

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: P954801

Luminaire Tested: **GLAN-SB7D-940-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7D-940-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43659 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

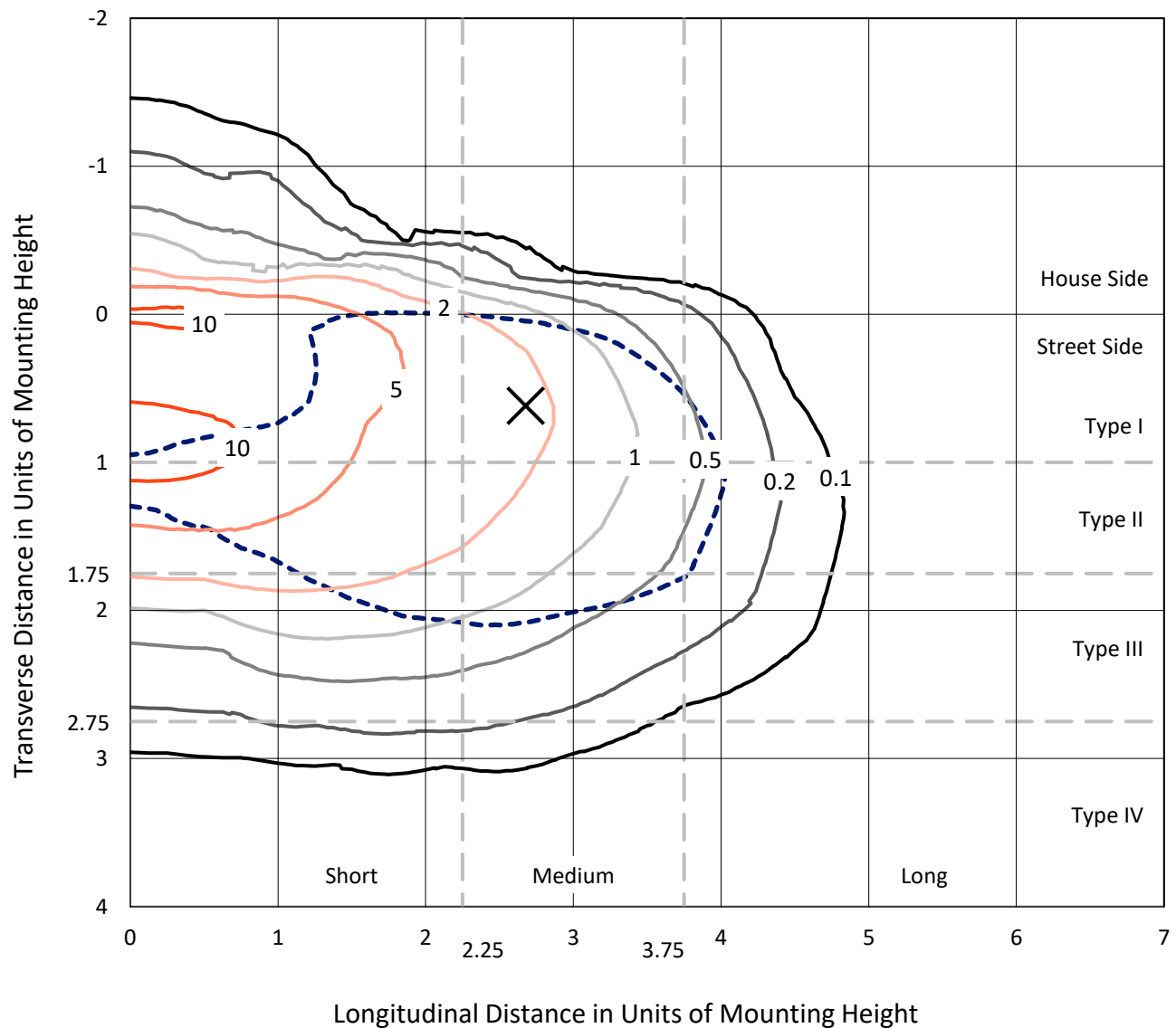
Input Watts (W): 512.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

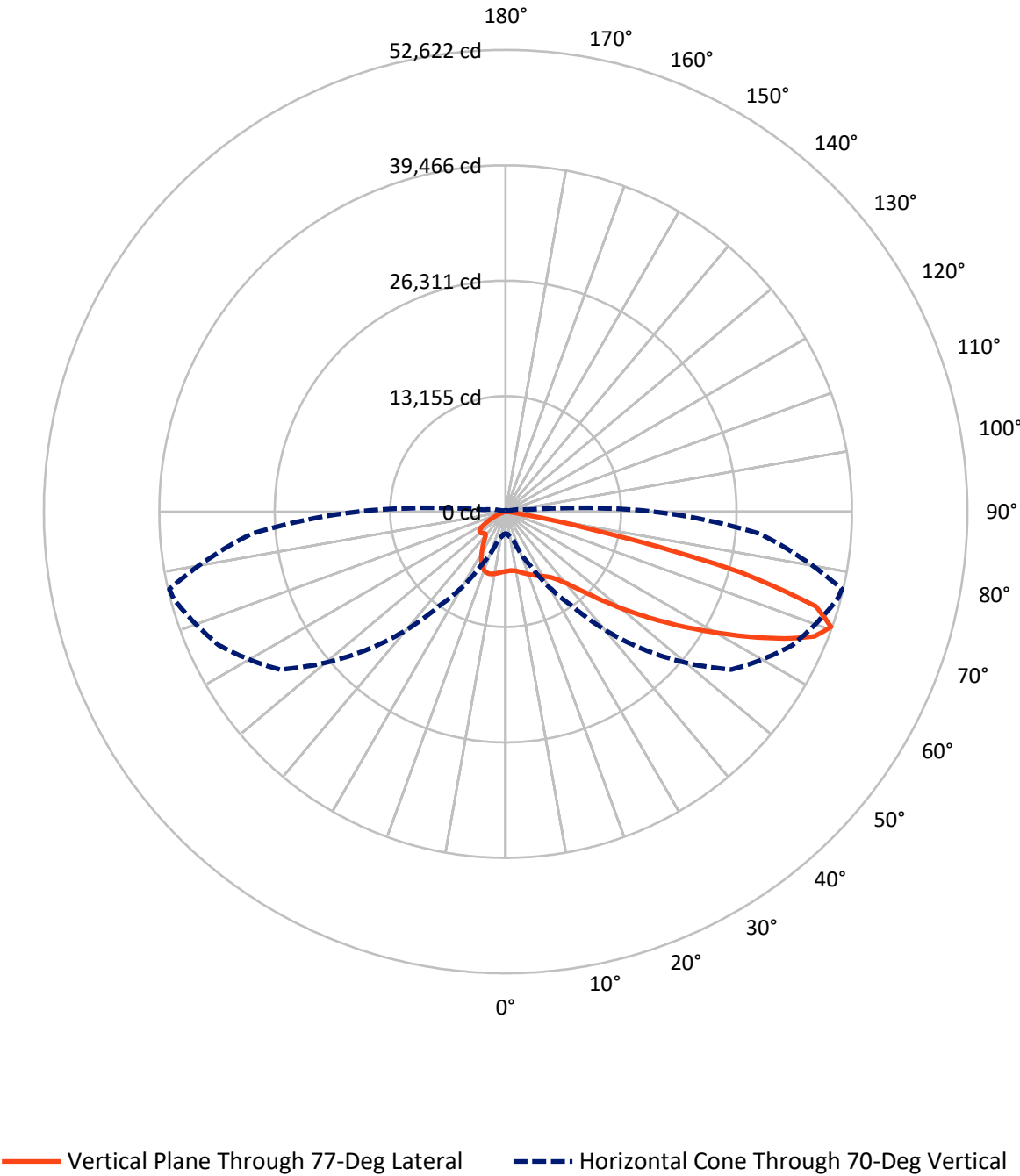
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type III - 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    | 4602.3   | 0.0    | 4602.3  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 39056.7  | 0.0    | 39056.7 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 43659.0  | 0.0    | 43659.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 586.9   | 1.3       |
| 10°-20°   | 1393.3  | 3.2       |
| 20°-30°   | 2155.0  | 4.9       |
| 30°-40°   | 3910.4  | 9.0       |
| 40°-50°   | 7381.3  | 16.9      |
| 50°-60°   | 10665.3 | 24.4      |
| 60°-70°   | 11353.0 | 26.0      |
| 70°-80°   | 6016.3  | 13.8      |
| 80°-90°   | 197.5   | 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°    | 43659.0 | 100.0     |
| 0°-180°   | 43659.0 | 100.0     |

**Coefficient of Utilization**



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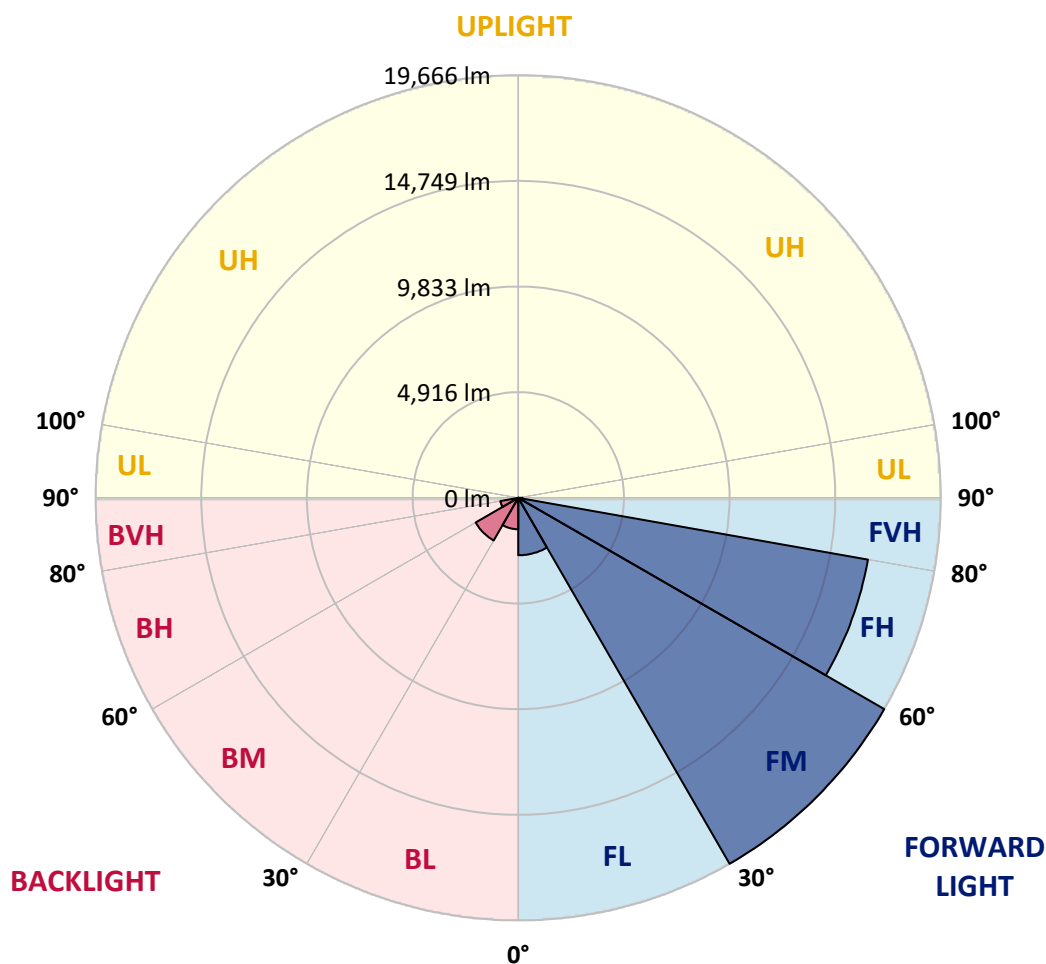
CATALOG NUMBER: GLAN-SB7D-940-U-T3R-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2673.0  | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 19666.0 | 45.0      |                         |      |         |
| FH   | (60°-80°)   | 16525.5 | 37.9      |                         |      | G5      |
