

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: P454638

Luminaire Tested: **GLAN-SA5D-730-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454638  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34535 lumens  
Efficiency: N/A  
Efficacy: 111.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 309  
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

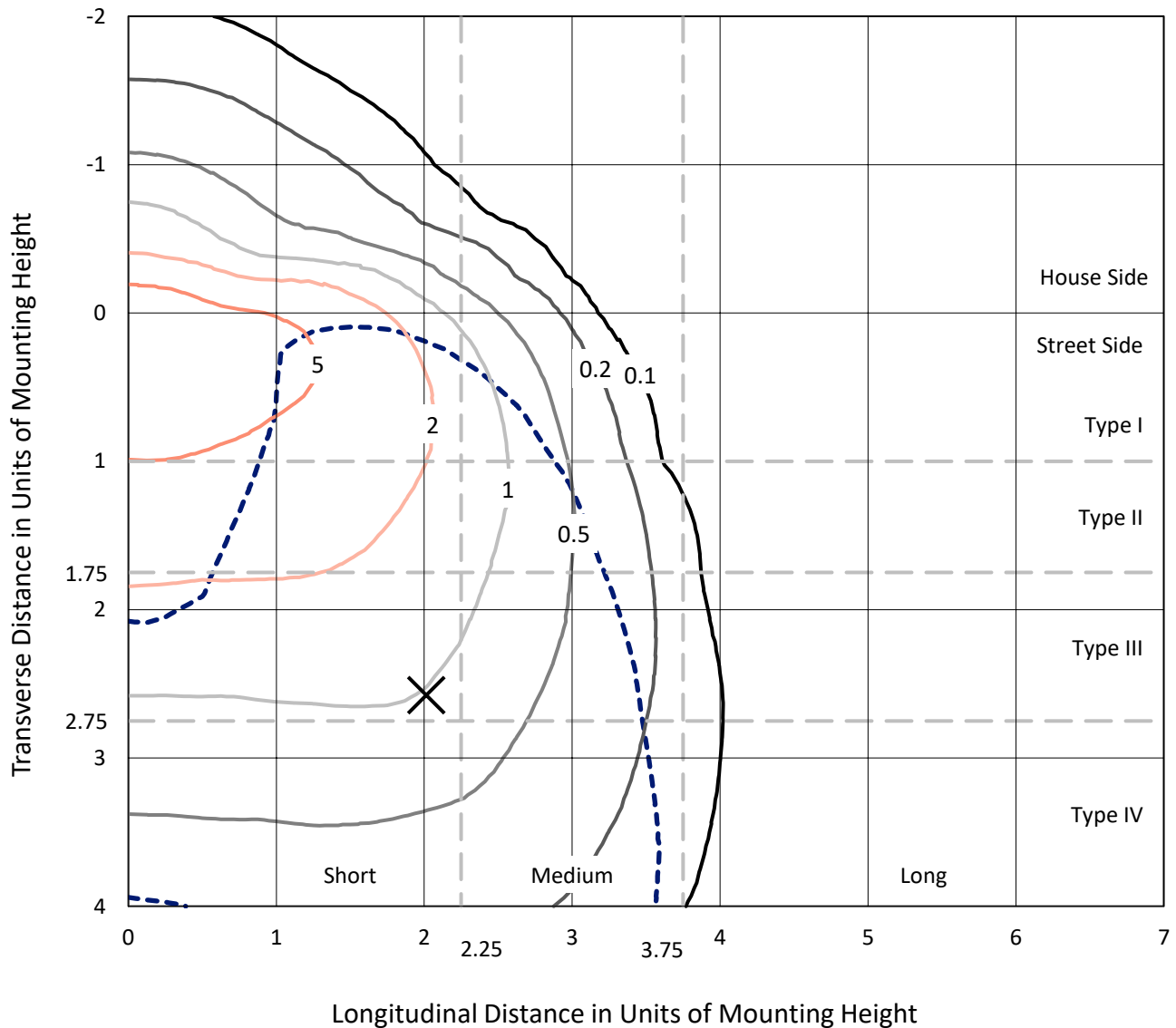


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

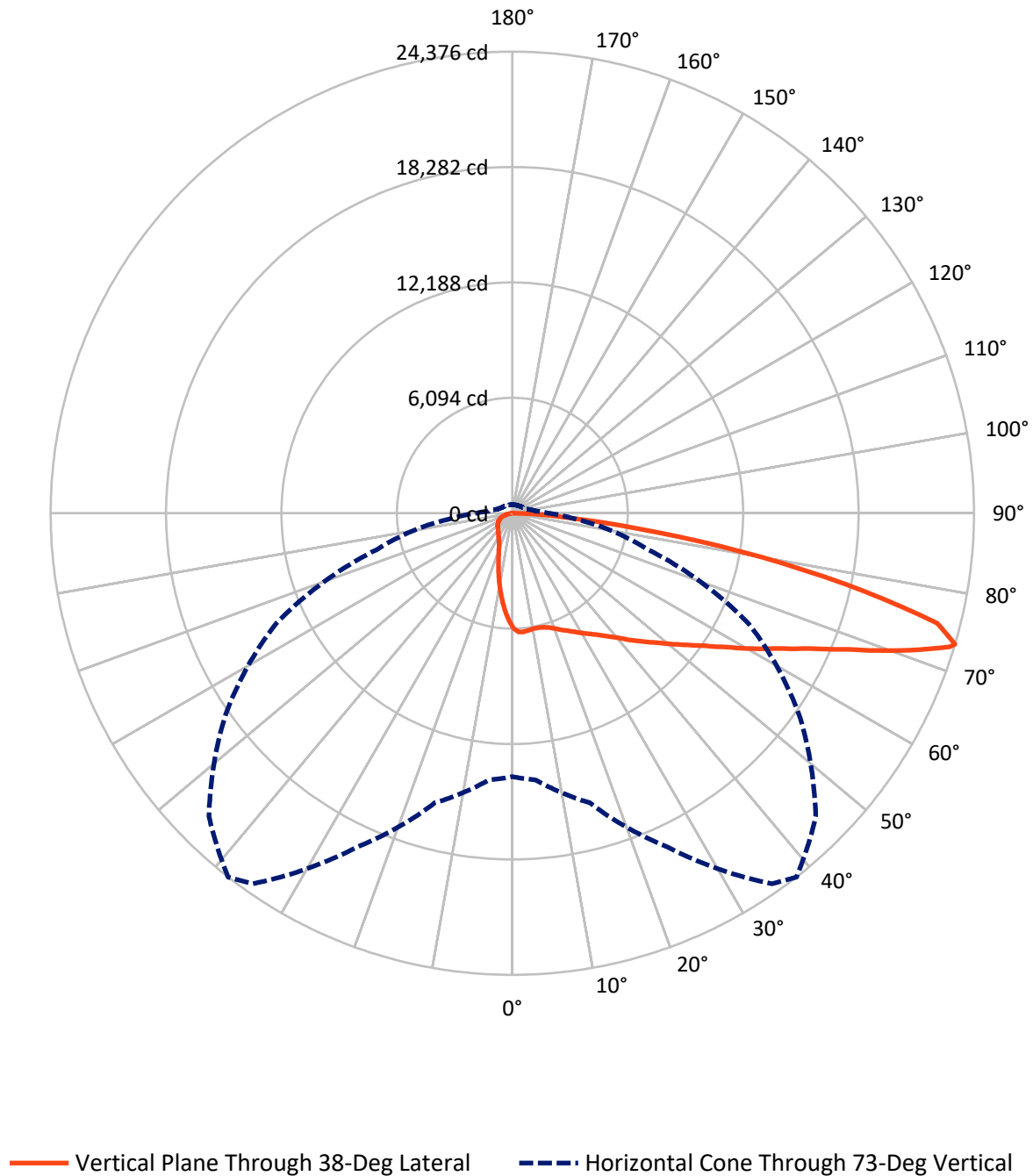


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4642.5   | 0.0    | 4642.5  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 29892.5  | 0.0    | 29892.5 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 34535.0  | 0.0    | 34535.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 529.6   | 1.5       |
| 10°-20°   | 1358.1  | 3.9       |
| 20°-30°   | 2114.8  | 6.1       |
| 30°-40°   | 3101.9  | 9.0       |
| 40°-50°   | 4601.3  | 13.3      |
| 50°-60°   | 6519.1  | 18.9      |
| 60°-70°   | 8269.7  | 23.9      |
| 70°-80°   | 6883.9  | 19.9      |
| 80°-90°   | 1156.6  | 3.3       |
| 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°    | 34535.0 | 100.0     |
| 0°-180°   | 34535.0 | 100.0     |

**Coefficient of Utilization**



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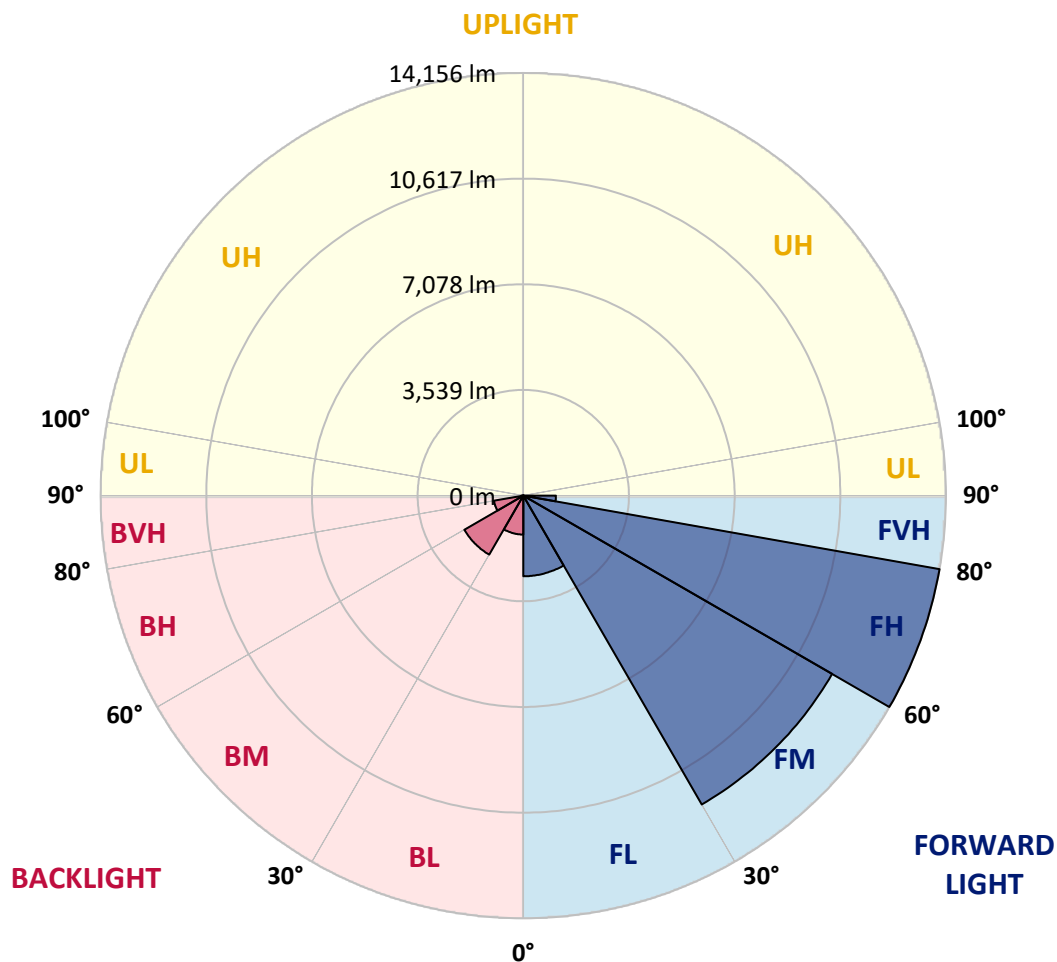
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2699.7  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 11943.1 | 34.6      |                         |      |         |
