

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: P454631

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5D-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35627 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

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

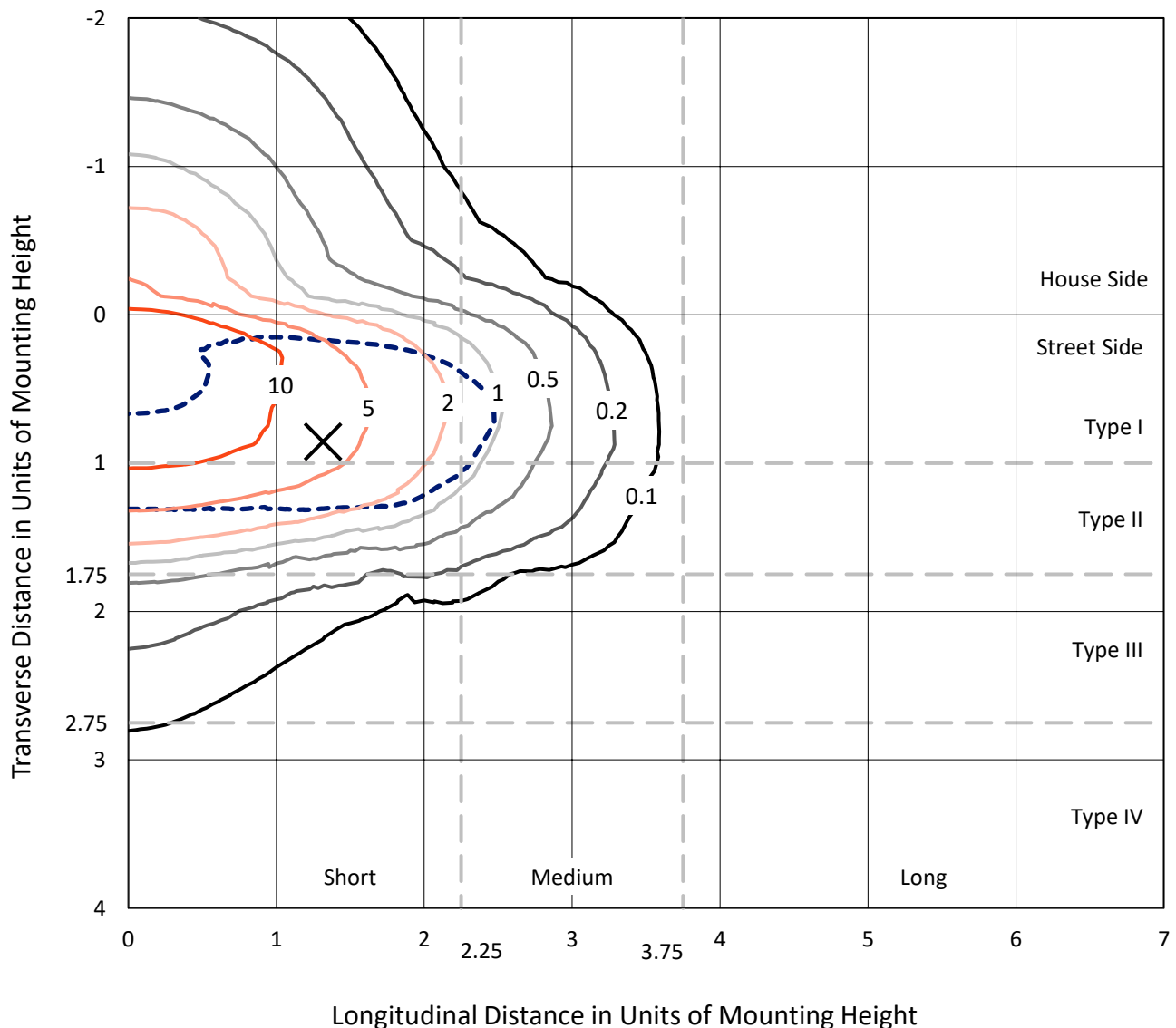


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

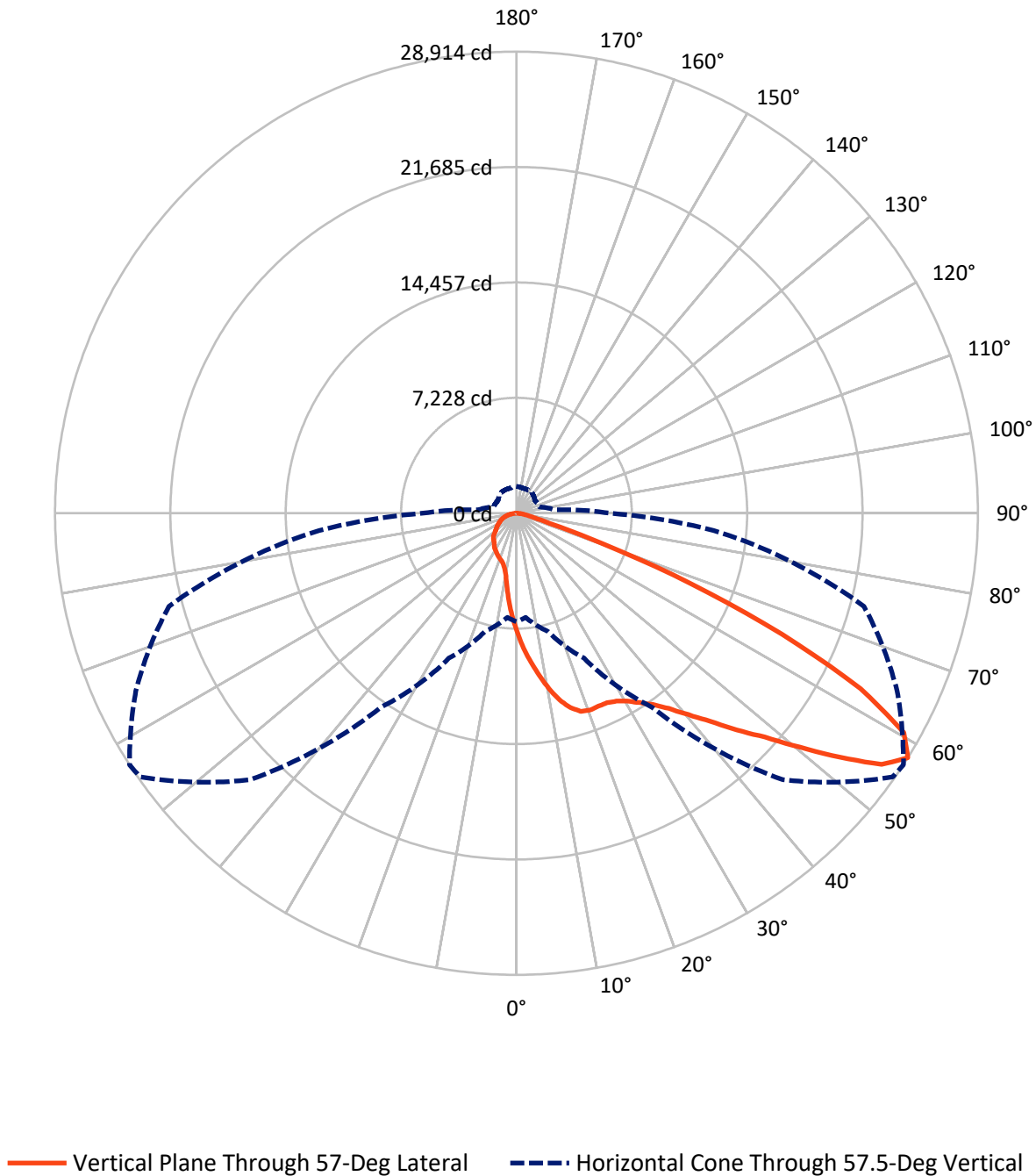


Based on 25 foot mounting height. Maximum calculated value = 18.2 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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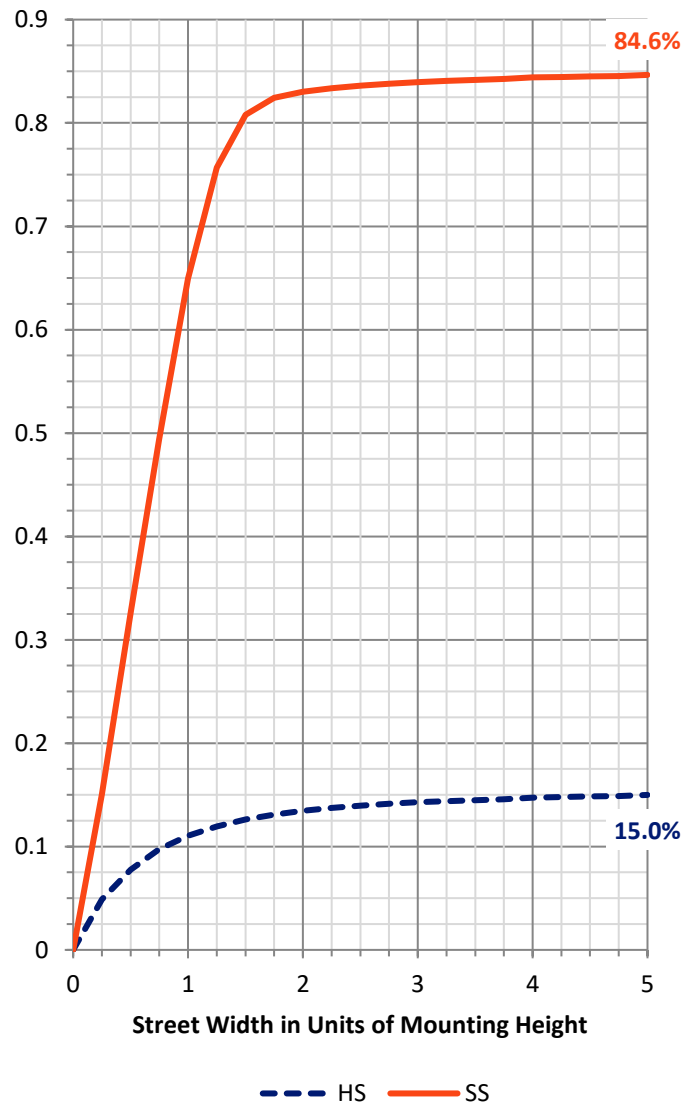
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5417.9   | 0.0    | 5417.9  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 30209.1  | 0.0    | 30209.1 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 35627.0  | 0.0    | 35627.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 719.4   | 2.0       |
| 10°-20°   | 2120.0  | 6.0       |
| 20°-30°   | 3520.3  | 9.9       |
| 30°-40°   | 5302.6  | 14.9      |
| 40°-50°   | 7961.4  | 22.3      |
| 50°-60°   | 8923.7  | 25.0      |
| 60°-70°   | 5222.6  | 14.7      |
| 70°-80°   | 1544.8  | 4.3       |
| 80°-90°   | 312.2   | 0.9       |
| 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°    | 35627.0 | 100.0     |
| 0°-180°   | 35627.0 | 100.0     |

**Coefficient of Utilization**



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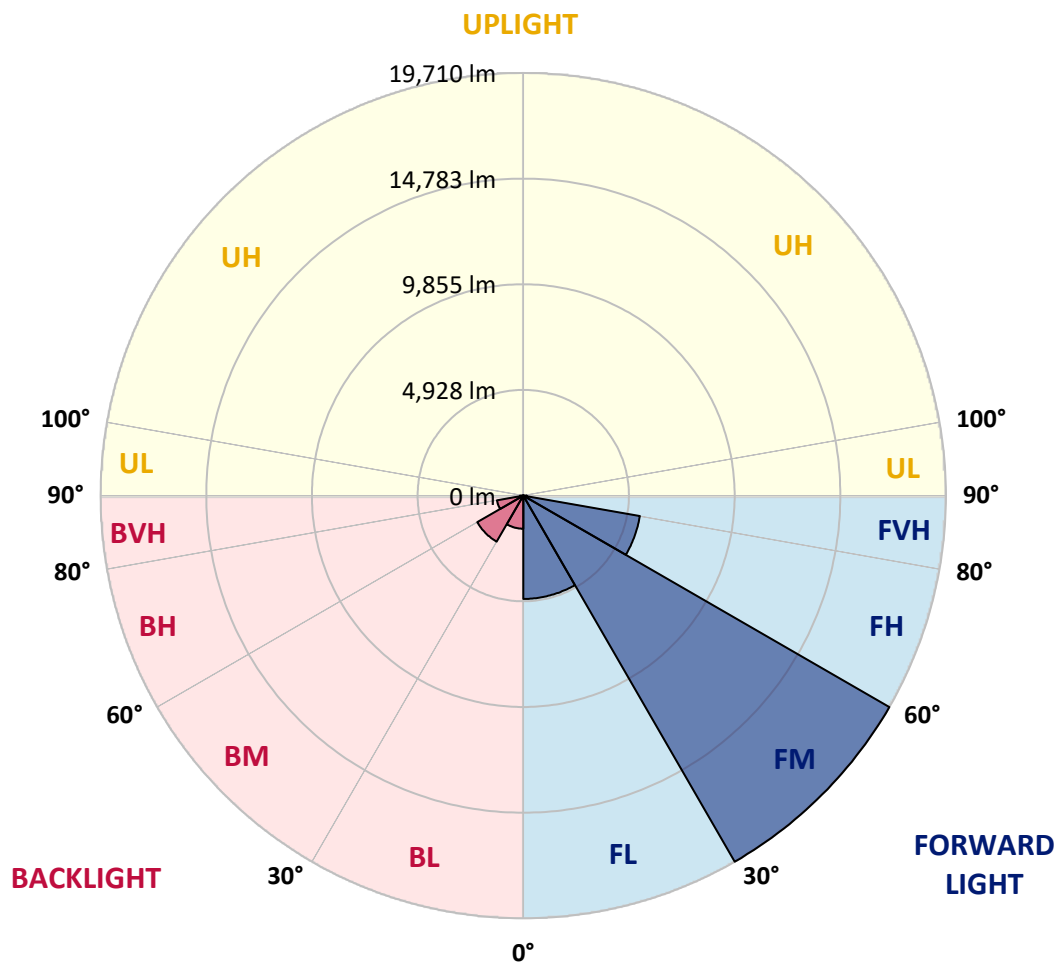
