

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: P319623

Luminaire Tested: **GAN-SA9D-727-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58014 lumens  
Efficiency: N/A  
Efficacy: 100.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 575  
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

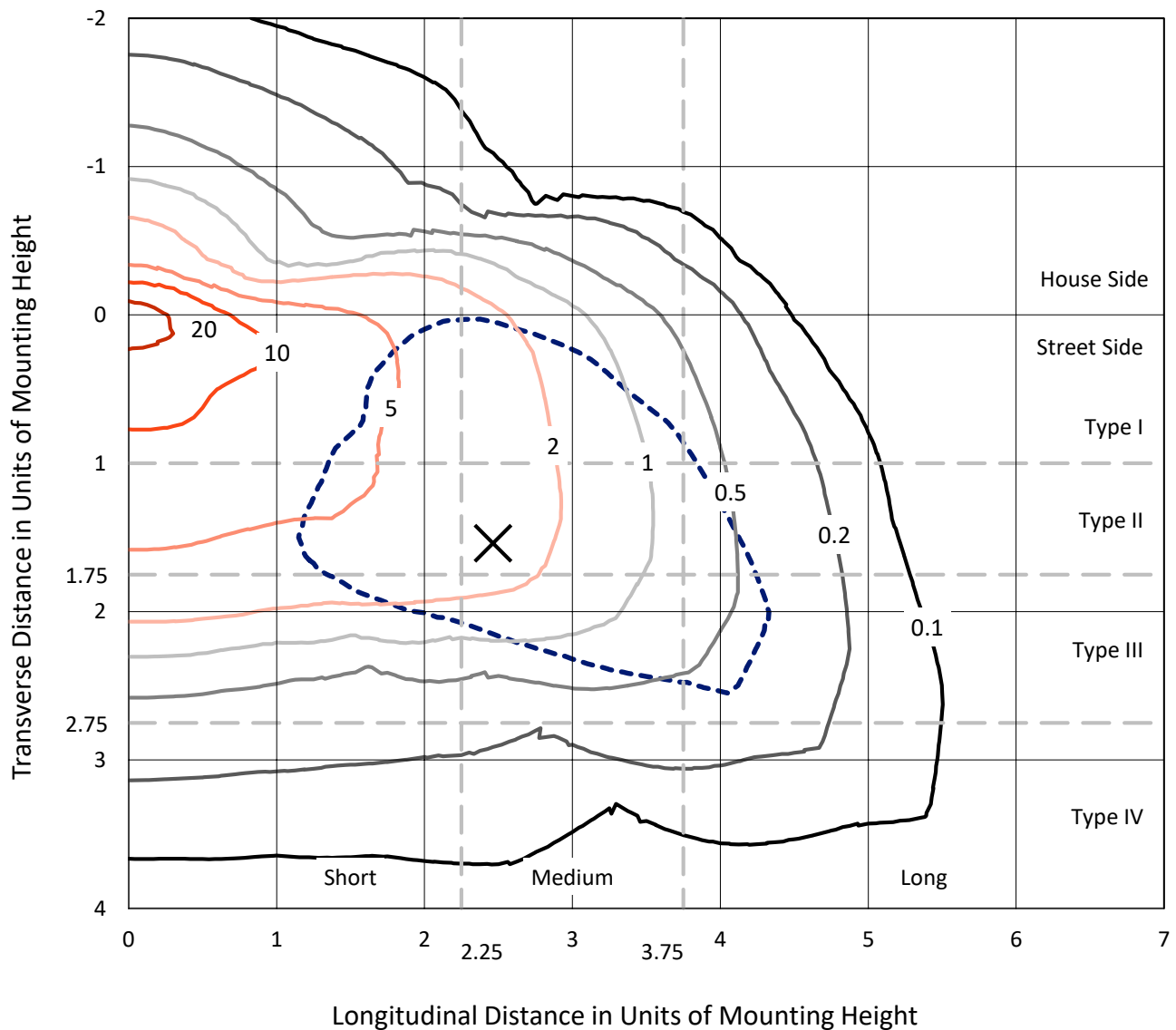


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## Iso-Footcandle Lines of Horizontal Illumination

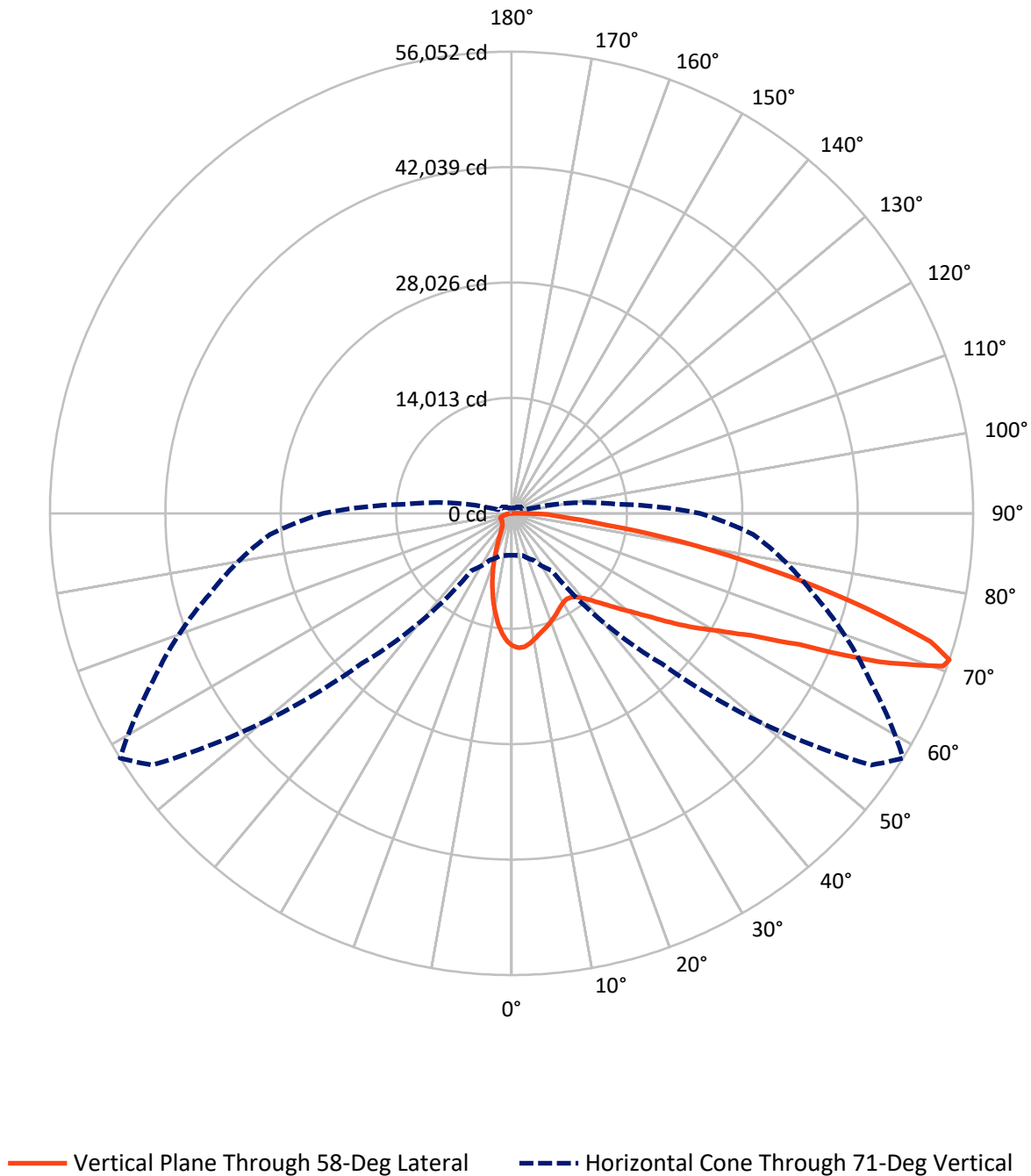
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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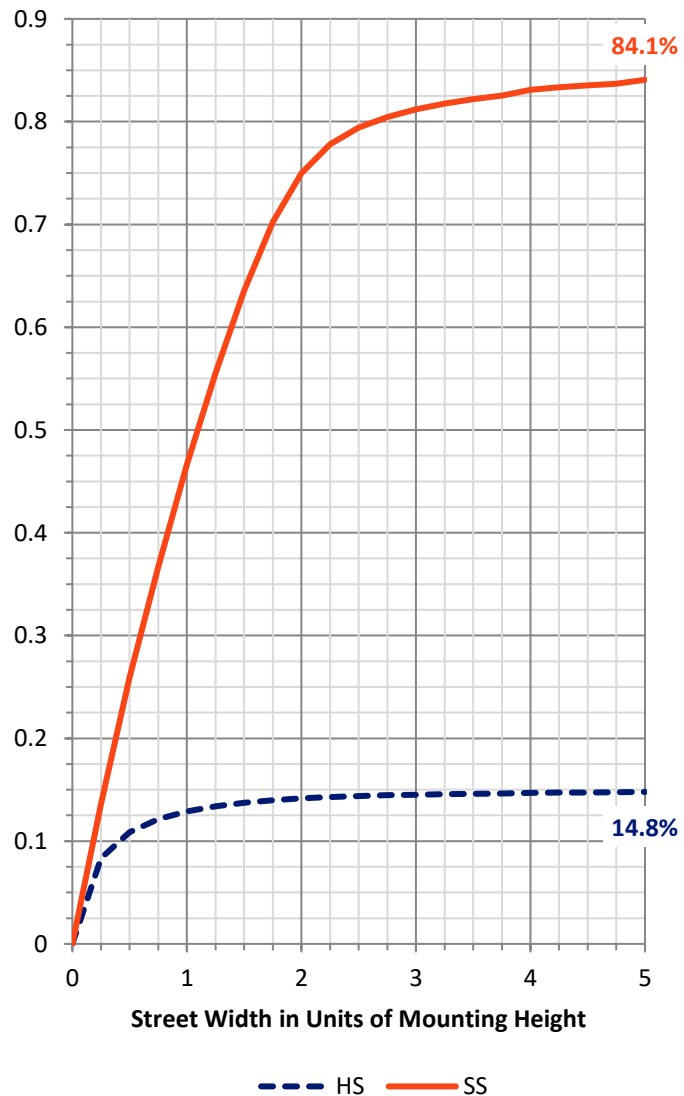
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8673.5   | 0.0    | 8673.5  |
|                    | % Fixture | 15.0     | 0.0    | 15.0    |
| <b>Street Side</b> | Lumens    | 49340.5  | 0.0    | 49340.5 |
|                    | % Fixture | 85.0     | 0.0    | 85.0    |
| <b>Total</b>       | Lumens    | 58014.0  | 0.0    | 58014.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1386.7  | 2.4       |
| 10°-20°   | 3083.4  | 5.3       |
| 20°-30°   | 3918.8  | 6.8       |
| 30°-40°   | 4991.7  | 8.6       |
| 40°-50°   | 7078.5  | 12.2      |
| 50°-60°   | 10954.2 | 18.9      |
| 60°-70°   | 14912.8 | 25.7      |
| 70°-80°   | 9948.6  | 17.1      |
| 80°-90°   | 1739.4  | 3.0       |
| 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°    | 58014.0 | 100.0     |
| 0°-180°   | 58014.0 | 100.0     |

**Coefficient of Utilization**



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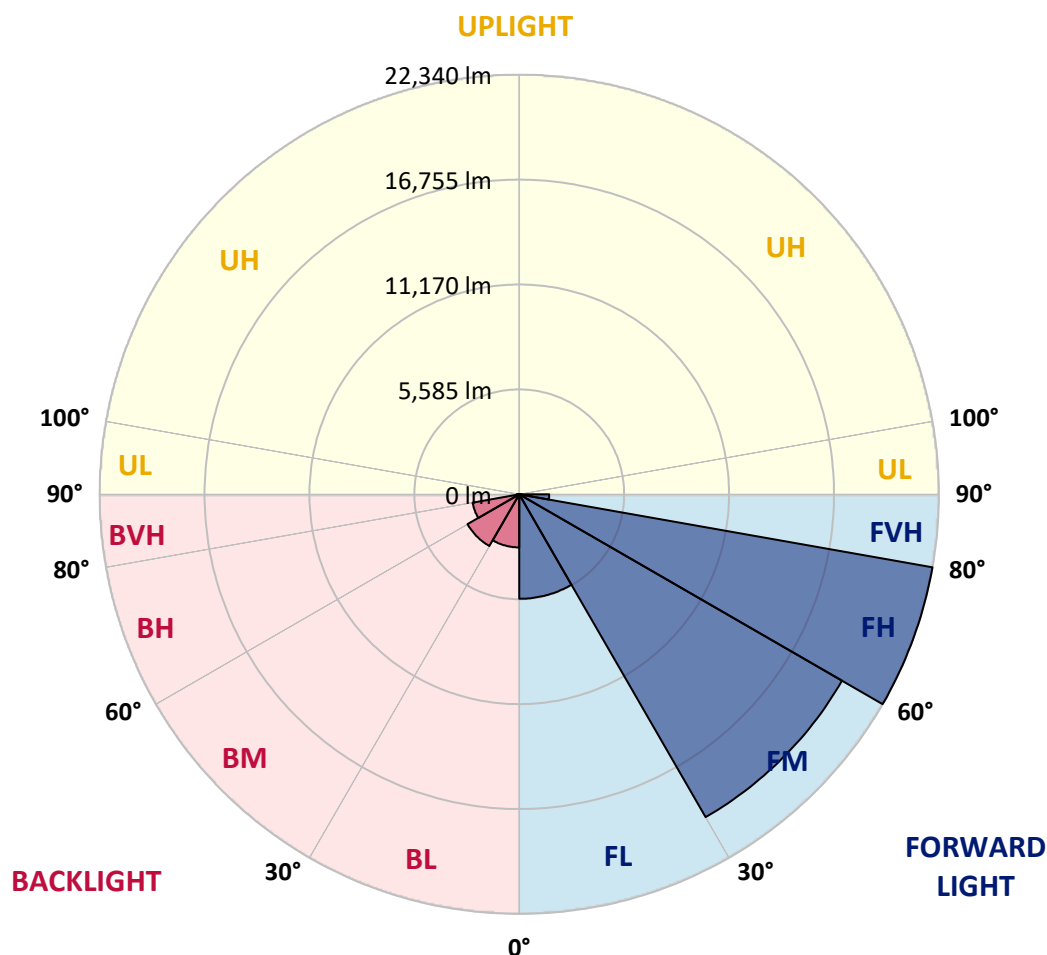
