

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: P952512

Luminaire Tested: **GALN-SB6B-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P952512  
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: McGRAW-EDISON  
Catalog Number: GALN-SB6B-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

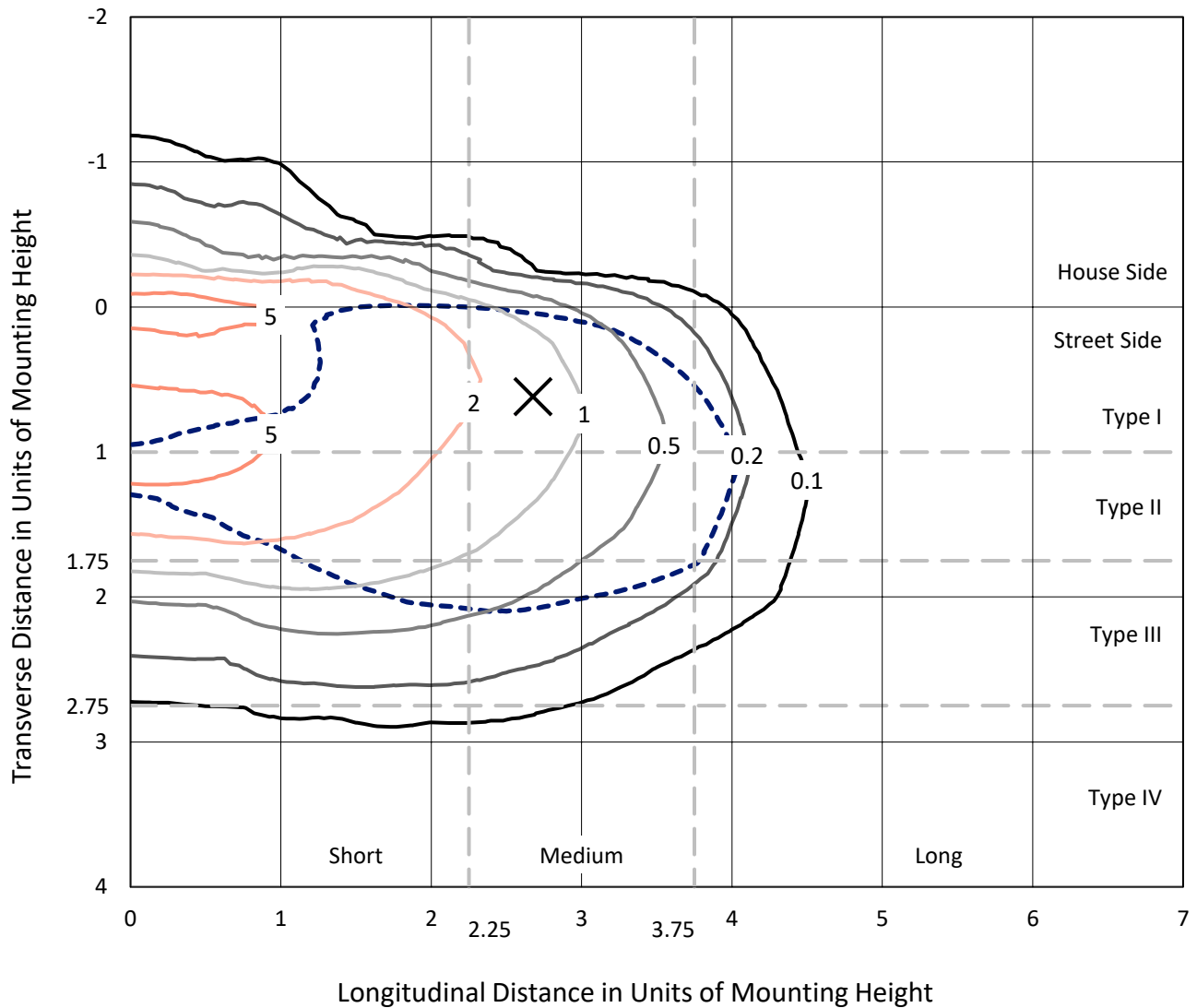
Lumens per Lamp: N/A  
Luminaire Lumens: 25545 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 220.4  
Input Voltage (V): NR  
Input Current (Ain): 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

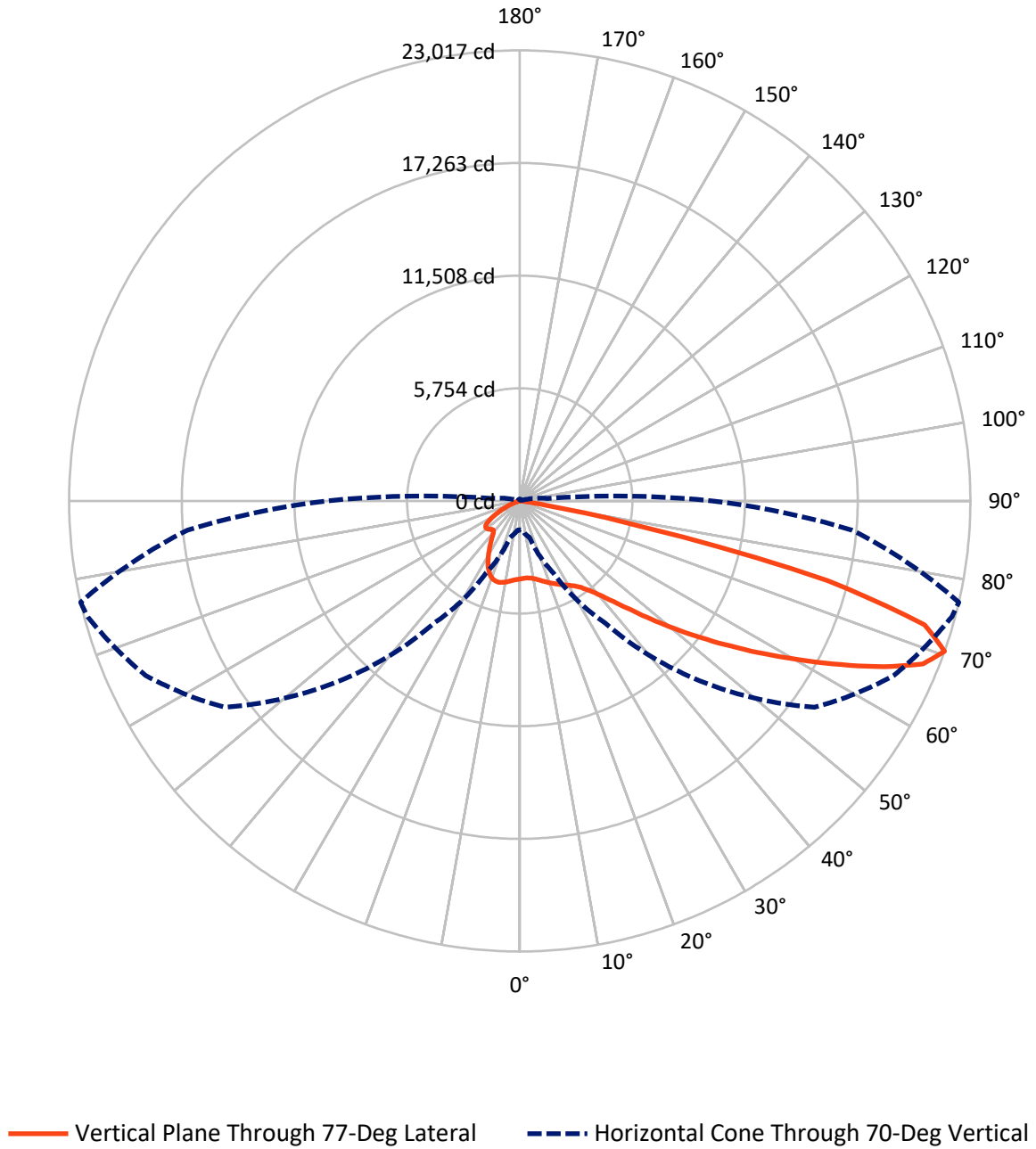
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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    | 2692.8   | 0.0    | 2692.8  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 22852.2  | 0.0    | 22852.2 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 25545.0  | 0.0    | 25545.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 343.4   | 1.3       |
| 10°-20°   | 815.2   | 3.2       |
| 20°-30°   | 1260.9  | 4.9       |
| 30°-40°   | 2288.0  | 9.0       |
| 40°-50°   | 4318.8  | 16.9      |
| 50°-60°   | 6240.3  | 24.4      |
| 60°-70°   | 6642.7  | 26.0      |
| 70°-80°   | 3520.1  | 13.8      |
| 80°-90°   | 115.6   | 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°    | 25545.0 | 100.0     |
| 0°-180°   | 25545.0 | 100.0     |

**Coefficient of Utilization**



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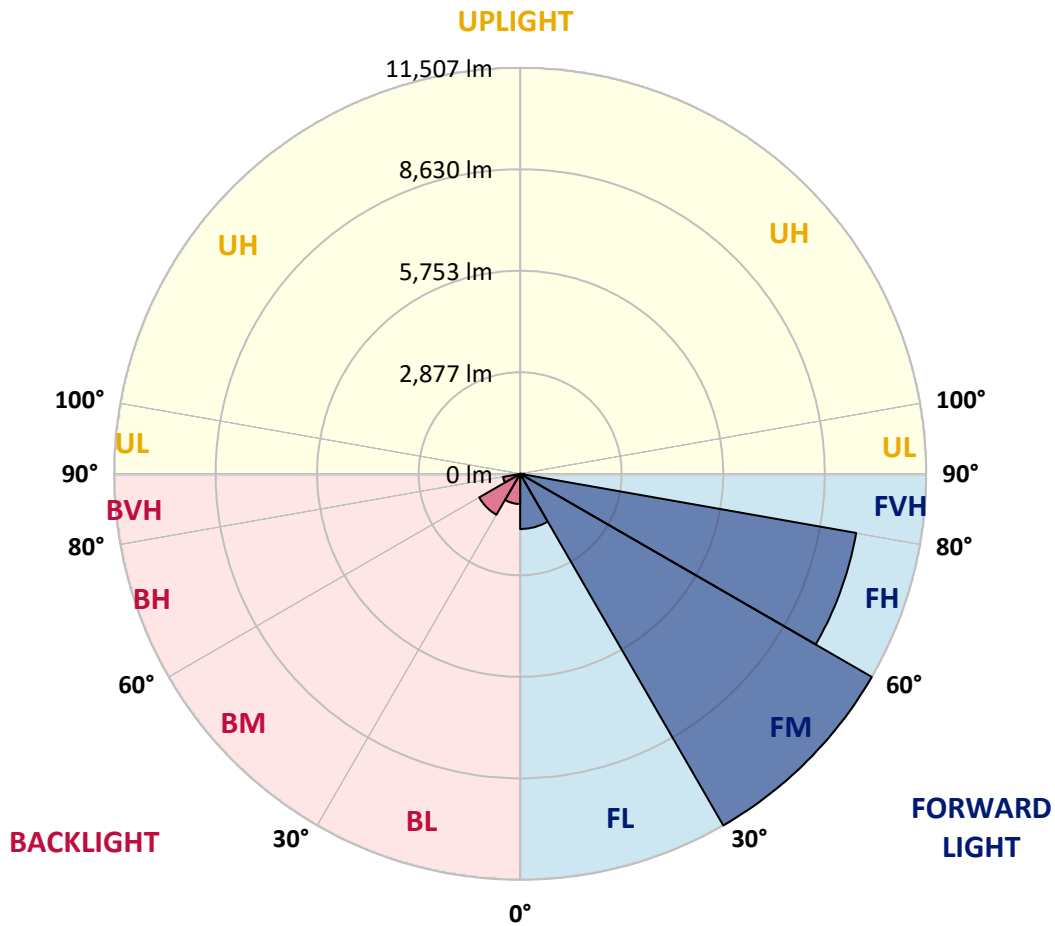
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 1564.0  | 6.1       |                         |      |          |