| FH   | (60°-80°)   | 14155.8 | 41.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 1093.9  | 3.2       |                         |      | G5      |
| BL   | (0°-30°)    | 1302.7  | 3.8       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2279.2  | 6.6       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 997.9   | 2.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 62.7    | 0.2       |                         |      | 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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 38°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6067.2  | 6067.2  | 6067.2  | 6067.2  | 6067.2  | 6067.2  | 6067.2  | 6067.2  | 6067.2  | 6067.2  | 6067.2  |
| 2.5°  | 6311.0  | 6342.2  | 6326.6  | 6305.1  | 6291.5  | 6277.8  | 6258.3  | 6201.8  | 6156.9  | 6108.2  | 6032.1  |
| 5°    | 6357.8  | 6377.3  | 6363.7  | 6336.3  | 6305.1  | 6291.5  | 6254.4  | 6180.3  | 6108.2  | 6026.3  | 5913.1  |
| 7.5°  | 6330.5  | 6338.3  | 6322.7  | 6289.5  | 6262.2  | 6236.9  | 6194.0  | 6112.1  | 6024.3  | 5924.8  | 5776.6  |
| 10°   | 6233.0  | 6262.2  | 6262.2  | 6234.9  | 6207.6  | 6194.0  | 6151.1  | 6073.1  | 5993.1  | 5880.0  | 5704.5  |
| 12.5° | 6153.0  | 6184.2  | 6209.6  | 6201.8  | 6199.8  | 6199.8  | 6166.7  | 6108.2  | 6014.6  | 5907.3  | 5698.6  |
| 15°   | 6098.4  | 6135.5  | 6190.1  | 6221.3  | 6240.8  | 6246.6  | 6233.0  | 6182.3  | 6086.7  | 5961.9  | 5722.0  |
| 17.5° | 6086.7  | 6131.6  | 6231.0  | 6299.3  | 6350.0  | 6348.0  | 6344.1  | 6273.9  | 6168.6  | 6039.9  | 5751.3  |