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5561.6  | 9.6       |                         |      |         |
| FM   | (30°-60°)   | 19843.6 | 34.2      |                         |      |         |
| FH   | (60°-80°)   | 22340.5 | 38.5      |                         |      | G5      |
| FVH  | (80°-90°)   | 1594.8  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 2827.3  | 4.9       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 3180.8  | 5.5       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2520.9  | 4.3       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 144.5   | 0.2       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 |
| 2.5°  | 16500.2 | 16477.9 | 16486.0 | 16469.8 | 16431.4 | 16393.0 | 16336.5 | 16346.6 | 16267.8 | 16150.5 | 16005.0 |
| 5°    | 16188.9 | 16180.9 | 16241.5 | 16275.8 | 16304.1 | 16281.9 | 16265.7 | 16285.9 | 16170.8 | 16009.1 | 15756.5 |
| 7.5°  | 15536.2 | 15447.3 | 15524.1 | 15639.3 | 15748.4 | 15831.3 | 15940.4 | 15954.5 | 15881.8 | 15712.0 | 15380.6 |
| 10°   | 14608.6 | 14523.8 | 14636.9 | 14816.8 | 15035.0 | 15233.1 | 15453.4 | 15493.8 | 15507.9 | 15354.3 | 14952.2 |
| 12.5° | 13646.7 | 13582.1 | 13695.2 | 13947.8 | 14309.6 | 14614.7 | 14966.3 | 15027.0 | 15152.3 | 15049.2 | 14556.1 |
| 15°   | 12785.9 | 12761.6 | 12899.0 | 13147.6 | 13563.9 | 14030.7 | 14537.9 | 14649.1 | 14861.3 | 14826.9 | 14246.9 |
| 17.5° | 12042.2 | 12036.1 | 12141.2 | 12401.9 | 12862.6 | 13452.7 | 14111.5 | 14299.5 | 14614.7 | 14655.1 | 13992.3 |