| FVH  | (80°-90°)   | 192.2   | 0.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1462.2  | 3.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2291.0  | 5.2       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 843.7   | 1.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 5.3     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6810.0  | 6810.0  | 6810.0  | 6810.0  | 6810.0  | 6810.0  | 6810.0  | 6810.0  | 6810.0  | 6810.0  |
| 2.5°  | 6393.7  | 6451.6  | 6443.3  | 6481.9  | 6495.7  | 6550.8  | 6606.0  | 6680.4  | 6763.1  | 6760.4  |
| 5°    | 6032.5  | 6090.4  | 6104.2  | 6156.6  | 6222.8  | 6308.2  | 6421.3  | 6570.1  | 6724.5  | 6749.4  |
| 7.5°  | 5605.2  | 5665.8  | 5701.7  | 5806.4  | 5927.7  | 6104.2  | 6288.9  | 6506.7  | 6763.1  | 6799.0  |
| 10°   | 5177.8  | 5233.0  | 5279.8  | 5428.7  | 5621.7  | 5883.6  | 6184.2  | 6498.5  | 6843.1  | 6895.5  |
| 12.5° | 4913.1  | 4965.5  | 5017.9  | 5147.5  | 5387.4  | 5707.2  | 6115.2  | 6537.1  | 6975.4  | 7049.9  |
| 15°   | 4819.4  | 4866.3  | 4907.6  | 5023.4  | 5246.7  | 5610.7  | 6101.4  | 6617.0  | 7143.6  | 7242.9  |
| 17.5° | 4833.2  | 4858.0  | 4885.6  | 4973.8  | 5191.6  | 5566.6  | 6126.3  | 6754.9  | 7342.1  | 7430.4  |
| 20°   | 4913.1  | 4926.9  | 4929.7  | 4990.3  | 5183.3  | 5561.1  | 6175.9  | 6887.2  | 7529.6  | 7648.2  |
| 22.5° | 5015.1  | 5020.7  | 5015.1  | 5056.5  | 5235.7  | 5602.4  | 6242.1  | 7047.1  | 7739.2  | 7849.4  |
| 25°   | 5492.1  | 5387.4  | 5255.0  | 5175.1  | 5323.9  | 5682.4  | 6341.3  | 7262.2  | 7968.0  | 8075.5  |
| 27.5° | 6972.7  | 6672.2  | 6197.9  | 5665.8  | 5505.9  | 5798.2  | 6479.2  | 7480.0  | 8199.6  | 8296.1  |
| 30°   | 9376.9  | 8982.6  | 8177.5  | 6978.2  | 6090.4  | 6040.8  | 6658.4  | 7697.8  | 8445.0  | 8549.7  |
| 32.5° | 11786.6 | 11690.1 | 10760.9 | 9101.2  | 7405.5  | 6581.2  | 6956.1  | 7992.8  | 8770.3  | 8853.0  |
