

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: P950597

Luminaire Tested: **GLAN-SB5A-730-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB5A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 19185 lumens  
Efficiency: N/A  
Efficacy: 135.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 141.7  
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



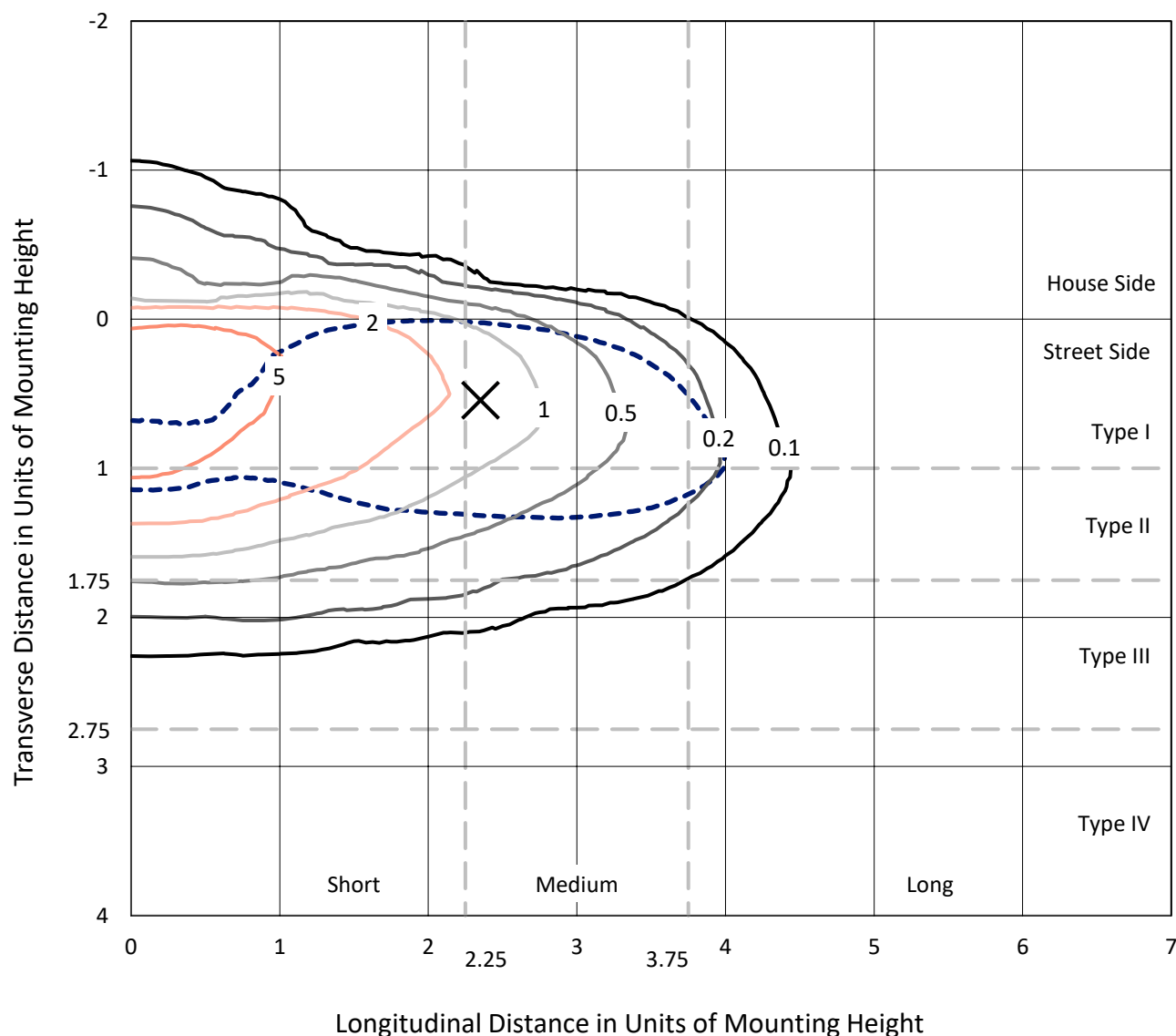
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

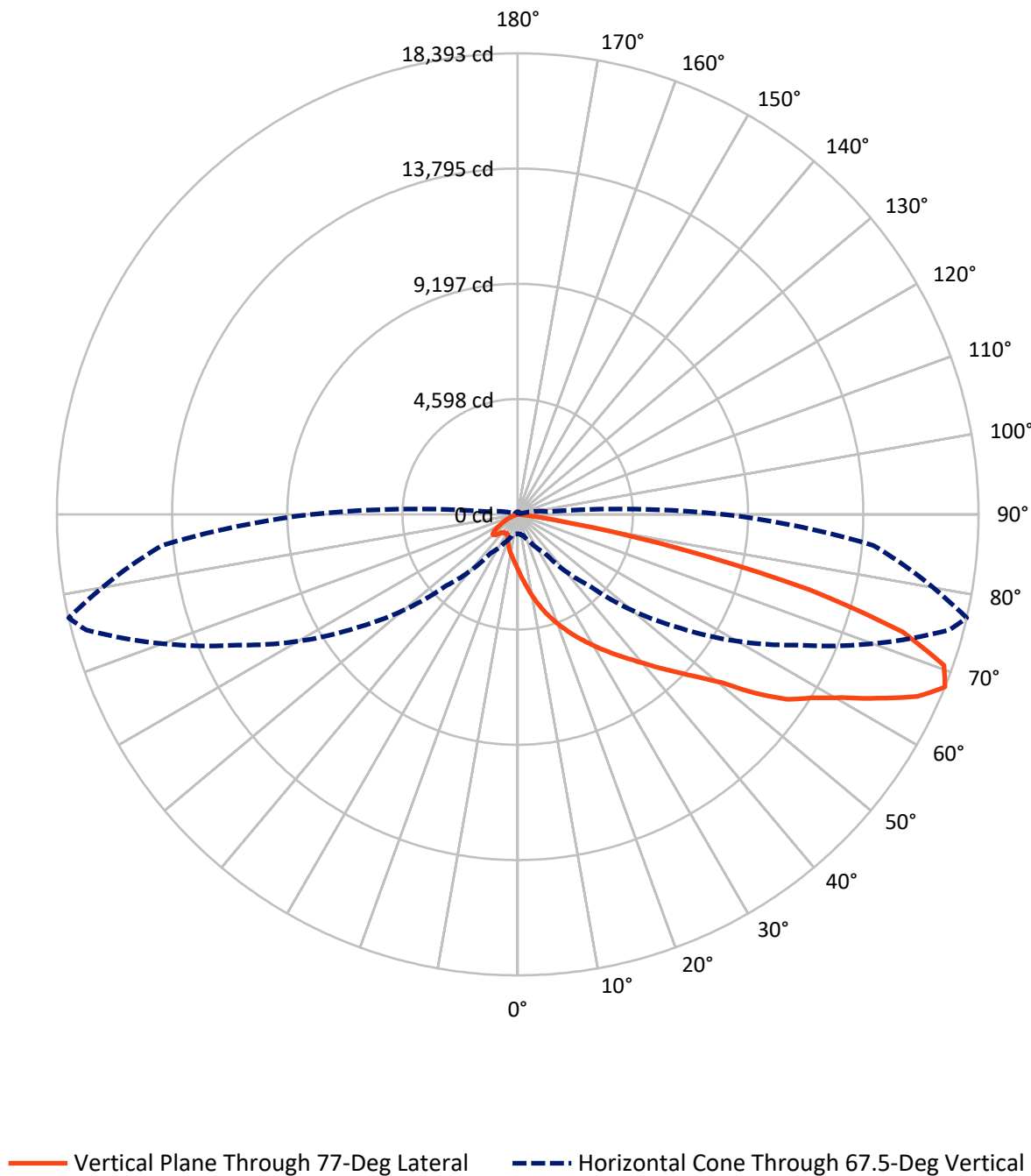
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1411.4   | 0.0    | 1411.4  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 17773.6  | 0.0    | 17773.6 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 19185.0  | 0.0    | 19185.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 225.8   | 1.2       |
| 10°-20°   | 790.7   | 4.1       |
| 20°-30°   | 1525.9  | 8.0       |
| 30°-40°   | 2649.0  | 13.8      |
| 40°-50°   | 3846.3  | 20.0      |
| 50°-60°   | 4417.0  | 23.0      |
| 60°-70°   | 3834.7  | 20.0      |
| 70°-80°   | 1806.2  | 9.4       |
| 80°-90°   | 89.3    | 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°    | 19185.0 | 100.0     |
| 0°-180°   | 19185.0 | 100.0     |

**Coefficient of Utilization**



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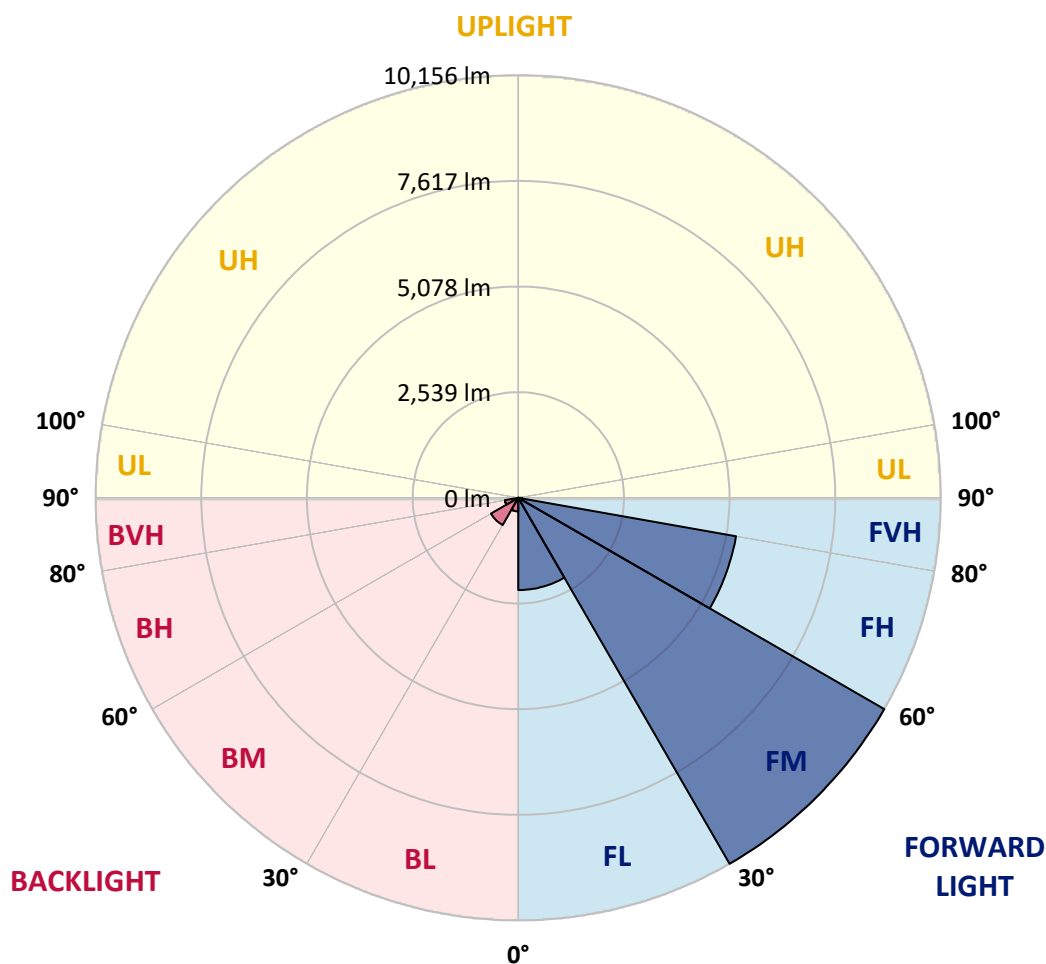
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2215.7  | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 10156.0 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 5314.2  | 27.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 87.7    | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 326.8   | 1.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 756.3   | 3.