| 20°   | 11488.5 | 11476.3 | 11549.1 | 11741.1 | 12216.0 | 12884.9 | 13650.8 | 13909.4 | 14364.1 | 14505.6 | 13729.6 |
| 22.5° | 11191.4 | 11189.4 | 11191.4 | 11282.3 | 11670.3 | 12292.8 | 13202.1 | 13517.4 | 14119.6 | 14386.4 | 13438.6 |
| 25°   | 11140.9 | 11134.8 | 11090.4 | 11080.3 | 11300.5 | 11797.7 | 12757.6 | 13105.1 | 13887.2 | 14303.5 | 13161.7 |
| 27.5° | 11272.2 | 11280.3 | 11221.7 | 11126.7 | 11171.2 | 11472.3 | 12371.6 | 12743.4 | 13701.3 | 14287.3 | 12969.7 |
| 30°   | 11545.1 | 11541.0 | 11490.5 | 11391.5 | 11304.6 | 11351.1 | 12096.7 | 12468.6 | 13576.0 | 14358.1 | 12838.4 |
| 32.5° | 11846.2 | 11868.4 | 11858.3 | 11803.7 | 11674.4 | 11488.5 | 12013.9 | 12377.6 | 13539.6 | 14527.8 | 12781.8 |
| 35°   | 12207.9 | 12232.1 | 12304.9 | 12347.3 | 12195.8 | 11896.7 | 12191.7 | 12507.0 | 13644.7 | 14847.1 | 12872.7 |
| 37.5° | 12551.4 | 12614.1 | 12818.2 | 12998.0 | 12868.7 | 12535.3 | 12664.6 | 12888.9 | 13970.1 | 15350.3 | 13117.3 |
| 40°   | 12947.5 | 13002.1 | 13335.5 | 13717.5 | 13697.2 | 13351.7 | 13426.5 | 13576.0 | 14544.0 | 16071.7 | 13559.8 |
| 42.5° | 13337.5 | 13446.7 | 13929.6 | 14471.2 | 14626.8 | 14321.7 | 14440.9 | 14519.7 | 15352.3 | 17027.6 | 14331.8 |
| 45°   | 13856.9 | 13974.1 | 14645.0 | 15297.8 | 15661.5 | 15489.7 | 15679.7 | 15710.0 | 16368.8 | 18329.0 | 15453.4 |
| 47.5° | 14643.0 | 14776.4 | 15558.4 | 16243.5 | 16799.2 | 16817.4 | 17130.7 | 17118.5 | 17637.9 | 19818.4 | 16865.9 |
| 50°   | 15867.6 | 16059.6 | 16700.2 | 17340.8 | 18015.8 | 18391.7 | 18810.0 | 18751.4 | 19159.6 | 21404.7 | 18492.7 |
| 52.5° | 17472.2 | 17561.1 | 18036.0 | 18508.9 | 19347.5 | 20190.2 | 20790.4 | 20737.9 | 20885.4 | 23035.5 | 20339.7 |
