

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: P533466

Luminaire Tested: **GLAN-SA8D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533466  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38518 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

Input Watts (W): 493  
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

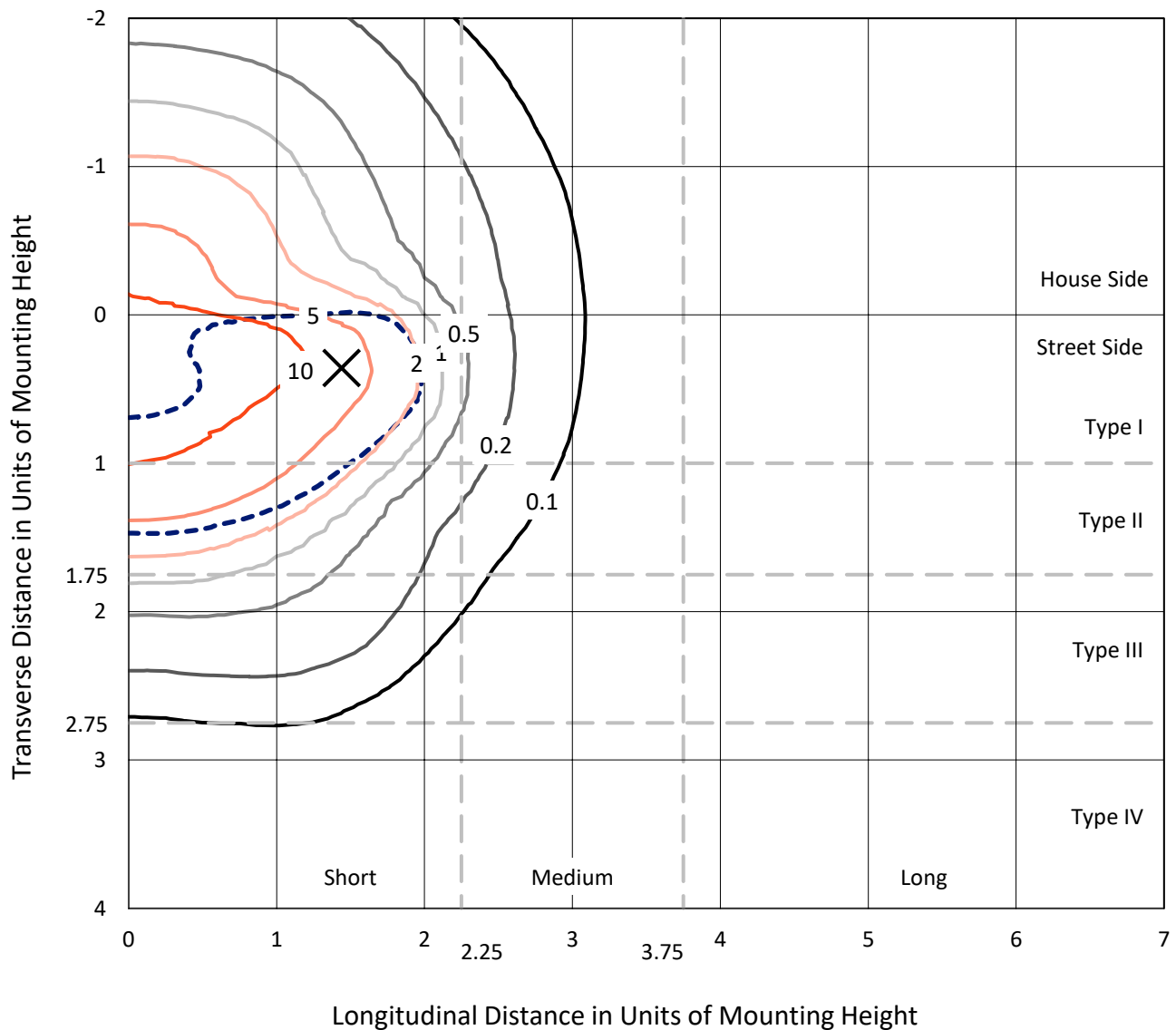


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## Iso-Footcandle Lines of Horizontal Illumination

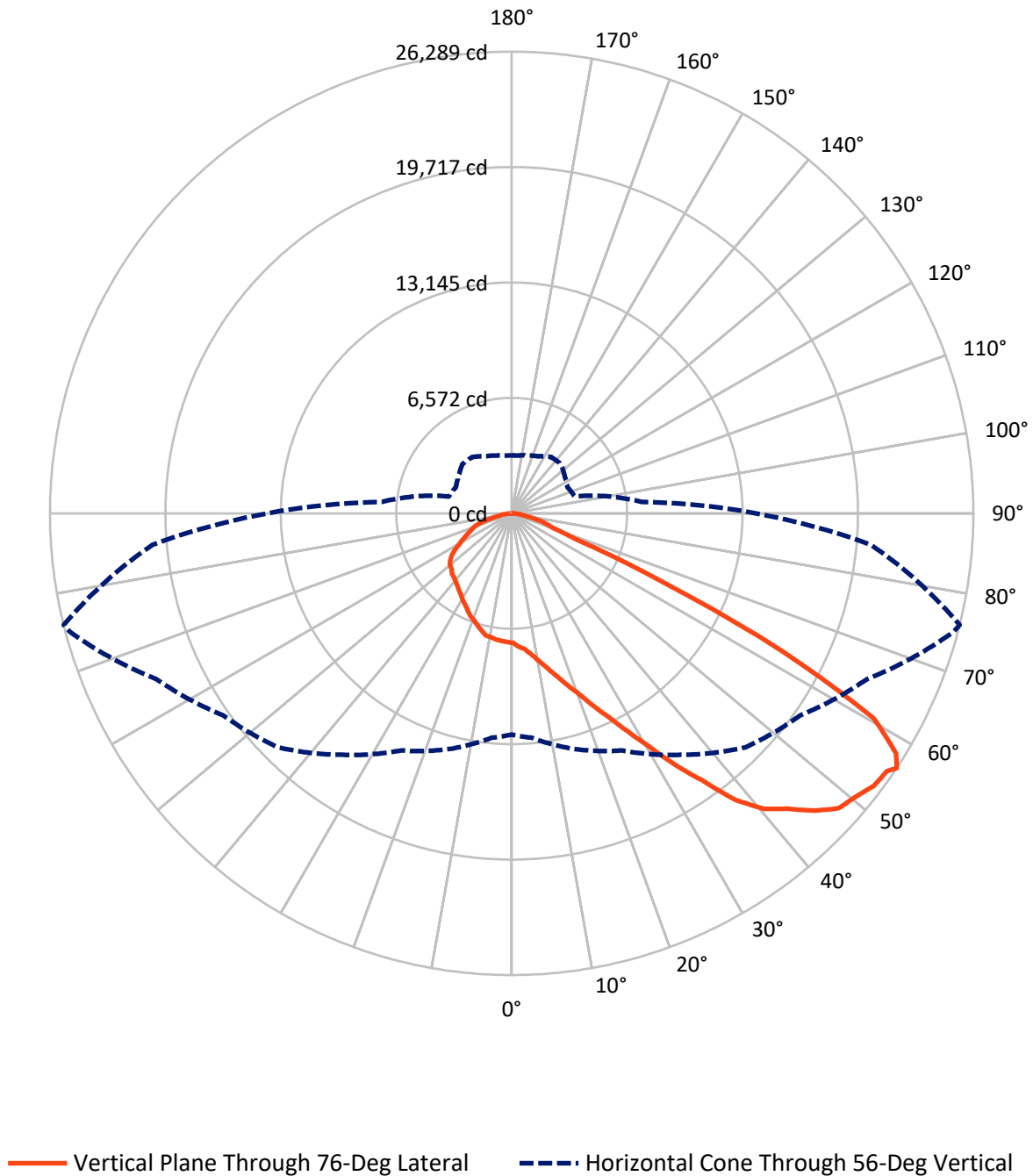
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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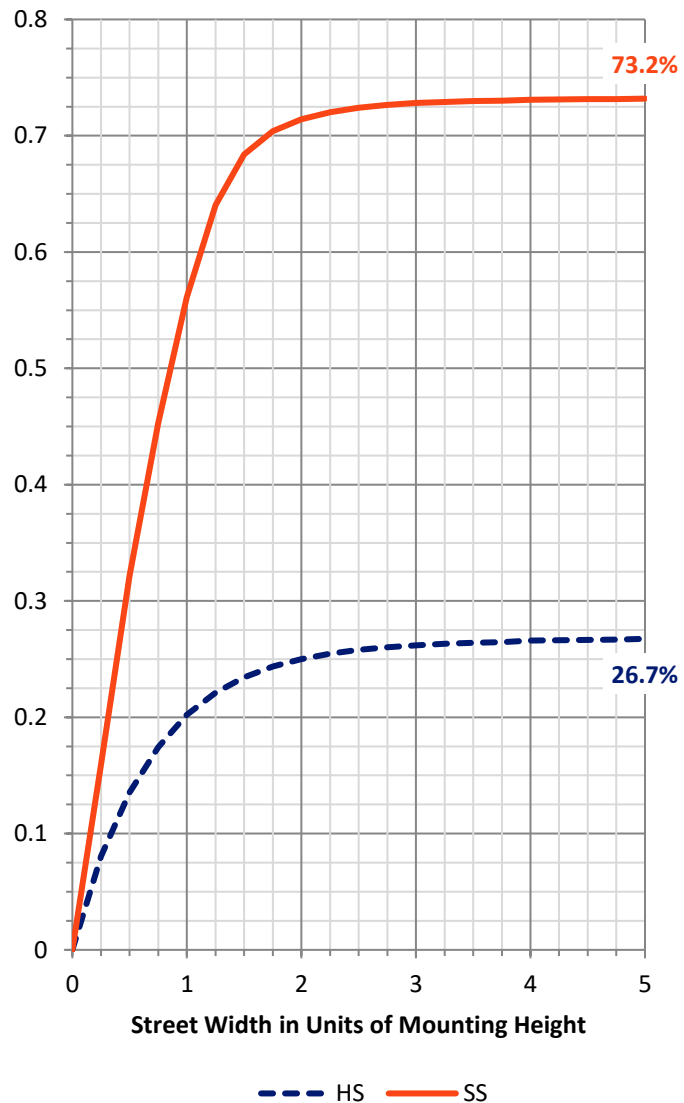
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10356.3  | 0.0    | 10356.3 |
|                    | % Fixture | 26.9     | 0.0    | 26.9    |
| <b>Street Side</b> | Lumens    | 28161.7  | 0.0    | 28161.7 |
|                    | % Fixture | 73.1     | 0.0    | 73.1    |
| <b>Total</b>       | Lumens    | 38518.0  | 0.0    | 38518.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 730.9   | 1.9       |
| 10°-20°   | 2295.9  | 6.0       |
| 20°-30°   | 4015.3  | 10.4      |
| 30°-40°   | 6286.7  | 16.3      |
| 40°-50°   | 9145.4  | 23.7      |
| 50°-60°   | 10051.3 | 26.1      |
| 60°-70°   | 4486.5  | 11.6      |
| 70°-80°   | 1295.9  | 3.4       |
| 80°-90°   | 210.2   | 0.5       |
| 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°    | 38518.0 | 100.0     |
| 0°-180°   | 38518.0 | 100.0     |

