

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: P454216

Luminaire Tested: **GLAN-SA5B-740-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454216  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5B-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29161 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

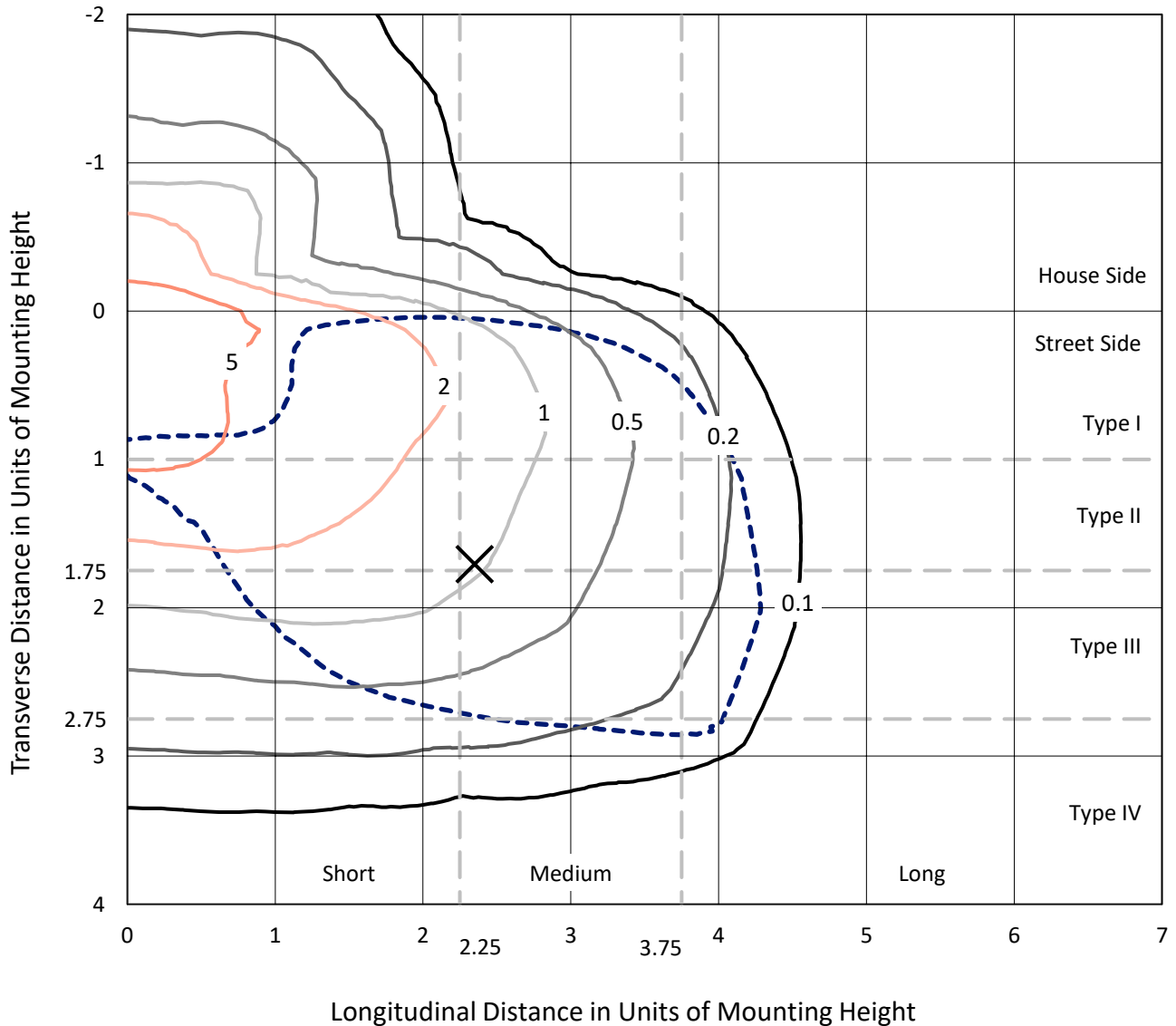
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

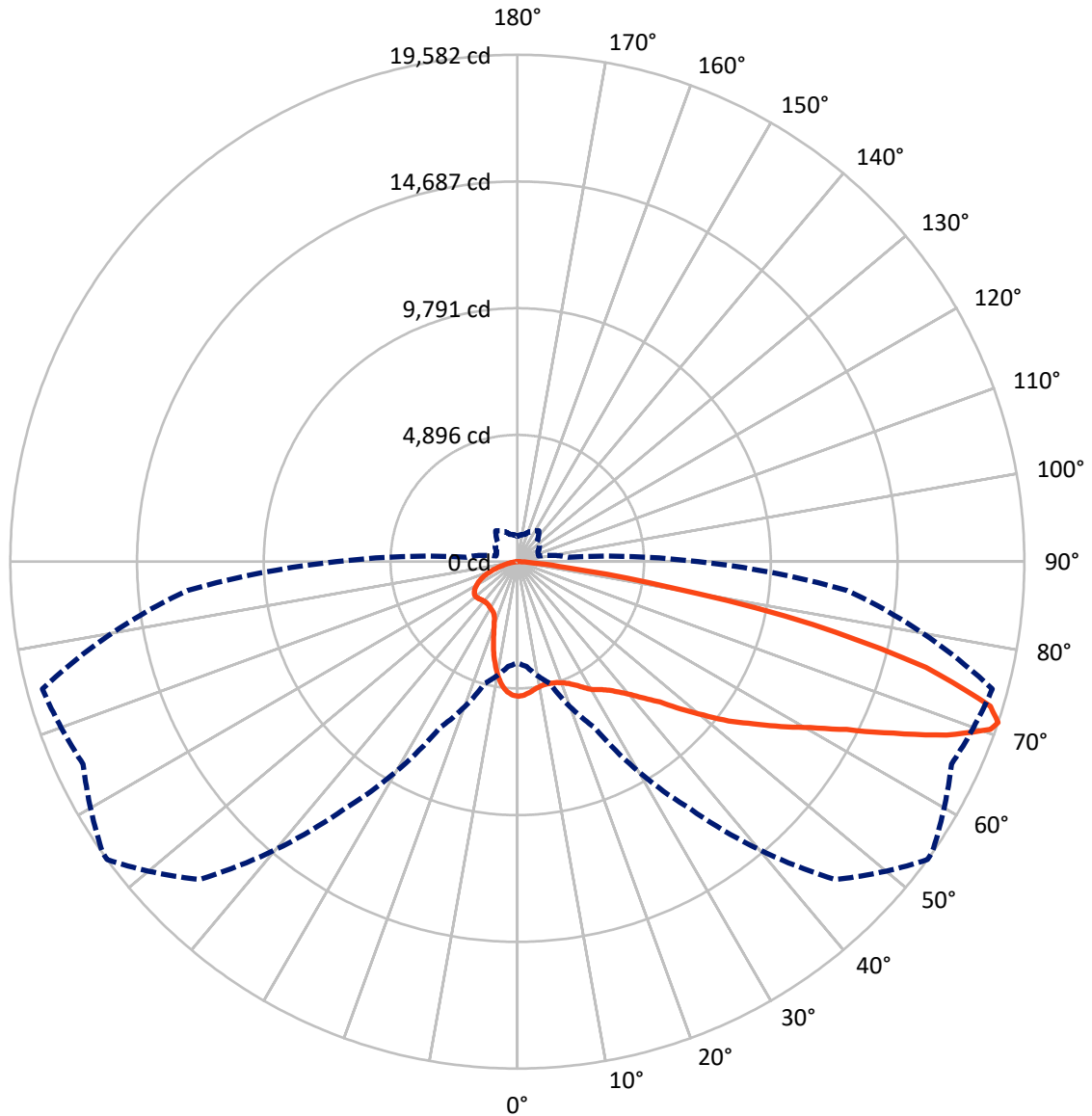
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5264.8   | 0.0    | 5264.8  |
|                    | % Fixture | 18.1     | 0.0    | 18.1    |
| <b>Street Side</b> | Lumens    | 23896.2  | 0.0    | 23896.2 |
|                    | % Fixture | 81.9     | 0.0    | 81.9    |
| <b>Total</b>       | Lumens    | 29161.0  | 0.0    | 29161.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 463.6   | 1.6       |
| 10°-20°   | 1224.3  | 4.2       |
| 20°-30°   | 2038.4  | 7.0       |
| 30°-40°   | 3014.2  | 10.3      |
| 40°-50°   | 4245.6  | 14.6      |
| 50°-60°   | 5685.0  | 19.5      |
| 60°-70°   | 7165.5  | 24.6      |
| 70°-80°   | 4894.0  | 16.8      |
| 80°-90°   | 430.4   | 1.5       |
| 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°    | 29161.0 | 100.0     |
| 0°-180°   | 29161.0 | 100.0     |

**Coefficient of Utilization**



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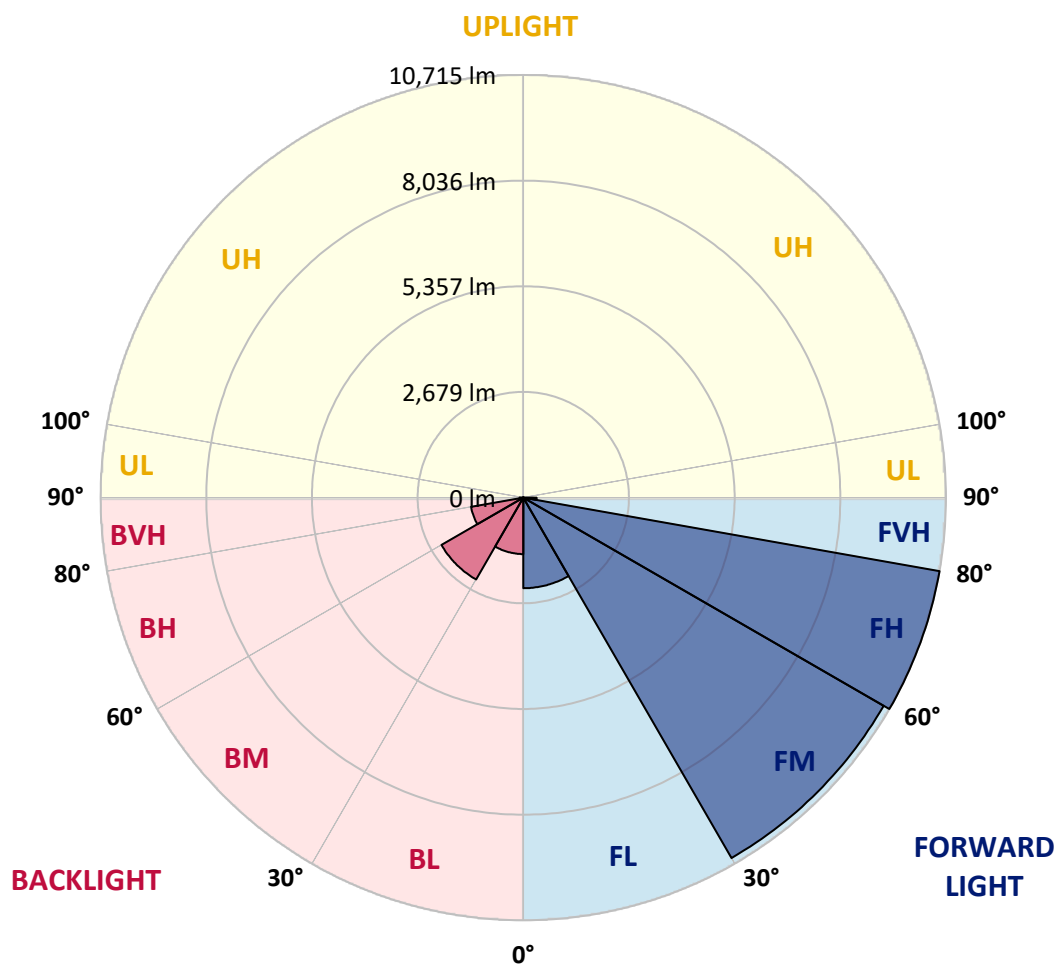
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2295.4  | 7.9       |                         |      |          |