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4815.9  | 13.5      |                         |      |         |
| FM   | (30°-60°)   | 19710.4 | 55.3      |                         |      |         |
| FH   | (60°-80°)   | 5520.8  | 15.5      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 162.0   | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1543.7  | 4.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2477.3  | 7.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1246.6  | 3.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 150.2   | 0.4       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7484.8  | 7484.8  | 7484.8  | 7484.8  | 7484.8  | 7484.8  | 7484.8  | 7484.8  | 7484.8  | 7484.8  | 7484.8  |
| 2.5°  | 9300.5  | 9199.0  | 9119.1  | 9048.9  | 8957.2  | 8709.5  | 8461.9  | 8458.0  | 8261.0  | 7956.8  | 7644.7  |
| 5°    | 10815.7 | 10679.2 | 10696.8 | 10478.4 | 10259.9 | 9901.1  | 9376.5  | 9349.2  | 8929.9  | 8360.5  | 7781.3  |
| 7.5°  | 11802.5 | 11804.5 | 11749.9 | 11625.1 | 11389.1 | 10981.5 | 10386.7 | 10252.1 | 9669.0  | 8805.1  | 7937.3  |
| 10°   | 11751.8 | 11804.5 | 11896.2 | 12003.4 | 12075.6 | 11874.7 | 11332.5 | 11168.7 | 10410.1 | 9343.4  | 8110.8  |
| 12.5° | 11077.1 | 11159.0 | 11289.6 | 11558.8 | 11993.7 | 12325.2 | 12139.9 | 12007.3 | 11268.2 | 9879.7  | 8302.0  |
| 15°   | 10655.8 | 10704.6 | 10776.7 | 10958.1 | 11426.2 | 12219.9 | 12699.6 | 12629.4 | 12077.5 | 10486.2 | 8516.5  |