| FM (30°-60°)   | 11506.6 | 45.0      |                         |      |          |
| FH (60°-80°)   | 9669.1  | 37.9      |                         |      | G4/12000 |
| FVH (80°-90°)  | 112.5   | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 855.6   | 3.3       | B2/1000                 |      |          |
| BM (30°-60°)   | 1340.5  | 5.2       | B2/2500                 |      |          |
| BH (60°-80°)   | 493.7   | 1.9       | B1/500                  |      | G1/500   |
| BVH (80°-90°)  | 3.1     | 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 III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 77°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3984.6  | 3984.6  | 3984.6  | 3984.6  | 3984.6  | 3984.6  | 3984.6  | 3984.6  | 3984.6  | 3984.6  |
| 2.5°  | 3741.0  | 3774.8  | 3770.0  | 3792.6  | 3800.7  | 3832.9  | 3865.2  | 3908.7  | 3957.1  | 3955.5  |
| 5°    | 3529.6  | 3563.5  | 3571.6  | 3602.2  | 3641.0  | 3691.0  | 3757.1  | 3844.2  | 3934.6  | 3949.1  |
| 7.5°  | 3279.6  | 3315.1  | 3336.1  | 3397.4  | 3468.3  | 3571.6  | 3679.7  | 3807.1  | 3957.1  | 3978.1  |
| 10°   | 3029.6  | 3061.8  | 3089.2  | 3176.4  | 3289.3  | 3442.5  | 3618.4  | 3802.3  | 4003.9  | 4034.6  |
| 12.5° | 2874.7  | 2905.3  | 2936.0  | 3011.8  | 3152.2  | 3339.3  | 3578.0  | 3824.9  | 4081.3  | 4124.9  |
| 15°   | 2819.8  | 2847.3  | 2871.5  | 2939.2  | 3069.9  | 3282.8  | 3570.0  | 3871.6  | 4179.8  | 4237.8  |
| 17.5° | 2827.9  | 2842.4  | 2858.6  | 2910.2  | 3037.6  | 3257.0  | 3584.5  | 3952.3  | 4295.9  | 4347.5  |