| 20°   | 6139.4  | 6197.9  | 6336.3  | 6443.6  | 6517.7  | 6504.1  | 6482.6  | 6391.0  | 6268.1  | 6123.8  | 5778.6  |
| 22.5° | 6297.3  | 6357.8  | 6509.9  | 6626.9  | 6699.1  | 6699.1  | 6634.7  | 6513.8  | 6383.2  | 6221.3  | 5815.6  |
| 25°   | 6523.6  | 6589.9  | 6751.8  | 6870.7  | 6903.9  | 6878.5  | 6814.2  | 6667.9  | 6517.7  | 6361.7  | 5893.6  |
| 27.5° | 6800.5  | 6880.5  | 7030.6  | 7130.1  | 7120.3  | 7100.8  | 7034.5  | 6847.3  | 6697.1  | 6554.8  | 6026.3  |
| 30°   | 7145.7  | 7204.2  | 7360.2  | 7383.6  | 7348.5  | 7344.6  | 7251.0  | 7063.8  | 6923.4  | 6814.2  | 6215.4  |
| 32.5° | 7471.4  | 7524.0  | 7648.9  | 7658.6  | 7596.2  | 7604.0  | 7516.2  | 7344.6  | 7264.7  | 7225.7  | 6533.3  |
| 35°   | 7816.6  | 7843.9  | 7951.2  | 7939.5  | 7898.5  | 7892.6  | 7857.5  | 7693.7  | 7719.1  | 7789.3  | 6983.8  |
| 37.5° | 8105.2  | 8159.8  | 8220.3  | 8230.0  | 8228.1  | 8247.6  | 8271.0  | 8193.0  | 8339.3  | 8559.6  | 7574.8  |
| 40°   | 8370.5  | 8417.3  | 8507.0  | 8538.2  | 8614.2  | 8653.2  | 8733.2  | 8735.2  | 9072.5  | 9435.3  | 8302.2  |
| 42.5° | 8549.9  | 8629.8  | 8797.6  | 8854.1  | 9039.4  | 9156.4  | 9275.4  | 9402.1  | 9891.6  | 10357.8 | 9160.3  |
| 45°   | 8705.9  | 8811.2  | 9090.1  | 9265.6  | 9517.2  | 9659.6  | 9911.1  | 10176.4 | 10880.4 | 11490.8 | 10032.1 |
| 47.5° | 8941.9  | 9035.5  | 9355.3  | 9665.4  | 10045.7 | 10209.5 | 10585.9 | 10981.8 | 11902.3 | 12571.3 | 10866.8 |