| 35°   | 14223.8 | 14028.1 | 13267.1 | 11626.7 | 9432.0  | 7681.3  | 7452.4  | 8378.8  | 9197.7  | 9291.4  |
| 37.5° | 16090.4 | 15971.8 | 15500.4 | 14149.4 | 11836.2 | 9379.6  | 8301.6  | 8977.1  | 9818.0  | 9922.8  |
| 40°   | 17739.1 | 17684.0 | 17524.1 | 16633.5 | 14524.4 | 11601.8 | 9622.2  | 9903.5  | 10678.2 | 10802.3 |
| 42.5° | 19035.0 | 19164.5 | 19255.5 | 19007.4 | 17295.2 | 14138.4 | 11397.8 | 11204.8 | 11877.5 | 12004.4 |
| 45°   | 20361.1 | 20405.2 | 20771.9 | 21130.3 | 20046.8 | 16790.7 | 13399.5 | 12729.5 | 13369.1 | 13526.3 |
| 47.5° | 21213.1 | 21389.5 | 22034.7 | 22666.0 | 22360.0 | 19421.0 | 15550.0 | 14529.9 | 15097.8 | 15392.8 |
| 50°   | 21276.5 | 21610.1 | 22497.9 | 23597.9 | 24044.6 | 21924.4 | 17888.0 | 16581.1 | 17185.0 | 17510.3 |
| 52.5° | 20220.5 | 20738.8 | 22114.6 | 23724.8 | 24954.4 | 24044.6 | 20306.0 | 18632.4 | 19407.2 | 19831.8 |
| 55°   | 15503.1 | 16181.4 | 20672.7 | 23035.5 | 24990.3 | 25652.0 | 22660.5 | 20769.2 | 21883.0 | 22362.8 |
| 57.5° | 13507.0 | 13848.9 | 16253.1 | 21838.9 | 24325.8 | 26299.9 | 24789.0 | 22803.9 | 24576.7 | 25172.2 |
| 60°   | 11237.9 | 11687.3 | 13631.1 | 19881.4 | 23424.2 | 26363.3 | 26669.3 | 25428.7 | 27496.5 | 28166.4 |
| 62.5° | 7637.1  | 8125.1  | 10057.9 | 16517.7 | 22191.8 | 26333.0 | 28210.6 | 28130.6 | 30741.6 | 31461.2 |
| 65°   | 4731.2  | 5037.2  | 6311.0  | 13487.7 | 20468.6 | 26366.1 | 29823.5 | 31411.5 | 34165.9 | 34896.5 |
| 67.5° | 3738.6  | 3879.2  | 4543.7  | 10355.6 | 17499.3 | 25621.6 | 31433.6 | 34496.7 | 37388.9 | 37967.9 |
| 70°   | 2511.7  | 2597.2  | 3305.8  | 6942.4  | 13019.0 | 22186.3 | 31403.3 | 36046.2 | 39048.7 | 39338.2 |
| 72.5° | 1323.4  | 1389.6  | 1932.7  | 3214.8  | 7863.2  | 15770.6 | 26470.8 | 34193.4 | 37397.2 | 36961.6 |
