765.8  | 763.9  | 899.8  | 1303.6  | 2616.6  | 3228.5  | 3823.3  | 16770.6 | 17269.4 | 17062.3 | 12474.2 |
| 80°   | 527.3  | 523.5  | 619.5  | 899.8   | 1981.0  | 3267.5  | 2955.8  | 11753.0 | 11904.1 | 9214.3  | 5069.9  |
| 82.5° | 323.0  | 325.9  | 404.8  | 635.6   | 1348.2  | 2940.6  | 2790.5  | 6408.6  | 6244.2  | 2584.3  | 1266.5  |
| 85°   | 185.3  | 184.3  | 258.4  | 430.4   | 865.6   | 2481.7  | 2721.2  | 2758.2  | 2530.2  | 778.2   | 458.0   |
| 87.5° | 66.5   | 71.3   | 138.7  | 238.5   | 496.0   | 1728.3  | 2308.8  | 1434.7  | 1293.1  | 351.5   | 207.1   |
| 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°    | 6304.1  | 6304.1  | 6304.1 | 6304.1 | 6304.1 | 6304.1 | 6304.1 | 6304.1 | 6304.1 | 6304.1 | 6304.1 |
| 2.5°  | 6296.5  | 6302.2  | 6295.5 | 6257.5 | 6225.2 | 6173.0 | 6143.5 | 6102.6 | 6090.3 | 6084.6 | 6099.8 |
| 5°    | 6320.2  | 6322.1  | 6266.1 | 6166.3 | 6054.2 | 5922.1 | 5827.1 | 5710.2 | 5655.1 | 5631.4 | 5646.6 |
| 7.5°  | 6342.1  | 6333.5  | 6211.0 | 6020.0 | 5812.9 | 5582.9 | 5378.6 | 5191.5 | 5082.2 | 5037.6 | 5041.4 |
| 10°   | 6344.9  | 6308.8  | 6112.1 | 5816.7 | 5495.5 | 5158.2 | 4844.7 | 4555.8 | 4373.4 | 4254.7 | 4290.8 |
| 12.5° | 6315.5  | 6254.7  | 5966.8 | 5553.5 | 5107.9 | 4648.0 | 4224.2 | 3791.0 | 3530.7 | 3410.0 | 3413.8 |
| 15°   | 6292.7  | 6182.5  | 5788.2 | 5243.7 | 4645.2 | 4036.1 | 3457.5 | 2948.2 | 2670.8 | 2547.3 | 2489.3 |
| 17.5° | 6273.7  | 6104.5  | 5581.0 | 4895.0 | 4098.8 | 3326.4 | 2630.9 | 2176.7 | 2024.7 | 1988.6 | 1973.4 |
| 20°   | 6247.1  | 6021.9  | 5350.1 | 4491.2 | 3476.5 | 2532.1 | 1921.1 | 1696.9 | 1697.9 | 1739.7 | 1745.4 |
| 22.5° | 6210.0  | 5927.8  | 5104.1 | 4038.0 | 2808.6 | 1844.2 | 1505.9 | 1441.3 | 1506.9 | 1586.7 | 1601.0 |
| 25°   | 6154.9  | 5816.7  | 4830.4 | 3537.3 | 2141.6 | 1417.6 | 1286.5 | 1283.6 | 1363.4 | 1447.0 | 1459.4 |
| 27.5° | 6077.0  | 5671.3  | 4526.4 | 2999.5 | 1578.2 | 1204.8 | 1152.5 | 1172.5 | 1231.4 | 1292.2 | 1296.9 |
| 30°   | 5972.5  | 5502.2  | 4191.0 | 2432.3 | 1237.1 | 1072.7 | 1067.0 | 1085.0 | 1121.1 | 1163.9 | 1167.7 |
| 32.5° | 5857.5  | 5330.2  | 3832.8 | 1883.1 | 1059.4 | 1001.4 | 1007.1 | 1015.7 | 1032.8 | 1049.9 | 1053.7 |
| 35°   | 5753.0  | 5154.4  | 3466.1 | 1430.9 | 974.8  | 954.9  | 951.1  | 949.2  | 951.1  | 945.4  | 946.3  |
| 37.5° | 5685.5  | 5009.1  | 3084.1 | 1139.2 | 926.4  | 914.0  | 902.6  | 888.4  | 872.2  | 862.7  | 864.6  |