| 17.5° | 10527.1 | 10575.9 | 10599.3 | 10710.4 | 11043.9 | 11857.1 | 12920.0 | 13044.8 | 12795.2 | 11043.9 | 8732.9  |
| 20°   | 10655.8 | 10679.2 | 10679.2 | 10745.5 | 11006.9 | 11644.6 | 12910.3 | 13161.8 | 13384.1 | 11712.8 | 8935.8  |
| 22.5° | 10993.2 | 11003.0 | 10989.3 | 11012.7 | 11207.7 | 11703.1 | 12818.6 | 13130.6 | 13860.0 | 12280.3 | 9093.7  |
| 25°   | 11541.2 | 11556.8 | 11467.1 | 11412.5 | 11554.9 | 11960.5 | 12869.3 | 13156.0 | 14232.5 | 12822.5 | 9199.0  |
| 27.5° | 12163.3 | 12182.8 | 12073.6 | 11946.9 | 12013.2 | 12278.4 | 13068.2 | 13325.6 | 14511.4 | 13356.8 | 9265.3  |
| 30°   | 12925.9 | 12933.7 | 12750.3 | 12598.2 | 12555.3 | 12752.3 | 13407.5 | 13647.4 | 14858.5 | 13986.8 | 9364.8  |
| 32.5° | 13705.9 | 13764.4 | 13528.5 | 13313.9 | 13241.8 | 13302.2 | 13908.7 | 14140.8 | 15271.9 | 14663.5 | 9524.7  |
| 35°   | 14766.8 | 14776.6 | 14493.8 | 14232.5 | 13994.6 | 14072.6 | 14550.4 | 14718.1 | 15843.3 | 15445.5 | 9750.9  |
| 37.5° | 16091.0 | 16180.7 | 15790.7 | 15303.1 | 15010.6 | 14897.5 | 15326.5 | 15509.9 | 16644.9 | 16405.0 | 10092.2 |
| 40°   | 17561.5 | 17594.6 | 17261.1 | 16956.9 | 16422.5 | 16094.9 | 16391.3 | 16590.3 | 17633.6 | 17549.7 | 10488.1 |
| 42.5° | 18485.8 | 18558.0 | 18583.3 | 18552.1 | 18150.4 | 17600.5 | 17713.6 | 17807.2 | 18803.7 | 18624.3 | 10893.8 |
| 45°   | 18797.9 | 18905.1 | 19267.9 | 20036.2 | 20079.1 | 19537.0 | 19273.7 | 19363.4 | 20079.1 | 19708.6 | 11281.8 |
| 47.5° | 18281.1 | 18464.4 | 19133.3 | 20709.1 | 21888.9 | 21929.9 | 21136.1 | 20939.2 | 21241.5 | 20607.6 | 11562.7 |