| 75°   | 661.7   | 772.0   | 1301.3  | 1632.2  | 3358.1  | 8795.1  | 16437.8 | 26958.8 | 29434.7 | 27747.4 |
| 77.5° | 501.8   | 606.6   | 1075.3  | 1075.3  | 1169.0  | 2961.1  | 6961.7  | 14703.6 | 13562.1 | 11293.0 |
| 80°   | 319.8   | 413.6   | 940.2   | 813.3   | 488.0   | 752.7   | 1814.2  | 4119.1  | 2881.2  | 2191.9  |
| 82.5° | 187.5   | 270.2   | 783.0   | 537.6   | 273.0   | 278.5   | 512.8   | 876.8   | 747.2   | 581.7   |
| 85°   | 74.4    | 176.5   | 537.6   | 212.3   | 107.5   | 68.9    | 154.4   | 187.5   | 154.4   | 115.8   |
| 87.5° | 0.0     | 41.4    | 93.7    | 0.0     | 8.3     | 5.5     | 11.0    | 13.8    | 13.8    | 11.0    |
| 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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**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6810.0  | 0°    | 6810.0  | 6810.0  | 6810.0 | 6810.0 | 6810.0 | 6810.0 | 6810.0 | 6810.0 | 6810.0 | 6810.0 |
| 6815.5  | 2.5°  | 6840.3  | 6845.9  | 6862.4 | 6865.2 | 6826.6 | 6776.9 | 6757.6 | 6749.4 | 6716.3 | 6713.5 |
| 6859.6  | 5°    | 6923.1  | 6947.9  | 6923.1 | 6851.4 | 6680.4 | 6440.6 | 6258.6 | 6109.7 | 5974.6 | 5933.3 |
| 7011.3  | 7.5°  | 7088.5  | 7113.3  | 7038.9 | 6757.6 | 6327.5 | 5850.5 | 5420.4 | 5117.2 | 4844.2 | 4742.2 |
| 7196.0  | 10°   | 7325.6  | 7358.7  | 7124.3 | 6556.4 | 5795.4 | 5028.9 | 4301.1 | 3788.2 | 3388.5 | 3225.8 |
| 7446.9  | 12.5° | 7623.4  | 7637.1  | 7171.2 | 6250.3 | 5103.4 | 4008.8 | 2977.7 | 2429.0 | 2073.3 | 1941.0 |
| 7750.2  | 15°   | 7951.5  | 7932.2  | 7176.7 | 5834.0 | 4160.5 | 2834.3 | 1943.7 | 1596.4 | 1453.0 | 1408.9 |
| 8053.5  | 17.5° | 8296.1  | 8216.1  | 7066.4 | 5233.0 | 3126.5 | 1938.2 | 1442.0 | 1359.2 | 1334.4 | 1323.4 |
