

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: McGRAW-EDISON

Report Number: P956897

Luminaire Tested: **GALN-SB9B-930-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956897  
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: McGRAW-EDISON  
Catalog Number: GALN-SB9B-930-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

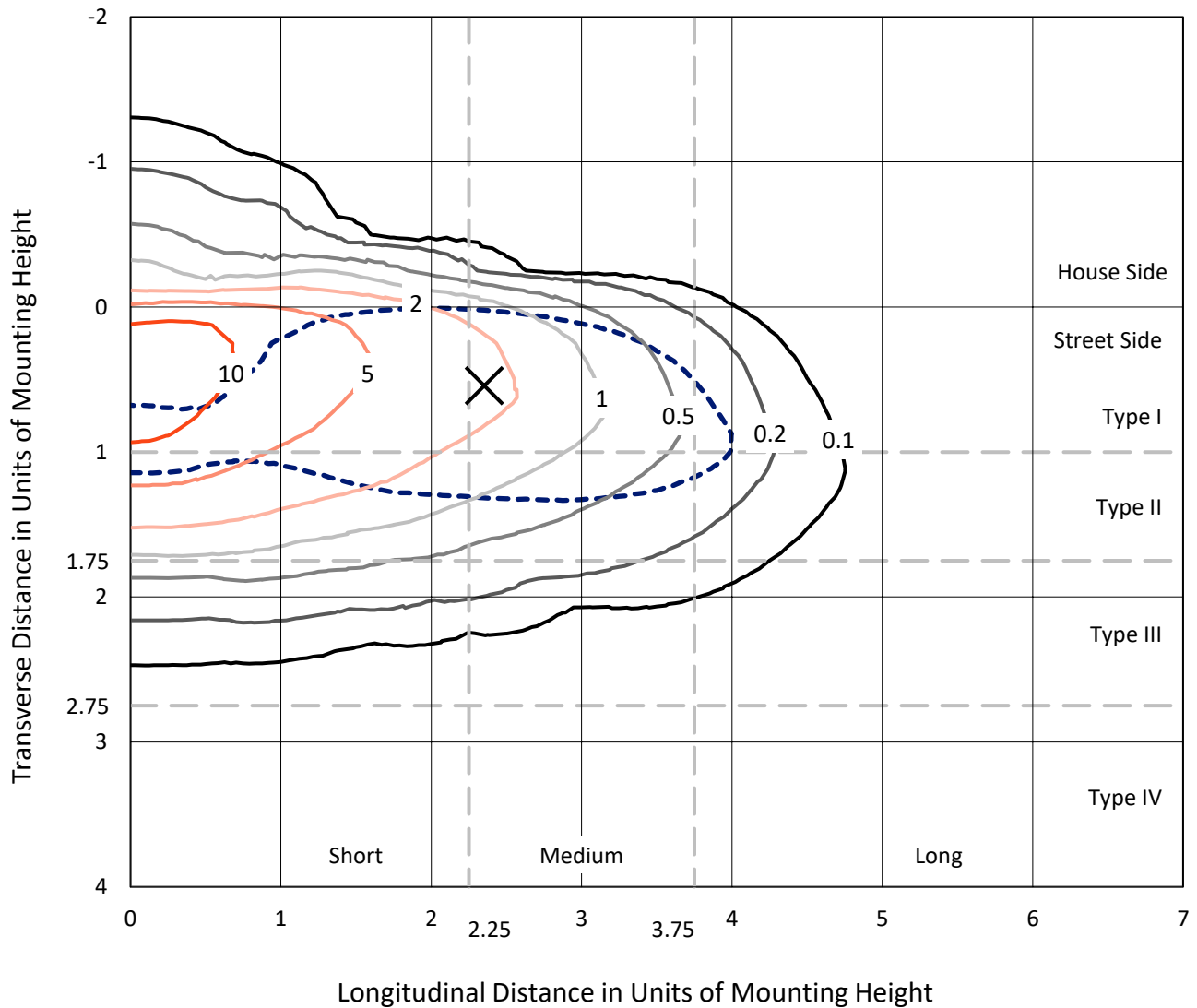
Lumens per Lamp: N/A  
Luminaire Lumens: 30209 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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

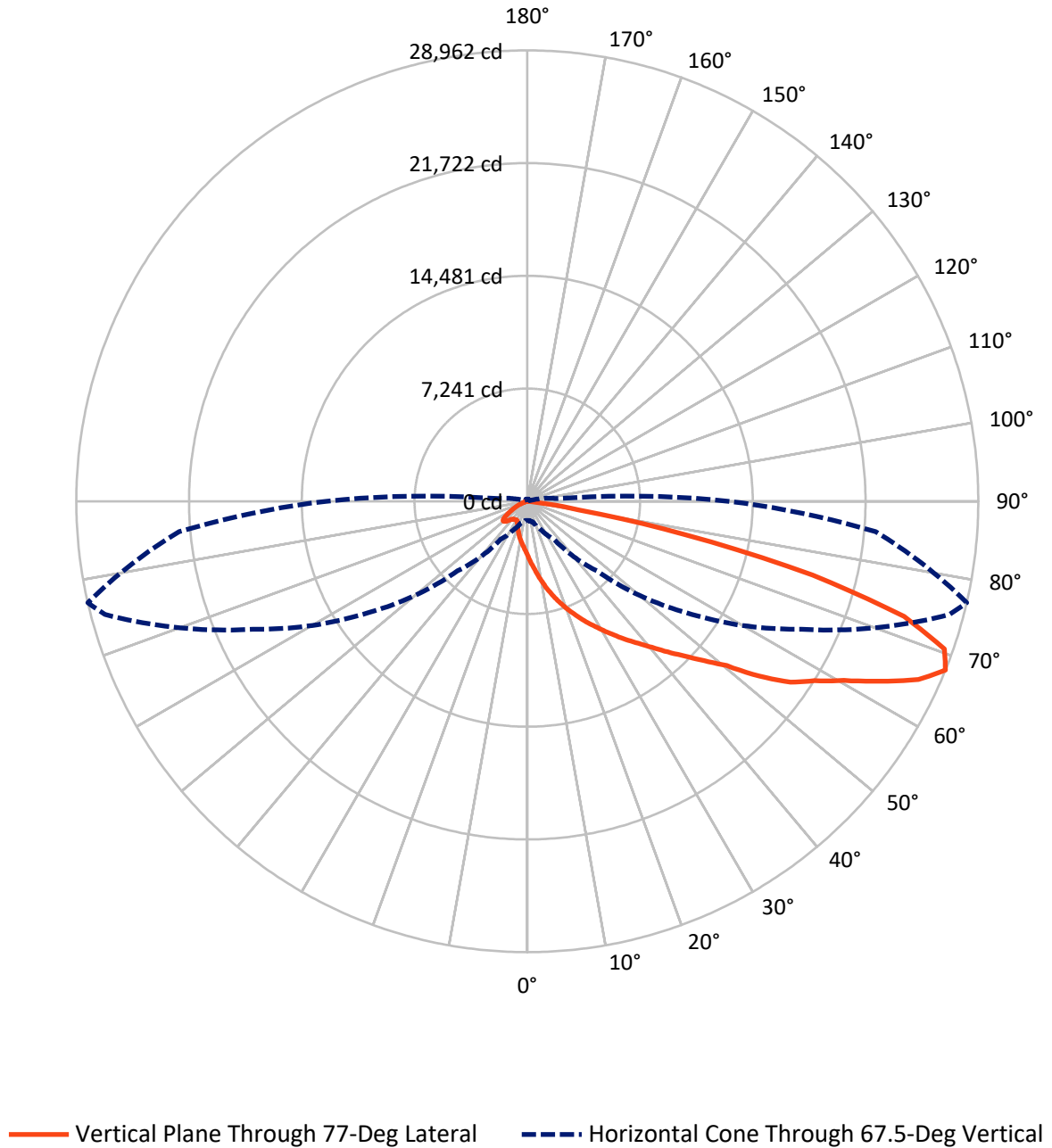
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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    | 2222.5   | 0.0    | 2222.5  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 27986.5  | 0.0    | 27986.5 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 30209.0  | 0.0    | 30209.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 355.5   | 1.2       |
| 10°-20°   | 1245.1  | 4.1       |
| 20°-30°   | 2402.7  | 8.0       |
| 30°-40°   | 4171.2  | 13.8      |
| 40°-50°   | 6056.4  | 20.0      |
| 50°-60°   | 6955.0  | 23.0      |
| 60°-70°   | 6038.3  | 20.0      |
| 70°-80°   | 2844.1  | 9.4       |
| 80°-90°   | 140.7   | 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°    | 30209.0 | 100.0     |
| 0°-180°   | 30209.0 | 100.0     |

**Coefficient of Utilization**



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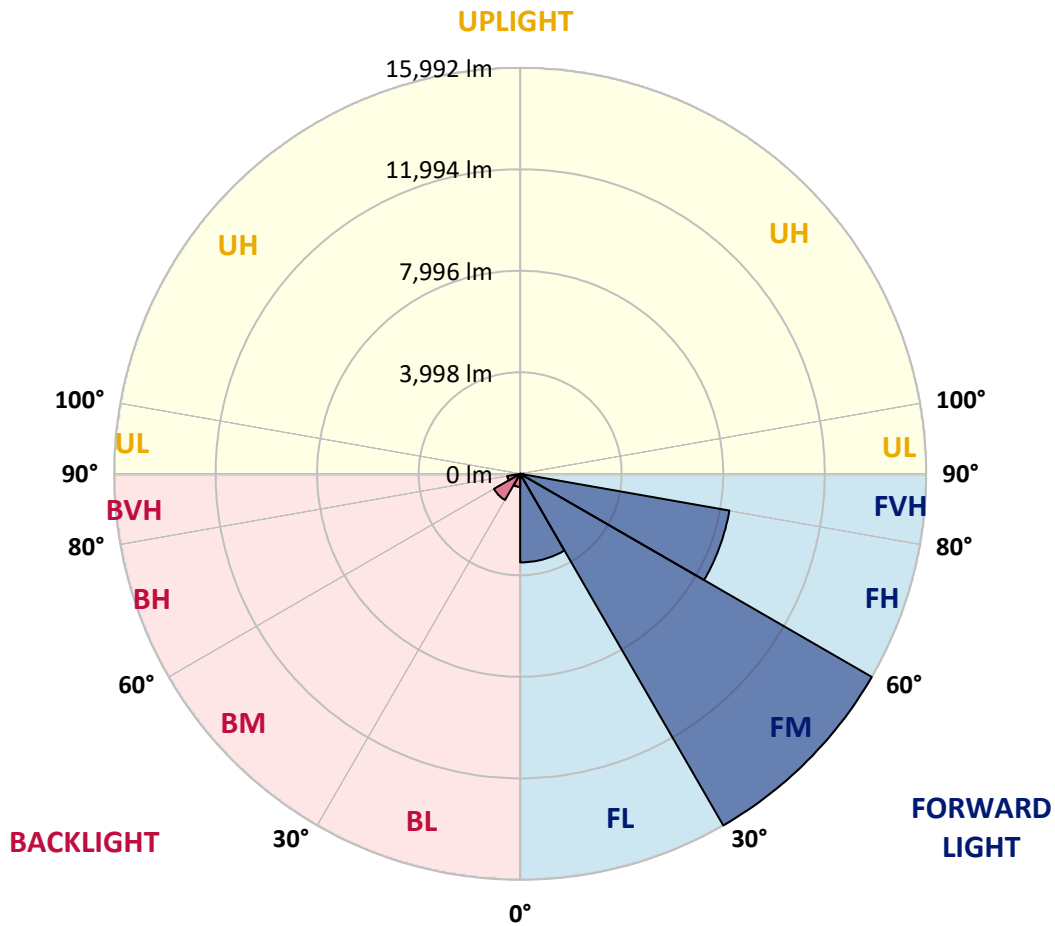
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3488.8  | 11.5      |                         |      |          |
| FM (30°-60°)   | 15991.8 | 52.9      |                         |      |          |
| FH (60°-80°)   | 8367.8  | 27.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 138.1   | 0.5       |                         |      | G2/225   |
