

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: P522221

Luminaire Tested: **CTN-CA8-330-727-U-T5R-HSS-HM-EX90**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: CTN-CA8-330-727-U-T5R-HSS-HM-EX90  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35096.9 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U1 - G5

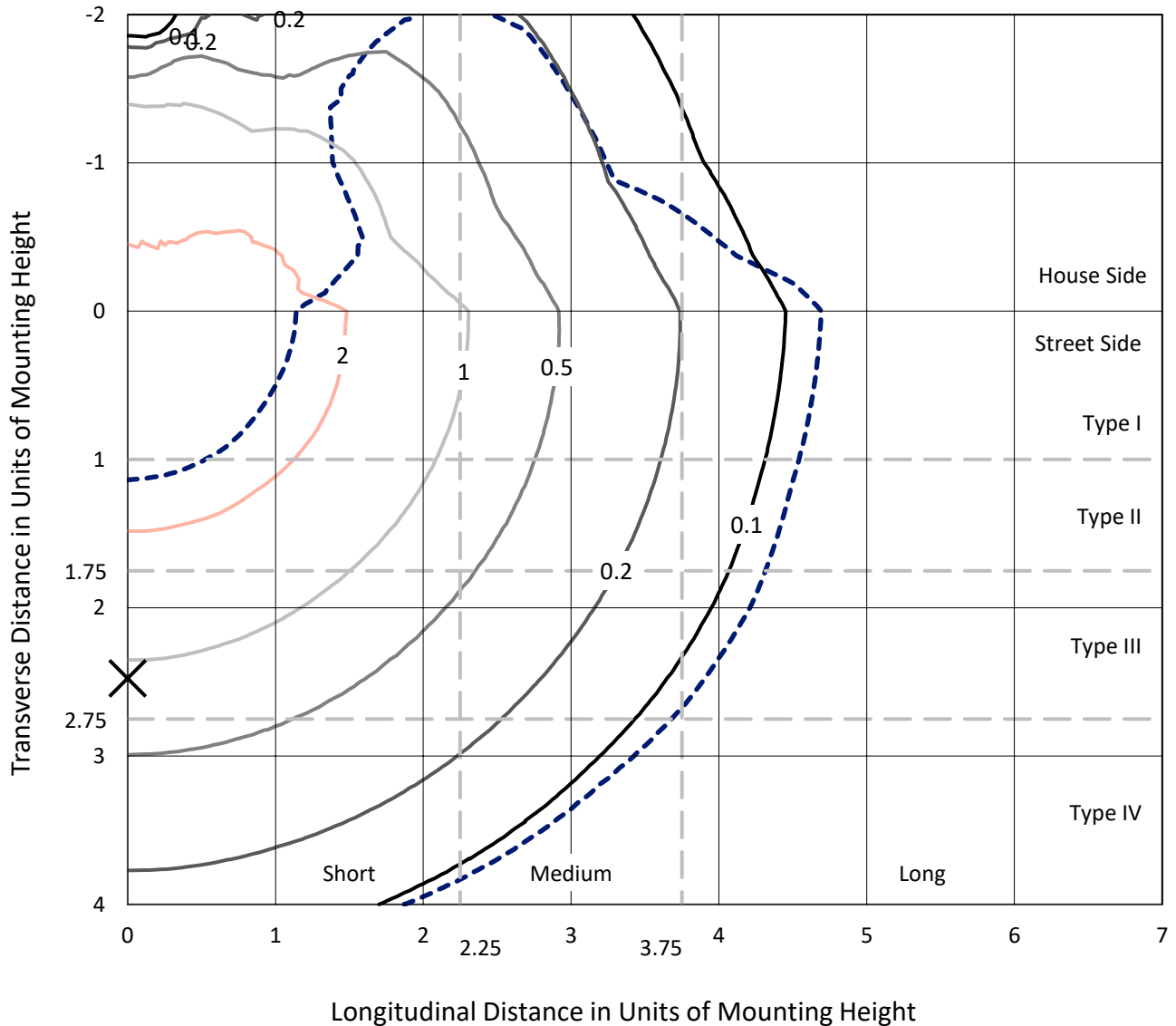
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

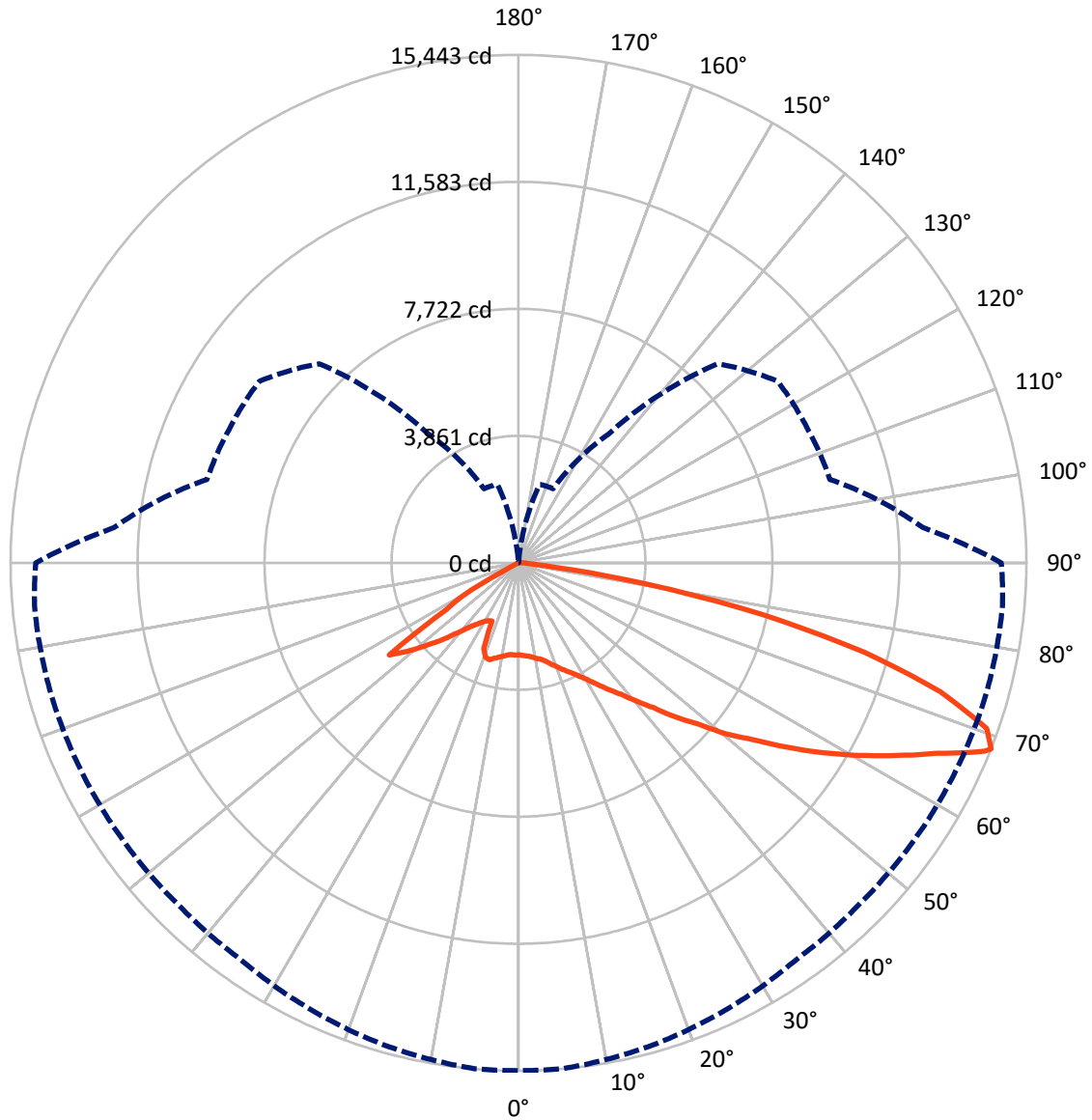
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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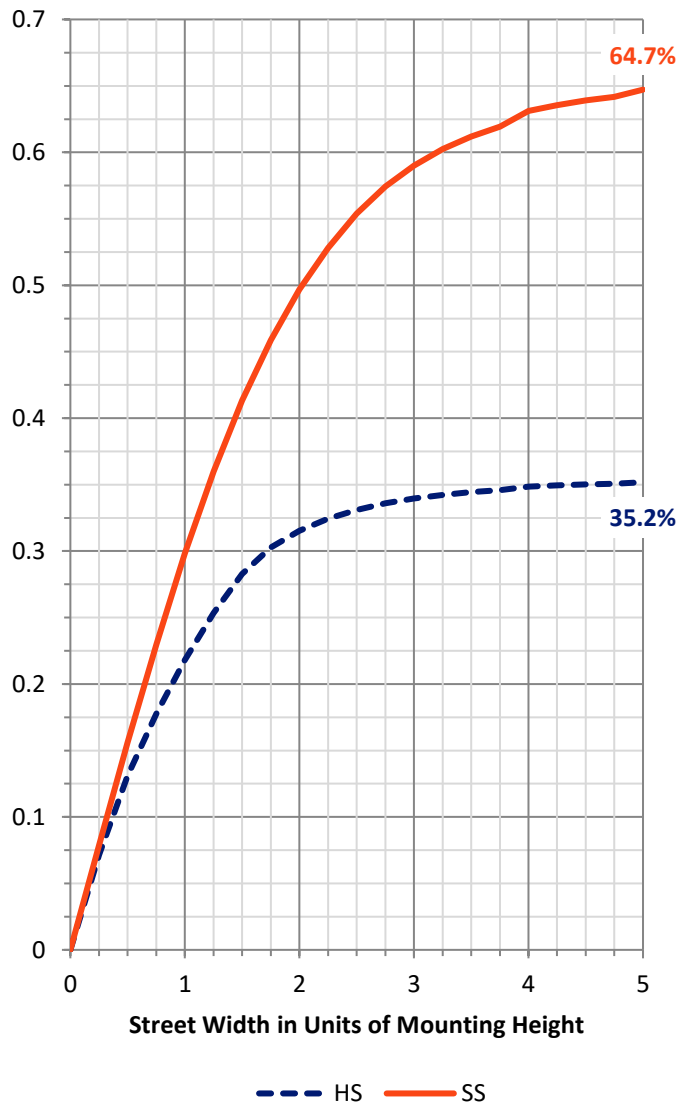
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12351.7  | 2.1    | 12353.8 |
|                    | % Fixture | 35.2     | 0.0    | 35.2    |
| <b>Street Side</b> | Lumens    | 22733.9  | 9.2    | 22743.1 |
|                    | % Fixture | 64.8     | 0.0    | 64.8    |
| <b>Total</b>       | Lumens    | 35085.6  | 11.3   | 35096.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 270.2   | 0.8       |
| 10°-20°   | 865.7   | 2.5       |
| 20°-30°   | 1545.5  | 4.4       |
| 30°-40°   | 2514.2  | 7.2       |
| 40°-50°   | 4293.5  | 12.2      |
| 50°-60°   | 7164.0  | 20.4      |
| 60°-70°   | 9966.5  | 28.4      |
| 70°-80°   | 7725.6  | 22.0      |
| 80°-90°   | 740.3   | 2.1       |
| 90°-100°  | 8.9     | 0.0       |
| 100°-110° | 0.7     | 0.0       |
| 110°-120° | 0.4     | 0.0       |
| 120°-130° | 0.3     | 0.0       |
| 130°-140° | 0.3     | 0.0       |
| 140°-150° | 0.3     | 0.0       |
| 150°-160° | 0.2     | 0.0       |
| 160°-170° | 0.2     | 0.0       |
| 170°-180° | 0.1     | 0.0       |
| 0°-90°    | 35085.6 | 100.0     |
| 0°-180°   | 35096.9 | 100.0     |

**Coefficient of Utilization**

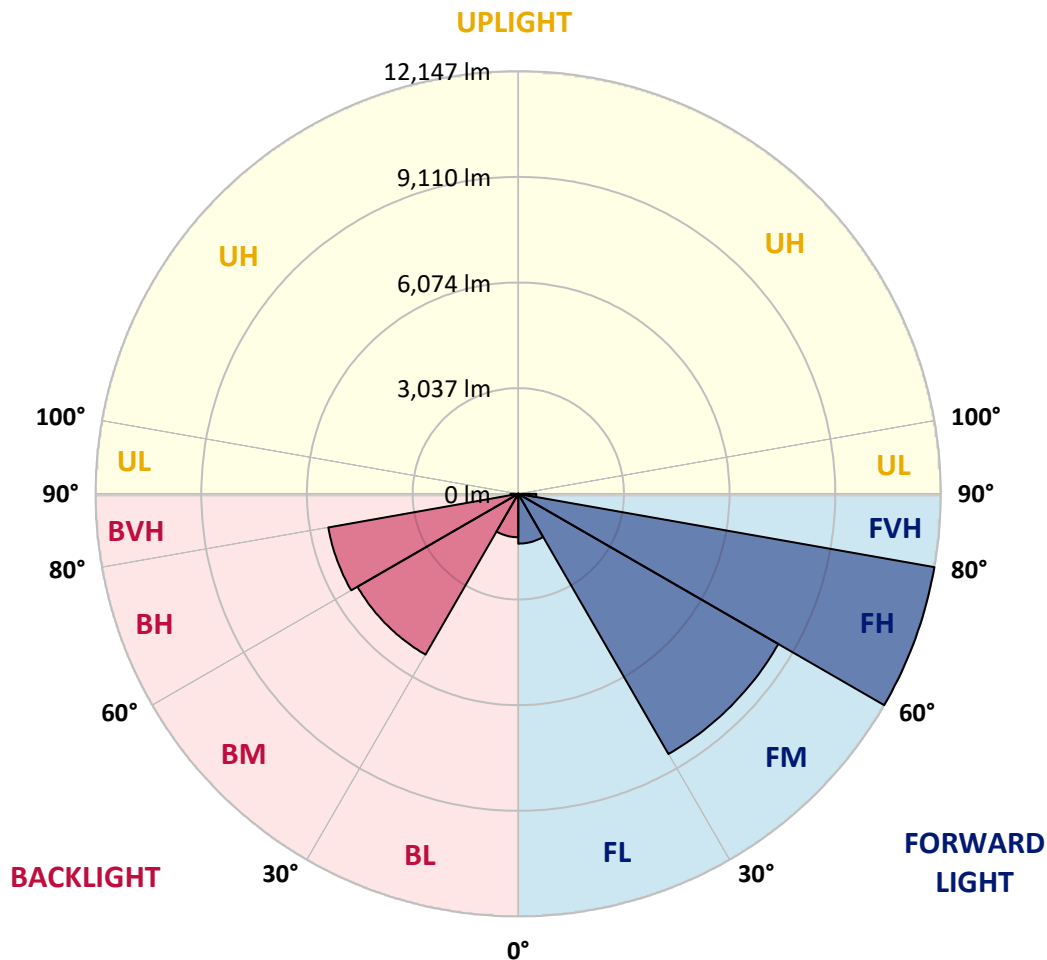


