

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: P456911

Luminaire Tested: **GLAN-SA8B-722-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456911  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8B-722-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33496 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 325  
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

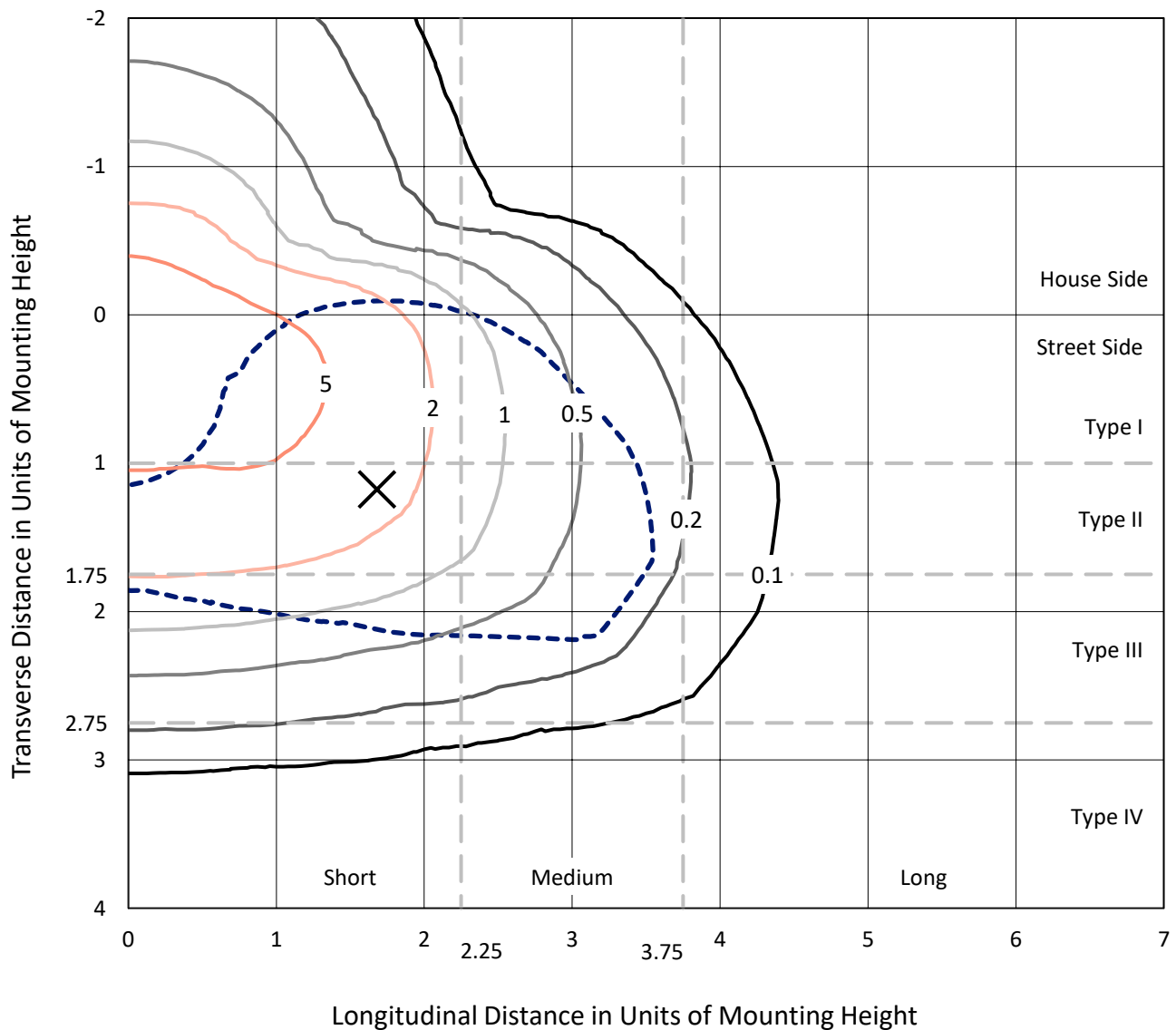


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

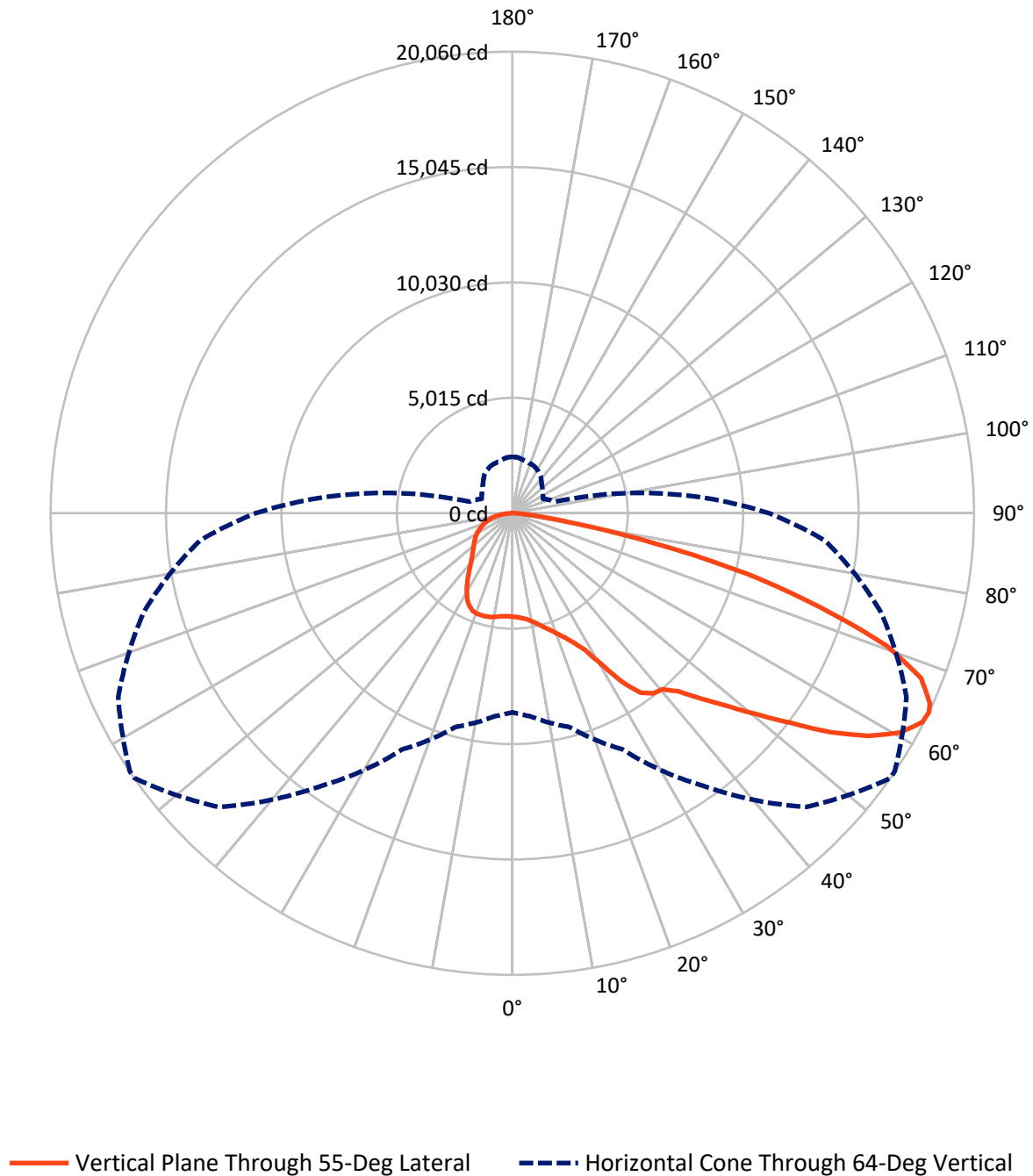


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc  
 Type III - Short - N/A

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## Luminous Intensity Polar Plot



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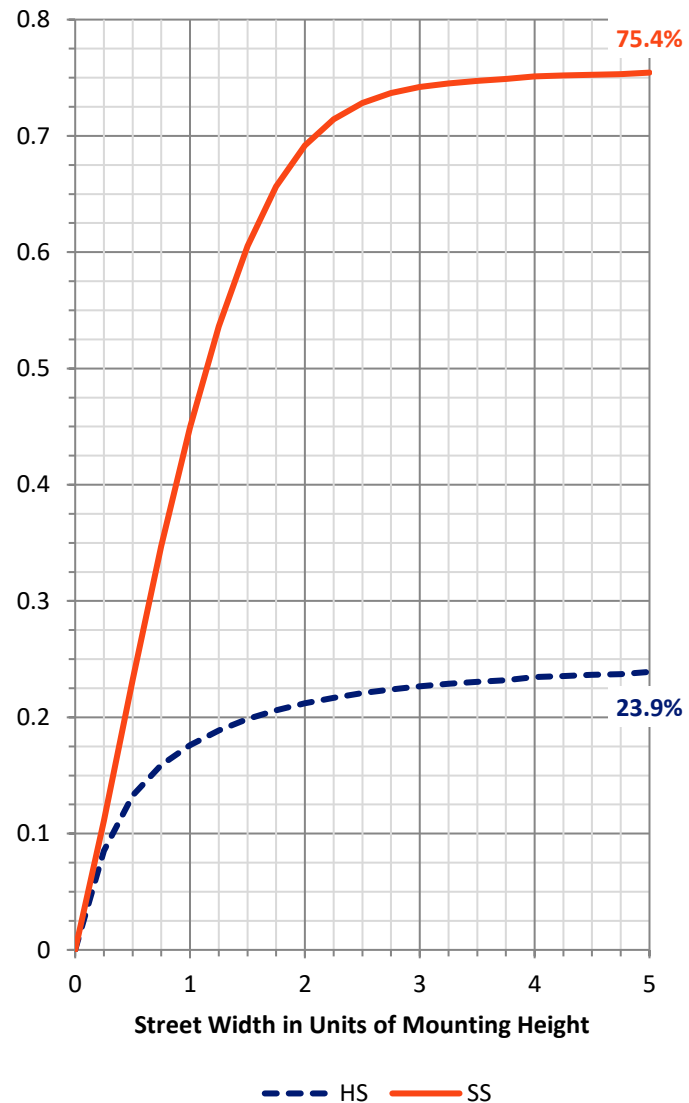
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8136.8   | 0.0    | 8136.8  |
|                    | % Fixture | 24.3     | 0.0    | 24.3    |
| <b>Street Side</b> | Lumens    | 25359.2  | 0.0    | 25359.2 |
|                    | % Fixture | 75.7     | 0.0    | 75.7    |
| <b>Total</b>       | Lumens    | 33496.0  | 0.0    | 33496.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 437.2   | 1.3       |
| 10°-20°   | 1379.4  | 4.1       |
| 20°-30°   | 2455.7  | 7.3       |
| 30°-40°   | 3778.3  | 11.3      |
| 40°-50°   | 5356.0  | 16.0      |
| 50°-60°   | 7752.7  | 23.1      |
| 60°-70°   | 8023.2  | 24.0      |
| 70°-80°   | 3757.3  | 11.2      |
| 80°-90°   | 556.2   | 1.7       |
| 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°    | 33496.0 | 100.0     |