| BL (0°-30°)    | 514.5   | 1.7       | B2/1000                 |      |          |
| BM (30°-60°)   | 1190.8  | 3.9       | B2/2500                 |      |          |
| BH (60°-80°)   | 514.5   | 1.7       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 2.6     | 0.0       |                         |      | G0/10    |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3483.5  | 3483.5  | 3483.5  | 3483.5  | 3483.5  | 3483.5  | 3483.5  | 3483.5  | 3483.5  | 3483.5  |
| 2.5°  | 4822.9  | 4852.9  | 4809.8  | 4727.3  | 4603.5  | 4522.8  | 4325.8  | 4140.1  | 3933.8  | 3868.1  |
| 5°    | 5879.1  | 5905.3  | 5856.6  | 5766.5  | 5601.4  | 5443.9  | 5185.0  | 4796.7  | 4393.4  | 4263.9  |
| 7.5°  | 6661.3  | 6676.3  | 6657.6  | 6575.0  | 6417.4  | 6239.2  | 5950.3  | 5490.8  | 4892.3  | 4749.8  |
| 10°   | 7224.1  | 7272.9  | 7267.2  | 7235.3  | 7130.3  | 6985.8  | 6678.2  | 6154.8  | 5451.4  | 5267.5  |
| 12.5° | 7597.4  | 7651.8  | 7683.7  | 7755.0  | 7749.3  | 7657.4  | 7387.3  | 6833.9  | 6008.5  | 5792.8  |
| 15°   | 7706.2  | 7764.3  | 7886.3  | 8051.4  | 8197.7  | 8244.6  | 8055.1  | 7499.8  | 6621.9  | 6346.2  |
| 17.5° | 7644.3  | 7734.3  | 7880.6  | 8141.4  | 8462.2  | 8674.2  | 8653.5  | 8143.3  | 7179.1  | 6863.9  |
| 20°   | 7781.2  | 7867.5  | 7981.9  | 8201.4  | 8574.7  | 8959.3  | 9113.1  | 8758.6  | 7732.4  | 7402.3  |
| 22.5° | 8539.1  | 8524.1  | 8535.3  | 8571.0  | 8794.2  | 9175.0  | 9492.0  | 9317.6  | 8280.2  | 7942.6  |
| 25°   | 9739.7  | 9672.1  | 9557.7  | 9364.5  | 9308.2  | 9492.0  | 9822.2  | 9812.8  | 8858.0  | 8495.9  |
| 27.5° | 11116.6 | 11105.3 | 10837.1 | 10371.8 | 10109.2 | 10037.9 | 10195.5 | 10294.9 | 9430.1  | 9043.7  |
| 30°   | 12435.3 | 12465.3 | 12103.3 | 11585.5 | 11103.4 | 10823.9 | 10681.4 | 10752.6 | 10011.7 | 9634.6  |