| 55°   | 19135.3 | 19202.0 | 19398.0 | 19656.7 | 20784.3 | 22158.5 | 23427.6 | 23344.7 | 22970.9 | 24729.0 | 22164.6 |
| 57.5° | 20630.7 | 20766.1 | 20901.5 | 21008.6 | 22231.3 | 24215.7 | 26125.4 | 26131.5 | 25234.2 | 26555.8 | 24050.0 |
| 60°   | 20863.1 | 20982.4 | 21877.6 | 22722.3 | 24706.8 | 26960.0 | 29013.2 | 28952.6 | 27576.4 | 28538.3 | 26151.7 |
| 62.5° | 18442.2 | 18711.0 | 20206.4 | 22453.5 | 27091.4 | 31979.8 | 32697.2 | 32622.4 | 30377.3 | 30981.5 | 28598.9 |
| 65°   | 13216.3 | 13521.4 | 15326.0 | 18702.9 | 25935.5 | 37510.8 | 39345.7 | 38339.4 | 34196.6 | 33986.5 | 31464.5 |
| 67.5° | 7624.6  | 7697.4  | 8479.4  | 11191.4 | 19747.6 | 37799.8 | 49488.3 | 48079.8 | 40127.8 | 37395.6 | 32866.9 |
| 70°   | 5638.1  | 5636.1  | 5822.0  | 6887.0  | 10686.2 | 30850.1 | 54312.1 | 55575.1 | 46372.2 | 38517.2 | 30884.5 |
| 71°   | 5098.6  | 5104.6  | 5312.8  | 6268.6  | 8463.3  | 25822.3 | 53287.5 | 56052.0 | 48017.2 | 37963.5 | 29449.7 |
| 72.5° | 4361.0  | 4381.2  | 4670.2  | 5622.0  | 7119.4  | 17807.6 | 48874.0 | 53190.5 | 48797.2 | 36597.4 | 27204.5 |
| 75°   | 3308.1  | 3354.6  | 3754.7  | 4738.9  | 6507.1  | 9031.1  | 35869.9 | 42474.0 | 43349.0 | 32293.0 | 20214.5 |
| 77.5° | 2360.3  | 2412.9  | 2865.6  | 3985.1  | 6185.8  | 6806.2  | 24021.7 | 30981.5 | 31901.0 | 20695.4 | 9118.0  |
| 80°   | 1491.4  | 1554.0  | 1895.5  | 3170.7  | 5811.9  | 6462.6  | 15095.7 | 20824.7 | 17395.4 | 6622.3  | 2319.9  |
| 82.5° | 875.0   | 923.5   | 1176.1  | 2071.4  | 4747.0  | 6224.2  | 8881.6  | 11543.0 | 6769.8  | 2000.6  | 1054.9  |