| FM   | (30°-60°)   | 10549.4 | 36.2      |                         |      |          |
| FH   | (60°-80°)   | 10714.9 | 36.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 336.4   | 1.2       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1430.9  | 4.9       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2395.4  | 8.2       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 1344.6  | 4.6       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 94.0    | 0.3       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5202.8 | 5202.8 | 5202.8  | 5202.8  | 5202.8  | 5202.8  | 5202.8  | 5202.8  | 5202.8  | 5202.8  | 5202.8  |
| 2.5°  | 5026.3 | 5050.0 | 5056.3  | 5072.0  | 5105.1  | 5131.9  | 5158.6  | 5155.5  | 5193.3  | 5209.1  | 5223.2  |
| 5°    | 4802.7 | 4809.0 | 4832.6  | 4864.1  | 4922.4  | 4996.4  | 5068.9  | 5070.4  | 5163.4  | 5237.4  | 5273.6  |
| 7.5°  | 4638.8 | 4659.3 | 4675.1  | 4708.2  | 4769.6  | 4849.9  | 4964.9  | 4974.4  | 5139.7  | 5286.2  | 5363.4  |
| 10°   | 4531.7 | 4555.4 | 4572.7  | 4613.6  | 4675.1  | 4764.9  | 4889.3  | 4906.6  | 5122.4  | 5363.4  | 5498.9  |
| 12.5° | 4434.1 | 4457.7 | 4473.5  | 4527.0  | 4607.3  | 4717.6  | 4857.8  | 4878.3  | 5128.7  | 5453.2  | 5646.9  |
| 15°   | 4493.9 | 4512.8 | 4506.5  | 4522.3  | 4575.8  | 4701.9  | 4870.4  | 4890.9  | 5152.3  | 5539.8  | 5793.4  |
| 17.5° | 4760.1 | 4775.9 | 4723.9  | 4664.0  | 4638.8  | 4731.8  | 4909.8  | 4931.8  | 5199.6  | 5629.6  | 5943.1  |