| 50°   | 16945.2 | 16984.2 | 18008.0 | 20289.8 | 22737.3 | 24217.4 | 23396.4 | 23029.8 | 22345.3 | 21272.7 | 11755.7 |
| 52.5° | 14878.0 | 14922.8 | 15780.9 | 18341.5 | 22214.6 | 25816.6 | 26040.9 | 25385.6 | 23466.6 | 21789.5 | 11882.5 |
| 55°   | 11043.9 | 11303.3 | 12247.2 | 14722.0 | 19737.9 | 25666.4 | 28143.2 | 27770.7 | 24822.0 | 22199.0 | 12081.4 |
| 57.5° | 6790.6  | 6552.6  | 7672.0  | 10016.2 | 14844.8 | 23603.1 | 28792.6 | 28913.5 | 26313.9 | 22542.2 | 12414.9 |
| 60°   | 3124.2  | 3171.0  | 3633.2  | 5166.1  | 9048.9  | 18464.4 | 27119.3 | 27883.8 | 27138.8 | 22530.5 | 12498.8 |
| 62.5° | 2153.0  | 2110.1  | 1993.1  | 2268.1  | 4126.6  | 11677.7 | 22906.9 | 24201.8 | 25485.1 | 21830.4 | 12165.3 |
| 65°   | 1924.8  | 1881.9  | 1655.7  | 1579.7  | 1895.6  | 5090.0  | 16652.7 | 18286.9 | 21457.9 | 20063.5 | 11334.5 |
| 67.5° | 1798.1  | 1739.6  | 1505.5  | 1357.3  | 1353.4  | 2026.2  | 9819.2  | 11786.9 | 15915.5 | 16962.7 | 9821.2  |
| 70°   | 1665.5  | 1618.7  | 1386.6  | 1222.8  | 1152.6  | 1273.5  | 4315.8  | 5649.7  | 10334.1 | 12223.8 | 7650.6  |
| 72.5° | 1532.8  | 1478.2  | 1269.6  | 1094.1  | 1002.4  | 953.6   | 1653.8  | 2151.1  | 5838.9  | 7328.8  | 4690.2  |
| 75°   | 1339.8  | 1312.5  | 1135.0  | 990.7   | 891.2   | 770.3   | 1049.2  | 1197.4  | 2792.7  | 3366.0  | 2353.9  |
| 77.5° | 1172.1  | 1142.8  | 1008.2  | 865.9   | 793.7   | 626.0   | 745.0   | 813.2   | 1177.9  | 1365.1  | 1062.9  |