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |       |        |
|----------------|---------|-----------|-------------------------|-------|--------|
|                |         |           | B                       | U     | G      |
| FL (0°-30°)    | 1432.4  | 4.1       |                         |       |        |
| FM (30°-60°)   | 8636.3  | 24.6      |                         |       |        |
| FH (60°-80°)   | 12147.2 | 34.6      |                         |       | G5     |
| FVH (80°-90°)  | 517.9   | 1.5       |                         |       | G4/750 |
| BL (0°-30°)    | 1249.0  | 3.6       | B3/2500                 |       |        |
| BM (30°-60°)   | 5335.4  | 15.2      | B4/8500                 |       |        |
| BH (60°-80°)   | 5544.9  | 15.8      | B5                      |       | G5     |
| BVH (80°-90°)  | 222.4   | 0.6       |                         |       | G2/225 |
| UL (90°-100°)  | 8.9     | 0.0       |                         | U1/10 |        |
| UH (100°-180°) | 2.4     | 0.0       |                         | U1/10 |        |

**BUG Rating: B5-U1-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|        | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°     | 2793.1  | 2793.1  | 2793.1  | 2793.1  | 2793.1  | 2793.1  | 2793.1  | 2793.1  | 2793.1  | 2793.1  | 2793.1  |
| 2.5°   | 2824.8  | 2820.9  | 2818.2  | 2835.4  | 2786.5  | 2806.3  | 2793.1  | 2810.3  | 2806.3  | 2814.3  | 2815.6  |
| 5°     | 2844.6  | 2838.0  | 2828.8  | 2847.3  | 2818.2  | 2831.4  | 2816.9  | 2824.8  | 2799.7  | 2820.9  | 2823.5  |
| 7.5°   | 2889.5  | 2871.0  | 2869.7  | 2875.0  | 2855.2  | 2864.4  | 2839.4  | 2848.6  | 2835.4  | 2827.5  | 2835.4  |
| 10°    | 2956.9  | 2941.0  | 2923.9  | 2934.4  | 2901.4  | 2913.3  | 2886.9  | 2894.8  | 2888.2  | 2871.0  | 2886.9  |