| 50°   | 9269.5  | 9326.1  | 9651.8  | 10156.9 | 10642.5 | 10853.1 | 11350.4 | 11921.9 | 12994.5 | 13638.1 | 11600.1 |
| 52.5° | 9688.8  | 9712.2  | 9971.6  | 10644.4 | 11284.1 | 11545.5 | 12204.6 | 12871.6 | 13950.1 | 14564.4 | 12181.2 |
| 55°   | 10184.2 | 10145.2 | 10348.0 | 11161.3 | 12017.4 | 12358.7 | 13066.6 | 13833.1 | 15024.7 | 15313.3 | 12604.4 |
| 57.5° | 10673.7 | 10613.2 | 10775.1 | 11789.2 | 12922.3 | 13333.8 | 14158.8 | 14823.8 | 15984.2 | 16013.5 | 12900.9 |
| 60°   | 11192.5 | 11147.6 | 11340.7 | 12526.4 | 14032.0 | 14519.6 | 15282.1 | 15851.6 | 16912.5 | 16501.0 | 12947.7 |
| 62.5° | 11724.9 | 11652.7 | 11927.7 | 13355.3 | 15282.1 | 15724.8 | 16464.0 | 16943.7 | 17823.3 | 16682.4 | 12497.2 |
| 65°   | 12241.7 | 12208.5 | 12633.7 | 14340.2 | 16705.8 | 17209.0 | 17926.7 | 18252.3 | 18552.7 | 16409.4 | 11379.7 |
| 67.5° | 12791.7 | 12858.0 | 13536.7 | 15654.6 | 18562.4 | 19194.3 | 19968.6 | 19662.4 | 18761.4 | 15116.4 | 9583.5  |
| 70°   | 13630.3 | 13673.2 | 14722.4 | 17376.7 | 20955.4 | 21717.9 | 22092.4 | 20163.6 | 17755.0 | 12661.0 | 7204.2  |
| 72.5° | 13991.1 | 14180.2 | 15781.4 | 19184.6 | 23674.0 | 24140.1 | 22806.2 | 19046.1 | 14790.7 | 8600.6  | 3785.4  |
| 73°   | 13911.1 | 14137.3 | 15830.1 | 19459.6 | 23886.6 | 24376.1 | 22654.1 | 18470.8 | 13749.2 | 7407.0  | 3245.2  |
| 75°   | 12914.5 | 13193.4 | 15196.3 | 19229.4 | 23473.2 | 23180.6 | 20208.4 | 15742.4 | 9291.0  | 3368.1  | 1478.3  |
| 77.5° | 10190.0 | 10270.0 | 12040.8 | 15527.9 | 18484.4 | 17942.3 | 15124.2 | 9839.0  | 3795.2  | 1252.1  | 838.6   |