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 326.8   | 1.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.6     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 2212.3  | 2212.3  | 2212.3  | 2212.3 | 2212.3 | 2212.3 | 2212.3  | 2212.3  | 2212.3  | 2212.3  |
| 2.5°  | 3062.9  | 3082.0  | 3054.6  | 3002.2 | 2923.5 | 2872.3 | 2747.2  | 2629.3  | 2498.2  | 2456.5  |
| 5°    | 3733.6  | 3750.3  | 3719.4  | 3662.2 | 3557.3 | 3457.3 | 3292.9  | 3046.2  | 2790.1  | 2707.9  |
| 7.5°  | 4230.4  | 4240.0  | 4228.1  | 4175.6 | 4075.6 | 3962.4 | 3778.9  | 3487.0  | 3107.0  | 3016.5  |
| 10°   | 4587.8  | 4618.8  | 4615.2  | 4595.0 | 4528.3 | 4436.5 | 4241.2  | 3908.8  | 3462.0  | 3345.3  |
| 12.5° | 4824.9  | 4859.5  | 4879.7  | 4925.0 | 4921.4 | 4863.0 | 4691.5  | 4340.0  | 3815.9  | 3678.8  |
| 15°   | 4894.0  | 4930.9  | 5008.4  | 5113.2 | 5206.1 | 5235.9 | 5115.6  | 4763.0  | 4205.4  | 4030.3  |
| 17.5° | 4854.7  | 4911.9  | 5004.8  | 5170.4 | 5374.1 | 5508.7 | 5495.6  | 5171.6  | 4559.2  | 4359.1  |
| 20°   | 4941.7  | 4996.5  | 5069.1  | 5208.5 | 5445.6 | 5689.8 | 5787.5  | 5562.4  | 4910.7  | 4701.0  |
| 22.5° | 5423.0  | 5413.4  | 5420.6  | 5443.2 | 5585.0 | 5826.8 | 6028.2  | 5917.4  | 5258.6  | 5044.1  |
| 25°   | 6185.4  | 6142.5  | 6069.9  | 5947.2 | 5911.4 | 6028.2 | 6237.8  | 6231.9  | 5625.5  | 5395.6  |
| 27.5° | 7059.9  | 7052.7  | 6882.4  | 6586.9 | 6420.1 | 6374.8 | 6474.9  | 6538.1  | 5988.9  | 5743.4  |
| 30°   | 7897.4  | 7916.4  | 7686.5  | 7357.7 | 7051.5 | 6874.0 | 6783.5  | 6828.7  | 6358.2  | 6118.7  |
| 32.5° | 8626.5  | 8646.7  | 8396.5  | 8011.7 | 7632.9 | 7418.5 | 7227.8  | 7115.9  | 6760.8  | 6499.9  |
