

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: P530295

Luminaire Tested: **GLAN-SA5C-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530295  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5C-730-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21207 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 269  
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

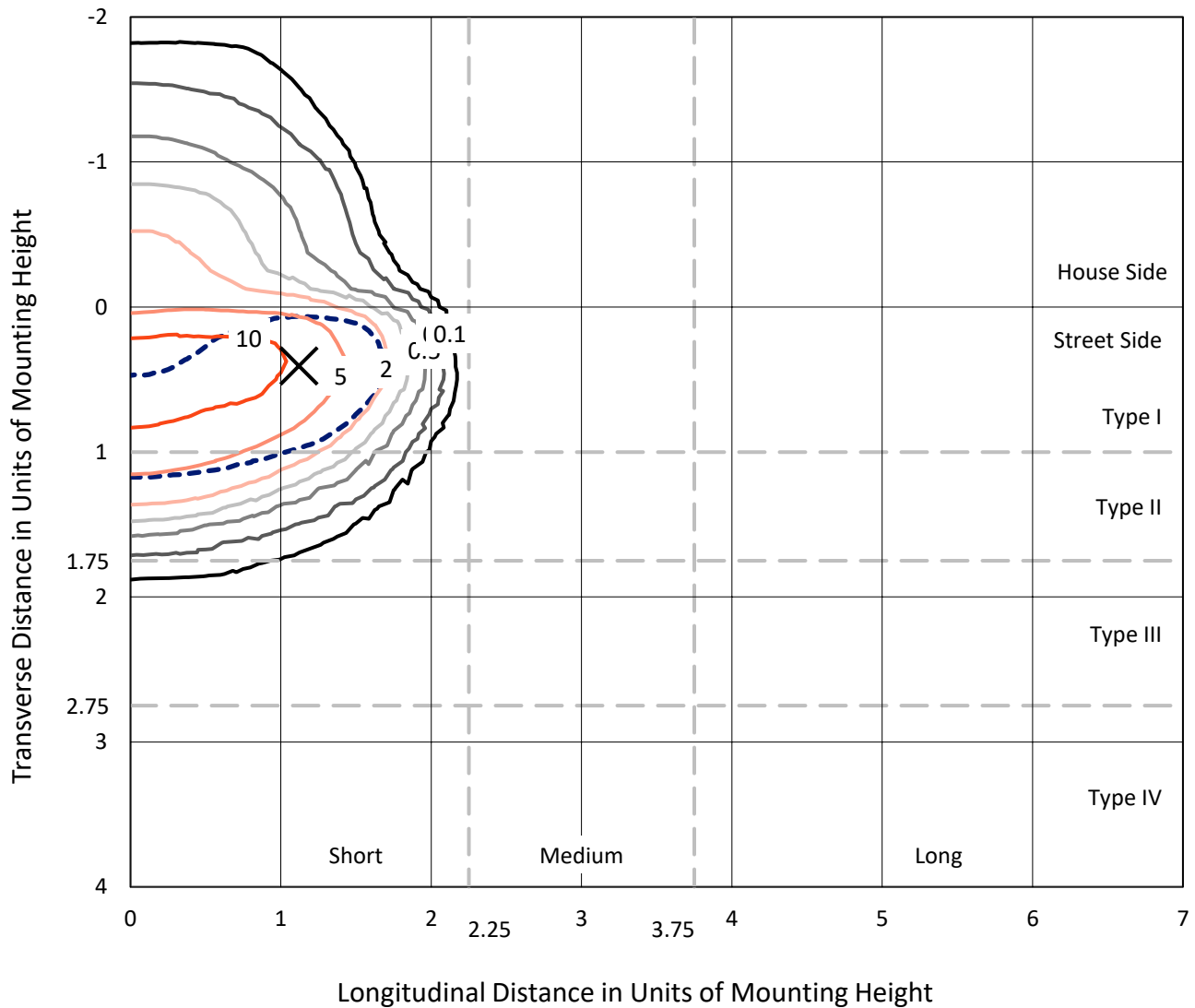


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

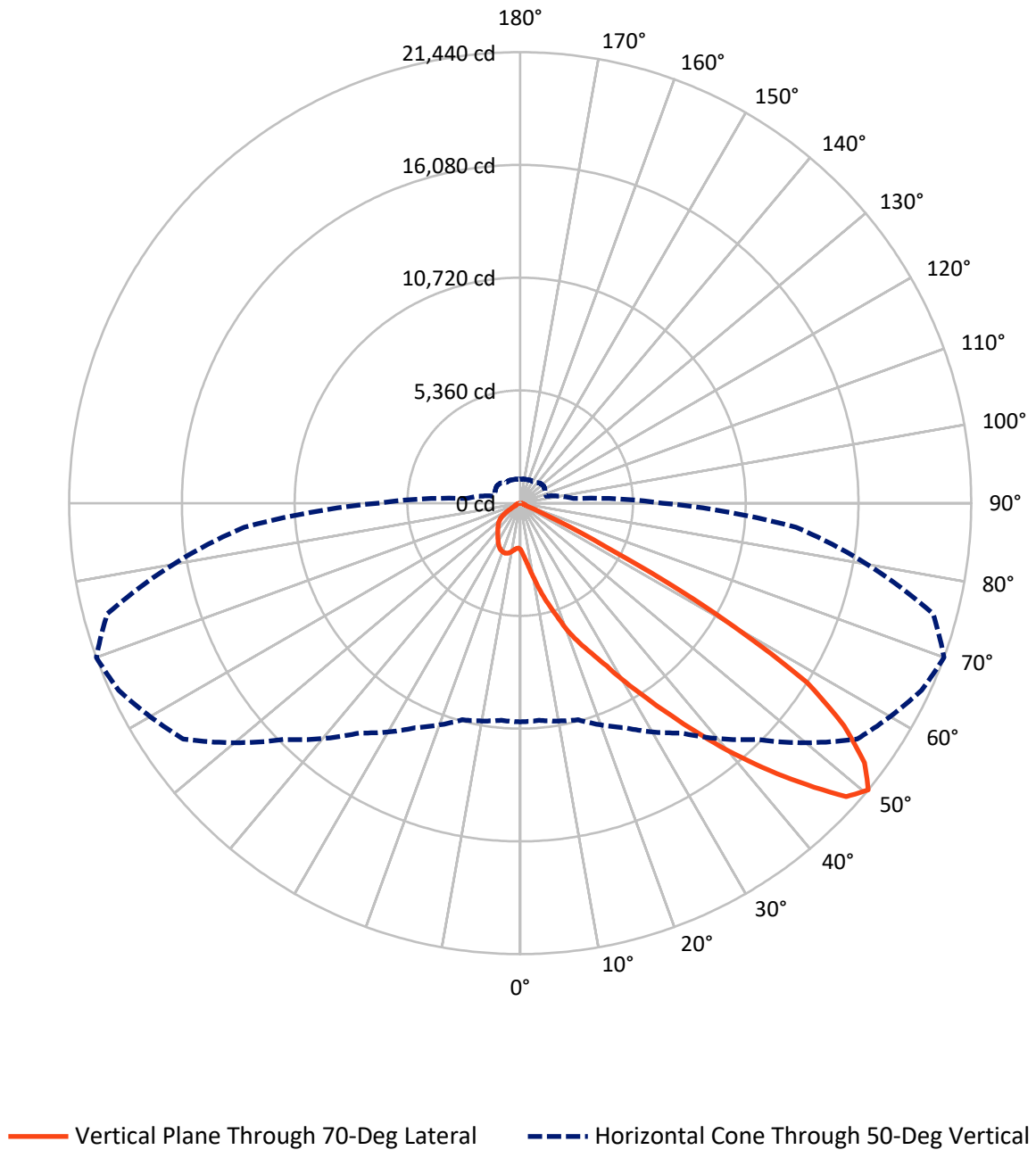


Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type I - Short - N/A

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## Luminous Intensity Polar Plot



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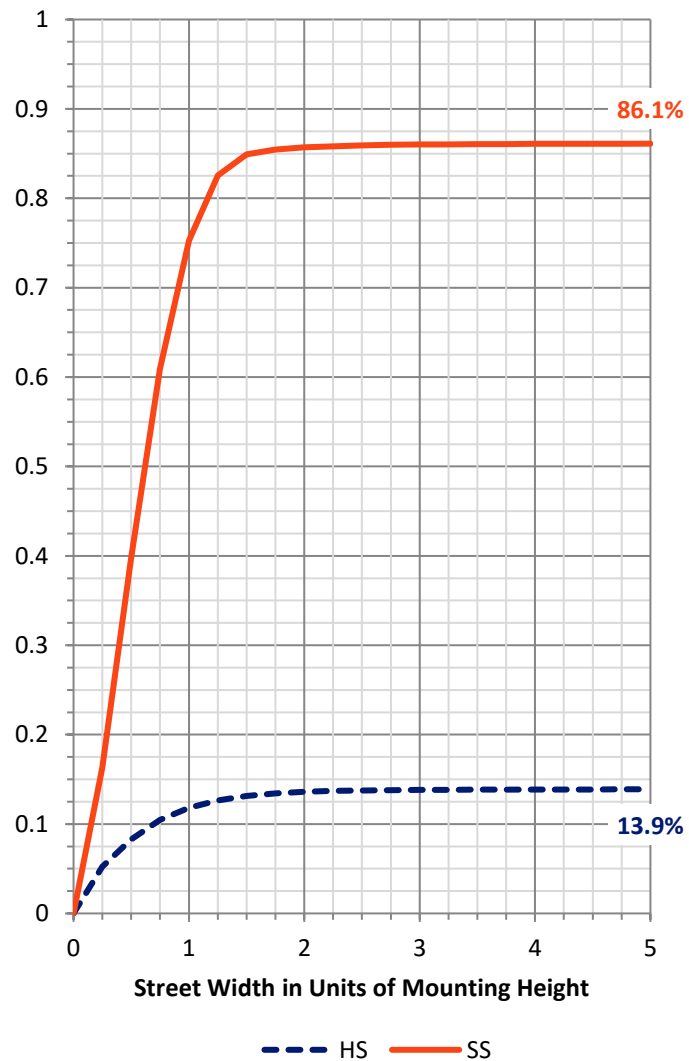
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2961.7   | 0.0    | 2961.7  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 18245.3  | 0.0    | 18245.3 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 21207.0  | 0.0    | 21207.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 285.6   | 1.3       |
| 10°-20°   | 1235.6  | 5.8       |
| 20°-30°   | 2592.1  | 12.2      |
| 30°-40°   | 4467.8  | 21.1      |
| 40°-50°   | 6529.7  | 30.8      |
| 50°-60°   | 5085.5  | 24.0      |
| 60°-70°   | 861.6   | 4.1       |
| 70°-80°   | 118.4   | 0.6       |
| 80°-90°   | 30.7    | 0.1       |
| 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°    | 21207.0 | 100.0     |
| 0°-180°   | 21207.0 | 100.0     |