| 80°   | 858.1   | 887.3   | 850.3   | 764.5   | 707.9   | 491.4   | 501.2   | 557.8   | 700.1   | 774.2   | 649.4   |
| 82.5° | 544.1   | 598.7   | 655.3   | 589.0   | 536.3   | 388.1   | 347.1   | 368.6   | 477.8   | 507.0   | 288.6   |
| 85°   | 228.2   | 232.1   | 380.3   | 358.8   | 306.2   | 230.1   | 208.7   | 220.4   | 255.5   | 267.2   | 134.6   |
| 87.5° | 87.8    | 85.8    | 134.6   | 124.8   | 95.6    | 66.3    | 66.3    | 74.1    | 101.4   | 93.6    | 42.9    |
| 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°    | 7484.8 | 7484.8 | 7484.8 | 7484.8 | 7484.8 | 7484.8 | 7484.8 | 7484.8 | 7484.8 | 7484.8 | 7484.8 |
| 2.5°  | 7510.2 | 7371.7 | 7096.7 | 6755.5 | 6505.8 | 6225.0 | 5977.3 | 5799.9 | 5733.6 | 5702.4 | 5643.8 |
| 5°    | 7504.3 | 7231.3 | 6661.8 | 6065.1 | 5585.3 | 5093.9 | 4678.5 | 4409.4 | 4386.0 | 4206.6 | 4189.0 |
| 7.5°  | 7506.3 | 7088.9 | 6182.1 | 5304.5 | 4573.2 | 4070.0 | 3726.8 | 3637.1 | 3529.8 | 3502.5 | 3516.2 |
| 10°   | 7512.1 | 6907.6 | 5667.2 | 4551.7 | 3843.8 | 3514.2 | 3385.5 | 3350.4 | 3354.3 | 3366.0 | 3368.0 |
| 12.5° | 7519.9 | 6732.1 | 5132.9 | 3980.3 | 3434.3 | 3297.8 | 3284.1 | 3315.3 | 3348.5 | 3373.8 | 3379.7 |
| 15°   | 7529.7 | 6531.2 | 4612.2 | 3520.1 | 3229.5 | 3217.8 | 3262.7 | 3315.3 | 3362.1 | 3399.2 | 3405.0 |
| 17.5° | 7518.0 | 6297.2 | 4175.4 | 3237.3 | 3116.4 | 3173.0 | 3247.1 | 3313.4 | 3356.3 | 3391.4 | 3395.3 |
| 20°   | 7490.7 | 6035.8 | 3754.1 | 3038.4 | 3046.2 | 3137.9 | 3217.8 | 3280.2 | 3327.0 | 3344.6 | 3358.2 |