| 20°   | 5152.3 | 5194.9 | 5081.5  | 4947.6  | 4826.3  | 4838.9  | 4991.7  | 5015.3  | 5265.8  | 5719.4  | 6095.9  |
| 22.5° | 5662.7 | 5694.2 | 5555.6  | 5335.1  | 5111.4  | 4996.4  | 5114.5  | 5128.7  | 5365.0  | 5836.0  | 6262.8  |
| 25°   | 6262.8 | 6281.7 | 6089.6  | 5806.0  | 5483.1  | 5265.8  | 5283.1  | 5308.3  | 5528.8  | 5968.3  | 6410.9  |
| 27.5° | 6845.6 | 6905.5 | 6683.4  | 6336.9  | 5911.6  | 5549.3  | 5514.6  | 5530.4  | 5706.8  | 6042.3  | 6513.3  |
| 30°   | 7537.1 | 7532.4 | 7297.7  | 6896.1  | 6351.0  | 5858.0  | 5733.6  | 5730.4  | 5802.9  | 6078.5  | 6587.3  |
| 32.5° | 8088.4 | 8153.0 | 7923.1  | 7485.2  | 6853.5  | 6177.8  | 5884.8  | 5878.5  | 5876.9  | 6141.5  | 6697.6  |
| 35°   | 8715.4 | 8724.8 | 8513.7  | 8072.7  | 7397.0  | 6579.4  | 6095.9  | 6064.4  | 6028.1  | 6277.0  | 6847.2  |
| 37.5° | 9276.1 | 9320.2 | 9126.5  | 8631.9  | 7930.9  | 6996.9  | 6385.7  | 6365.2  | 6255.0  | 6511.7  | 7086.6  |
| 40°   | 9714.0 | 9747.1 | 9630.5  | 9159.6  | 8457.0  | 7447.4  | 6754.3  | 6716.5  | 6582.6  | 6896.1  | 7406.4  |
| 42.5° | 9857.4 | 9925.1 | 9970.8  | 9739.2  | 9061.9  | 7981.3  | 7207.9  | 7160.7  | 7058.3  | 7478.9  | 7775.0  |
| 45°   | 9868.4 | 9975.5 | 10216.5 | 10227.5 | 9669.9  | 8620.9  | 7737.2  | 7704.1  | 7696.2  | 8225.5  | 8293.2  |
| 47.5° | 9784.9 | 9893.6 | 10298.4 | 10517.3 | 10211.8 | 9266.7  | 8501.1  | 8449.2  | 8453.9  | 9148.5  | 8874.5  |
| 50°   | 9583.3 | 9712.4 | 10203.9 | 10703.2 | 10635.5 | 9937.7  | 9307.6  | 9290.3  | 9388.0  | 10202.3 | 9477.7  |
