

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: P458345

Luminaire Tested: **GLAN-SA9D-730-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52272 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 552  
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

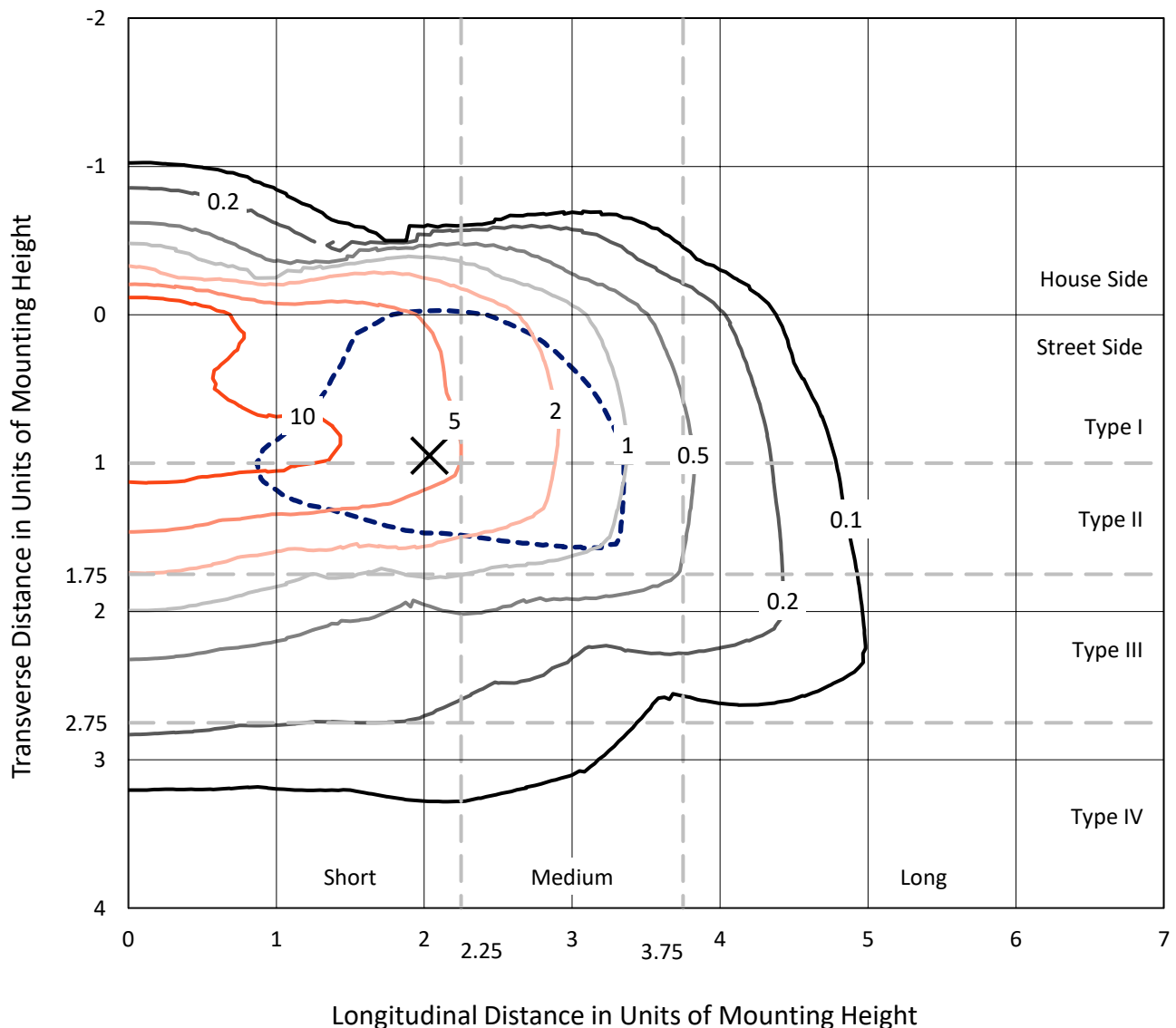


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## Iso-Footcandle Lines of Horizontal Illumination

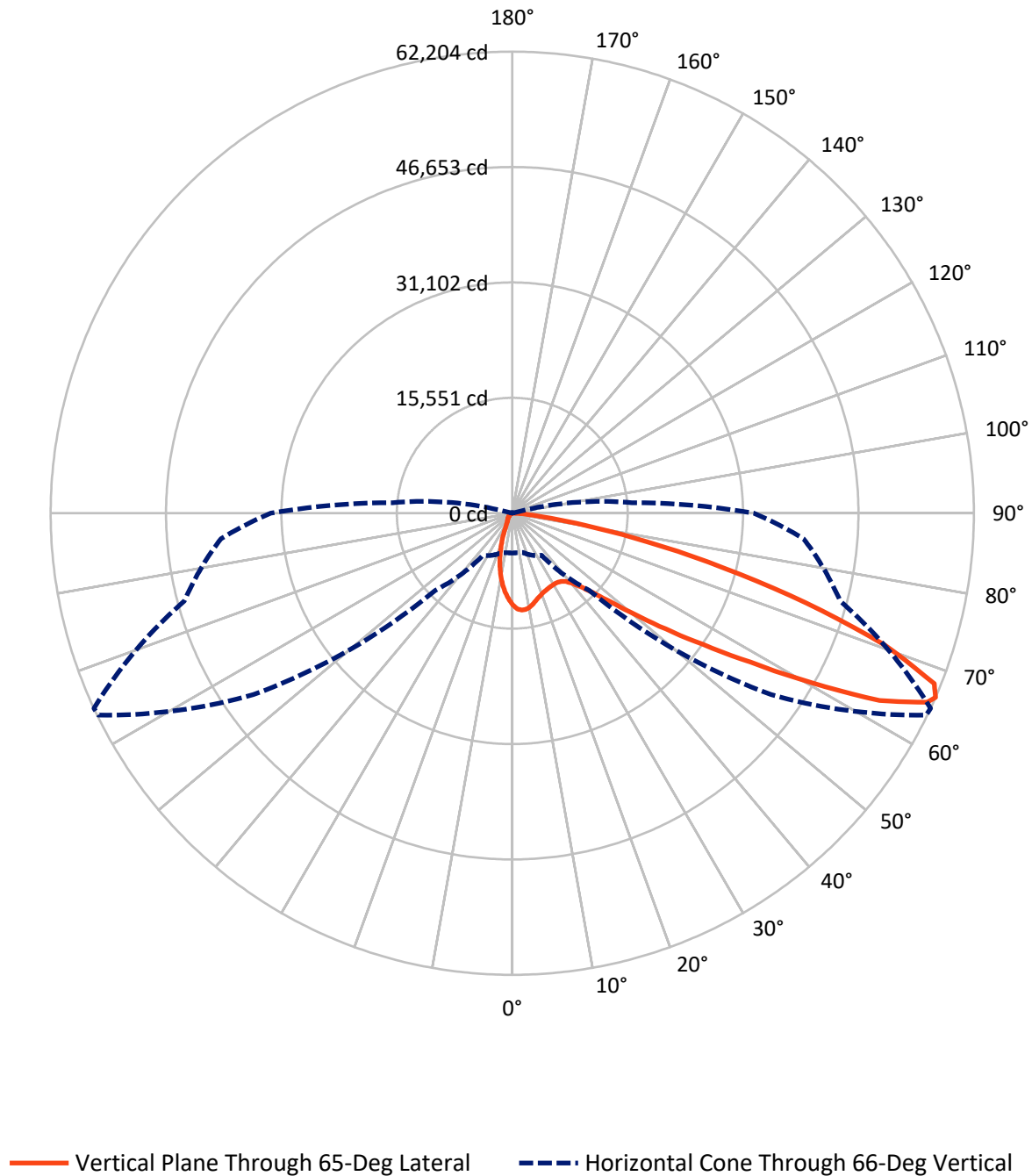
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 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    | 5405.7   | 0.0    | 5405.7  |
|                    | % Fixture | 10.3     | 0.0    | 10.3    |
| <b>Street Side</b> | Lumens    | 46866.4  | 0.0    | 46866.4 |
|                    | % Fixture | 89.7     | 0.0    | 89.7    |
| <b>Total</b>       | Lumens    | 52272.0  | 0.0    | 52272.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1013.8  | 1.9       |
| 10°-20°   | 2208.9  | 4.2       |
| 20°-30°   | 3164.2  | 6.1       |
| 30°-40°   | 4621.6  | 8.8       |
| 40°-50°   | 7749.6  | 14.8      |
| 50°-60°   | 12932.8 | 24.7      |
| 60°-70°   | 13727.8 | 26.3      |
| 70°-80°   | 6217.3  | 11.9      |
| 80°-90°   | 636.2   | 1.2       |
| 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°    | 52272.0 | 100.0     |
| 0°-180°   | 52272.0 | 100.0     |

**Coefficient of Utilization**



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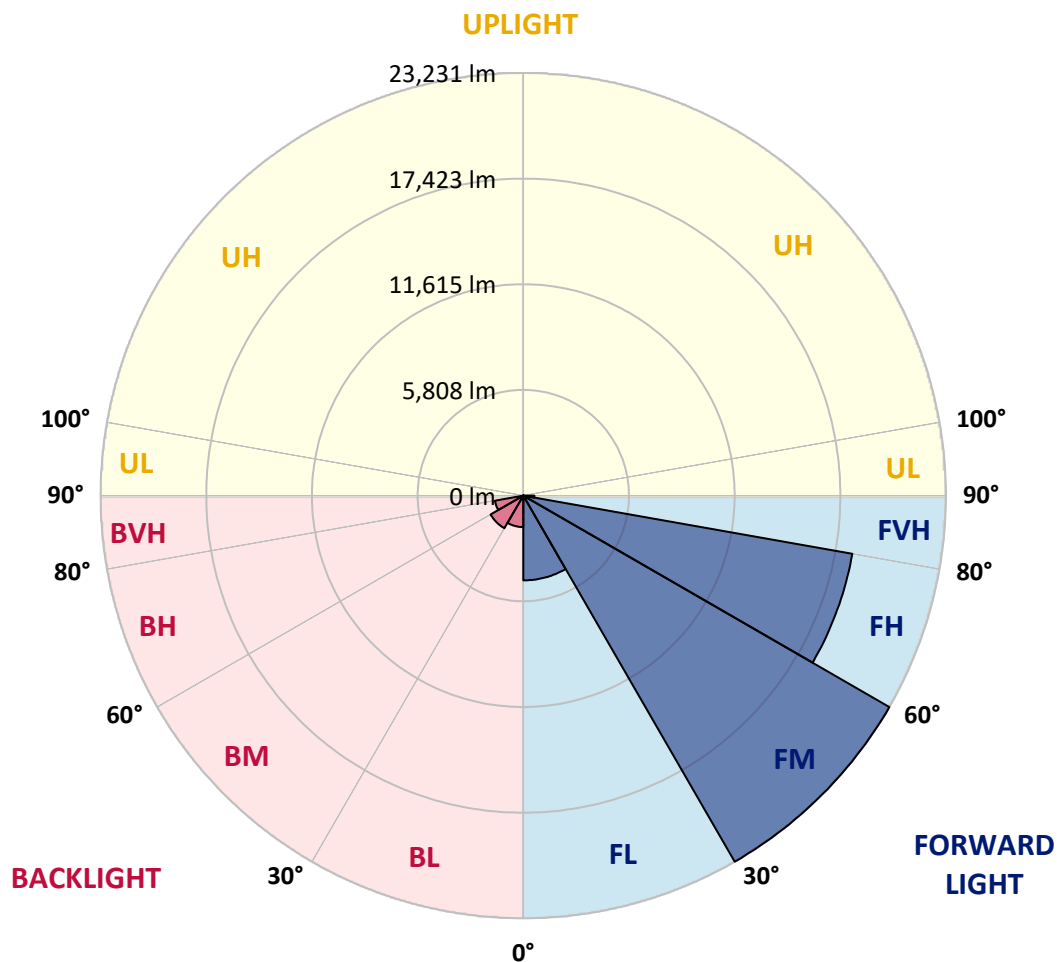
CATALOG NUMBER: GLAN-SA9D-730-U-SL2-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4657.6  | 8.9       |                         |      |         |