| 0°-180°   | 33496.0 | 100.0     |

**Coefficient of Utilization**



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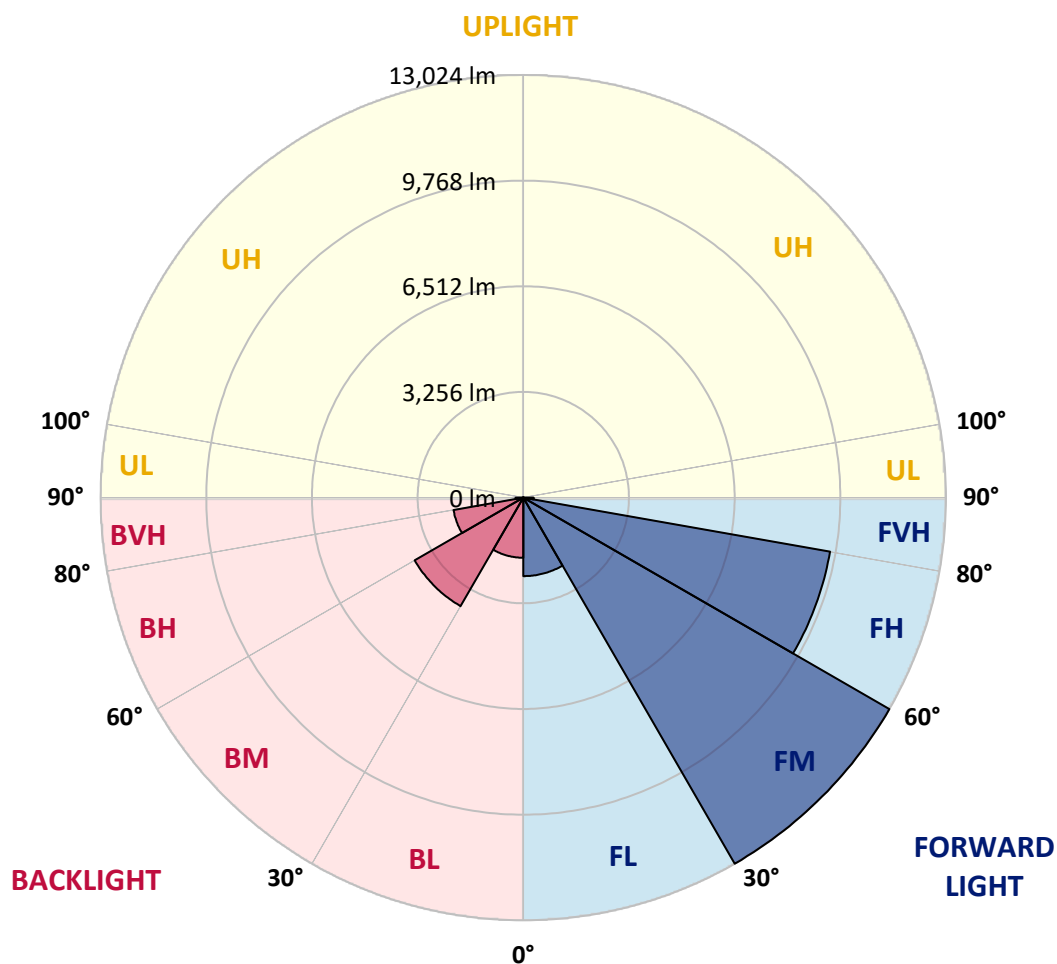
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2418.9  | 7.2       |                         |      |          |
| FM   | (30°-60°)   | 13024.2 | 38.9      |                         |      |          |
| FH   | (60°-80°)   | 9597.6  | 28.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 318.5   | 1.0       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1853.3  | 5.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3862.9  | 11.5      | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2183.0  | 6.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 237.7   | 0.7       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 56°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4494.2  | 4494.2  | 4494.2  | 4494.2  | 4494.2  | 4494.2  | 4494.2  | 4494.2  | 4494.2  | 4494.2  | 4494.2  |
| 2.5°  | 4544.6  | 4542.7  | 4548.3  | 4542.7  | 4546.4  | 4533.4  | 4527.8  | 4531.5  | 4525.9  | 4516.6  | 4499.8  |
| 5°    | 4600.6  | 4598.7  | 4600.6  | 4593.1  | 4596.8  | 4589.4  | 4576.3  | 4580.0  | 4570.7  | 4550.2  | 4525.9  |
| 7.5°  | 4695.8  | 4688.3  | 4688.3  | 4686.5  | 4679.0  | 4667.8  | 4658.5  | 4654.7  | 4645.4  | 4619.2  | 4581.9  |
| 10°   | 4819.0  | 4819.0  | 4820.9  | 4806.0  | 4815.3  | 4794.8  | 4785.4  | 4783.6  | 4751.8  | 4718.2  | 4665.9  |
| 12.5° | 4981.5  | 4990.8  | 4985.2  | 4977.7  | 4974.0  | 4966.5  | 4934.8  | 4942.3  | 4906.8  | 4848.9  | 4785.4  |