**Coefficient of Utilization**



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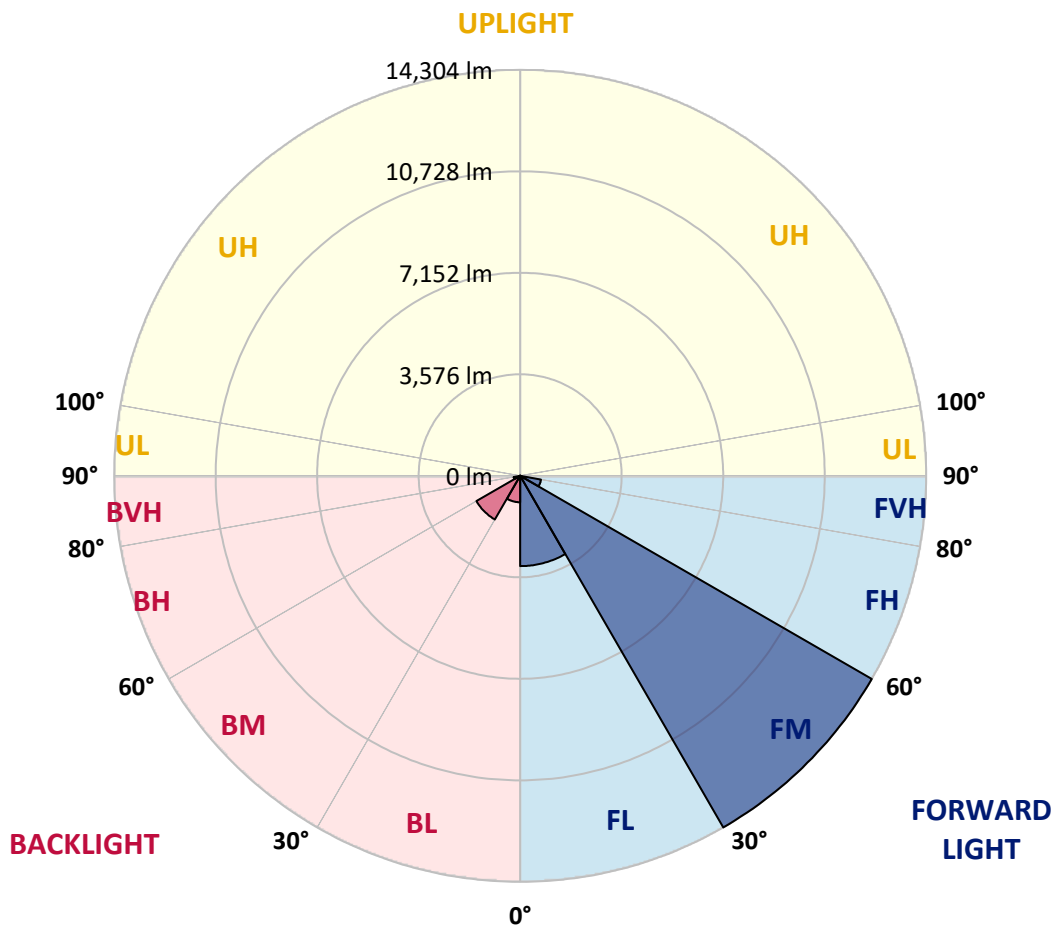
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3181.3  | 15.0      |                         |      |         |
| FM   | (30°-60°)   | 14303.8 | 67.4      |                         |      |         |
| FH   | (60°-80°)   | 746.1   | 3.5       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 14.2    | 0.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 932.0   | 4.4       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1779.3  | 8.4       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 233.9   | 1.1       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 16.5    | 0.1       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2196.6  | 2196.6  | 2196.6  | 2196.6  | 2196.6  | 2196.6  | 2196.6  | 2196.6  | 2196.6  | 2196.6  | 2196.6  |
| 2.5°  | 2876.5  | 2855.6  | 2810.3  | 2726.6  | 2691.7  | 2608.1  | 2559.2  | 2465.1  | 2405.8  | 2339.6  | 2266.4  |
| 5°    | 4051.6  | 3943.5  | 3877.2  | 3783.1  | 3507.6  | 3336.8  | 3054.4  | 2813.8  | 2702.2  | 2580.2  | 2412.8  |
| 7.5°  | 5264.9  | 5195.2  | 5104.5  | 4902.3  | 4714.0  | 4358.4  | 3873.7  | 3343.8  | 3117.1  | 2907.9  | 2576.7  |
| 10°   | 6269.1  | 6073.8  | 6063.4  | 5913.5  | 5707.7  | 5282.4  | 4700.1  | 4041.1  | 3636.6  | 3329.8  | 2810.3  |
| 12.5° | 6969.9  | 6792.1  | 6872.3  | 6854.9  | 6663.1  | 6272.6  | 5599.7  | 4728.0  | 4306.1  | 3828.4  | 3050.9  |