| 35°   | 9242.4  | 9262.6  | 8975.5  | 8550.2 | 8146.4 | 7952.2 | 7736.5  | 7430.4  | 7165.9  | 6922.9  |
| 37.5° | 9792.8  | 9786.8  | 9402.0  | 8973.1 | 8576.4 | 8422.8 | 8309.6  | 7817.6  | 7582.9  | 7348.2  |
| 40°   | 10118.0 | 10143.0 | 9814.2  | 9341.3 | 8956.5 | 8844.5 | 8837.3  | 8297.7  | 8064.2  | 7836.6  |
| 42.5° | 10213.3 | 10257.4 | 10019.1 | 9630.8 | 9281.7 | 9160.2 | 9347.2  | 8817.1  | 8624.1  | 8402.5  |
| 45°   | 10041.8 | 10084.7 | 9976.3  | 9707.0 | 9503.3 | 9424.7 | 9785.6  | 9355.6  | 9222.1  | 9002.9  |
| 47.5° | 9541.4  | 9595.0  | 9621.2  | 9564.1 | 9561.7 | 9641.5 | 10178.8 | 9922.6  | 9932.2  | 9708.2  |
| 50°   | 8572.9  | 8663.4  | 8904.1  | 9106.6 | 9419.9 | 9813.0 | 10561.2 | 10537.4 | 10732.8 | 10539.8 |
| 52.5° | 6812.1  | 6940.7  | 7769.9  | 8323.9 | 9028.0 | 9780.9 | 10981.7 | 11523.8 | 12137.3 | 11855.0 |
| 55°   | 5474.2  | 5474.2  | 6148.5  | 7185.0 | 8263.1 | 9568.8 | 11165.2 | 12164.7 | 13094.0 | 13027.3 |
| 57.5° | 4462.7  | 4516.4  | 4946.4  | 5862.6 | 7156.4 | 9063.7 | 11278.4 | 12567.4 | 13864.8 | 13815.9 |
| 60°   | 2754.4  | 2869.9  | 3682.4  | 4586.6 | 5897.1 | 8164.2 | 11206.9 | 12974.8 | 14800.0 | 14839.3 |
| 62.5° | 1551.1  | 1594.0  | 1956.2  | 3300.0 | 4585.5 | 6955.0 | 10660.1 | 13202.4 | 15996.1 | 16162.9 |
| 65°   | 1071.0  | 1092.5  | 1231.8  | 2053.9 | 3178.5 | 5537.3 | 9591.5  | 13060.6 | 17194.6 | 17531.7 |
| 67.5° | 777.9   | 788.7   | 875.6   | 1254.5 | 1885.9 | 4014.8 | 7916.4  | 12345.8 | 17829.5 | 18393.0 |
| 70°   | 598.1   | 605.2   | 668.3   | 824.4  | 1113.9 | 2478.0 | 5749.4  | 10924.6 | 17369.7 | 18042.8 |
| 72.5° | 486.1   | 493.2   | 542.1   | 610.0  | 738.6  | 1465.3 | 3484.7  | 8871.9  | 15339.7 | 16066.4 |