**Coefficient of Utilization**



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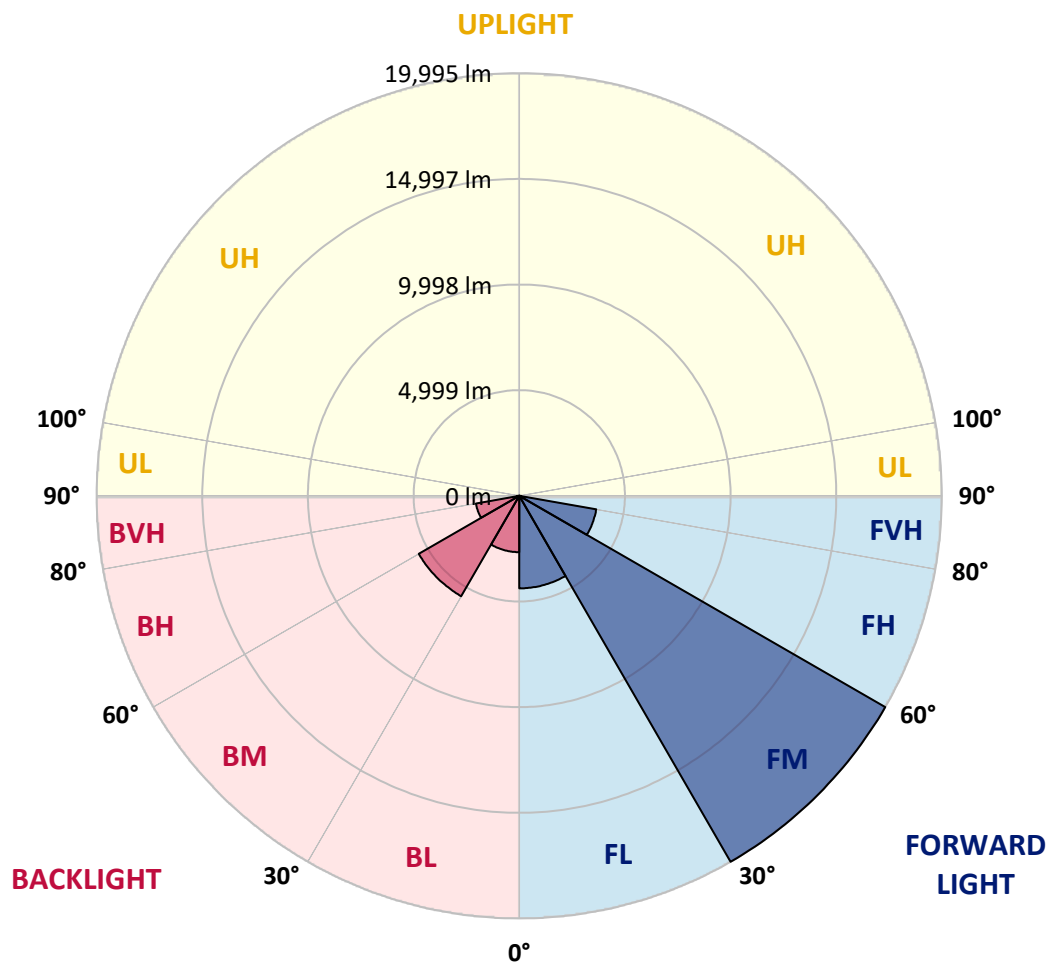
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4377.1  | 11.4      |                         |      |         |
| FM   | (30°-60°)   | 19995.4 | 51.9      |                         |      |         |
| FH   | (60°-80°)   | 3698.6  | 9.6       |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 90.5    | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 2664.9  | 6.9       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5488.0  | 14.2      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 2083.7  | 5.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 119.7   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 76°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7369.9  | 7369.9  | 7369.9  | 7369.9  | 7369.9  | 7369.9  | 7369.9  | 7369.9  | 7369.9  | 7369.9  | 7369.9  |
| 2.5°  | 8118.9  | 7989.1  | 7979.1  | 7944.1  | 7964.1  | 7874.2  | 7779.4  | 7654.5  | 7524.7  | 7604.6  | 7414.9  |
| 5°    | 8688.1  | 8513.4  | 8583.3  | 8463.4  | 8478.4  | 8358.6  | 8163.8  | 8019.0  | 7859.3  | 7764.4  | 7629.6  |
| 7.5°  | 8887.8  | 8902.8  | 8952.8  | 8932.8  | 8832.9  | 8832.9  | 8703.1  | 8448.5  | 8168.8  | 8113.9  | 7889.2  |
| 10°   | 9157.5  | 9162.5  | 9107.5  | 9122.5  | 9262.3  | 9197.4  | 9082.6  | 8972.7  | 8613.2  | 8548.3  | 8148.9  |
| 12.5° | 9252.4  | 9162.5  | 9252.4  | 9332.2  | 9497.0  | 9586.9  | 9561.9  | 9482.0  | 9097.6  | 9052.6  | 8468.4  |
| 15°   | 9267.3  | 9212.4  | 9287.3  | 9467.1  | 9611.9  | 9991.3  | 10181.1 | 10126.2 | 9616.9  | 9621.8  | 8827.9  |