| 40°   | 5660.8  | 4900.7  | 2697.4 | 984.3  | 886.5  | 877.9  | 856.1  | 825.7  | 806.7  | 801.0  | 801.0  |
| 42.5° | 5727.3  | 4844.7  | 2324.0 | 906.4  | 853.2  | 839.0  | 802.9  | 767.7  | 753.4  | 752.5  | 751.5  |
| 45°   | 5930.7  | 4867.5  | 1968.7 | 863.7  | 822.8  | 795.3  | 747.7  | 718.3  | 708.8  | 710.7  | 709.7  |
| 47.5° | 6295.5  | 5011.0  | 1664.6 | 835.2  | 792.4  | 756.3  | 703.1  | 679.3  | 667.9  | 667.9  | 668.9  |
| 50°   | 6915.9  | 5346.3  | 1422.3 | 811.4  | 766.7  | 720.2  | 670.8  | 641.3  | 626.1  | 625.2  | 625.2  |
| 52.5° | 7819.5  | 5946.8  | 1271.3 | 791.5  | 738.2  | 687.9  | 638.5  | 601.4  | 583.4  | 579.6  | 577.7  |
| 55°   | 8952.1  | 6807.6  | 1229.5 | 778.2  | 700.2  | 652.7  | 599.5  | 562.5  | 542.5  | 534.0  | 533.0  |
| 57.5° | 10218.6 | 7854.7  | 1312.1 | 762.0  | 661.3  | 610.9  | 556.8  | 521.6  | 500.7  | 490.3  | 489.3  |
| 60°   | 11500.3 | 8997.7  | 1649.4 | 739.2  | 629.0  | 565.3  | 513.1  | 480.8  | 459.9  | 448.5  | 446.6  |
| 62.5° | 12783.9 | 10202.4 | 2338.3 | 737.3  | 606.2  | 521.6  | 468.4  | 440.9  | 420.9  | 408.6  | 405.7  |
| 65°   | 14231.9 | 11521.2 | 3121.2 | 787.7  | 598.6  | 481.7  | 422.8  | 401.0  | 383.8  | 372.4  | 371.5  |
| 67.5° | 15894.6 | 13010.0 | 3046.1 | 891.2  | 624.2  | 445.6  | 380.0  | 362.9  | 350.6  | 341.1  | 340.1  |
| 70°   | 16674.7 | 12777.3 | 1893.6 | 964.4  | 660.3  | 410.5  | 339.2  | 326.8  | 317.3  | 310.7  | 307.8  |
| 71°   | 16347.8 | 12132.1 | 1587.7 | 955.8  | 656.5  | 395.3  | 323.0  | 313.5  | 304.0  | 298.3  | 295.5  |
| 72.5° | 15456.6 | 11064.2 | 1324.5 | 889.3  | 613.8  | 367.7  | 302.1  | 292.6  | 284.1  | 277.4  | 275.5  |
| 75°   | 13869.9 | 9881.3  | 1060.3 | 710.7  | 489.3  | 310.7  | 265.1  | 254.6  | 248.0  | 244.2  | 240.4  |
| 77.5° | 10195.8 | 7051.8  | 820.0  | 561.5  | 360.1  | 253.7  | 226.1  | 218.5  | 211.9  | 206.2  | 203.3  |
| 80°   | 3906.0  | 2731.6  | 552.0  | 419.0  | 264.1  | 200.5  | 182.4  | 178.6  | 172.0  | 168.2  | 168.2  |
| 82.5° | 1051.8  | 816.2   | 294.5  | 253.7  | 176.7  | 146.3  | 139.7  | 137.8  | 132.1  | 124.5  | 125.4  |
| 85°   | 425.7   | 360.1   | 165.3  | 139.7  | 108.3  | 86.5   | 94.1   | 95.0   | 88.4   | 78.9   | 79.8   |
| 87.5° | 187.2   | 153.0   | 92.2   | 61.8   | 47.5   | 33.3   | 42.8   | 42.8   | 39.0   | 32.3   | 29.5   |
| 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)