| 85°   | 507.2   | 529.5   | 733.6   | 1319.6  | 3447.6  | 5874.6  | 6525.3  | 6452.5  | 2938.3  | 978.1   | 499.1   |
| 87.5° | 236.4   | 262.7   | 434.5   | 689.1   | 1913.7  | 4257.9  | 5157.2  | 4456.0  | 1826.8  | 458.7   | 234.4   |
| 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°    | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 | 16073.8 |
| 2.5°  | 15934.3 | 15900.0 | 15756.5 | 15629.2 | 15495.8 | 15322.0 | 15130.0 | 15105.8 | 14988.6 | 15010.8 | 14970.4 |
| 5°    | 15619.1 | 15532.2 | 15186.6 | 14873.4 | 14503.6 | 14172.1 | 13812.4 | 13646.7 | 13408.3 | 13392.1 | 13331.5 |
| 7.5°  | 15168.4 | 15006.8 | 14471.2 | 13877.1 | 13283.0 | 12717.1 | 12157.4 | 11789.6 | 11413.7 | 11254.1 | 11239.9 |
| 10°   | 14661.2 | 14386.4 | 13598.2 | 12719.2 | 11862.3 | 11035.8 | 10235.6 | 9643.4  | 9109.9  | 8857.3  | 8847.2  |
| 12.5° | 14180.2 | 13774.0 | 12692.9 | 11496.6 | 10324.5 | 9253.4  | 8156.1  | 7378.1  | 6709.2  | 6484.9  | 6389.9  |
| 15°   | 13772.0 | 13200.1 | 11811.8 | 10282.0 | 8859.4  | 7372.0  | 6123.1  | 5304.7  | 4686.3  | 4472.1  | 4431.7  |
| 17.5° | 13375.9 | 12640.4 | 10908.5 | 9055.4  | 7335.6  | 5700.8  | 4449.9  | 3841.6  | 3512.2  | 3425.3  | 3423.3  |
| 20°   | 12981.9 | 12064.4 | 9964.8  | 7800.4  | 5862.5  | 4264.0  | 3421.3  | 3148.5  | 3037.3  | 3027.2  | 3011.1  |
| 22.5° | 12535.3 | 11454.1 | 8972.5  | 6541.5  | 4575.2  | 3352.6  | 2908.0  | 2798.9  | 2784.7  | 2821.1  | 2821.1  |
| 25°   | 12117.0 | 10847.9 | 7966.1  | 5308.7  | 3558.7  | 2796.8  | 2596.8  | 2574.5  | 2612.9  | 2677.6  | 2683.7  |