| 20°   | 2874.7  | 2882.8  | 2884.4  | 2919.9  | 3032.8  | 3253.8  | 3613.5  | 4029.7  | 4405.6  | 4475.0  |
| 22.5° | 2934.4  | 2937.6  | 2934.4  | 2958.6  | 3063.4  | 3278.0  | 3652.2  | 4123.3  | 4528.2  | 4592.7  |
| 25°   | 3213.5  | 3152.2  | 3074.7  | 3027.9  | 3115.1  | 3324.8  | 3710.3  | 4249.1  | 4662.1  | 4725.0  |
| 27.5° | 4079.7  | 3903.9  | 3626.4  | 3315.1  | 3221.5  | 3392.5  | 3791.0  | 4376.6  | 4797.6  | 4854.1  |
| 30°   | 5486.4  | 5255.7  | 4784.7  | 4083.0  | 3563.5  | 3534.5  | 3895.8  | 4504.0  | 4941.2  | 5002.5  |
| 32.5° | 6896.4  | 6839.9  | 6296.2  | 5325.1  | 4333.0  | 3850.7  | 4070.1  | 4676.6  | 5131.5  | 5179.9  |
| 35°   | 8322.4  | 8207.9  | 7762.6  | 6802.8  | 5518.7  | 4494.3  | 4360.4  | 4902.5  | 5381.6  | 5436.4  |
| 37.5° | 9414.5  | 9345.2  | 9069.3  | 8278.8  | 6925.4  | 5488.0  | 4857.3  | 5252.5  | 5744.5  | 5805.8  |
| 40°   | 10379.2 | 10346.9 | 10253.4 | 9732.3  | 8498.2  | 6788.3  | 5630.0  | 5794.5  | 6247.9  | 6320.4  |
| 42.5° | 11137.4 | 11213.2 | 11266.5 | 11121.3 | 10119.5 | 8272.4  | 6668.9  | 6556.0  | 6949.6  | 7023.8  |
| 45°   | 11913.3 | 11939.2 | 12153.7 | 12363.4 | 11729.4 | 9824.3  | 7840.1  | 7448.1  | 7822.3  | 7914.3  |
| 47.5° | 12411.8 | 12515.1 | 12892.5 | 13262.0 | 13082.9 | 11363.3 | 9098.3  | 8501.5  | 8833.8  | 9006.4  |
| 50°   | 12448.9 | 12644.1 | 13163.6 | 13807.2 | 14068.6 | 12828.0 | 10466.3 | 9701.7  | 10055.0 | 10245.3 |
| 52.5° | 11831.1 | 12134.4 | 12939.3 | 13881.4 | 14600.9 | 14068.6 | 11881.1 | 10901.9 | 11355.2 | 11603.6 |