| 15°   | 7608.0  | 7534.8  | 7510.4  | 7489.5  | 7412.7  | 7123.3  | 6520.1  | 5564.8  | 4954.6  | 4379.3  | 3322.8  |
| 17.5° | 8232.1  | 8043.8  | 8134.5  | 8151.9  | 8145.0  | 7883.5  | 7318.6  | 6359.8  | 5641.5  | 4961.6  | 3608.7  |
| 20°   | 8786.5  | 8803.9  | 8681.9  | 8657.5  | 8636.6  | 8626.1  | 8075.2  | 7147.8  | 6485.3  | 5571.8  | 3981.8  |
| 22.5° | 9497.8  | 9375.8  | 9483.9  | 9414.1  | 9278.1  | 9194.5  | 8772.6  | 7845.1  | 7217.5  | 6307.5  | 4361.9  |
| 25°   | 10338.1 | 10435.7 | 10181.2 | 10153.3 | 10003.4 | 9714.0  | 9333.9  | 8626.1  | 7921.8  | 6990.9  | 4773.3  |
| 27.5° | 11373.6 | 11202.8 | 11136.6 | 10983.1 | 10711.2 | 10589.1 | 10142.8 | 9431.6  | 8772.6  | 7709.1  | 5170.8  |
| 30°   | 12262.8 | 12217.4 | 11886.2 | 11704.9 | 11467.8 | 11464.3 | 10840.2 | 10522.9 | 9881.3  | 8835.3  | 5718.2  |
| 32.5° | 12988.0 | 12789.3 | 12667.2 | 12541.7 | 12349.9 | 12402.2 | 11875.7 | 11708.4 | 11063.3 | 9881.3  | 6363.2  |
| 35°   | 13472.6 | 13329.7 | 13256.5 | 13064.7 | 13008.9 | 13242.5 | 13022.9 | 12953.1 | 12423.1 | 11352.7 | 7119.9  |
| 37.5° | 13626.1 | 13671.4 | 13657.4 | 13416.9 | 13535.4 | 14166.5 | 14448.9 | 14267.6 | 13988.7 | 12904.3 | 7939.2  |
| 40°   | 13762.0 | 13793.4 | 13723.7 | 14006.1 | 14344.3 | 15062.6 | 16084.2 | 15784.3 | 15679.7 | 14476.8 | 9079.4  |
| 42.5° | 13838.8 | 13814.3 | 13814.3 | 14302.5 | 14815.0 | 16258.5 | 17663.7 | 17464.9 | 17384.7 | 16150.4 | 10397.4 |
| 45°   | 13507.5 | 13270.4 | 13524.9 | 14187.4 | 15219.5 | 16847.8 | 18925.9 | 19201.3 | 19086.3 | 18141.4 | 11938.5 |