| 17.5° | 9197.4  | 9272.3  | 9302.3  | 9457.1  | 9791.6  | 10146.1 | 10695.4 | 10770.3 | 10350.8 | 10285.9 | 9282.3  |
| 20°   | 9292.3  | 9237.4  | 9277.3  | 9417.1  | 9861.5  | 10415.8 | 11134.8 | 11629.1 | 11039.9 | 10995.0 | 9751.7  |
| 22.5° | 9656.8  | 9581.9  | 9571.9  | 9661.8  | 9981.4  | 10555.6 | 11599.1 | 12487.9 | 11878.8 | 11903.7 | 10335.9 |
| 25°   | 9941.4  | 9981.4  | 9946.4  | 9941.4  | 10141.1 | 10765.3 | 12213.3 | 13511.5 | 13017.2 | 12872.4 | 11024.9 |
| 27.5° | 10430.7 | 10525.6 | 10455.7 | 10550.6 | 10505.6 | 11079.9 | 12652.7 | 14645.0 | 14245.5 | 14050.8 | 11649.1 |
| 30°   | 11109.8 | 11159.7 | 11094.8 | 11094.8 | 10960.0 | 11519.3 | 13052.2 | 15828.4 | 15663.6 | 15398.9 | 12383.1 |
| 32.5° | 12003.6 | 12078.5 | 11948.7 | 11873.8 | 11853.8 | 12173.4 | 13771.2 | 16996.8 | 17276.4 | 17051.7 | 13356.7 |
| 35°   | 13187.0 | 13142.0 | 12987.2 | 12917.3 | 12647.7 | 13177.0 | 14839.7 | 18339.9 | 19073.9 | 18674.5 | 14535.1 |
| 37.5° | 14230.5 | 14160.6 | 14150.7 | 13761.2 | 13826.1 | 14260.5 | 15748.5 | 19358.5 | 20816.5 | 20701.7 | 15778.4 |
| 40°   | 15204.2 | 15269.1 | 15374.0 | 15154.3 | 15054.4 | 15533.8 | 16807.0 | 20137.5 | 22169.7 | 22124.8 | 16737.1 |
| 42.5° | 16247.8 | 16187.9 | 16372.6 | 16187.9 | 16038.1 | 16717.1 | 17955.5 | 20676.7 | 23358.1 | 22988.6 | 17740.7 |
| 45°   | 17760.7 | 17571.0 | 17635.9 | 17650.9 | 17541.0 | 17790.7 | 18429.8 | 21066.2 | 24191.9 | 24152.0 | 18474.7 |
| 47.5° | 19024.0 | 19029.0 | 18919.1 | 18834.3 | 18499.7 | 18749.4 | 18959.1 | 21310.9 | 25150.6 | 25085.7 | 18759.4 |