| FM   | (30°-60°)   | 23230.9 | 44.4      |                         |      |         |
| FH   | (60°-80°)   | 18362.0 | 35.1      |                         |      | G5      |
| FVH  | (80°-90°)   | 615.9   | 1.2       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1729.2  | 3.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2073.1  | 4.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1583.1  | 3.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 20.3    | 0.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 64°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 |
| 2.5°  | 13062.9 | 13077.0 | 13094.7 | 13119.4 | 13137.0 | 13084.1 | 13009.9 | 12925.2 | 12907.5 | 12727.5 | 12508.6 |
| 5°    | 12363.8 | 12385.0 | 12540.4 | 12625.1 | 12815.7 | 12988.7 | 13098.2 | 13112.3 | 13105.3 | 12935.8 | 12586.3 |
| 7.5°  | 11368.2 | 11428.3 | 11580.1 | 11728.4 | 12084.9 | 12413.3 | 12801.6 | 13073.5 | 13091.1 | 13045.2 | 12611.0 |
| 10°   | 10559.8 | 10598.6 | 10676.3 | 10969.3 | 11265.9 | 11767.2 | 12310.9 | 12822.8 | 12865.2 | 13048.8 | 12589.8 |
| 12.5° | 9927.8  | 9984.3  | 10079.6 | 10305.6 | 10662.1 | 11135.2 | 11753.1 | 12441.5 | 12529.8 | 12981.7 | 12529.8 |
| 15°   | 9486.5  | 9514.7  | 9610.0  | 9832.5  | 10178.5 | 10616.2 | 11241.1 | 12042.6 | 12120.2 | 12893.4 | 12519.2 |
| 17.5° | 9278.2  | 9310.0  | 9377.0  | 9553.6  | 9839.5  | 10245.5 | 10856.3 | 11721.3 | 11820.1 | 12836.9 | 12558.0 |
| 20°   | 9334.7  | 9362.9  | 9366.4  | 9458.2  | 9652.4  | 9994.9  | 10573.9 | 11421.2 | 11548.3 | 12801.6 | 12621.6 |