| 55°   | 9070.9  | 9467.8  | 12095.6 | 13478.1 | 14621.9 | 15009.0 | 13258.7 | 12152.1 | 12803.8 | 13084.5 |
| 57.5° | 7903.0  | 8103.0  | 9509.7  | 12778.0 | 14233.1 | 15388.1 | 14504.1 | 13342.6 | 14379.9 | 14728.3 |
| 60°   | 6575.3  | 6838.3  | 7975.6  | 11632.7 | 13705.6 | 15425.2 | 15604.3 | 14878.4 | 16088.3 | 16480.3 |
| 62.5° | 4468.5  | 4754.0  | 5884.9  | 9664.6  | 12984.5 | 15407.5 | 16506.1 | 16459.3 | 17987.0 | 18408.0 |
| 65°   | 2768.2  | 2947.3  | 3692.6  | 7891.7  | 11976.3 | 15426.9 | 17449.8 | 18379.0 | 19990.5 | 20418.0 |
| 67.5° | 2187.5  | 2269.7  | 2658.5  | 6059.1  | 10238.9 | 14991.3 | 18391.9 | 20184.1 | 21876.4 | 22215.1 |
| 70°   | 1469.6  | 1519.6  | 1934.2  | 4062.0  | 7617.4  | 12981.3 | 18374.1 | 21090.7 | 22847.5 | 23016.9 |
| 72.5° | 774.3   | 813.0   | 1130.8  | 1881.0  | 4600.8  | 9227.4  | 15488.2 | 20006.7 | 21881.2 | 21626.3 |
| 75°   | 387.2   | 451.7   | 761.4   | 955.0   | 1964.9  | 5146.0  | 9617.8  | 15773.7 | 17222.3 | 16235.1 |
| 77.5° | 293.6   | 354.9   | 629.1   | 629.1   | 684.0   | 1732.6  | 4073.3  | 8603.1  | 7935.2  | 6607.6  |
| 80°   | 187.1   | 242.0   | 550.1   | 475.9   | 285.5   | 440.4   | 1061.5  | 2410.1  | 1685.8  | 1282.5  |
| 82.5° | 109.7   | 158.1   | 458.1   | 314.6   | 159.7   | 162.9   | 300.1   | 513.0   | 437.2   | 340.4   |
| 85°   | 43.6    | 103.2   | 314.6   | 124.2   | 62.9    | 40.3    | 90.3    | 109.7   | 90.3    | 67.8    |
| 87.5° | 0.0     | 24.2    | 54.8    | 0.0     | 4.8     | 3.2     | 6.5     | 8.1     | 8.1     | 6.5     |