| 15°   | 5183.1  | 5198.1  | 5188.7  | 5185.0  | 5175.7  | 5147.6  | 5134.6  | 5129.0  | 5082.3  | 4998.3  | 4914.3  |
| 17.5° | 5450.1  | 5431.4  | 5424.0  | 5414.6  | 5375.4  | 5354.9  | 5332.5  | 5328.8  | 5287.7  | 5188.7  | 5058.0  |
| 20°   | 5683.5  | 5709.6  | 5694.7  | 5685.4  | 5646.2  | 5607.0  | 5590.2  | 5584.5  | 5549.1  | 5440.8  | 5231.7  |
| 22.5° | 5961.7  | 5967.3  | 5972.9  | 5950.5  | 5931.8  | 5902.0  | 5872.1  | 5862.7  | 5849.7  | 5737.7  | 5481.9  |
| 25°   | 6258.6  | 6281.0  | 6262.3  | 6239.9  | 6217.5  | 6215.6  | 6243.6  | 6239.9  | 6234.3  | 6126.0  | 5814.2  |
| 27.5° | 6742.2  | 6762.7  | 6768.3  | 6744.0  | 6658.1  | 6665.6  | 6729.1  | 6749.6  | 6835.5  | 6656.3  | 6241.8  |
| 30°   | 7014.8  | 7035.3  | 7082.0  | 7173.5  | 7309.8  | 7429.3  | 7582.4  | 7629.0  | 7711.2  | 7373.2  | 6749.6  |
| 32.5° | 7182.8  | 7190.3  | 7274.3  | 7444.2  | 7853.1  | 8299.3  | 8715.7  | 8732.5  | 8784.8  | 8310.5  | 7214.5  |
| 35°   | 7447.9  | 7453.5  | 7520.7  | 7707.5  | 8187.3  | 8930.4  | 9574.6  | 9595.1  | 9552.2  | 8601.8  | 7431.1  |
| 37.5° | 7774.7  | 7789.6  | 7832.6  | 7987.5  | 8560.7  | 9458.8  | 9931.2  | 9916.3  | 9535.4  | 8833.3  | 7813.9  |
| 40°   | 8250.8  | 8250.8  | 8200.4  | 8409.5  | 8954.7  | 9761.3  | 10056.3 | 10030.2 | 9929.3  | 9503.6  | 8396.4  |
| 42.5° | 8670.9  | 8663.4  | 8782.9  | 8924.8  | 9447.6  | 10228.1 | 10581.0 | 10623.9 | 10790.1 | 10345.7 | 9059.3  |
| 45°   | 9218.0  | 9251.6  | 9318.8  | 9576.4  | 10286.0 | 11025.3 | 11480.9 | 11522.0 | 11757.2 | 11337.1 | 9834.1  |