| 50°   | 19493.4 | 19428.4 | 19748.0 | 19932.8 | 19952.7 | 19443.4 | 19373.5 | 21445.7 | 25654.9 | 25370.3 | 19044.0 |
| 52.5° | 17805.7 | 17865.6 | 18369.9 | 19468.4 | 20102.5 | 20157.4 | 19857.9 | 21725.3 | 25859.6 | 25799.7 | 19273.7 |
| 55°   | 14330.4 | 14620.0 | 15448.9 | 16717.1 | 18220.1 | 19872.8 | 20382.1 | 22014.9 | 25969.5 | 25919.6 | 20292.3 |
| 56°   | 12597.8 | 12822.5 | 13901.0 | 14894.6 | 16782.1 | 18839.2 | 20052.6 | 22324.5 | 26054.4 | 26289.1 | 20531.9 |
| 57.5° | 10141.1 | 10400.8 | 11174.7 | 12303.2 | 14530.1 | 16871.9 | 19143.8 | 21945.0 | 25724.8 | 25814.7 | 20706.7 |
| 60°   | 6341.3  | 6366.3  | 7295.0  | 8039.0  | 9606.9  | 11893.7 | 14610.0 | 19093.9 | 23807.5 | 23677.6 | 18599.6 |
| 62.5° | 4159.3  | 4164.3  | 5008.2  | 5617.3  | 6331.3  | 6855.6  | 8598.2  | 12662.7 | 17566.0 | 17336.3 | 13241.9 |
| 65°   | 2921.0  | 2985.9  | 3640.0  | 4453.9  | 4743.5  | 4468.9  | 4414.0  | 6675.9  | 9811.6  | 9482.0  | 7115.3  |
| 67.5° | 2137.1  | 2142.1  | 2721.3  | 3595.1  | 4014.5  | 3400.4  | 2761.2  | 3260.5  | 3884.7  | 3874.7  | 3295.5  |
| 70°   | 1413.1  | 1473.0  | 1917.4  | 2686.3  | 3165.7  | 2731.3  | 2256.9  | 2331.8  | 2471.6  | 2471.6  | 2451.6  |
| 72.5° | 823.9   | 878.8   | 1173.4  | 1702.7  | 1777.6  | 1707.7  | 1787.6  | 1997.3  | 2087.1  | 2082.2  | 2057.2  |
| 75°   | 469.4   | 494.3   | 559.2   | 709.0   | 883.8   | 1043.6  | 1313.2  | 1512.9  | 1602.8  | 1657.7  | 1592.8  |
| 77.5° | 274.6   | 289.6   | 329.5   | 404.4   | 459.4   | 564.2   | 714.0   | 853.8   | 973.7   | 958.7   | 968.7   |