| 8354.0  | 20°   | 8635.2  | 8456.0  | 6865.2 | 4447.2 | 2244.3 | 1447.5 | 1309.6 | 1284.8 | 1271.0 | 1265.5 |
| 8657.3  | 22.5° | 8944.0  | 8638.0  | 6520.5 | 3534.6 | 1629.4 | 1279.3 | 1237.9 | 1215.9 | 1191.1 | 1180.0 |
| 8952.3  | 25°   | 9244.5  | 8742.7  | 6035.3 | 2682.6 | 1304.1 | 1196.6 | 1163.5 | 1122.1 | 1089.1 | 1075.3 |
| 9269.3  | 27.5° | 9536.8  | 8808.9  | 5428.7 | 1985.1 | 1163.5 | 1119.4 | 1058.7 | 1000.8 | 976.0  | 970.5  |
| 9608.5  | 30°   | 9848.3  | 8831.0  | 4739.4 | 1480.6 | 1078.0 | 1022.9 | 934.7  | 868.5  | 854.7  | 857.5  |
| 10066.1 | 32.5° | 10228.8 | 8864.0  | 4044.7 | 1213.1 | 1006.3 | 907.1  | 802.3  | 733.4  | 722.4  | 733.4  |
| 10733.4 | 35°   | 10683.7 | 8930.2  | 3374.7 | 1116.6 | 942.9  | 788.5  | 675.5  | 617.6  | 606.6  | 614.8  |
| 11588.1 | 37.5° | 11301.3 | 9037.7  | 2748.8 | 1097.3 | 890.5  | 689.3  | 568.0  | 521.1  | 521.1  | 523.8  |
| 12635.7 | 40°   | 12122.9 | 9324.5  | 2189.1 | 1083.5 | 863.0  | 614.8  | 479.7  | 460.4  | 468.7  | 474.2  |
| 13970.2 | 42.5° | 13123.8 | 9933.8  | 1811.4 | 1067.0 | 832.6  | 581.7  | 435.6  | 427.3  | 441.1  | 446.6  |
| 15569.3 | 45°   | 14245.9 | 10705.8 | 1679.1 | 1039.4 | 805.1  | 603.8  | 416.3  | 405.3  | 421.8  | 424.6  |
| 17361.4 | 47.5° | 15406.6 | 11461.2 | 1662.5 | 1009.1 | 777.5  | 636.9  | 410.8  | 386.0  | 405.3  | 408.0  |
| 19274.8 | 50°   | 16581.1 | 11954.7 | 1679.1 | 962.2  | 733.4  | 636.9  | 413.6  | 366.7  | 383.2  | 391.5  |
| 21259.9 | 52.5° | 17763.9 | 12180.8 | 1668.0 | 860.2  | 656.2  | 598.3  | 413.6  | 350.2  | 366.7  | 372.2  |
| 23404.9 | 55°   | 18910.9 | 12136.7 | 1499.9 | 708.6  | 556.9  | 529.4  | 402.5  | 336.4  | 347.4  | 350.2  |
| 25431.4 | 57.5° | 19818.0 | 11521.9 | 1188.3 | 551.4  | 452.2  | 441.1  | 366.7  | 319.8  | 328.1  | 325.3  |