| 75°   | 409.8   | 419.4   | 463.4   | 507.5  | 579.0  | 941.2  | 1634.5  | 6178.3  | 11535.7 | 12012.2 |
| 77.5° | 227.5   | 209.7   | 376.5   | 420.5  | 488.4  | 595.7  | 764.8   | 3636.0  | 6460.6  | 6592.9  |
| 80°   | 141.8   | 146.5   | 299.0   | 338.3  | 375.3  | 300.2  | 350.3   | 1399.8  | 2239.7  | 2127.7  |
| 82.5° | 8.3     | 19.1    | 229.9   | 244.2  | 257.3  | 128.7  | 132.2   | 475.3   | 539.7   | 495.6   |
| 85°   | 0.0     | 0.0     | 104.8   | 84.6   | 89.4   | 36.9   | 38.1    | 110.8   | 72.7    | 78.6    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.4    | 0.0    | 3.6    | 7.1     | 9.5     | 3.6     | 4.8     |
| 90°   | 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):**

| 85°     |       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2212.3  | 0°    | 2212.3 | 2212.3 | 2212.3 | 2212.3 | 2212.3 | 2212.3 | 2212.3 | 2212.3 | 2212.3 | 2212.3 |
| 2325.5  | 2.5°  | 2242.1 | 2158.7 | 1989.5 | 1823.9 | 1689.3 | 1564.2 | 1474.9 | 1390.3 | 1347.4 | 1345.0 |
| 2475.6  | 5°    | 2310.0 | 2134.9 | 1796.5 | 1497.5 | 1256.9 | 1063.9 | 938.8  | 849.4  | 804.2  | 788.7  |
| 2660.3  | 7.5°  | 2405.3 | 2142.0 | 1627.4 | 1211.6 | 928.1  | 762.5  | 691.0  | 662.4  | 652.9  | 642.1  |
| 2868.7  | 10°   | 2525.6 | 2158.7 | 1476.1 | 975.7  | 731.5  | 648.1  | 619.5  | 607.6  | 600.4  | 593.3  |
| 3103.4  | 12.5° | 2660.3 | 2174.2 | 1326.0 | 810.1  | 643.3  | 600.4  | 580.2  | 565.9  | 556.4  | 548.0  |
| 3344.1  | 15°   | 2791.3 | 2183.7 | 1169.9 | 694.5  | 598.1  | 563.5  | 542.1  | 526.6  | 513.5  | 503.9  |
| 3580.0  | 17.5° | 2921.2 | 2196.8 | 1023.4 | 625.5  | 561.1  | 526.6  | 505.1  | 486.1  | 475.3  | 464.6  |
| 3827.8  | 20°   | 3065.3 | 2194.4 | 885.2  | 576.6  | 524.2  | 489.6  | 467.0  | 449.1  | 438.4  | 426.5  |