| 47.5° | 12269.7 | 12416.2 | 12559.1 | 13444.8 | 14727.9 | 16666.5 | 19699.9 | 20637.8 | 20850.5 | 19815.0 | 12949.6 |
| 50°   | 10397.4 | 10366.0 | 10662.4 | 11778.1 | 13336.7 | 15885.5 | 19550.0 | 21052.8 | 21439.8 | 20317.1 | 13162.3 |
| 52.5° | 7562.7  | 7792.8  | 8113.6  | 9222.3  | 11070.3 | 13863.2 | 17614.9 | 19982.3 | 20498.4 | 19699.9 | 13022.9 |
| 55°   | 4403.7  | 4149.2  | 4870.9  | 5808.9  | 7552.2  | 10456.6 | 14891.7 | 17712.5 | 18667.8 | 18577.2 | 12318.5 |
| 57.5° | 1764.3  | 1708.5  | 1956.0  | 2636.0  | 3940.0  | 6481.8  | 10829.7 | 14553.5 | 16084.2 | 17015.1 | 10826.2 |
| 60°   | 774.0   | 756.6   | 889.1   | 1073.9  | 1610.9  | 2988.1  | 5923.9  | 9051.5  | 10648.4 | 11889.7 | 7451.1  |
| 62.5° | 557.9   | 550.9   | 617.1   | 683.4   | 850.8   | 1300.5  | 2489.5  | 3647.1  | 4546.7  | 5491.6  | 3336.8  |
| 65°   | 449.8   | 467.2   | 512.5   | 547.4   | 627.6   | 721.7   | 878.7   | 1014.6  | 1244.8  | 1290.1  | 735.7   |
| 67.5° | 366.1   | 380.1   | 421.9   | 460.2   | 474.2   | 390.5   | 404.5   | 355.6   | 355.6   | 317.3   | 254.5   |
| 70°   | 268.5   | 272.0   | 320.8   | 366.1   | 292.9   | 156.9   | 275.5   | 275.5   | 247.6   | 237.1   | 216.2   |
| 72.5° | 198.7   | 202.2   | 240.6   | 226.6   | 115.1   | 97.6    | 202.2   | 223.1   | 202.2   | 191.8   | 174.3   |
| 75°   | 146.4   | 149.9   | 125.5   | 52.3    | 48.8    | 62.8    | 118.5   | 153.4   | 146.4   | 143.0   | 132.5   |