| 47.5° | 9770.6  | 9781.8  | 9992.8  | 10336.4 | 11324.1 | 12106.4 | 12479.8 | 12547.0 | 12761.7 | 12496.6 | 10668.7 |
| 50°   | 10162.7 | 10269.1 | 10607.1 | 11148.6 | 12393.9 | 13424.6 | 13715.8 | 13796.1 | 14175.2 | 13758.8 | 11641.5 |
| 52.5° | 10577.2 | 10681.8 | 11094.4 | 11919.7 | 13622.5 | 14772.6 | 15131.1 | 15185.3 | 15579.2 | 15035.9 | 12636.7 |
| 55°   | 10932.0 | 11029.1 | 11497.7 | 12603.0 | 14600.9 | 16148.7 | 16798.5 | 16735.0 | 16923.6 | 16019.9 | 13404.0 |
| 57.5° | 10989.9 | 11068.3 | 11658.3 | 13039.9 | 15336.5 | 17328.7 | 18260.4 | 18297.8 | 18079.3 | 16755.5 | 14037.0 |
| 60°   | 10541.7 | 10702.3 | 11380.1 | 12993.3 | 15667.0 | 18150.3 | 19350.8 | 19376.9 | 18757.1 | 17132.7 | 14289.1 |
| 62.5° | 9748.2  | 9731.4  | 10551.1 | 12242.7 | 15203.9 | 18337.0 | 19993.1 | 19965.1 | 19022.2 | 16951.6 | 14044.5 |
| 64°   | 8652.2  | 8853.9  | 9619.4  | 11320.3 | 14457.1 | 18049.4 | 20060.3 | 20045.4 | 18895.2 | 16574.4 | 13628.1 |
| 65°   | 7983.8  | 7972.6  | 8728.8  | 10566.0 | 13714.0 | 17616.3 | 19940.8 | 19920.3 | 18630.1 | 16236.5 | 13305.1 |
| 67.5° | 5763.8  | 5789.9  | 6536.8  | 8153.7  | 11148.6 | 15922.8 | 19162.2 | 19085.7 | 17584.5 | 15116.2 | 12076.5 |
| 70°   | 3491.5  | 3506.4  | 4092.7  | 5409.0  | 8002.5  | 12871.9 | 17272.7 | 17276.4 | 15984.4 | 13443.2 | 10278.5 |
| 72.5° | 1839.1  | 1878.3  | 2113.6  | 3071.4  | 4860.1  | 9031.2  | 14012.7 | 14345.1 | 13723.3 | 11473.4 | 8120.1  |
| 75°   | 1023.2  | 1028.8  | 1195.0  | 1514.2  | 2479.5  | 5054.3  | 10532.4 | 10627.6 | 10864.8 | 9234.8  | 6004.7  |