| 80°   | 144.8   | 144.8   | 184.7   | 239.7   | 319.6   | 399.5   | 474.4   | 554.2   | 619.2   | 634.1   | 649.1   |
| 82.5° | 84.9    | 89.9    | 119.8   | 174.8   | 229.7   | 284.6   | 364.5   | 419.4   | 479.3   | 484.3   | 494.3   |
| 85°   | 44.9    | 49.9    | 74.9    | 114.8   | 154.8   | 174.8   | 179.8   | 169.8   | 184.7   | 174.8   | 199.7   |
| 87.5° | 15.0    | 15.0    | 25.0    | 20.0    | 20.0    | 25.0    | 30.0    | 30.0    | 39.9    | 39.9    | 39.9    |
| 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°    | 7369.9  | 7369.9 | 7369.9 | 7369.9 | 7369.9 | 7369.9 | 7369.9 | 7369.9 | 7369.9 | 7369.9 | 7369.9 |
| 2.5°  | 7409.9  | 7409.9 | 7325.0 | 7165.2 | 7140.2 | 7075.3 | 7015.4 | 7010.4 | 6965.5 | 6925.5 | 6905.6 |
| 5°    | 7549.7  | 7394.9 | 7270.1 | 7125.3 | 6955.5 | 6875.6 | 6785.7 | 6685.9 | 6645.9 | 6685.9 | 6680.9 |
| 7.5°  | 7709.5  | 7579.6 | 7205.1 | 6935.5 | 6740.8 | 6660.9 | 6561.0 | 6456.2 | 6466.2 | 6466.2 | 6396.3 |
| 10°   | 7864.2  | 7689.5 | 7090.3 | 6745.8 | 6461.2 | 6401.2 | 6346.3 | 6386.3 | 6436.2 | 6446.2 | 6401.2 |
| 12.5° | 8123.9  | 7729.4 | 7035.4 | 6556.0 | 6376.3 | 6246.5 | 6281.4 | 6391.3 | 6496.1 | 6466.2 | 6501.1 |
| 15°   | 8318.6  | 7764.4 | 6785.7 | 6361.3 | 6136.6 | 6196.5 | 6321.4 | 6396.3 | 6571.0 | 6551.0 | 6586.0 |
| 17.5° | 8508.4  | 7784.4 | 6541.1 | 6101.7 | 6006.8 | 6171.6 | 6266.4 | 6481.1 | 6536.1 | 6655.9 | 6700.8 |
| 20°   | 8897.8  | 7824.3 | 6291.4 | 5941.9 | 5911.9 | 6101.7 | 6266.4 | 6366.3 | 6486.1 | 6591.0 | 6591.0 |