| 4089.9  | 22.5° | 3198.7 | 2182.5 | 763.6  | 534.9  | 486.1  | 452.7  | 427.7  | 409.8  | 399.1  | 389.6  |
| 4357.9  | 25°   | 3352.4 | 2173.0 | 662.4  | 496.8  | 450.3  | 417.0  | 389.6  | 372.9  | 361.0  | 352.6  |
| 4627.2  | 27.5° | 3500.1 | 2158.7 | 588.5  | 462.2  | 415.8  | 383.6  | 357.4  | 338.3  | 327.6  | 321.7  |
| 4904.7  | 30°   | 3645.5 | 2155.1 | 561.1  | 428.9  | 384.8  | 352.6  | 326.4  | 308.6  | 300.2  | 297.8  |
| 5209.7  | 32.5° | 3820.6 | 2164.7 | 573.0  | 417.0  | 356.2  | 324.0  | 299.0  | 285.9  | 277.6  | 277.6  |
| 5549.2  | 35°   | 4007.7 | 2162.3 | 590.9  | 427.7  | 337.1  | 295.5  | 276.4  | 268.1  | 259.7  | 259.7  |
| 5925.7  | 37.5° | 4242.4 | 2165.9 | 605.2  | 445.6  | 330.0  | 271.6  | 260.9  | 250.2  | 245.4  | 245.4  |
| 6337.9  | 40°   | 4592.6 | 2283.8 | 598.1  | 461.0  | 327.6  | 254.9  | 233.5  | 229.9  | 226.4  | 226.4  |
| 6803.7  | 42.5° | 5021.5 | 2539.9 | 607.6  | 462.2  | 326.4  | 243.0  | 214.4  | 221.6  | 213.2  | 212.1  |
| 7329.1  | 45°   | 5490.9 | 2819.9 | 668.3  | 437.2  | 325.2  | 237.1  | 204.9  | 213.2  | 200.1  | 200.1  |
| 7937.9  | 47.5° | 5956.7 | 3097.5 | 730.3  | 401.5  | 321.7  | 235.9  | 196.6  | 191.8  | 188.2  | 189.4  |
| 8731.3  | 50°   | 6598.8 | 3323.8 | 754.1  | 352.6  | 313.3  | 233.5  | 181.1  | 182.3  | 179.9  | 182.3  |
| 9850.0  | 52.5° | 7298.1 | 3371.5 | 725.5  | 297.8  | 289.5  | 226.4  | 170.4  | 175.1  | 173.9  | 176.3  |
| 10637.4 | 55°   | 7734.2 | 3320.3 | 599.2  | 247.8  | 252.6  | 197.8  | 159.6  | 169.2  | 169.2  | 169.2  |
| 11407.1 | 57.5° | 8184.5 | 3102.2 | 425.3  | 201.3  | 209.7  | 162.0  | 150.1  | 163.2  | 162.0  | 160.8  |