| 52.5° | 9203.7 | 9359.6 | 10106.2 | 10819.8 | 10950.5 | 10515.8 | 10224.4 | 10175.5 | 10422.8 | 11345.9 | 10137.7 |
| 55°   | 8153.0 | 8387.7 | 9748.7  | 10884.4 | 11249.8 | 11068.7 | 11049.7 | 11138.0 | 11465.6 | 12593.4 | 10863.9 |
| 57.5° | 7604.9 | 7781.3 | 8972.1  | 10895.4 | 11627.8 | 11711.3 | 12013.7 | 12035.8 | 12609.2 | 13918.1 | 11684.5 |
| 60°   | 7305.6 | 7461.5 | 8546.8  | 10822.9 | 12155.5 | 12506.8 | 12999.8 | 13078.6 | 13725.9 | 15353.1 | 12535.1 |
| 62.5° | 7044.1 | 7178.0 | 8291.6  | 10572.5 | 12750.9 | 13686.6 | 14277.3 | 14315.1 | 14994.0 | 16937.7 | 13374.7 |
| 65°   | 6428.2 | 6581.0 | 7778.1  | 10322.0 | 13264.4 | 15160.9 | 15972.1 | 15928.0 | 16343.9 | 18304.9 | 13900.8 |
| 67.5° | 5598.1 | 5791.9 | 6818.9  | 9457.3  | 13518.0 | 16772.3 | 17881.2 | 17826.1 | 17676.4 | 19201.2 | 14052.0 |
| 70°   | 4538.0 | 4642.0 | 5591.8  | 7962.4  | 12505.2 | 17618.2 | 19388.6 | 19330.4 | 18501.8 | 19319.3 | 13336.9 |
| 71°   | 3904.8 | 4067.1 | 4868.8  | 7072.5  | 11662.5 | 17359.8 | 19582.4 | 19566.6 | 18503.4 | 18993.3 | 12798.2 |
| 72.5° | 3047.9 | 3147.2 | 3856.0  | 5480.0  | 9912.5  | 15891.8 | 19103.5 | 19163.4 | 18101.7 | 18087.6 | 11687.7 |
| 75°   | 1928.0 | 1972.1 | 2419.4  | 3225.9  | 5439.0  | 11254.5 | 16307.6 | 16469.9 | 16072.9 | 14804.9 | 8691.7  |
| 77.5° | 1119.9 | 1176.6 | 1449.1  | 1901.2  | 2350.1  | 6108.5  | 11668.8 | 11845.2 | 11167.9 | 8151.5  | 3558.3  |
| 80°   | 652.1  | 715.1  | 954.5   | 1104.2  | 1079.0  | 2266.7  | 5941.5  | 6242.4  | 4835.7  | 2058.7  | 998.7   |