| 80°   | 5111.6  | 5406.1  | 6786.9  | 8895.1  | 12360.7 | 12183.2 | 9546.5  | 4653.3  | 1581.6  | 735.2   | 555.8   |
| 82.5° | 2459.3  | 2667.9  | 3305.7  | 4337.3  | 6829.8  | 6667.9  | 4727.4  | 2543.1  | 1004.4  | 429.1   | 327.6   |
| 85°   | 1583.6  | 1739.6  | 2104.3  | 2069.2  | 2808.4  | 2681.6  | 2123.8  | 1924.9  | 594.8   | 224.3   | 228.2   |
| 87.5° | 1045.3  | 1144.8  | 1373.0  | 1098.0  | 1021.9  | 924.4   | 938.1   | 1084.3  | 117.0   | 85.8    | 31.2    |
| 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°    | 6067.2  | 6067.2 | 6067.2 | 6067.2 | 6067.2 | 6067.2 | 6067.2 | 6067.2 | 6067.2 | 6067.2 | 6067.2 |
| 2.5°  | 6000.9  | 5975.6 | 5891.7 | 5809.8 | 5731.8 | 5657.7 | 5608.9 | 5544.5 | 5501.6 | 5513.3 | 5530.9 |
| 5°    | 5850.7  | 5794.2 | 5646.0 | 5501.6 | 5365.1 | 5203.3 | 5072.6 | 4967.3 | 4887.3 | 4858.1 | 4852.2 |
| 7.5°  | 5692.8  | 5597.2 | 5384.6 | 5136.9 | 4904.9 | 4704.0 | 4471.9 | 4356.8 | 4222.3 | 4175.5 | 4159.9 |
| 10°   | 5597.2  | 5468.5 | 5170.1 | 4824.9 | 4475.8 | 4142.3 | 3890.7 | 3686.0 | 3500.7 | 3465.6 | 3448.0 |
| 12.5° | 5569.9  | 5400.2 | 4998.5 | 4553.8 | 4089.7 | 3680.1 | 3307.6 | 3038.5 | 2859.1 | 2818.1 | 2757.6 |
| 15°   | 5554.3  | 5343.7 | 4838.6 | 4280.8 | 3691.8 | 3192.6 | 2800.6 | 2486.6 | 2322.7 | 2213.5 | 2215.5 |
| 17.5° | 5540.6  | 5279.3 | 4659.1 | 3982.4 | 3348.6 | 2773.2 | 2340.3 | 2057.5 | 1907.3 | 1848.8 | 1843.0 |
| 20°   | 5521.1  | 5203.3 | 4452.4 | 3668.4 | 2956.6 | 2391.0 | 1999.0 | 1788.4 | 1687.0 | 1638.2 | 1636.3 |