| 77.5° | 780.5   | 791.7   | 843.9   | 978.4   | 1349.9  | 2343.2  | 6374.3  | 6852.3  | 7657.0  | 6510.6  | 3426.2  |
| 80°   | 633.0   | 644.2   | 689.0   | 769.3   | 898.1   | 1110.9  | 2961.2  | 3218.9  | 4098.3  | 2890.3  | 1336.9  |
| 82.5° | 492.9   | 485.5   | 543.3   | 595.6   | 653.5   | 657.2   | 1215.5  | 1344.3  | 1669.2  | 1243.5  | 578.8   |
| 85°   | 366.0   | 366.0   | 412.6   | 401.4   | 422.0   | 384.6   | 535.9   | 591.9   | 668.4   | 528.4   | 268.9   |
| 87.5° | 145.6   | 160.6   | 270.7   | 242.7   | 188.6   | 151.2   | 197.9   | 209.1   | 231.5   | 207.3   | 112.0   |
| 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°    | 4494.2  | 4494.2 | 4494.2 | 4494.2 | 4494.2 | 4494.2 | 4494.2 | 4494.2 | 4494.2 | 4494.2 | 4494.2 |
| 2.5°  | 4501.6  | 4507.2 | 4494.2 | 4484.8 | 4481.1 | 4475.5 | 4469.9 | 4471.7 | 4479.2 | 4486.7 | 4484.8 |
| 5°    | 4524.0  | 4525.9 | 4503.5 | 4492.3 | 4484.8 | 4477.3 | 4477.3 | 4482.9 | 4497.9 | 4509.1 | 4509.1 |
| 7.5°  | 4580.0  | 4580.0 | 4548.3 | 4527.8 | 4516.6 | 4503.5 | 4499.8 | 4501.6 | 4512.8 | 4527.8 | 4529.6 |
| 10°   | 4667.8  | 4660.3 | 4619.2 | 4587.5 | 4567.0 | 4535.2 | 4507.2 | 4492.3 | 4497.9 | 4507.2 | 4507.2 |
| 12.5° | 4774.2  | 4753.7 | 4701.4 | 4658.5 | 4608.0 | 4548.3 | 4490.4 | 4460.5 | 4458.7 | 4468.0 | 4464.3 |
| 15°   | 4888.1  | 4865.7 | 4792.9 | 4714.5 | 4626.7 | 4539.0 | 4469.9 | 4426.9 | 4393.3 | 4384.0 | 4404.5 |
| 17.5° | 5020.7  | 4974.0 | 4873.2 | 4764.9 | 4634.2 | 4520.3 | 4412.0 | 4324.2 | 4264.5 | 4247.7 | 4253.3 |
| 20°   | 5181.3  | 5119.6 | 4983.3 | 4813.4 | 4628.6 | 4453.1 | 4285.0 | 4167.4 | 4070.3 | 4040.4 | 4044.2 |