| 22.5° | 9655.9  | 9659.5  | 9617.1  | 9574.7  | 9641.8  | 9889.0  | 10400.9 | 11230.6 | 11361.2 | 12794.6 | 12695.7 |
| 25°   | 10136.1 | 10146.7 | 10076.1 | 9927.8  | 9793.6  | 9920.7  | 10362.0 | 11107.0 | 11223.5 | 12776.9 | 12741.6 |
| 27.5° | 10799.8 | 10796.3 | 10775.1 | 10528.0 | 10146.7 | 10062.0 | 10393.8 | 11039.9 | 11138.8 | 12727.5 | 12759.3 |
| 30°   | 11728.4 | 11700.1 | 11654.2 | 11375.3 | 10792.8 | 10404.4 | 10528.0 | 10997.5 | 11089.3 | 12656.9 | 12713.4 |
| 32.5° | 12642.8 | 12748.7 | 12741.6 | 12476.8 | 11749.5 | 11015.2 | 10806.9 | 11054.0 | 11121.1 | 12611.0 | 12646.3 |
| 35°   | 13709.0 | 13705.4 | 13977.3 | 13878.4 | 13027.6 | 11795.4 | 11283.5 | 11241.1 | 11294.1 | 12642.8 | 12614.5 |
| 37.5° | 14697.5 | 14789.3 | 15213.0 | 15315.4 | 14538.6 | 12897.0 | 11957.8 | 11643.6 | 11661.3 | 12858.1 | 12692.2 |
| 40°   | 15929.7 | 16106.2 | 16738.1 | 17080.6 | 16395.7 | 14531.6 | 12953.4 | 12381.5 | 12385.0 | 13387.7 | 12985.2 |
| 42.5° | 17518.4 | 17797.3 | 18386.9 | 18958.8 | 18591.7 | 16466.3 | 14446.8 | 13550.1 | 13543.0 | 14319.7 | 13656.0 |
| 45°   | 19449.6 | 19643.8 | 20314.6 | 21221.9 | 20988.9 | 19167.1 | 16621.6 | 15361.2 | 15269.5 | 15848.5 | 14845.8 |
| 47.5° | 21116.0 | 21380.8 | 22062.2 | 23096.6 | 24155.7 | 22464.6 | 19220.1 | 17850.3 | 17790.2 | 18281.0 | 16886.4 |
| 50°   | 21843.3 | 22076.3 | 22793.0 | 24244.0 | 26810.7 | 26793.0 | 23089.5 | 21483.2 | 21380.8 | 21645.6 | 20042.7 |
| 52.5° | 21045.4 | 21264.3 | 21988.0 | 23795.6 | 28060.5 | 32067.6 | 28696.0 | 26041.0 | 25917.5 | 25578.5 | 23813.3 |