| 32.5° | 13583.4 | 13615.3 | 13221.3 | 12615.4 | 12018.9 | 11681.2 | 11381.1 | 11204.7 | 10645.7 | 10234.9 |
| 35°   | 14553.2 | 14585.1 | 14133.0 | 13463.3 | 12827.4 | 12521.6 | 12182.1 | 11700.0 | 11283.5 | 10900.8 |
| 37.5° | 15419.9 | 15410.5 | 14804.6 | 14129.3 | 13504.6 | 13262.6 | 13084.4 | 12309.6 | 11940.1 | 11570.5 |
| 40°   | 15932.0 | 15971.4 | 15453.6 | 14708.9 | 14103.0 | 13926.7 | 13915.4 | 13065.6 | 12698.0 | 12339.7 |
| 42.5° | 16082.1 | 16151.5 | 15776.3 | 15164.8 | 14615.1 | 14423.8 | 14718.3 | 13883.5 | 13579.6 | 13230.7 |
| 45°   | 15811.9 | 15879.5 | 15708.8 | 15284.8 | 14964.0 | 14840.2 | 15408.6 | 14731.4 | 14521.3 | 14176.2 |
| 47.5° | 15024.1 | 15108.5 | 15149.7 | 15059.7 | 15056.0 | 15181.6 | 16027.7 | 15624.4 | 15639.4 | 15286.7 |
| 50°   | 13499.0 | 13641.5 | 14020.5 | 14339.4 | 14832.7 | 15451.8 | 16629.8 | 16592.3 | 16900.0 | 16596.1 |
| 52.5° | 10726.4 | 10929.0 | 12234.6 | 13106.9 | 14215.6 | 15401.1 | 17292.0 | 18145.6 | 19111.6 | 18667.1 |
| 55°   | 8619.7  | 8619.7  | 9681.5  | 11313.5 | 13011.2 | 15067.2 | 17580.9 | 19154.8 | 20618.0 | 20512.9 |
| 57.5° | 7027.1  | 7111.5  | 7788.7  | 9231.3  | 11268.5 | 14271.8 | 17759.1 | 19788.8 | 21831.7 | 21754.8 |
| 60°   | 4337.1  | 4519.0  | 5798.4  | 7222.2  | 9285.7  | 12855.5 | 17646.6 | 20430.4 | 23304.3 | 23366.2 |
| 62.5° | 2442.4  | 2510.0  | 3080.2  | 5196.2  | 7220.3  | 10951.5 | 16785.5 | 20788.7 | 25187.7 | 25450.3 |
| 65°   | 1686.4  | 1720.2  | 1939.7  | 3234.0  | 5004.9  | 8719.2  | 15102.9 | 20565.5 | 27074.8 | 27605.7 |
| 67.5° | 1225.0  | 1241.8  | 1378.8  | 1975.3  | 2969.5  | 6321.8  | 12465.3 | 19439.9 | 28074.7 | 28962.0 |
| 70°   | 941.7   | 953.0   | 1052.4  | 1298.1  | 1754.0  | 3901.9  | 9053.1  | 17202.0 | 27350.6 | 28410.5 |