| 22.5° | 5403.4  | 5297.0 | 5097.2 | 4837.7 | 4581.9 | 4326.1 | 4092.7 | 3939.6 | 3822.0 | 3775.3 | 3803.3 |
| 25°   | 5655.5  | 5539.7 | 5205.5 | 4832.1 | 4460.5 | 4122.6 | 3864.9 | 3665.2 | 3558.7 | 3489.6 | 3504.6 |
| 27.5° | 6002.8  | 5797.4 | 5321.3 | 4781.7 | 4286.9 | 3874.3 | 3575.5 | 3387.0 | 3289.9 | 3254.4 | 3271.2 |
| 30°   | 6447.2  | 6131.6 | 5446.4 | 4645.4 | 4012.4 | 3560.6 | 3284.3 | 3161.0 | 3103.1 | 3058.3 | 3073.3 |
| 32.5° | 6768.3  | 6366.9 | 5474.4 | 4415.7 | 3715.6 | 3274.9 | 3086.3 | 2994.9 | 2931.4 | 2888.4 | 2897.8 |
| 35°   | 6998.0  | 6566.7 | 5461.3 | 4133.8 | 3405.6 | 3039.7 | 2929.5 | 2854.8 | 2752.1 | 2658.8 | 2642.0 |
| 37.5° | 7306.0  | 6816.8 | 5366.1 | 3825.7 | 3099.4 | 2881.0 | 2802.5 | 2664.4 | 2516.9 | 2391.8 | 2386.2 |
| 40°   | 7778.4  | 7110.0 | 5162.6 | 3463.5 | 2838.0 | 2763.3 | 2668.1 | 2488.9 | 2330.2 | 2229.3 | 2221.9 |
| 42.5° | 8265.7  | 7380.7 | 4886.2 | 3082.6 | 2623.3 | 2640.1 | 2524.3 | 2347.0 | 2249.9 | 2184.5 | 2177.1 |
| 45°   | 8861.3  | 7673.9 | 4587.5 | 2752.1 | 2464.6 | 2524.3 | 2399.2 | 2296.6 | 2238.7 | 2195.7 | 2184.5 |
| 47.5° | 9505.5  | 7974.5 | 4251.4 | 2455.3 | 2330.2 | 2417.9 | 2347.0 | 2300.3 | 2268.5 | 2238.7 | 2225.6 |
| 50°   | 10200.1 | 8310.5 | 3935.9 | 2216.3 | 2208.8 | 2307.8 | 2341.4 | 2324.6 | 2305.9 | 2296.6 | 2285.4 |
| 52.5° | 10961.8 | 8654.1 | 3670.8 | 2048.2 | 2102.4 | 2229.3 | 2343.2 | 2356.3 | 2356.3 | 2350.7 | 2343.2 |
| 55°   | 11477.2 | 8893.1 | 3401.9 | 1911.9 | 1994.1 | 2165.9 | 2339.5 | 2389.9 | 2408.6 | 2401.1 | 2393.6 |