| 82.5° | 362.3  | 404.8  | 671.0   | 672.6   | 574.9   | 740.3   | 1869.7  | 1956.3  | 1379.8  | 830.1   | 408.0   |
| 85°   | 263.1  | 297.7  | 433.2   | 392.2   | 275.7   | 318.2   | 650.5   | 682.0   | 557.6   | 349.7   | 132.3   |
| 87.5° | 92.9   | 132.3  | 237.8   | 189.0   | 75.6    | 66.2    | 187.4   | 152.8   | 141.8   | 97.7    | 29.9    |
| 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°    | 5202.8 | 5202.8 | 5202.8 | 5202.8 | 5202.8 | 5202.8 | 5202.8 | 5202.8 | 5202.8 | 5202.8 | 5202.8 |
| 2.5°  | 5231.1 | 5234.3 | 5218.5 | 5190.2 | 5161.8 | 5125.6 | 5084.6 | 5053.1 | 5038.9 | 5037.4 | 5035.8 |
| 5°    | 5287.8 | 5295.7 | 5235.8 | 5147.6 | 5050.0 | 4930.3 | 4827.9 | 4711.3 | 4681.4 | 4634.1 | 4648.3 |
| 7.5°  | 5379.2 | 5374.4 | 5256.3 | 5068.9 | 4840.5 | 4586.9 | 4372.6 | 4248.2 | 4119.0 | 4082.8 | 4084.4 |
| 10°   | 5509.9 | 5480.0 | 5256.3 | 4908.2 | 4527.0 | 4150.5 | 3851.3 | 3662.2 | 3559.9 | 3474.8 | 3443.3 |
| 12.5° | 5648.5 | 5572.9 | 5205.9 | 4683.0 | 4123.8 | 3662.2 | 3340.9 | 3085.7 | 3019.6 | 2950.3 | 2951.9 |
| 15°   | 5780.8 | 5654.8 | 5106.7 | 4366.3 | 3689.0 | 3140.9 | 2829.0 | 2676.2 | 2655.7 | 2663.6 | 2662.0 |
| 17.5° | 5900.6 | 5713.1 | 4955.5 | 4013.5 | 3181.8 | 2693.5 | 2528.1 | 2539.2 | 2594.3 | 2633.7 | 2638.4 |
| 20°   | 6021.8 | 5747.8 | 4730.2 | 3541.0 | 2703.0 | 2422.6 | 2428.9 | 2515.5 | 2599.0 | 2652.6 | 2660.4 |
| 22.5° | 6136.8 | 5763.5 | 4465.6 | 3084.2 | 2356.4 | 2307.6 | 2400.5 | 2493.5 | 2575.4 | 2627.4 | 2635.2 |