| 22.5° | 9097.6  | 7804.3 | 6126.6 | 5732.2 | 5827.0 | 5946.9 | 6096.7 | 6266.4 | 6266.4 | 6366.3 | 6371.3 |
| 25°   | 9347.2  | 7724.4 | 5867.0 | 5632.3 | 5702.2 | 5817.0 | 5986.8 | 5926.9 | 5991.8 | 5991.8 | 6071.7 |
| 27.5° | 9631.8  | 7554.7 | 5642.3 | 5452.5 | 5592.4 | 5717.2 | 5742.2 | 5702.2 | 5627.3 | 5617.3 | 5587.4 |
| 30°   | 9861.5  | 7345.0 | 5477.5 | 5392.6 | 5507.5 | 5577.4 | 5497.5 | 5412.6 | 5282.8 | 5272.8 | 5202.9 |
| 32.5° | 10176.1 | 7085.3 | 5272.8 | 5242.8 | 5372.7 | 5377.6 | 5352.7 | 5222.9 | 5033.1 | 4953.2 | 4873.3 |
| 35°   | 10705.4 | 6935.5 | 5118.0 | 5162.9 | 5202.9 | 5187.9 | 5143.0 | 5003.2 | 4813.4 | 4778.5 | 4748.5 |
| 37.5° | 11094.8 | 6825.7 | 4958.2 | 5013.1 | 5048.1 | 5068.1 | 4933.3 | 4778.5 | 4783.5 | 4713.6 | 4693.6 |
| 40°   | 11534.2 | 6755.8 | 4828.4 | 4853.4 | 4858.4 | 4923.3 | 4758.5 | 4683.6 | 4718.5 | 4673.6 | 4703.6 |
| 42.5° | 12098.5 | 6775.7 | 4693.6 | 4673.6 | 4768.5 | 4743.5 | 4663.6 | 4563.8 | 4583.7 | 4448.9 | 4468.9 |
| 45°   | 12398.1 | 6910.6 | 4613.7 | 4523.8 | 4628.7 | 4623.7 | 4518.8 | 4424.0 | 4304.1 | 4044.5 | 4054.5 |
| 47.5° | 12597.8 | 6945.5 | 4424.0 | 4364.0 | 4473.9 | 4538.8 | 4419.0 | 4199.3 | 4029.5 | 3844.7 | 3799.8 |
| 50°   | 12802.5 | 7010.4 | 4334.1 | 4209.2 | 4254.2 | 4409.0 | 4259.2 | 4049.5 | 3884.7 | 3719.9 | 3744.9 |
| 52.5° | 12982.3 | 7135.2 | 4159.3 | 3974.6 | 4054.5 | 4224.2 | 4144.3 | 3889.7 | 3709.9 | 3575.1 | 3535.2 |
| 55°   | 13781.2 | 7414.9 | 3864.7 | 3625.0 | 3814.8 | 4029.5 | 3984.6 | 3675.0 | 3480.2 | 3410.3 | 3400.4 |