| 72.5° | 765.4   | 776.6   | 853.5   | 960.5   | 1163.1  | 2307.4  | 5487.0  | 13969.8 | 24154.1 | 25298.4 |
| 75°   | 645.3   | 660.3   | 729.7   | 799.1   | 911.7   | 1482.0  | 2573.7  | 9728.4  | 18164.3 | 18914.7 |
| 77.5° | 358.3   | 330.2   | 592.8   | 662.2   | 769.1   | 937.9   | 1204.3  | 5725.2  | 10173.0 | 10381.2 |
| 80°   | 223.2   | 230.7   | 470.9   | 532.8   | 590.9   | 472.7   | 551.5   | 2204.2  | 3526.7  | 3350.4  |
| 82.5° | 13.1    | 30.0    | 362.0   | 384.6   | 405.2   | 202.6   | 208.2   | 748.5   | 849.8   | 780.4   |
| 85°   | 0.0     | 0.0     | 165.1   | 133.2   | 140.7   | 58.2    | 60.0    | 174.5   | 114.4   | 123.8   |
| 87.5° | 0.0     | 0.0     | 0.0     | 3.8     | 0.0     | 5.6     | 11.3    | 15.0    | 5.6     | 7.5     |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3483.5  | 0°    | 3483.5  | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 | 3483.5 |
| 3661.8  | 2.5°  | 3530.4  | 3399.1 | 3132.7 | 2872.0 | 2660.0 | 2463.1 | 2322.4 | 2189.2 | 2121.6 | 2117.9 |
| 3898.1  | 5°    | 3637.4  | 3361.6 | 2828.9 | 2358.0 | 1979.1 | 1675.2 | 1478.2 | 1337.5 | 1266.2 | 1241.8 |
| 4188.9  | 7.5°  | 3787.4  | 3372.9 | 2562.5 | 1907.8 | 1461.3 | 1200.6 | 1088.0 | 1043.0 | 1028.0 | 1011.1 |
| 4517.2  | 10°   | 3976.9  | 3399.1 | 2324.2 | 1536.4 | 1151.8 | 1020.5 | 975.5  | 956.7  | 945.5  | 934.2  |
| 4886.7  | 12.5° | 4188.9  | 3423.5 | 2087.9 | 1275.6 | 1013.0 | 945.5  | 913.6  | 891.1  | 876.0  | 862.9  |
| 5265.6  | 15°   | 4395.2  | 3438.5 | 1842.1 | 1093.6 | 941.7  | 887.3  | 853.5  | 829.1  | 808.5  | 793.5  |
| 5637.1  | 17.5° | 4599.7  | 3459.2 | 1611.4 | 984.8  | 883.5  | 829.1  | 795.4  | 765.4  | 748.5  | 731.6  |
| 6027.3  | 20°   | 4826.7  | 3455.4 | 1393.8 | 907.9  | 825.4  | 771.0  | 735.4  | 707.2  | 690.3  | 671.6  |