| 25°   | 6212.4 | 5727.3 | 4090.7 | 2606.9 | 2186.3 | 2266.7 | 2364.3 | 2443.1 | 2512.4 | 2565.9 | 2578.5 |
| 27.5° | 6232.9 | 5610.7 | 3626.0 | 2221.0 | 2107.6 | 2227.3 | 2317.1 | 2375.3 | 2428.9 | 2479.3 | 2488.8 |
| 30°   | 6221.9 | 5439.0 | 3115.7 | 1994.2 | 2061.9 | 2181.6 | 2250.9 | 2293.4 | 2358.0 | 2397.4 | 2405.3 |
| 32.5° | 6204.6 | 5239.0 | 2583.3 | 1872.9 | 2024.1 | 2139.1 | 2180.0 | 2217.8 | 2216.3 | 2200.5 | 2211.5 |
| 35°   | 6210.9 | 4999.6 | 2151.7 | 1800.4 | 1991.0 | 2107.6 | 2142.2 | 2095.0 | 1959.5 | 1953.2 | 1946.9 |
| 37.5° | 6243.9 | 4763.3 | 1838.2 | 1750.0 | 1973.7 | 2102.8 | 2121.7 | 1904.4 | 1784.7 | 1729.5 | 1715.3 |
| 40°   | 6329.0 | 4487.6 | 1631.9 | 1712.2 | 1972.1 | 2139.1 | 2028.8 | 1808.3 | 1578.3 | 1471.2 | 1463.3 |
| 42.5° | 6442.4 | 4216.7 | 1505.9 | 1688.6 | 1991.0 | 2194.2 | 1991.0 | 1672.8 | 1422.4 | 1359.4 | 1349.9 |
| 45°   | 6610.9 | 3906.4 | 1436.5 | 1677.5 | 2019.4 | 2214.7 | 1978.4 | 1573.6 | 1359.4 | 1309.0 | 1309.0 |
| 47.5° | 6801.5 | 3610.3 | 1398.7 | 1669.7 | 2055.6 | 2200.5 | 1866.6 | 1542.1 | 1329.4 | 1335.7 | 1365.7 |
| 50°   | 6990.6 | 3353.5 | 1370.4 | 1652.3 | 2087.1 | 2192.6 | 1820.9 | 1540.5 | 1337.3 | 1417.6 | 1471.2 |
| 52.5° | 7209.5 | 3172.4 | 1335.7 | 1624.0 | 2087.1 | 2142.2 | 1806.7 | 1572.0 | 1359.4 | 1383.0 | 1406.6 |
| 55°   | 7474.1 | 3115.7 | 1291.6 | 1562.6 | 2049.3 | 2016.2 | 1798.8 | 1617.7 | 1375.1 | 1320.0 | 1329.4 |