| 55°   | 18312.8 | 18492.8 | 19562.6 | 21638.5 | 27580.3 | 35584.0 | 36420.7 | 31672.2 | 31192.1 | 29875.2 | 28081.7 |
| 57.5° | 14581.0 | 14489.2 | 15152.9 | 17564.3 | 24763.0 | 36763.2 | 44350.3 | 38687.3 | 37829.4 | 33589.3 | 31693.4 |
| 60°   | 10104.3 | 10386.8 | 10655.1 | 12243.8 | 18619.9 | 34719.0 | 49282.4 | 47506.5 | 46376.8 | 37243.3 | 35153.3 |
| 62.5° | 7428.2  | 7615.3  | 7791.8  | 8526.2  | 11707.2 | 27721.6 | 50154.4 | 56565.8 | 55563.2 | 41123.4 | 38454.3 |
| 65°   | 5874.8  | 5888.9  | 5959.5  | 6683.3  | 7714.2  | 18026.8 | 45963.7 | 61674.5 | 61416.7 | 44858.7 | 39792.4 |
| 66°   | 5352.3  | 5355.8  | 5465.2  | 6241.9  | 6923.3  | 14679.9 | 42606.2 | 62062.8 | 62204.0 | 45755.4 | 39400.5 |
| 67.5° | 4677.9  | 4663.8  | 4822.7  | 5610.0  | 6305.5  | 10584.5 | 36597.3 | 60488.2 | 61325.0 | 46443.9 | 37991.8 |
| 70°   | 3625.8  | 3608.2  | 3802.4  | 4706.2  | 5807.7  | 7061.0  | 24325.2 | 51937.3 | 53286.0 | 45035.2 | 33614.0 |
| 72.5° | 2414.9  | 2429.0  | 2760.9  | 3714.1  | 5542.9  | 6217.2  | 14634.0 | 39509.9 | 41416.4 | 37190.4 | 26443.5 |
| 75°   | 1408.7  | 1433.4  | 1811.2  | 2760.9  | 4812.1  | 5927.7  | 8282.6  | 28173.5 | 29391.5 | 25680.9 | 16473.4 |
| 77.5° | 737.9   | 748.5   | 1013.3  | 1821.7  | 3689.4  | 5504.1  | 5518.2  | 17998.5 | 18570.5 | 12480.4 | 6520.9  |
| 80°   | 391.9   | 381.3   | 543.7   | 1098.0  | 2538.4  | 4833.3  | 4476.7  | 9528.8  | 9906.6  | 3707.0  | 1648.7  |
| 82.5° | 148.3   | 162.4   | 289.5   | 720.2   | 1500.5  | 3470.5  | 3855.3  | 4211.9  | 4081.3  | 815.5   | 692.0   |