| 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°   |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3984.6  | 0°    | 3984.6  | 3984.6 | 3984.6 | 3984.6 | 3984.6 | 3984.6 | 3984.6 | 3984.6 | 3984.6 | 3984.6 |
| 3987.8  | 2.5°  | 4002.3  | 4005.5 | 4015.2 | 4016.8 | 3994.2 | 3965.2 | 3953.9 | 3949.1 | 3929.7 | 3928.1 |
| 4013.6  | 5°    | 4050.7  | 4065.2 | 4050.7 | 4008.8 | 3908.7 | 3768.4 | 3661.9 | 3574.8 | 3495.8 | 3471.6 |
| 4102.3  | 7.5°  | 4147.5  | 4162.0 | 4118.5 | 3953.9 | 3702.3 | 3423.2 | 3171.5 | 2994.1 | 2834.4 | 2774.7 |
| 4210.4  | 10°   | 4286.2  | 4305.6 | 4168.5 | 3836.1 | 3390.9 | 2942.4 | 2516.6 | 2216.5 | 1982.6 | 1887.4 |
| 4357.2  | 12.5° | 4460.4  | 4468.5 | 4195.9 | 3657.1 | 2986.0 | 2345.6 | 1742.2 | 1421.2 | 1213.1 | 1135.7 |
| 4534.7  | 15°   | 4652.4  | 4641.1 | 4199.1 | 3413.5 | 2434.3 | 1658.4 | 1137.3 | 934.0  | 850.1  | 824.3  |
| 4712.1  | 17.5° | 4854.1  | 4807.3 | 4134.6 | 3061.8 | 1829.3 | 1134.1 | 843.7  | 795.3  | 780.8  | 774.3  |
| 4887.9  | 20°   | 5052.5  | 4947.6 | 4016.8 | 2602.1 | 1313.1 | 846.9  | 766.3  | 751.7  | 743.7  | 740.5  |
| 5065.4  | 22.5° | 5233.2  | 5054.1 | 3815.2 | 2068.1 | 953.4  | 748.5  | 724.3  | 711.4  | 696.9  | 690.4  |
| 5238.0  | 25°   | 5409.0  | 5115.4 | 3531.3 | 1569.6 | 763.0  | 700.1  | 680.8  | 656.6  | 637.2  | 629.1  |
| 5423.5  | 27.5° | 5580.0  | 5154.1 | 3176.4 | 1161.5 | 680.8  | 655.0  | 619.5  | 585.6  | 571.1  | 567.8  |
| 5621.9  | 30°   | 5762.3  | 5167.0 | 2773.1 | 866.3  | 630.8  | 598.5  | 546.9  | 508.2  | 500.1  | 501.7  |