| 56°   | 13906.0 | 7424.8 | 3709.9 | 3505.2 | 3680.0 | 3964.6 | 3909.7 | 3580.1 | 3405.3 | 3295.5 | 3300.5 |
| 57.5° | 13926.0 | 7305.0 | 3490.2 | 3395.4 | 3545.2 | 3869.7 | 3799.8 | 3505.2 | 3265.5 | 3165.7 | 3135.7 |
| 60°   | 12253.2 | 5702.2 | 3215.6 | 3155.7 | 3330.4 | 3580.1 | 3555.1 | 3300.5 | 3030.9 | 2916.0 | 2970.9 |
| 62.5° | 8353.6  | 4179.3 | 3000.9 | 2990.9 | 3080.8 | 3325.5 | 3260.5 | 3030.9 | 2806.2 | 2731.3 | 2696.3 |
| 65°   | 4863.4  | 3170.7 | 2791.2 | 2751.2 | 2826.1 | 2956.0 | 3000.9 | 2761.2 | 2526.5 | 2476.6 | 2461.6 |
| 67.5° | 2871.1  | 2621.4 | 2521.6 | 2456.6 | 2431.7 | 2511.6 | 2546.5 | 2406.7 | 2172.0 | 2102.1 | 2162.0 |
| 70°   | 2401.7  | 2331.8 | 2336.8 | 2227.0 | 2167.0 | 2112.1 | 2082.2 | 1957.3 | 1762.6 | 1672.7 | 1647.7 |
| 72.5° | 2072.2  | 2042.2 | 2022.2 | 1922.4 | 1867.4 | 1742.6 | 1612.8 | 1488.0 | 1343.2 | 1268.3 | 1273.3 |
| 75°   | 1582.8  | 1572.8 | 1582.8 | 1532.9 | 1438.0 | 1338.2 | 1218.3 | 1058.6 | 948.7  | 853.8  | 873.8  |
| 77.5° | 943.7   | 973.7  | 988.6  | 968.7  | 928.7  | 838.9  | 764.0  | 659.1  | 554.2  | 479.3  | 469.4  |
| 80°   | 649.1   | 674.1  | 699.0  | 674.1  | 634.1  | 569.2  | 489.3  | 409.4  | 334.5  | 294.6  | 284.6  |
| 82.5° | 494.3   | 519.3  | 534.3  | 509.3  | 459.4  | 389.5  | 334.5  | 279.6  | 219.7  | 179.8  | 169.8  |
| 85°   | 179.8   | 204.7  | 199.7  | 239.7  | 259.6  | 249.7  | 214.7  | 164.8  | 124.8  | 89.9   | 84.9   |
| 87.5° | 49.9    | 44.9   | 49.9   | 49.9   | 49.9   | 44.9   | 39.9   | 39.9   | 39.9   | 25.0   | 20.0   |
| 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)