| 85°   | 28.2    | 35.3    | 123.6   | 427.2   | 755.5   | 1451.0  | 2842.1  | 2065.3  | 1913.5  | 307.2   | 398.9   |
| 87.5° | 3.5     | 7.1     | 35.3    | 102.4   | 109.4   | 490.7   | 840.3   | 571.9   | 494.3   | 113.0   | 165.9   |
| 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°    | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 | 12395.6 |
| 2.5°  | 12402.7 | 12307.4 | 11989.6 | 11675.4 | 11354.1 | 11064.6 | 10866.9 | 10545.6 | 10464.4 | 10347.9 | 10280.8 |
| 5°    | 12378.0 | 12155.5 | 11544.8 | 10877.5 | 10256.1 | 9585.3  | 9073.4  | 8579.1  | 8314.3  | 8180.2  | 8130.8  |
| 7.5°  | 12307.4 | 11954.3 | 11001.1 | 9956.0  | 8960.4  | 7957.8  | 7085.7  | 6422.0  | 5994.8  | 5701.8  | 5504.1  |
| 10°   | 12166.1 | 11678.9 | 10369.1 | 8932.2  | 7428.2  | 6104.3  | 4999.2  | 4158.9  | 3509.3  | 3304.6  | 3311.6  |
| 12.5° | 12021.4 | 11371.8 | 9663.0  | 7795.4  | 5931.3  | 4261.3  | 3089.2  | 2425.5  | 2114.8  | 2012.4  | 1991.2  |
| 15°   | 11887.2 | 11078.7 | 8971.0  | 6693.8  | 4416.7  | 2760.9  | 1991.2  | 1758.2  | 1673.5  | 1655.8  | 1652.3  |
| 17.5° | 11816.6 | 10806.9 | 8233.1  | 5433.5  | 3082.1  | 1874.7  | 1595.8  | 1532.2  | 1507.5  | 1489.9  | 1482.8  |
| 20°   | 11756.6 | 10570.3 | 7527.0  | 4254.3  | 2107.7  | 1535.8  | 1429.9  | 1369.8  | 1327.5  | 1309.8  | 1299.2  |
| 22.5° | 11714.2 | 10326.7 | 6796.2  | 3294.0  | 1613.4  | 1362.8  | 1267.5  | 1189.8  | 1129.8  | 1108.6  | 1094.5  |
| 25°   | 11650.7 | 10058.4 | 6058.4  | 2407.8  | 1359.2  | 1211.0  | 1101.5  | 1009.7  | 932.1   | 893.2   | 886.2   |