| 27289.7 | 60°   | 20292.2 | 10170.9 | 849.2  | 424.6  | 355.7  | 347.4  | 322.6  | 297.8  | 303.3  | 289.5  |
| 28864.0 | 62.5° | 20297.7 | 8384.3  | 568.0  | 336.4  | 284.0  | 275.7  | 275.7  | 267.4  | 261.9  | 234.4  |
| 30082.6 | 65°   | 19864.8 | 6402.0  | 377.7  | 267.4  | 228.8  | 215.1  | 231.6  | 228.8  | 209.5  | 170.9  |
| 30454.8 | 67.5° | 18883.3 | 4196.3  | 286.7  | 209.5  | 176.5  | 168.2  | 184.7  | 193.0  | 179.2  | 143.4  |
| 29098.3 | 70°   | 16865.1 | 2442.8  | 237.1  | 162.7  | 132.3  | 124.1  | 148.9  | 165.4  | 148.9  | 115.8  |
| 24871.7 | 72.5° | 14008.8 | 1317.9  | 193.0  | 121.3  | 91.0   | 82.7   | 118.6  | 135.1  | 118.6  | 85.5   |
| 15958.0 | 75°   | 9090.1  | 705.8   | 148.9  | 80.0   | 46.9   | 52.4   | 88.2   | 99.3   | 82.7   | 55.1   |
| 4684.3  | 77.5° | 3052.1  | 311.6   | 93.7   | 38.6   | 22.1   | 22.1   | 52.4   | 60.7   | 38.6   | 19.3   |
| 851.9   | 80°   | 681.0   | 129.6   | 38.6   | 16.5   | 8.3    | 8.3    | 11.0   | 11.0   | 5.5    | 0.0    |
| 261.9   | 82.5° | 223.3   | 52.4    | 16.5   | 5.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 66.2    | 85°   | 85.5    | 19.3    | 5.5    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 22.1    | 87.5° | 33.1    | 2.8     | 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°   |
|--------|
| 6810.0 |
| 6719.0 |
| 5908.4 |
| 4700.8 |
| 3156.9 |
| 1899.6 |
| 1408.9 |
| 1320.6 |
| 1260.0 |
| 1177.3 |
| 1069.8 |
| 965.0  |
| 857.5  |
| 730.6  |
| 612.1  |
| 521.1  |
| 474.2  |
| 446.6  |
| 427.3  |
| 410.8  |
| 394.3  |
| 372.2  |
| 350.2  |
| 325.3  |
| 286.7  |
| 226.1  |
| 165.4  |
| 140.6  |
| 110.3  |
| 82.7   |
| 49.6   |
| 16.5   |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |
| 0.0    |