| 12.5°  | 3003.1  | 3008.4  | 2996.5  | 3004.4  | 2975.4  | 2964.8  | 2955.6  | 2954.2  | 2950.3  | 2925.2  | 2921.2  |
| 15°    | 3106.1  | 3108.8  | 3087.6  | 3092.9  | 3086.3  | 3081.0  | 3067.8  | 3057.3  | 3036.1  | 3020.3  | 3009.7  |
| 17.5°  | 3240.8  | 3226.3  | 3206.5  | 3211.8  | 3230.3  | 3206.5  | 3198.6  | 3178.8  | 3148.4  | 3122.0  | 3116.7  |
| 20°    | 3382.1  | 3372.9  | 3354.4  | 3365.0  | 3363.6  | 3347.8  | 3351.8  | 3318.7  | 3275.2  | 3252.7  | 3235.5  |
| 22.5°  | 3539.3  | 3526.1  | 3512.9  | 3532.7  | 3516.8  | 3506.3  | 3502.3  | 3479.9  | 3425.7  | 3400.6  | 3396.7  |
| 25°    | 3696.4  | 3689.8  | 3699.1  | 3692.5  | 3670.0  | 3662.1  | 3667.4  | 3659.5  | 3596.1  | 3565.7  | 3547.2  |
| 27.5°  | 3893.2  | 3877.4  | 3891.9  | 3884.0  | 3860.2  | 3861.5  | 3862.8  | 3864.2  | 3792.8  | 3753.2  | 3726.8  |
| 30°    | 4117.7  | 4112.4  | 4130.9  | 4105.8  | 4083.4  | 4097.9  | 4109.8  | 4083.4  | 4021.3  | 3963.2  | 3954.0  |
| 32.5°  | 4409.6  | 4376.6  | 4397.7  | 4366.0  | 4331.7  | 4366.0  | 4387.1  | 4334.3  | 4284.1  | 4210.2  | 4223.4  |
| 35°    | 4733.1  | 4722.6  | 4722.6  | 4681.6  | 4663.1  | 4717.3  | 4738.4  | 4686.9  | 4609.0  | 4544.3  | 4528.4  |
| 37.5°  | 5076.5  | 5087.1  | 5120.1  | 5102.9  | 5085.7  | 5118.8  | 5166.3  | 5097.6  | 4997.3  | 4928.6  | 4910.1  |
| 40°    | 5532.1  | 5558.5  | 5581.0  | 5558.5  | 5538.7  | 5559.8  | 5614.0  | 5524.2  | 5454.2  | 5417.2  | 5377.6  |
| 42.5°  | 6022.1  | 6067.0  | 6052.4  | 6055.1  | 6072.3  | 6102.6  | 6156.8  | 6074.9  | 5994.3  | 5993.0  | 5934.9  |
| 45°    | 6685.0  | 6685.0  | 6654.6  | 6683.7  | 6681.1  | 6756.3  | 6780.1  | 6735.2  | 6667.9  | 6648.0  | 6597.9  |
| 47.5°  | 7304.4  | 7369.1  | 7357.2  | 7399.5  | 7366.5  | 7429.9  | 7510.4  | 7472.1  | 7394.2  | 7324.2  | 7313.6  |