| 77.5° | 27.9    | 20.9    | 17.4    | 24.4    | 34.9    | 52.3    | 76.7    | 94.1    | 97.6    | 104.6   | 97.6    |
| 80°   | 3.5     | 3.5     | 10.5    | 20.9    | 38.4    | 55.8    | 80.2    | 90.7    | 94.1    | 97.6    | 90.7    |
| 82.5° | 0.0     | 3.5     | 10.5    | 20.9    | 38.4    | 52.3    | 69.7    | 80.2    | 87.2    | 90.7    | 87.2    |
| 85°   | 0.0     | 3.5     | 7.0     | 17.4    | 31.4    | 38.4    | 34.9    | 24.4    | 20.9    | 24.4    | 17.4    |
| 87.5° | 0.0     | 0.0     | 3.5     | 3.5     | 7.0     | 7.0     | 7.0     | 7.0     | 7.0     | 7.0     | 7.0     |
| 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°    | 2196.6 | 2196.6 | 2196.6 | 2196.6 | 2196.6 | 2196.6 | 2196.6 | 2196.6 | 2196.6 | 2196.6 | 2196.6 |
| 2.5°  | 2224.5 | 2210.6 | 2161.8 | 2109.5 | 2064.1 | 2085.1 | 2064.1 | 2046.7 | 2053.7 | 2046.7 | 2039.7 |
| 5°    | 2346.6 | 2283.8 | 2179.2 | 2133.9 | 2095.5 | 2092.0 | 2081.6 | 2078.1 | 2081.6 | 2081.6 | 2050.2 |
| 7.5°  | 2461.6 | 2360.5 | 2248.9 | 2200.1 | 2154.8 | 2158.3 | 2133.9 | 2133.9 | 2130.4 | 2112.9 | 2106.0 |
| 10°   | 2636.0 | 2500.0 | 2357.0 | 2269.8 | 2214.1 | 2203.6 | 2179.2 | 2154.8 | 2154.8 | 2154.8 | 2119.9 |
| 12.5° | 2827.7 | 2656.9 | 2461.6 | 2360.5 | 2294.3 | 2242.0 | 2203.6 | 2196.6 | 2158.3 | 2151.3 | 2133.9 |
| 15°   | 2995.1 | 2778.9 | 2531.4 | 2391.9 | 2308.2 | 2238.5 | 2179.2 | 2140.8 | 2123.4 | 2112.9 | 2099.0 |
| 17.5° | 3159.0 | 2883.5 | 2569.7 | 2391.9 | 2301.2 | 2221.0 | 2158.3 | 2123.4 | 2081.6 | 2088.5 | 2060.6 |