| 22.5° | 5513.3  | 5129.1 | 4249.6 | 3348.6 | 2609.4 | 2096.5 | 1772.8 | 1624.6 | 1560.2 | 1527.0 | 1527.0 |
| 25°   | 5532.8  | 5076.5 | 4037.0 | 3044.3 | 2301.3 | 1844.9 | 1616.8 | 1515.3 | 1478.3 | 1460.7 | 1454.9 |
| 27.5° | 5593.3  | 5053.1 | 3826.4 | 2740.1 | 2018.5 | 1673.3 | 1511.4 | 1441.2 | 1413.9 | 1400.3 | 1402.2 |
| 30°   | 5708.4  | 5051.1 | 3619.7 | 2439.8 | 1807.9 | 1542.6 | 1427.6 | 1378.8 | 1357.4 | 1349.6 | 1347.6 |
| 32.5° | 5893.6  | 5094.0 | 3416.8 | 2192.1 | 1630.4 | 1433.4 | 1349.6 | 1314.5 | 1304.7 | 1298.9 | 1296.9 |
| 35°   | 6207.6  | 5215.0 | 3216.0 | 1965.8 | 1493.9 | 1335.9 | 1275.5 | 1257.9 | 1244.3 | 1250.1 | 1252.1 |
| 37.5° | 6630.8  | 5423.6 | 3024.8 | 1788.4 | 1390.5 | 1263.8 | 1213.1 | 1197.5 | 1189.6 | 1195.5 | 1201.4 |
| 40°   | 7198.4  | 5724.0 | 2864.9 | 1646.0 | 1316.4 | 1203.3 | 1158.4 | 1144.8 | 1137.0 | 1146.7 | 1148.7 |
| 42.5° | 7824.4  | 6071.1 | 2732.3 | 1534.8 | 1256.0 | 1152.6 | 1109.7 | 1094.1 | 1088.2 | 1094.1 | 1096.0 |
| 45°   | 8468.0  | 6474.8 | 2664.0 | 1454.9 | 1205.3 | 1115.5 | 1070.7 | 1053.1 | 1039.5 | 1035.6 | 1041.4 |
| 47.5° | 9101.8  | 6825.9 | 2662.1 | 1406.1 | 1164.3 | 1082.4 | 1033.6 | 1014.1 | 996.6  | 986.8  | 984.9  |
| 50°   | 9618.6  | 7104.7 | 2708.9 | 1384.7 | 1129.2 | 1045.3 | 996.6  | 977.1  | 953.7  | 934.2  | 938.1  |
| 52.5° | 10008.7 | 7286.1 | 2730.3 | 1374.9 | 1109.7 | 1006.3 | 957.6  | 940.0  | 912.7  | 887.4  | 887.4  |
| 55°   | 10260.2 | 7329.0 | 2677.7 | 1365.2 | 1094.1 | 965.4  | 912.7  | 897.1  | 869.8  | 844.5  | 844.5  |