| 50°    | 8168.1  | 8152.2  | 8136.4  | 8199.8  | 8194.5  | 8238.1  | 8312.0  | 8288.3  | 8180.0  | 8100.7  | 8086.2  |
| 52.5°  | 8927.5  | 9010.7  | 8990.8  | 9085.9  | 9033.1  | 9095.2  | 9183.7  | 9179.7  | 9047.6  | 8969.7  | 8947.3  |
| 55°    | 9886.2  | 9941.7  | 9937.7  | 10035.5 | 9962.8  | 10044.7 | 10118.7 | 10126.6 | 9982.6  | 9871.7  | 9906.0  |
| 57.5°  | 10884.6 | 10930.8 | 10904.4 | 10985.0 | 10913.7 | 11025.9 | 11070.8 | 11041.8 | 10957.3 | 10817.3 | 10868.8 |
| 60°    | 11884.3 | 11924.0 | 11954.3 | 11960.9 | 11920.0 | 11986.0 | 12028.3 | 12053.4 | 11920.0 | 11760.2 | 11822.3 |
| 62.5°  | 12899.9 | 12944.8 | 12918.4 | 12929.0 | 12815.4 | 12905.2 | 12958.0 | 12964.6 | 12811.4 | 12670.1 | 12713.7 |
| 65°    | 13969.6 | 14031.7 | 13936.6 | 13873.2 | 13733.2 | 13731.9 | 13801.9 | 13813.8 | 13705.5 | 13605.1 | 13588.0 |
| 67.5°  | 15294.2 | 15321.9 | 15118.6 | 14905.9 | 14669.5 | 14618.0 | 14666.9 | 14694.6 | 14756.7 | 14754.1 | 14676.1 |
| 68°    | 15443.4 | 15438.2 | 15232.1 | 14978.6 | 14725.0 | 14665.6 | 14689.4 | 14725.0 | 14766.0 | 14773.9 | 14680.1 |
| 70°    | 15104.0 | 15039.3 | 14921.8 | 14602.2 | 14351.3 | 14195.4 | 14112.2 | 14178.3 | 14067.3 | 14068.7 | 13893.0 |
| 72.5°  | 13416.3 | 13408.3 | 13191.8 | 13033.3 | 12810.1 | 12551.3 | 12432.4 | 12431.1 | 12441.6 | 12365.0 | 12184.1 |
| 75°    | 10867.5 | 10878.0 | 10625.8 | 10516.2 | 10447.5 | 10398.6 | 10423.7 | 10501.6 | 10509.6 | 10508.2 | 10444.9 |
| 77.5°  | 7579.1  | 7622.7  | 7555.3  | 7377.0  | 7568.5  | 7732.3  | 8047.9  | 8209.0  | 8157.5  | 8312.0  | 8409.8  |
| 80°    | 3972.5  | 4059.6  | 4062.3  | 4187.7  | 4342.2  | 4491.5  | 4763.5  | 5007.8  | 4828.2  | 4749.0  | 4667.1  |
| 82.5°  | 1044.6  | 1076.3  | 1123.9  | 1051.2  | 1073.7  | 1096.1  | 1307.4  | 1287.6  | 1188.6  | 1241.4  | 1320.6  |