| 6440.0  | 22.5° | 5036.8  | 3436.6 | 1202.5 | 842.3  | 765.4  | 712.8  | 673.4  | 645.3  | 628.4  | 613.4  |
| 6862.0  | 25°   | 5278.8  | 3421.6 | 1043.0 | 782.2  | 709.1  | 656.6  | 613.4  | 587.2  | 568.4  | 555.3  |
| 7286.0  | 27.5° | 5511.4  | 3399.1 | 926.7  | 727.8  | 654.7  | 604.0  | 562.8  | 532.8  | 515.9  | 506.5  |
| 7723.1  | 30°   | 5740.2  | 3393.5 | 883.5  | 675.3  | 605.9  | 555.3  | 514.0  | 485.9  | 472.7  | 469.0  |
| 8203.3  | 32.5° | 6016.0  | 3408.5 | 902.3  | 656.6  | 560.9  | 510.2  | 470.9  | 450.2  | 437.1  | 437.1  |
| 8737.9  | 35°   | 6310.5  | 3404.8 | 930.4  | 673.4  | 530.9  | 465.2  | 435.2  | 422.1  | 408.9  | 408.9  |
| 9330.7  | 37.5° | 6680.1  | 3410.4 | 953.0  | 701.6  | 519.6  | 427.7  | 410.8  | 393.9  | 386.4  | 386.4  |
| 9979.8  | 40°   | 7231.6  | 3596.1 | 941.7  | 726.0  | 515.9  | 401.4  | 367.7  | 362.0  | 356.4  | 356.4  |
| 10713.3 | 42.5° | 7906.9  | 3999.4 | 956.7  | 727.8  | 514.0  | 382.7  | 337.7  | 348.9  | 335.8  | 333.9  |
| 11540.5 | 45°   | 8646.0  | 4440.2 | 1052.4 | 688.5  | 512.1  | 373.3  | 322.7  | 335.8  | 315.2  | 315.2  |
| 12499.1 | 47.5° | 9379.5  | 4877.3 | 1149.9 | 632.2  | 506.5  | 371.4  | 309.5  | 302.0  | 296.4  | 298.3  |
| 13748.5 | 50°   | 10390.6 | 5233.8 | 1187.4 | 555.3  | 493.4  | 367.7  | 285.1  | 287.0  | 283.3  | 287.0  |
| 15509.9 | 52.5° | 11491.7 | 5308.8 | 1142.4 | 469.0  | 455.8  | 356.4  | 268.3  | 275.8  | 273.9  | 277.6  |
| 16749.9 | 55°   | 12178.3 | 5228.1 | 943.6  | 390.2  | 397.7  | 311.4  | 251.4  | 266.4  | 266.4  | 266.4  |
| 17961.7 | 57.5° | 12887.4 | 4884.8 | 669.7  | 317.0  | 330.2  | 255.1  | 236.4  | 257.0  | 255.1  | 253.2  |
| 19421.2 | 60°   | 13397.7 | 4329.6 | 440.8  | 260.7  | 262.6  | 210.1  | 219.5  | 242.0  | 240.1  | 230.7  |
| 20925.6 | 62.5° | 13778.5 | 3716.2 | 283.3  | 221.4  | 200.7  | 189.5  | 200.7  | 219.5  | 212.0  | 191.3  |