| 27.5° | 11558.9 | 9754.8  | 5249.9  | 1782.9  | 1214.5  | 1076.8  | 942.6   | 829.7   | 752.0   | 709.6   | 713.2   |
| 30°   | 11410.6 | 9437.1  | 4441.4  | 1415.7  | 1098.0  | 939.1   | 794.4   | 684.9   | 610.8   | 579.0   | 575.5   |
| 32.5° | 11234.1 | 9052.2  | 3700.0  | 1214.5  | 992.1   | 815.5   | 663.7   | 568.4   | 511.9   | 487.2   | 483.7   |
| 35°   | 11068.1 | 8663.9  | 2944.4  | 1090.9  | 882.6   | 702.6   | 557.8   | 476.6   | 434.3   | 413.1   | 416.6   |
| 37.5° | 10976.4 | 8317.9  | 2294.8  | 992.1   | 794.4   | 603.7   | 480.1   | 409.5   | 370.7   | 353.1   | 349.5   |
| 40°   | 11036.4 | 8035.4  | 1825.3  | 903.8   | 695.5   | 519.0   | 413.1   | 353.1   | 314.2   | 289.5   | 289.5   |
| 42.5° | 11318.8 | 7911.9  | 1472.2  | 819.1   | 603.7   | 448.4   | 360.1   | 303.6   | 261.3   | 236.5   | 240.1   |
| 45°   | 12180.3 | 8042.5  | 1232.1  | 741.4   | 519.0   | 388.4   | 310.7   | 250.7   | 211.8   | 194.2   | 190.6   |
| 47.5° | 13610.1 | 8533.2  | 1066.2  | 660.2   | 444.8   | 331.9   | 261.3   | 208.3   | 169.5   | 155.3   | 151.8   |
| 50°   | 16109.7 | 9546.5  | 942.6   | 579.0   | 377.8   | 282.4   | 215.4   | 165.9   | 134.2   | 120.0   | 120.0   |
| 52.5° | 19548.4 | 11756.6 | 854.4   | 487.2   | 317.7   | 240.1   | 176.5   | 134.2   | 105.9   | 95.3    | 91.8    |
| 55°   | 23142.5 | 14086.7 | 808.5   | 409.5   | 264.8   | 197.7   | 141.2   | 105.9   | 81.2    | 70.6    | 67.1    |
| 57.5° | 26598.9 | 15915.5 | 755.5   | 331.9   | 211.8   | 151.8   | 109.4   | 81.2    | 56.5    | 49.4    | 45.9    |