| 85°    | 298.5   | 307.7   | 294.5   | 266.8   | 244.3   | 224.5   | 229.8   | 194.1   | 169.0   | 167.7   | 162.4   |
| 87.5°  | 210.0   | 225.8   | 199.4   | 171.7   | 154.5   | 143.9   | 138.7   | 117.5   | 95.1    | 83.2    | 66.0    |
| 90°    | 97.7    | 96.4    | 83.2    | 64.7    | 56.8    | 54.1    | 54.1    | 42.3    | 23.8    | 14.5    | 13.2    |
| 92.5°  | 40.9    | 42.3    | 34.3    | 27.7    | 23.8    | 18.5    | 14.5    | 9.2     | 5.3     | 2.6     | 1.3     |
| 95°    | 14.5    | 15.8    | 13.2    | 10.6    | 9.2     | 7.9     | 6.6     | 5.3     | 2.6     | 1.3     | 1.3     |
| 97.5°  | 4.0     | 4.0     | 4.0     | 4.0     | 4.0     | 4.0     | 4.0     | 2.6     | 2.6     | 1.3     | 1.3     |
| 100°   | 0.0     | 0.0     | 0.0     | 1.3     | 2.6     | 2.6     | 2.6     | 2.6     | 1.3     | 1.3     | 1.3     |
| 102.5° | 0.0     | 0.0     | 0.0     | 0.0     | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     |
| 105°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     |
| 107.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| 115°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 |
| 120°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 |
| 125°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 |
| 130°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 |
| 135°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| 140°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| 145°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 150°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 155°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 160°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| 180°   | 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):**