| 57.5° | 11858.1 | 9023.8 | 3063.9 | 1794.3 | 1902.6 | 2104.2 | 2319.0 | 2393.6 | 2412.3 | 2421.7 | 2417.9 |
| 60°   | 11936.5 | 8902.4 | 2621.4 | 1671.1 | 1803.6 | 2014.6 | 2244.3 | 2337.6 | 2361.9 | 2419.8 | 2425.4 |
| 62.5° | 11583.6 | 8529.0 | 2180.8 | 1549.7 | 1682.3 | 1878.3 | 2143.5 | 2274.1 | 2322.7 | 2412.3 | 2421.7 |
| 64°   | 11150.4 | 8110.8 | 1936.2 | 1473.2 | 1603.9 | 1801.8 | 2093.0 | 2257.3 | 2320.8 | 2440.3 | 2447.8 |
| 65°   | 10833.0 | 7806.4 | 1783.1 | 1424.6 | 1553.4 | 1751.4 | 2065.0 | 2262.9 | 2337.6 | 2483.3 | 2494.5 |
| 67.5° | 9664.2  | 6759.0 | 1475.0 | 1310.7 | 1433.9 | 1665.5 | 2070.6 | 2309.6 | 2333.9 | 2500.1 | 2498.2 |
| 70°   | 7996.9  | 5381.0 | 1236.0 | 1206.2 | 1318.2 | 1596.4 | 2048.2 | 2234.9 | 2236.8 | 2347.0 | 2320.8 |
| 72.5° | 5987.8  | 3977.0 | 1071.7 | 1097.9 | 1189.4 | 1432.1 | 1934.3 | 2134.1 | 2102.4 | 2117.3 | 2091.2 |
| 75°   | 4113.3  | 2630.8 | 922.4  | 982.1  | 1054.9 | 1265.9 | 1773.8 | 1938.1 | 1887.7 | 1869.0 | 1850.3 |
| 77.5° | 2195.7  | 1454.5 | 767.4  | 868.2  | 916.8  | 1094.1 | 1547.8 | 1706.5 | 1654.3 | 1581.4 | 1557.2 |
| 80°   | 888.7   | 685.2  | 618.0  | 718.8  | 746.8  | 881.3  | 1288.3 | 1387.3 | 1348.1 | 1221.1 | 1180.0 |
| 82.5° | 446.2   | 410.8  | 485.5  | 565.7  | 567.6  | 629.2  | 957.8  | 1051.2 | 963.4  | 808.5  | 773.0  |
| 85°   | 233.4   | 240.9  | 334.2  | 397.7  | 351.0  | 339.8  | 575.1  | 636.7  | 584.4  | 507.9  | 457.4  |
| 87.5° | 84.0    | 97.1   | 175.5  | 173.6  | 123.2  | 65.3   | 127.0  | 61.6   | 33.6   | 20.5   | 26.1   |
| 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)