| 5889.7  | 32.5° | 5984.9  | 5186.4 | 2366.5 | 709.8  | 588.8  | 530.7  | 469.4  | 429.1  | 422.7  | 429.1  |
| 6280.1  | 35°   | 6251.1  | 5225.1 | 1974.5 | 653.3  | 551.7  | 461.4  | 395.2  | 361.4  | 354.9  | 359.7  |
| 6780.2  | 37.5° | 6612.4  | 5288.0 | 1608.3 | 642.0  | 521.1  | 403.3  | 332.3  | 304.9  | 304.9  | 306.5  |
| 7393.2  | 40°   | 7093.2  | 5455.8 | 1280.9 | 634.0  | 504.9  | 359.7  | 280.7  | 269.4  | 274.2  | 277.5  |
| 8174.0  | 42.5° | 7678.7  | 5812.3 | 1059.9 | 624.3  | 487.2  | 340.4  | 254.9  | 250.0  | 258.1  | 261.3  |
| 9109.6  | 45°   | 8335.3  | 6264.0 | 982.4  | 608.2  | 471.0  | 353.3  | 243.6  | 237.1  | 246.8  | 248.4  |
| 10158.2 | 47.5° | 9014.5  | 6706.0 | 972.7  | 590.4  | 454.9  | 372.6  | 240.4  | 225.8  | 237.1  | 238.8  |
| 11277.8 | 50°   | 9701.7  | 6994.8 | 982.4  | 563.0  | 429.1  | 372.6  | 242.0  | 214.6  | 224.2  | 229.1  |
| 12439.2 | 52.5° | 10393.7 | 7127.0 | 976.0  | 503.3  | 383.9  | 350.1  | 242.0  | 204.9  | 214.6  | 217.8  |
| 13694.3 | 55°   | 11064.8 | 7101.2 | 877.6  | 414.6  | 325.9  | 309.7  | 235.5  | 196.8  | 203.3  | 204.9  |
| 14880.0 | 57.5° | 11595.5 | 6741.5 | 695.3  | 322.6  | 264.6  | 258.1  | 214.6  | 187.1  | 192.0  | 190.4  |
| 15967.3 | 60°   | 11873.0 | 5951.0 | 496.9  | 248.4  | 208.1  | 203.3  | 188.7  | 174.2  | 177.4  | 169.4  |
| 16888.4 | 62.5° | 11876.2 | 4905.7 | 332.3  | 196.8  | 166.2  | 161.3  | 161.3  | 156.5  | 153.3  | 137.1  |
| 17601.4 | 65°   | 11623.0 | 3745.8 | 221.0  | 156.5  | 133.9  | 125.8  | 135.5  | 133.9  | 122.6  | 100.0  |