| 22.5° | 7385.4 | 5723.8 | 3387.5 | 2884.3 | 2962.3 | 3089.1 | 3184.7 | 3221.7 | 3169.1 | 3132.0 | 3141.8 |
| 25°   | 7205.9 | 5318.2 | 3046.2 | 2759.5 | 2886.3 | 3020.8 | 3118.4 | 3028.6 | 2985.7 | 2970.1 | 2977.9 |
| 27.5° | 6981.7 | 4873.5 | 2788.8 | 2628.9 | 2788.8 | 2944.8 | 2917.5 | 2901.9 | 2882.4 | 2857.0 | 2862.9 |
| 30°   | 6739.9 | 4438.6 | 2570.3 | 2527.4 | 2683.5 | 2773.2 | 2784.9 | 2810.2 | 2788.8 | 2749.8 | 2765.4 |
| 32.5° | 6515.6 | 4029.1 | 2404.6 | 2441.6 | 2609.4 | 2595.7 | 2683.5 | 2712.7 | 2613.3 | 2482.6 | 2488.4 |
| 35°   | 6324.5 | 3648.8 | 2279.8 | 2357.8 | 2482.6 | 2488.4 | 2576.2 | 2474.8 | 2367.5 | 2305.1 | 2309.0 |
| 37.5° | 6180.1 | 3352.4 | 2197.9 | 2285.6 | 2320.7 | 2394.8 | 2348.0 | 2295.4 | 2281.7 | 2238.8 | 2240.8 |
| 40°   | 6094.3 | 3093.0 | 2145.2 | 2229.1 | 2223.2 | 2273.9 | 2123.8 | 2176.4 | 2195.9 | 2182.3 | 2184.2 |
| 42.5° | 6008.5 | 2909.7 | 2090.6 | 2151.1 | 2149.1 | 2049.6 | 2016.5 | 2061.3 | 2112.1 | 2117.9 | 2114.0 |
| 45°   | 5940.3 | 2767.3 | 2034.0 | 2032.1 | 2071.1 | 1915.1 | 1905.3 | 1932.6 | 2004.8 | 2039.9 | 2037.9 |
| 47.5° | 5864.2 | 2648.4 | 1948.2 | 1893.6 | 1905.3 | 1831.2 | 1815.6 | 1827.3 | 1915.1 | 1971.6 | 1987.2 |
| 50°   | 5768.7 | 2529.4 | 1841.0 | 1766.9 | 1718.1 | 1753.2 | 1757.1 | 1759.1 | 1846.8 | 1911.2 | 1924.8 |
| 52.5° | 5692.6 | 2439.7 | 1718.1 | 1663.5 | 1605.0 | 1683.0 | 1712.3 | 1716.2 | 1768.8 | 1821.5 | 1831.2 |
| 55°   | 5737.5 | 2389.0 | 1597.2 | 1558.2 | 1505.5 | 1610.9 | 1667.4 | 1675.2 | 1686.9 | 1725.9 | 1731.8 |