|        | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 2793.1  | 2793.1 | 2793.1 | 2793.1 | 2793.1 | 2793.1 | 2793.1 | 2793.1 | 2793.1 | 2793.1 |
| 2.5°   | 2812.9  | 2806.3 | 2803.7 | 2770.7 | 2779.9 | 2760.1 | 2806.3 | 2793.1 | 2790.5 | 2809.0 |
| 5°     | 2819.5  | 2789.2 | 2807.7 | 2786.5 | 2791.8 | 2762.8 | 2799.7 | 2783.9 | 2785.2 | 2794.5 |
| 7.5°   | 2823.5  | 2806.3 | 2824.8 | 2787.8 | 2802.4 | 2791.8 | 2818.2 | 2802.4 | 2818.2 | 2826.1 |
| 10°    | 2863.1  | 2855.2 | 2842.0 | 2831.4 | 2842.0 | 2816.9 | 2849.9 | 2847.3 | 2856.5 | 2880.3 |
| 12.5°  | 2917.3  | 2908.0 | 2894.8 | 2876.3 | 2884.3 | 2875.0 | 2900.1 | 2902.7 | 2919.9 | 2931.8 |
| 15°    | 2997.8  | 2985.9 | 2979.3 | 2960.9 | 2963.5 | 2956.9 | 2971.4 | 2974.1 | 3008.4 | 3004.4 |
| 17.5°  | 3111.4  | 3098.2 | 3103.5 | 3086.3 | 3079.7 | 3063.9 | 3037.4 | 3028.2 | 3069.1 | 3081.0 |
| 20°    | 3235.5  | 3221.0 | 3227.6 | 3213.1 | 3090.3 | 2840.7 | 3008.4 | 3123.3 | 3036.1 | 3029.5 |
| 22.5°  | 3376.8  | 3361.0 | 3366.3 | 3343.8 | 3192.0 | 2724.5 | 2370.5 | 2341.5 | 2674.3 | 2809.0 |
| 25°    | 3532.7  | 3511.6 | 3508.9 | 3479.9 | 2980.7 | 2466.9 | 2427.3 | 2375.8 | 2132.8 | 1940.0 |
| 27.5°  | 3725.5  | 3693.8 | 3678.0 | 3239.5 | 2959.5 | 2563.3 | 2503.9 | 2320.3 | 1967.7 | 1979.6 |
| 30°    | 3934.2  | 3887.9 | 3590.8 | 3301.6 | 3114.0 | 2676.9 | 2597.7 | 2033.8 | 2036.4 | 2031.1 |
| 32.5°  | 4171.9  | 4068.9 | 3518.2 | 3491.7 | 3298.9 | 2798.4 | 2156.6 | 2132.8 | 2135.5 | 2143.4 |
| 35°    | 4483.5  | 3777.0 | 3762.5 | 3763.8 | 3524.8 | 2707.3 | 2284.7 | 2262.2 | 2264.9 | 2270.2 |
| 37.5°  | 4549.6  | 4071.5 | 4074.1 | 4043.8 | 3765.1 | 2473.5 | 2440.5 | 2439.2 | 2433.9 | 2428.6 |
| 40°    | 4602.4  | 4442.6 | 4404.3 | 4355.4 | 3490.4 | 2663.7 | 2653.1 | 2645.2 | 2649.2 | 2659.7 |