| 20°   | 3378.6 | 2995.1 | 2580.2 | 2346.6 | 2235.0 | 2158.3 | 2074.6 | 2057.2 | 2032.8 | 2011.8 | 2018.8 |
| 22.5° | 3591.3 | 3075.3 | 2548.8 | 2290.8 | 2130.4 | 2039.7 | 1997.9 | 1977.0 | 1966.5 | 1949.1 | 1924.7 |
| 25°   | 3783.1 | 3162.4 | 2500.0 | 2189.7 | 2018.8 | 1952.6 | 1914.2 | 1910.7 | 1886.3 | 1886.3 | 1841.0 |
| 27.5° | 3978.3 | 3193.8 | 2416.3 | 2071.1 | 1921.2 | 1882.8 | 1865.4 | 1858.4 | 1848.0 | 1823.5 | 1792.2 |
| 30°   | 4201.5 | 3204.3 | 2294.3 | 1949.1 | 1834.0 | 1792.2 | 1816.6 | 1834.0 | 1788.7 | 1743.4 | 1757.3 |
| 32.5° | 4386.3 | 3179.9 | 2147.8 | 1834.0 | 1771.2 | 1750.3 | 1799.1 | 1816.6 | 1764.3 | 1715.5 | 1691.1 |
| 35°   | 4609.4 | 3120.6 | 2004.9 | 1743.4 | 1708.5 | 1750.3 | 1792.2 | 1792.2 | 1687.6 | 1628.3 | 1614.3 |
| 37.5° | 4947.6 | 3054.4 | 1872.4 | 1666.6 | 1642.2 | 1729.4 | 1785.2 | 1746.8 | 1583.0 | 1509.7 | 1492.3 |
| 40°   | 5310.3 | 3012.5 | 1743.4 | 1589.9 | 1607.4 | 1694.5 | 1725.9 | 1607.4 | 1440.0 | 1394.7 | 1380.7 |
| 42.5° | 5836.8 | 2928.8 | 1628.3 | 1523.7 | 1576.0 | 1645.7 | 1645.7 | 1433.0 | 1370.3 | 1345.9 | 1342.4 |
| 45°   | 6492.3 | 2869.6 | 1527.2 | 1467.9 | 1530.7 | 1548.1 | 1492.3 | 1342.4 | 1297.1 | 1290.1 | 1293.6 |
| 47.5° | 6813.0 | 2754.5 | 1422.6 | 1401.7 | 1447.0 | 1450.5 | 1304.0 | 1269.2 | 1230.8 | 1220.3 | 1213.4 |
| 50°   | 6764.2 | 2548.8 | 1286.6 | 1314.5 | 1377.3 | 1342.4 | 1189.0 | 1195.9 | 1161.1 | 1157.6 | 1140.2 |
| 52.5° | 6422.5 | 2224.5 | 1150.6 | 1216.9 | 1286.6 | 1185.5 | 1094.8 | 1087.9 | 1087.9 | 1042.5 | 1025.1 |