| 27.5° | 11726.9 | 10263.8 | 6984.0  | 4213.5  | 2851.4  | 2463.4  | 2380.5  | 2406.8  | 2475.5  | 2550.3  | 2552.3  |
| 30°   | 11405.6 | 9712.2  | 6030.2  | 3320.2  | 2408.8  | 2214.8  | 2200.7  | 2253.2  | 2328.0  | 2386.6  | 2400.8  |
| 32.5° | 11157.1 | 9241.3  | 5108.7  | 2669.5  | 2119.9  | 2028.9  | 2041.0  | 2085.5  | 2132.0  | 2164.3  | 2186.5  |
| 35°   | 11041.9 | 8837.1  | 4257.9  | 2251.2  | 1936.0  | 1885.4  | 1901.6  | 1925.9  | 1946.1  | 1970.3  | 1988.5  |
| 37.5° | 11062.1 | 8523.9  | 3498.1  | 1990.5  | 1812.7  | 1786.4  | 1786.4  | 1786.4  | 1786.4  | 1798.5  | 1800.6  |
| 40°   | 11250.0 | 8344.0  | 2879.7  | 1824.8  | 1729.8  | 1701.5  | 1679.3  | 1659.1  | 1642.9  | 1651.0  | 1647.0  |
| 42.5° | 11731.0 | 8327.9  | 2427.0  | 1719.7  | 1663.2  | 1616.7  | 1572.2  | 1543.9  | 1523.7  | 1531.8  | 1535.8  |
| 45°   | 12547.4 | 8530.0  | 2121.9  | 1645.0  | 1600.5  | 1529.8  | 1473.2  | 1442.9  | 1428.7  | 1455.0  | 1459.0  |
| 47.5° | 13604.3 | 8970.5  | 1936.0  | 1590.4  | 1541.9  | 1448.9  | 1388.3  | 1360.0  | 1364.1  | 1402.5  | 1412.6  |
| 50°   | 14966.3 | 9685.9  | 1847.0  | 1556.0  | 1501.5  | 1380.2  | 1317.6  | 1293.3  | 1305.5  | 1360.0  | 1372.1  |
| 52.5° | 16461.8 | 10716.5 | 1857.2  | 1545.9  | 1475.2  | 1329.7  | 1263.0  | 1234.7  | 1254.9  | 1305.5  | 1315.6  |
| 55°   | 18187.6 | 11955.3 | 2024.9  | 1560.1  | 1436.8  | 1297.4  | 1218.6  | 1170.1  | 1186.2  | 1232.7  | 1240.8  |
| 57.5° | 20105.3 | 13373.9 | 2362.4  | 1556.0  | 1388.3  | 1267.1  | 1172.1  | 1099.3  | 1111.5  | 1139.8  | 1147.8  |