| 22201.2 | 65°   | 13735.3 | 2866.4 | 217.6  | 189.5  | 165.1  | 165.1  | 174.5  | 191.3  | 168.8  | 135.1  |
| 22445.1 | 67.5° | 12934.3 | 1939.7 | 180.1  | 159.5  | 138.8  | 136.9  | 144.4  | 159.5  | 144.4  | 114.4  |
| 21195.8 | 70°   | 11503.0 | 1268.1 | 144.4  | 123.8  | 110.7  | 101.3  | 116.3  | 136.9  | 121.9  | 91.9   |
| 18044.3 | 72.5° | 9336.3  | 772.9  | 108.8  | 90.0   | 80.7   | 65.7   | 91.9   | 112.6  | 97.5   | 67.5   |
| 12547.9 | 75°   | 6040.4  | 393.9  | 75.0   | 58.2   | 43.1   | 39.4   | 67.5   | 84.4   | 67.5   | 41.3   |
| 5567.7  | 77.5° | 2311.1  | 165.1  | 41.3   | 26.3   | 22.5   | 18.8   | 37.5   | 50.6   | 28.1   | 9.4    |
| 1078.6  | 80°   | 444.6   | 69.4   | 20.6   | 13.1   | 11.3   | 7.5    | 5.6    | 3.8    | 0.0    | 0.0    |
| 191.3   | 82.5° | 76.9    | 22.5   | 7.5    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 37.5    | 85°   | 26.3    | 3.8    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 13.1    | 87.5° | 9.4     | 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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|             |
|-------------|
| <u>180°</u> |
| 3483.5      |
| 2114.1      |
| 1238.1      |
| 1007.4      |
| 930.4       |
| 859.2       |
| 791.6       |
| 729.7       |
| 669.7       |
| 611.5       |
| 553.4       |
| 506.5       |
| 467.1       |
| 437.1       |
| 408.9       |
| 386.4       |
| 356.4       |
| 332.0       |
| 315.2       |
| 298.3       |
| 287.0       |
| 277.6       |
| 266.4       |
| 253.2       |
| 230.7       |
| 187.6       |
| 131.3       |
| 110.7       |
| 88.2        |
| 63.8        |
| 35.6        |
| 7.5         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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