| 57.5° | 10346.1 | 7196.4 | 2488.5 | 1341.8 | 1078.5 | 930.3  | 867.9  | 854.2  | 832.8  | 807.4  | 803.5  |
| 60°   | 10147.1 | 6747.8 | 2157.0 | 1271.6 | 1047.3 | 893.2  | 819.1  | 813.3  | 805.5  | 784.0  | 782.0  |
| 62.5° | 9380.7  | 5796.1 | 1796.2 | 1179.9 | 994.6  | 854.2  | 774.2  | 784.0  | 789.8  | 778.1  | 776.2  |
| 65°   | 8105.2  | 4705.9 | 1534.8 | 1053.1 | 924.4  | 799.6  | 725.5  | 750.8  | 766.4  | 766.4  | 762.5  |
| 67.5° | 6574.3  | 3613.8 | 1293.0 | 943.9  | 836.7  | 725.5  | 670.9  | 690.4  | 702.1  | 698.2  | 707.9  |
| 70°   | 4672.8  | 2447.6 | 1053.1 | 819.1  | 725.5  | 641.6  | 600.7  | 600.7  | 592.9  | 589.0  | 589.0  |
| 72.5° | 2266.2  | 1398.3 | 854.2  | 684.5  | 618.2  | 548.0  | 514.9  | 501.2  | 485.6  | 483.7  | 473.9  |
| 73°   | 1893.7  | 1254.0 | 815.2  | 659.2  | 592.9  | 534.4  | 497.3  | 475.9  | 466.1  | 458.3  | 456.4  |
| 75°   | 1152.6  | 951.7  | 680.6  | 555.8  | 505.1  | 460.3  | 427.1  | 407.6  | 397.9  | 392.0  | 390.0  |
| 77.5° | 758.6   | 709.9  | 528.5  | 425.2  | 386.1  | 358.8  | 345.2  | 325.7  | 319.8  | 312.0  | 312.0  |
| 80°   | 565.6   | 542.2  | 378.3  | 300.3  | 276.9  | 253.5  | 249.6  | 245.7  | 230.1  | 220.4  | 216.5  |
| 82.5° | 364.7   | 386.1  | 257.4  | 200.9  | 175.5  | 156.0  | 158.0  | 163.8  | 148.2  | 134.6  | 130.7  |
| 85°   | 259.4   | 278.9  | 156.0  | 91.7   | 74.1   | 64.4   | 72.2   | 64.4   | 66.3   | 52.7   | 42.9   |
| 87.5° | 42.9    | 74.1   | 27.3   | 11.7   | 5.9    | 3.9    | 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)