| 57.5° | 7823.8 | 3207.0 | 1249.1 | 1485.4 | 1962.6 | 1885.5 | 1795.7 | 1630.3 | 1338.9 | 1293.2 | 1283.8 |
| 60°   | 8230.2 | 3388.2 | 1236.5 | 1406.6 | 1844.5 | 1773.6 | 1776.8 | 1594.1 | 1288.5 | 1241.2 | 1249.1 |
| 62.5° | 8515.3 | 3496.9 | 1228.6 | 1346.8 | 1715.3 | 1650.8 | 1731.1 | 1550.0 | 1266.4 | 1225.5 | 1233.4 |
| 65°   | 8515.3 | 3364.5 | 1156.2 | 1255.4 | 1548.4 | 1502.7 | 1676.0 | 1494.8 | 1238.1 | 1190.8 | 1182.9 |
| 67.5° | 8192.4 | 2978.6 | 1045.9 | 1118.4 | 1364.1 | 1334.2 | 1598.8 | 1428.7 | 1195.5 | 1159.3 | 1140.4 |
| 70°   | 7351.3 | 2258.8 | 907.3  | 957.7  | 1131.0 | 1157.7 | 1499.6 | 1338.9 | 1124.7 | 1080.6 | 1052.2 |
| 71°   | 6981.1 | 1967.4 | 849.0  | 875.8  | 1041.2 | 1080.6 | 1452.3 | 1301.1 | 1093.2 | 1030.2 | 979.7  |
| 72.5° | 6267.6 | 1657.1 | 760.8  | 771.8  | 890.0  | 960.8  | 1353.1 | 1228.6 | 1033.3 | 943.5  | 886.8  |
| 75°   | 4761.7 | 1209.7 | 612.7  | 606.4  | 658.4  | 762.4  | 1145.1 | 1094.7 | 905.7  | 784.4  | 751.4  |
| 77.5° | 2057.2 | 658.4  | 458.4  | 463.1  | 447.3  | 578.1  | 901.0  | 940.4  | 776.6  | 637.9  | 608.0  |
| 80°   | 623.8  | 379.6  | 313.5  | 319.8  | 299.3  | 387.5  | 634.8  | 737.2  | 623.8  | 496.2  | 455.2  |
| 82.5° | 319.8  | 226.8  | 214.2  | 211.1  | 190.6  | 218.9  | 384.3  | 504.1  | 445.8  | 310.3  | 274.1  |
| 85°   | 138.6  | 121.3  | 105.5  | 102.4  | 89.8   | 78.8   | 137.0  | 252.0  | 236.3  | 173.3  | 165.4  |
| 87.5° | 34.7   | 31.5   | 20.5   | 18.9   | 11.0   | 1.6    | 0.0    | 0.0    | 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)