| 17819.2 | 67.5° | 11048.7 | 2455.3 | 167.8  | 122.6  | 103.2  | 98.4   | 108.1  | 112.9  | 104.9  | 83.9   |
| 17025.5 | 70°   | 9867.8  | 1429.3 | 138.7  | 95.2   | 77.4   | 72.6   | 87.1   | 96.8   | 87.1   | 67.8   |
| 14552.5 | 72.5° | 8196.6  | 771.1  | 112.9  | 71.0   | 53.2   | 48.4   | 69.4   | 79.0   | 69.4   | 50.0   |
| 9337.1  | 75°   | 5318.7  | 413.0  | 87.1   | 46.8   | 27.4   | 30.7   | 51.6   | 58.1   | 48.4   | 32.3   |
| 2740.8  | 77.5° | 1785.8  | 182.3  | 54.8   | 22.6   | 12.9   | 12.9   | 30.7   | 35.5   | 22.6   | 11.3   |
| 498.5   | 80°   | 398.5   | 75.8   | 22.6   | 9.7    | 4.8    | 4.8    | 6.5    | 6.5    | 3.2    | 0.0    |
| 153.3   | 82.5° | 130.7   | 30.7   | 9.7    | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 38.7    | 85°   | 50.0    | 11.3   | 3.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 12.9    | 87.5° | 19.4    | 1.6    | 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> |
|-------------|
| 3984.6      |
| 3931.3      |
| 3457.0      |
| 2750.5      |
| 1847.1      |
| 1111.5      |
| 824.3       |
| 772.7       |
| 737.2       |
| 688.8       |
| 625.9       |
| 564.6       |
| 501.7       |
| 427.5       |
| 358.1       |
| 304.9       |
| 277.5       |
| 261.3       |
| 250.0       |
| 240.4       |
| 230.7       |
| 217.8       |
| 204.9       |
| 190.4       |
| 167.8       |
| 132.3       |
| 96.8        |
| 82.3        |
| 64.5        |
| 48.4        |
| 29.0        |
| 9.7         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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