| 57.5° | 5872.0 | 2400.7 | 1499.7 | 1449.0 | 1410.0 | 1525.0 | 1620.6 | 1626.5 | 1618.7 | 1665.5 | 1673.3 |
| 60°   | 5913.0 | 2394.8 | 1427.5 | 1328.1 | 1304.7 | 1433.4 | 1552.4 | 1564.1 | 1562.1 | 1630.4 | 1644.0 |
| 62.5° | 5741.4 | 2320.7 | 1355.4 | 1226.7 | 1211.1 | 1339.8 | 1456.8 | 1503.6 | 1513.3 | 1610.9 | 1628.4 |
| 65°   | 5337.7 | 2168.6 | 1259.8 | 1119.4 | 1119.4 | 1240.3 | 1365.1 | 1429.5 | 1456.8 | 1587.5 | 1607.0 |
| 67.5° | 4805.3 | 1989.2 | 1162.3 | 1027.7 | 1023.8 | 1144.8 | 1267.6 | 1333.9 | 1376.8 | 1554.3 | 1566.0 |
| 70°   | 3988.1 | 1747.4 | 1041.4 | 928.3  | 928.3  | 1037.5 | 1148.7 | 1228.6 | 1291.0 | 1491.9 | 1491.9 |
| 72.5° | 2732.2 | 1452.9 | 895.1  | 815.2  | 817.1  | 918.5  | 1031.6 | 1121.4 | 1195.5 | 1367.1 | 1371.0 |
| 75°   | 1727.9 | 1135.0 | 735.2  | 694.3  | 702.1  | 797.6  | 914.6  | 1008.2 | 1156.5 | 1351.5 | 1357.3 |
| 77.5° | 918.5  | 797.6  | 585.1  | 575.3  | 585.1  | 672.8  | 803.5  | 932.2  | 1160.4 | 1172.1 | 1152.6 |
| 80°   | 594.8  | 565.6  | 462.2  | 442.7  | 446.6  | 542.2  | 715.7  | 885.4  | 932.2  | 943.9  | 901.0  |
| 82.5° | 323.7  | 358.8  | 327.6  | 308.1  | 308.1  | 423.2  | 610.4  | 704.0  | 668.9  | 555.8  | 530.5  |
| 85°   | 138.5  | 167.7  | 169.7  | 148.2  | 142.4  | 261.3  | 409.5  | 384.2  | 356.9  | 341.3  | 337.4  |
| 87.5° | 39.0   | 54.6   | 54.6   | 41.0   | 31.2   | 72.2   | 81.9   | 23.4   | 0.0    | 2.0    | 3.9    |
| 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)