| 42.5°  | 5015.7  | 4895.6 | 4858.6 | 4800.5 | 3580.2 | 2951.6 | 2917.3 | 2908.0 | 2918.6 | 2913.3 |
| 45°    | 5565.1  | 5464.8 | 5392.1 | 4438.6 | 3955.3 | 3264.6 | 3236.9 | 3225.0 | 3228.9 | 3262.0 |
| 47.5°  | 6146.2  | 6086.8 | 5864.9 | 4795.2 | 4392.4 | 3634.4 | 3606.6 | 3588.1 | 3594.8 | 3586.8 |
| 50°    | 6778.8  | 6724.6 | 5429.1 | 5332.7 | 4875.8 | 4033.2 | 3992.3 | 3985.7 | 3988.3 | 3987.0 |
| 52.5°  | 7465.5  | 6333.7 | 6016.8 | 5916.4 | 5385.5 | 4450.5 | 4436.0 | 4400.3 | 4408.3 | 4400.3 |
| 55°    | 8271.1  | 6671.8 | 6663.9 | 6546.4 | 5958.7 | 4935.2 | 4918.0 | 4867.8 | 4552.2 | 4828.2 |
| 57.5°  | 9035.7  | 7317.6 | 7317.6 | 7204.0 | 6545.0 | 5417.2 | 5389.5 | 5352.5 | 3235.5 | 2609.6 |
| 60°    | 9873.0  | 7964.7 | 7946.2 | 7852.5 | 7110.3 | 5876.8 | 4776.7 | 4766.1 | 1954.5 | 1961.1 |
| 62.5°  | 10596.7 | 8541.8 | 8574.8 | 8487.7 | 7654.4 | 4400.3 | 2213.4 | 2168.5 | 192.8  | 297.1  |
| 65°    | 11407.6 | 9179.7 | 9219.3 | 9129.5 | 8243.4 | 4667.1 | 2402.2 | 2379.8 | 43.6   | 39.6   |
| 67.5°  | 12326.8 | 9816.2 | 9726.4 | 9627.4 | 8588.0 | 4805.8 | 2496.0 | 2476.2 | 11.9   | 7.9    |
| 68°    | 12334.7 | 9803.0 | 9686.8 | 9619.5 | 8555.0 | 4779.4 | 2488.1 | 2469.6 | 11.9   | 7.9    |
| 70°    | 11700.8 | 9309.1 | 9192.9 | 9210.1 | 8145.6 | 4570.7 | 2385.1 | 2350.7 | 11.9   | 7.9    |
| 72.5°  | 10265.2 | 8284.3 | 8153.6 | 8061.1 | 7223.8 | 4063.6 | 2138.1 | 2073.4 | 11.9   | 7.9    |
| 75°    | 8783.5  | 7020.5 | 6803.9 | 6600.5 | 5812.1 | 3325.3 | 1753.8 | 1681.2 | 11.9   | 7.9    |
| 77.5°  | 6922.7  | 5351.2 | 5043.5 | 4910.1 | 4367.3 | 2456.4 | 1303.5 | 1224.2 | 11.9   | 6.6    |
| 80°    | 3825.9  | 3070.5 | 2809.0 | 2727.1 | 2497.3 | 1443.4 | 747.5  | 699.9  | 10.6   | 6.6    |
| 82.5°  | 989.2   | 742.2  | 647.1  | 624.7  | 586.4  | 342.0  | 182.2  | 173.0  | 9.2    | 5.3    |
| 85°    | 141.3   | 104.3  | 114.9  | 136.0  | 130.7  | 88.5   | 63.4   | 54.1   | 7.9    | 4.0    |
| 87.5°  | 74.0    | 62.1   | 72.6   | 81.9   | 83.2   | 51.5   | 26.4   | 14.5   | 4.0    | 0.0    |
| 90°    | 11.9    | 11.9   | 13.2   | 14.5   | 14.5   | 6.6    | 5.3    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 1.3     | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 1.3     | 1.3    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 1.3     | 1.3    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 1.3     | 1.3    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 1.3     | 1.3    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 1.3     | 1.3    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 1.3     | 2.6    | 1.3    | 1.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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 CATALOG NUMBER: CTN-CA8-330-727-U-T5R-HSS-HM-EX90

**CANDELA DISTRIBUTION (continued):**

|        | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110°   | 1.3 | 1.3  | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 112.5° | 1.3 | 1.3  | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 115°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 117.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 120°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 122.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 125°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 127.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 130°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 132.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 162.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 1.3 | 1.3  | 1.3  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)