| 60°   | 29914.0 | 17394.8 | 642.6   | 264.8   | 165.9   | 109.4   | 81.2    | 56.5    | 38.8    | 31.8    | 31.8    |
| 62.5° | 32879.6 | 18256.3 | 504.9   | 211.8   | 127.1   | 77.7    | 53.0    | 42.4    | 28.2    | 21.2    | 21.2    |
| 65°   | 33225.6 | 17137.1 | 381.3   | 162.4   | 91.8    | 49.4    | 31.8    | 31.8    | 21.2    | 14.1    | 14.1    |
| 66°   | 32530.1 | 16187.4 | 335.4   | 148.3   | 81.2    | 42.4    | 28.2    | 24.7    | 17.7    | 10.6    | 10.6    |
| 67.5° | 30976.7 | 14566.9 | 289.5   | 127.1   | 67.1    | 31.8    | 21.2    | 21.2    | 14.1    | 7.1     | 7.1     |
| 70°   | 26764.8 | 11897.8 | 229.5   | 95.3    | 49.4    | 24.7    | 14.1    | 14.1    | 10.6    | 7.1     | 7.1     |
| 72.5° | 20399.3 | 8882.8  | 187.1   | 70.6    | 35.3    | 17.7    | 10.6    | 10.6    | 10.6    | 7.1     | 7.1     |
| 75°   | 12303.8 | 4783.8  | 144.8   | 53.0    | 31.8    | 14.1    | 7.1     | 10.6    | 14.1    | 10.6    | 7.1     |
| 77.5° | 4533.2  | 1627.6  | 113.0   | 42.4    | 24.7    | 14.1    | 7.1     | 7.1     | 14.1    | 10.6    | 10.6    |
| 80°   | 1112.1  | 423.7   | 81.2    | 35.3    | 24.7    | 14.1    | 7.1     | 7.1     | 14.1    | 14.1    | 14.1    |
| 82.5° | 515.5   | 180.1   | 56.5    | 31.8    | 24.7    | 14.1    | 7.1     | 7.1     | 10.6    | 14.1    | 14.1    |
| 85°   | 296.6   | 84.7    | 45.9    | 35.3    | 24.7    | 14.1    | 7.1     | 7.1     | 10.6    | 14.1    | 14.1    |
| 87.5° | 120.0   | 42.4    | 42.4    | 35.3    | 28.2    | 17.7    | 7.1     | 7.1     | 7.1     | 10.6    | 10.6    |
| 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)