| 60°   | 22101.9 | 15087.6 | 2885.8  | 1568.2  | 1366.1  | 1230.7  | 1109.4  | 1018.5  | 1014.5  | 1038.7  | 1042.8  |
| 62.5° | 24498.6 | 17070.0 | 3483.9  | 1576.3  | 1380.2  | 1184.2  | 1026.6  | 937.7   | 925.5   | 931.6   | 935.6   |
| 65°   | 26968.1 | 18504.8 | 3259.6  | 1543.9  | 1424.7  | 1145.8  | 953.8   | 858.9   | 836.6   | 832.6   | 834.6   |
| 67.5° | 27044.9 | 16967.0 | 2285.6  | 1479.3  | 1442.9  | 1125.6  | 899.3   | 792.2   | 755.8   | 741.6   | 739.6   |
| 70°   | 24254.1 | 13784.1 | 1780.4  | 1410.5  | 1370.1  | 1093.3  | 848.8   | 737.6   | 683.0   | 660.8   | 658.8   |
| 71°   | 22892.1 | 12688.9 | 1687.4  | 1376.2  | 1315.6  | 1060.9  | 826.5   | 713.4   | 656.8   | 632.5   | 628.5   |
| 72.5° | 20756.0 | 11375.3 | 1574.2  | 1321.6  | 1210.5  | 978.1   | 784.1   | 679.0   | 620.4   | 592.1   | 586.0   |
| 75°   | 14895.6 | 7438.7  | 1351.9  | 1178.1  | 1002.3  | 780.0   | 687.1   | 610.3   | 559.8   | 525.4   | 521.4   |
| 77.5° | 5739.2  | 2960.5  | 1022.5  | 980.1   | 767.9   | 610.3   | 565.8   | 527.4   | 491.1   | 456.7   | 454.7   |
| 80°   | 1774.3  | 1323.6  | 745.7   | 737.6   | 555.7   | 454.7   | 440.5   | 430.4   | 416.3   | 379.9   | 371.8   |
| 82.5° | 947.8   | 759.8   | 513.3   | 476.9   | 363.8   | 303.1   | 319.3   | 323.3   | 325.4   | 287.0   | 282.9   |
| 85°   | 452.7   | 402.1   | 289.0   | 270.8   | 212.2   | 169.8   | 196.0   | 212.2   | 214.2   | 175.8   | 163.7   |
| 87.5° | 216.2   | 210.2   | 135.4   | 103.1   | 78.8    | 56.6    | 68.7    | 84.9    | 93.0    | 66.7    | 58.6    |
| 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)