| 55°   | 5693.8 | 1792.2 | 986.7  | 1070.4 | 1154.1 | 997.2  | 972.8  | 965.8  | 948.4  | 906.5  | 896.1  |
| 57.5° | 4508.3 | 1314.5 | 742.7  | 833.3  | 979.8  | 847.3  | 843.8  | 812.4  | 767.1  | 735.7  | 735.7  |
| 60°   | 2681.3 | 756.6  | 467.2  | 509.1  | 648.5  | 686.9  | 763.6  | 749.6  | 672.9  | 624.1  | 610.2  |
| 62.5° | 1223.8 | 390.5  | 296.4  | 303.3  | 348.7  | 446.3  | 599.7  | 693.9  | 585.8  | 502.1  | 495.1  |
| 65°   | 411.4  | 289.4  | 244.1  | 233.6  | 240.6  | 268.5  | 359.1  | 491.6  | 467.2  | 387.0  | 373.1  |
| 67.5° | 251.0  | 258.0  | 230.1  | 212.7  | 212.7  | 209.2  | 205.7  | 223.1  | 275.5  | 268.5  | 272.0  |
| 70°   | 216.2  | 237.1  | 212.7  | 191.8  | 184.8  | 174.3  | 146.4  | 122.0  | 104.6  | 122.0  | 129.0  |
| 72.5° | 174.3  | 188.3  | 181.3  | 163.9  | 146.4  | 132.5  | 104.6  | 80.2   | 59.3   | 52.3   | 52.3   |
| 75°   | 129.0  | 139.5  | 146.4  | 125.5  | 111.6  | 94.1   | 76.7   | 52.3   | 31.4   | 20.9   | 20.9   |
| 77.5° | 94.1   | 104.6  | 108.1  | 97.6   | 83.7   | 66.2   | 48.8   | 34.9   | 17.4   | 7.0    | 7.0    |
| 80°   | 80.2   | 94.1   | 104.6  | 97.6   | 87.2   | 62.8   | 45.3   | 24.4   | 13.9   | 3.5    | 3.5    |
| 82.5° | 76.7   | 94.1   | 104.6  | 94.1   | 83.7   | 59.3   | 45.3   | 27.9   | 10.5   | 3.5    | 3.5    |
| 85°   | 17.4   | 24.4   | 31.4   | 38.4   | 45.3   | 45.3   | 34.9   | 20.9   | 10.5   | 3.5    | 3.5    |
| 87.5° | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 7.0    | 3.5    | 3.5    | 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)