| 12333.9 | 60°   | 8508.5 | 2749.6 | 280.0  | 165.6  | 166.8  | 133.4  | 139.4  | 153.7  | 152.5  | 146.5  |
| 13289.4 | 62.5° | 8750.4 | 2360.0 | 179.9  | 140.6  | 127.5  | 120.3  | 127.5  | 139.4  | 134.6  | 121.5  |
| 14099.5 | 65°   | 8723.0 | 1820.4 | 138.2  | 120.3  | 104.8  | 104.8  | 110.8  | 121.5  | 107.2  | 85.8   |
| 14254.3 | 67.5° | 8214.3 | 1231.8 | 114.4  | 101.3  | 88.2   | 87.0   | 91.7   | 101.3  | 91.7   | 72.7   |
| 13460.9 | 70°   | 7305.3 | 805.3  | 91.7   | 78.6   | 70.3   | 64.3   | 73.9   | 87.0   | 77.4   | 58.4   |
| 11459.5 | 72.5° | 5929.3 | 490.8  | 69.1   | 57.2   | 51.2   | 41.7   | 58.4   | 71.5   | 61.9   | 42.9   |
| 7968.9  | 75°   | 3836.1 | 250.2  | 47.7   | 36.9   | 27.4   | 25.0   | 42.9   | 53.6   | 42.9   | 26.2   |
| 3535.9  | 77.5° | 1467.7 | 104.8  | 26.2   | 16.7   | 14.3   | 11.9   | 23.8   | 32.2   | 17.9   | 6.0    |
| 685.0   | 80°   | 282.3  | 44.1   | 13.1   | 8.3    | 7.1    | 4.8    | 3.6    | 2.4    | 0.0    | 0.0    |
| 121.5   | 82.5° | 48.8   | 14.3   | 4.8    | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 23.8    | 85°   | 16.7   | 2.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 8.3     | 87.5° | 6.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |

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| 180°   |
|--------|
| 2212.3 |
| 1342.6 |
| 786.3  |
| 639.7  |
| 590.9  |
| 545.6  |
| 502.7  |
| 463.4  |
| 425.3  |
| 388.4  |
| 351.4  |
| 321.7  |
| 296.6  |
| 277.6  |
| 259.7  |
| 245.4  |
| 226.4  |
| 210.9  |
| 200.1  |
| 189.4  |
| 182.3  |
| 176.3  |
| 169.2  |
| 160.8  |
| 146.5  |
| 119.1  |
| 83.4   |
| 70.3   |
| 56.0   |
| 40.5   |
| 22.6   |
| 4.8    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |