

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: P579630

Luminaire Tested: **CTN-CA10-630-727-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-727-U-T5-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63079 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

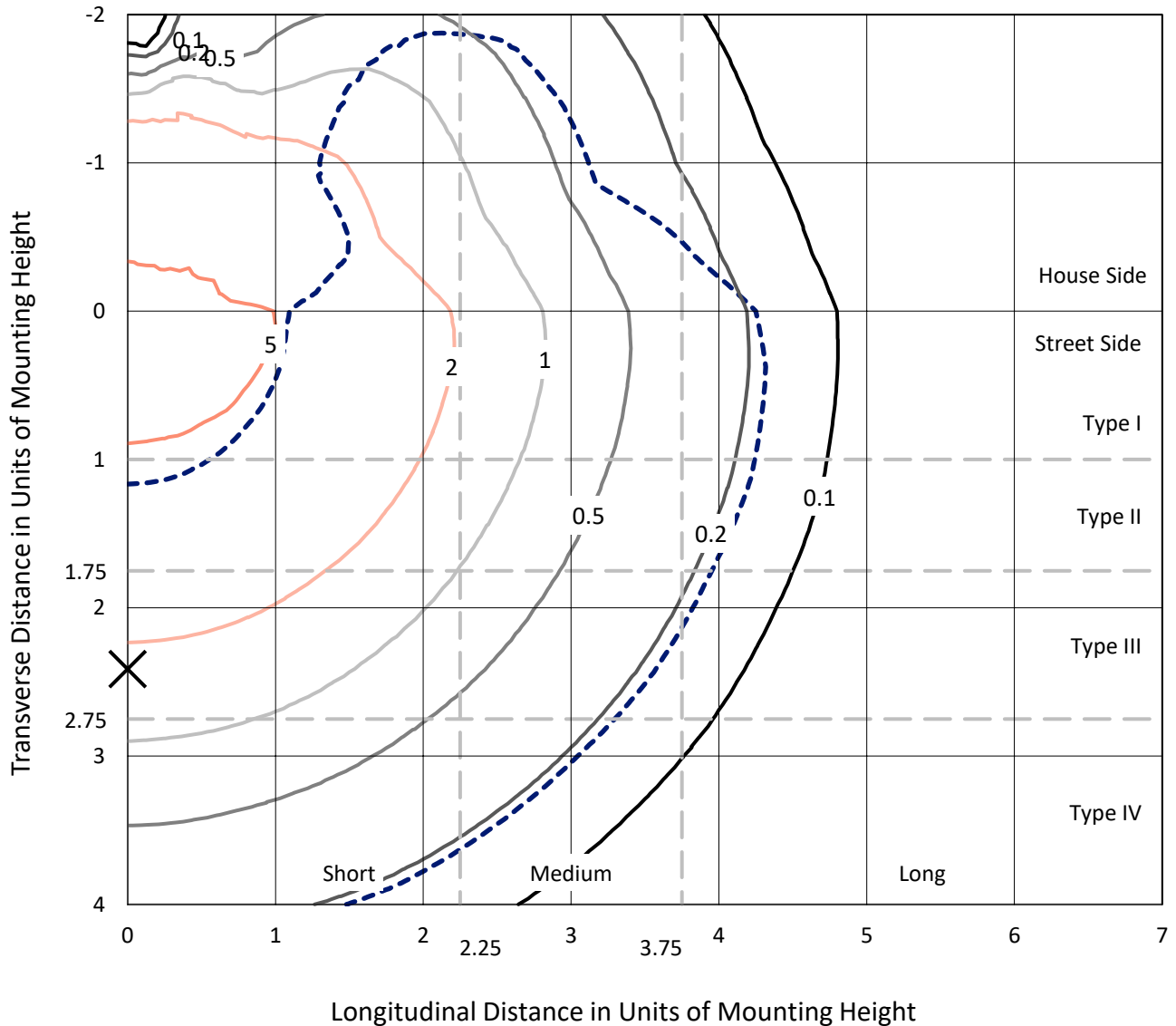
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

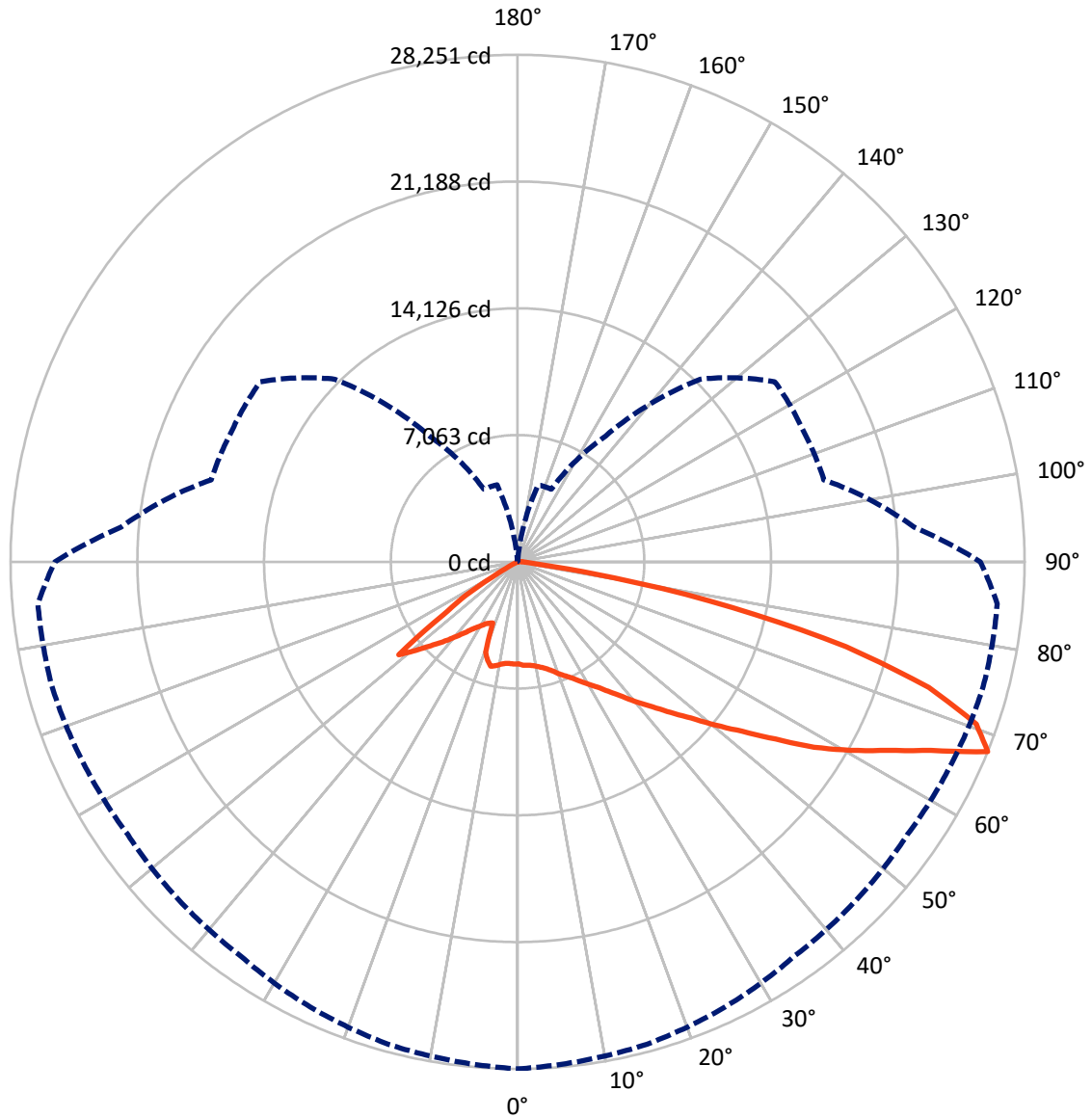
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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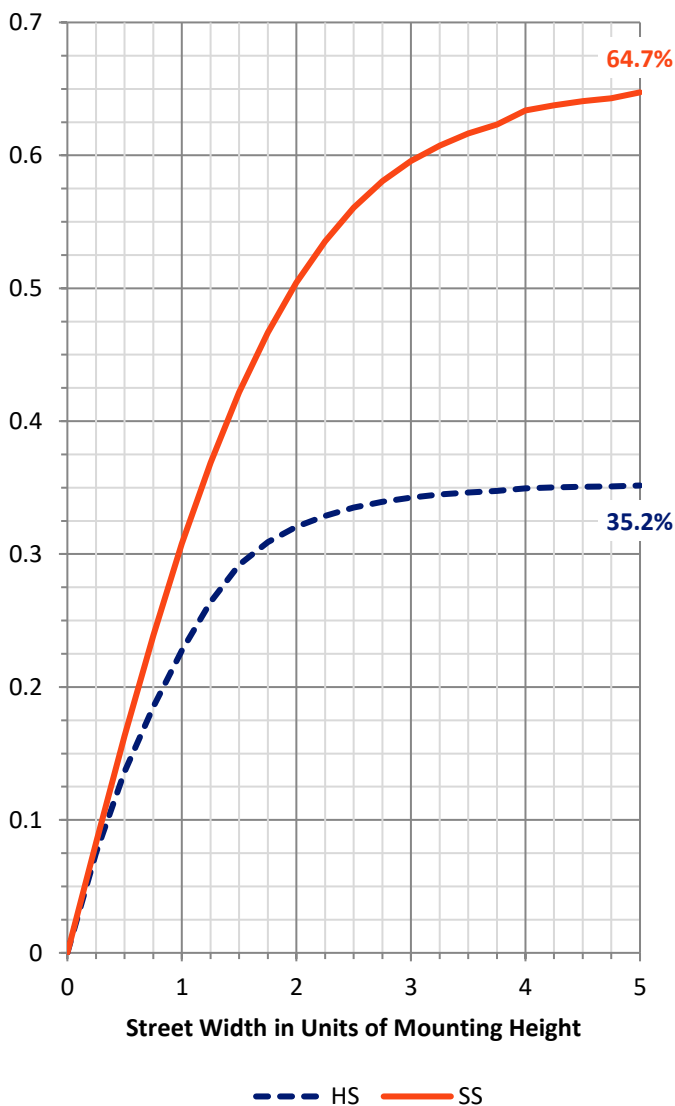
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22203.7 | 1.3 | 22205.0 |
| | % Fixture | 35.2 | 0.0 | 35.2 |
| Street Side | Lumens | 40829.5 | 44.5 | 40874.0 |
| | % Fixture | 64.7 | 0.1 | 64.8 |
| Total | Lumens | 63033.2 | 45.8 | 63079.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 546.8 | 0.9 |
| 10°-20° | 1698.8 | 2.7 |
| 20°-30° | 2945.4 | 4.7 |
| 30°-40° | 4833.0 | 7.7 |
| 40°-50° | 8061.5 | 12.8 |
| 50°-60° | 13046.5 | 20.7 |
| 60°-70° | 18008.3 | 28.5 |
| 70°-80° | 12992.3 | 20.6 |
| 80°-90° | 900.5 | 1.4 |
| 90°-100° | 39.0 | 0.1 |
| 100°-110° | 6.5 | 0.0 |
| 110°-120° | 0.2 | 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° | 63033.2 | 99.9 |
| 0°-180° | 63079.0 | 100.0 |

Coefficient of Utilization

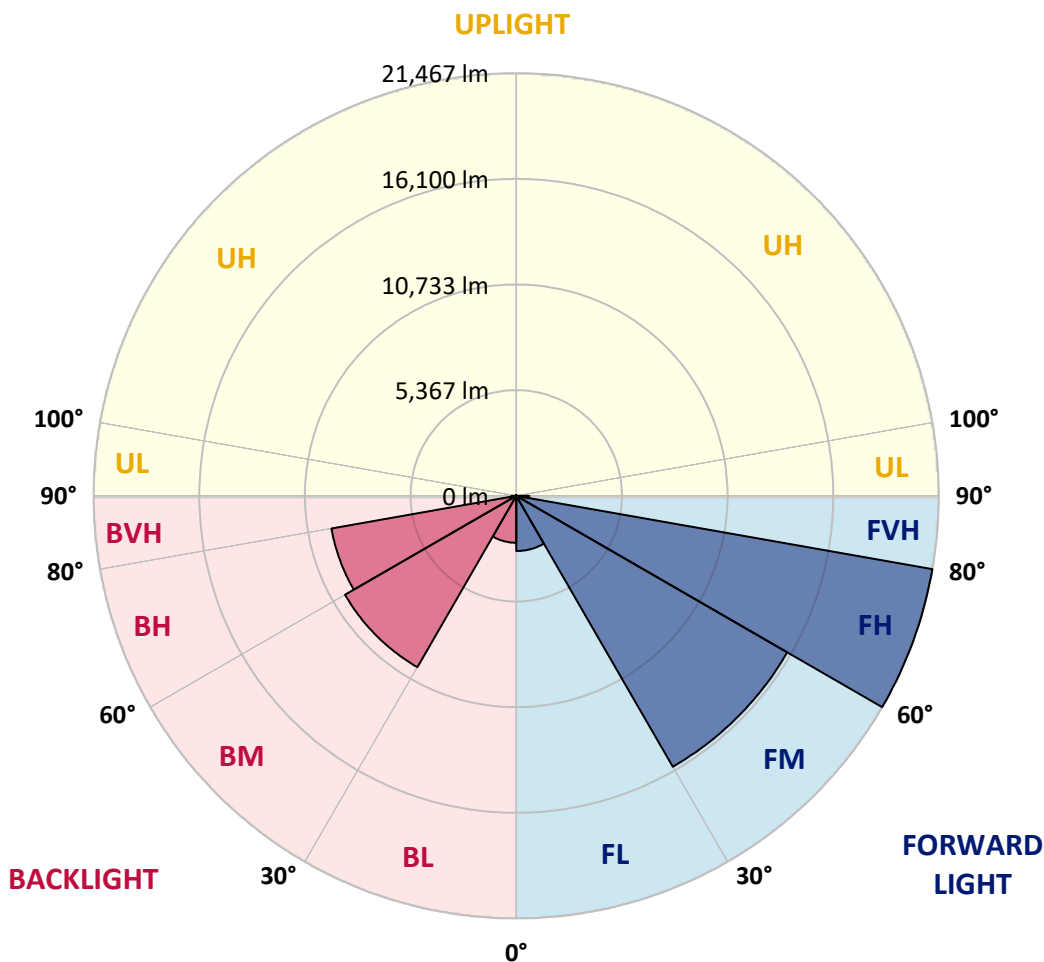


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|-------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2805.0 | 4.4 | | | |
| FM (30°-60°) | 15894.3 | 25.2 | | | |
| FH (60°-80°) | 21466.6 | 34.0 | | | G5 |
| FVH (80°-90°) | 663.5 | 1.1 | | | G4/750 |
| BL (0°-30°) | 2386.1 | 3.8 | B3/2500 | | |
| BM (30°-60°) | 10046.6 | 15.9 | B5 | | |
| BH (60°-80°) | 9534.0 | 15.1 | B5 | | G5 |
| BVH (80°-90°) | 237.0 | 0.4 | | | G3/500 |
| UL (90°-100°) | 39.0 | 0.1 | | U2/50 | |
| UH (100°-180°) | 6.8 | 0.0 | | U1/10 | |

BUG Rating: B5-U2-G5
 Type IV Short





REPORT NUMBER: P579630

CATALOG NUMBER: CTN-CA10-630-727-U-T5-HSS-HM-EX90

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 |
| 2.5° | 5771.5 | 5737.6 | 5740.1 | 5773.9 | 5682.1 | 5715.9 | 5677.3 | 5711.1 | 5694.2 | 5706.3 | 5720.7 |
| 5° | 5788.4 | 5747.3 | 5752.1 | 5793.2 | 5720.7 | 5747.3 | 5701.4 | 5720.7 | 5706.3 | 5720.7 | 5723.2 |
| 7.5° | 5831.8 | 5790.8 | 5793.2 | 5824.6 | 5749.7 | 5769.0 | 5725.6 | 5735.2 | 5711.1 | 5737.6 | 5730.4 |
| 10° | 5923.6 | 5885.0 | 5870.5 | 5897.0 | 5831.8 | 5834.2 | 5783.5 | 5793.2 | 5757.0 | 5793.2 | 5778.7 |
| 12.5° | 6046.7 | 5993.6 | 5998.4 | 6012.9 | 5933.2 | 5938.1 | 5877.7 | 5892.2 | 5831.8 | 5882.5 | 5865.6 |
| 15° | 6196.5 | 6131.3 | 6138.5 | 6162.7 | 6085.4 | 6078.1 | 6022.6 | 6022.6 | 5969.5 | 6008.1 | 5991.2 |
| 17.5° | 6404.1 | 6331.7 | 6326.9 | 6343.8 | 6281.0 | 6281.0 | 6218.2 | 6211.0 | 6157.8 | 6189.2 | 6184.4 |
| 20° | 6674.6 | 6592.5 | 6578.0 | 6609.4 | 6529.7 | 6539.4 | 6459.7 | 6452.4 | 6394.5 | 6413.8 | 6416.2 |
| 22.5° | 6918.5 | 6853.3 | 6850.9 | 6899.2 | 6805.0 | 6817.1 | 6744.6 | 6725.3 | 6677.0 | 6703.6 | 6710.8 |
| 25° | 7198.6 | 7189.0 | 7181.7 | 7198.6 | 7104.4 | 7104.4 | 7053.7 | 7036.8 | 7005.4 | 7024.8 | 7044.1 |
| 27.5° | 7551.2 | 7546.4 | 7527.0 | 7529.5 | 7449.8 | 7461.8 | 7406.3 | 7396.6 | 7382.2 | 7379.7 | 7370.1 |
| 30° | 7940.0 | 7918.2 | 7891.7 | 7908.6 | 7872.4 | 7884.4 | 7836.1 | 7804.7 | 7799.9 | 7802.3 | 7787.8 |
| 32.5° | 8372.2 | 8343.3 | 8326.4 | 8355.3 | 8369.8 | 8403.6 | 8401.2 | 8314.3 | 8314.3 | 8350.5 | 8285.3 |
| 35° | 8908.3 | 8862.4 | 8876.9 | 8915.6 | 8944.5 | 9031.5 | 9017.0 | 8956.6 | 8975.9 | 8992.8 | 8915.6 |
| 37.5° | 9538.6 | 9507.2 | 9572.4 | 9644.9 | 9647.3 | 9770.4 | 9741.4 | 9755.9 | 9753.5 | 9731.8 | 9681.1 |
| 40° | 10294.4 | 10243.7 | 10311.3 | 10366.9 | 10333.1 | 10480.4 | 10475.6 | 10540.8 | 10584.2 | 10659.1 | 10630.1 |
| 42.5° | 11045.5 | 11006.8 | 11072.0 | 11192.8 | 11173.4 | 11342.5 | 11366.6 | 11468.1 | 11528.4 | 11644.3 | 11576.7 |
| 45° | 11970.3 | 11948.6 | 12009.0 | 12103.2 | 12168.4 | 12392.9 | 12482.3 | 12525.7 | 12677.9 | 12817.9 | 12661.0 |
| 47.5° | 13006.3 | 13035.3 | 13025.6 | 13197.1 | 13342.0 | 13614.8 | 13651.1 | 13791.1 | 13923.9 | 14078.5 | 13926.4 |
| 50° | 14295.8 | 14247.5 | 14291.0 | 14455.2 | 14691.9 | 14889.9 | 15075.8 | 15276.2 | 15406.6 | 15566.0 | 15285.9 |
| 52.5° | 15684.4 | 15725.4 | 15822.0 | 16075.6 | 16249.4 | 16483.7 | 16652.7 | 16891.8 | 17019.8 | 17157.4 | 16792.8 |
| 55° | 17435.1 | 17468.9 | 17575.2 | 17836.0 | 17959.1 | 18224.8 | 18340.7 | 18579.7 | 18702.9 | 18763.3 | 18297.2 |
| 57.5° | 19487.7 | 19374.2 | 19461.2 | 19596.4 | 19787.2 | 20074.5 | 20105.9 | 20330.5 | 20330.5 | 20407.8 | 19813.7 |
| 60° | 21320.6 | 21243.3 | 21335.1 | 21528.3 | 21603.1 | 21863.9 | 21837.4 | 22020.9 | 22069.2 | 22011.2 | 21301.3 |
| 62.5° | 23126.9 | 23141.4 | 23259.7 | 23322.5 | 23293.5 | 23448.0 | 23510.8 | 23704.0 | 23624.3 | 23643.6 | 22825.0 |
| 65° | 25319.5 | 25353.4 | 25341.3 | 25225.4 | 24964.6 | 25268.8 | 25251.9 | 25558.6 | 25577.9 | 25751.8 | 24800.4 |
| 67.5° | 28251.2 | 28101.4 | 27828.6 | 27362.5 | 26845.7 | 26667.0 | 26510.1 | 26662.2 | 26857.8 | 26826.4 | 25783.2 |
| 70° | 27111.4 | 26867.5 | 26725.0 | 26319.3 | 25628.6 | 25271.2 | 24945.2 | 24971.8 | 25256.8 | 25283.3 | 24216.0 |
| 72.5° | 23967.2 | 23844.1 | 23295.9 | 22940.9 | 22467.6 | 22192.3 | 21798.7 | 21888.1 | 22259.9 | 22322.7 | 21472.7 |
| 75° | 18905.7 | 18792.2 | 18297.2 | 18181.3 | 17947.1 | 18082.3 | 17985.7 | 18021.9 | 18321.4 | 18046.1 | 17536.5 |
| 77.5° | 12236.0 | 12262.5 | 12185.3 | 12448.5 | 12438.8 | 12446.1 | 12798.6 | 12834.8 | 13127.0 | 12958.0 | 12465.4 |
| 80° | 5486.5 | 5566.2 | 5754.6 | 6136.1 | 5904.3 | 6029.8 | 6165.1 | 6124.0 | 6418.6 | 5752.1 | 5991.2 |
| 82.5° | 1110.8 | 1149.5 | 1084.3 | 1132.6 | 1057.7 | 1096.3 | 1151.9 | 1067.4 | 1057.7 | 980.4 | 910.4 |
| 85° | 572.3 | 579.6 | 577.1 | 565.1 | 497.5 | 458.8 | 441.9 | 371.9 | 335.7 | 328.4 | 304.3 |
| 87.5° | 371.9 | 376.7 | 364.6 | 362.2 | 318.8 | 292.2 | 260.8 | 219.7 | 183.5 | 128.0 | 106.3 |
| 90° | 227.0 | 227.0 | 214.9 | 202.8 | 181.1 | 161.8 | 130.4 | 94.2 | 55.5 | 21.7 | 12.1 |
| 92.5° | 152.1 | 152.1 | 147.3 | 140.1 | 125.6 | 108.7 | 84.5 | 55.5 | 26.6 | 9.7 | 4.8 |
| 95° | 96.6 | 96.6 | 94.2 | 91.8 | 82.1 | 70.0 | 53.1 | 33.8 | 16.9 | 7.2 | 2.4 |
| 97.5° | 62.8 | 62.8 | 62.8 | 60.4 | 55.5 | 48.3 | 36.2 | 21.7 | 12.1 | 4.8 | 2.4 |
| 100° | 38.6 | 41.1 | 38.6 | 38.6 | 36.2 | 31.4 | 24.1 | 14.5 | 9.7 | 4.8 | 2.4 |
| 102.5° | 21.7 | 21.7 | 24.1 | 24.1 | 21.7 | 19.3 | 14.5 | 12.1 | 7.2 | 4.8 | 2.4 |
| 105° | 9.7 | 9.7 | 12.1 | 12.1 | 12.1 | 9.7 | 9.7 | 7.2 | 4.8 | 4.8 | 2.4 |
| 107.5° | 2.4 | 2.4 | 2.4 | 4.8 | 7.2 | 7.2 | 7.2 | 7.2 | 4.8 | 2.4 | 2.4 |
| 110° | 0.0 | 0.0 | 0.0 | 2.4 | 2.4 | 4.8 | 4.8 | 4.8 | 4.8 | 2.4 | 2.4 |



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CANDELA DISTRIBUTION (continued):

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



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CATALOG NUMBER: CTN-CA10-630-727-U-T5-HSS-HM-EX90

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 | 5684.5 |
| 2.5° | 5706.3 | 5677.3 | 5699.0 | 5662.8 | 5653.1 | 5621.7 | 5682.1 | 5691.8 | 5686.9 | 5696.6 |
| 5° | 5711.1 | 5674.9 | 5701.4 | 5665.2 | 5662.8 | 5629.0 | 5691.8 | 5694.2 | 5677.3 | 5684.5 |
| 7.5° | 5725.6 | 5691.8 | 5711.1 | 5670.0 | 5674.9 | 5633.8 | 5706.3 | 5703.8 | 5694.2 | 5711.1 |
| 10° | 5778.7 | 5740.1 | 5747.3 | 5703.8 | 5715.9 | 5672.4 | 5761.8 | 5766.6 | 5757.0 | 5788.4 |
| 12.5° | 5870.5 | 5817.3 | 5834.2 | 5783.5 | 5793.2 | 5749.7 | 5858.4 | 5865.6 | 5865.6 | 5916.3 |
| 15° | 5996.0 | 5940.5 | 5976.7 | 5911.5 | 5913.9 | 5848.7 | 5930.8 | 5930.8 | 5940.5 | 6010.5 |
| 17.5° | 6179.6 | 6111.9 | 6160.2 | 6099.9 | 5723.2 | 5580.7 | 5860.8 | 6032.3 | 5747.3 | 5723.2 |
| 20° | 6406.6 | 6375.2 | 6401.7 | 6302.7 | 5691.8 | 5039.8 | 4532.6 | 4506.1 | 5068.7 | 5348.9 |
| 22.5° | 6684.3 | 6652.9 | 6664.9 | 6539.4 | 5080.8 | 4622.0 | 4614.7 | 4566.5 | 3863.7 | 3670.5 |
| 25° | 7010.3 | 6993.4 | 6966.8 | 5913.9 | 5252.3 | 4812.8 | 4754.8 | 4124.5 | 3721.3 | 3757.5 |
| 27.5° | 7360.4 | 7309.7 | 6413.8 | 6143.3 | 5515.5 | 5003.5 | 4675.1 | 3851.7 | 3837.2 | 3871.0 |
| 30° | 7751.6 | 7483.6 | 6565.9 | 6474.2 | 5822.2 | 5240.2 | 4069.0 | 4020.7 | 4020.7 | 4073.8 |
| 32.5° | 8249.1 | 6988.5 | 6988.5 | 6940.2 | 6201.3 | 4600.3 | 4283.9 | 4254.9 | 4288.7 | 4310.5 |
| 35° | 8174.2 | 7517.4 | 7594.7 | 7572.9 | 6715.7 | 4684.8 | 4629.2 | 4580.9 | 4588.2 | 4588.2 |
| 37.5° | 8198.4 | 8224.9 | 8316.7 | 8222.5 | 5858.4 | 5051.8 | 4962.5 | 4952.8 | 4960.1 | 4977.0 |
| 40° | 8956.6 | 8971.1 | 9004.9 | 8797.2 | 6295.5 | 5479.3 | 5356.1 | 5332.0 | 5356.1 | 5392.3 |
| 42.5° | 9772.8 | 9813.9 | 9852.5 | 8000.3 | 6906.4 | 5964.6 | 5841.5 | 5795.6 | 5839.1 | 5877.7 |
| 45° | 10738.8 | 10801.6 | 10209.9 | 8707.9 | 7597.1 | 6517.6 | 6387.2 | 6331.7 | 6358.3 | 6392.1 |
| 47.5° | 11825.4 | 11924.5 | 9627.9 | 9608.6 | 8408.5 | 7172.1 | 7022.3 | 6916.1 | 6957.1 | 6954.7 |
| 50° | 13052.2 | 11395.6 | 10637.3 | 10625.3 | 9314.0 | 7901.3 | 7746.8 | 7650.2 | 7681.6 | 7657.4 |
| 52.5° | 14377.9 | 11707.1 | 11731.3 | 11728.9 | 10260.6 | 8686.2 | 8543.7 | 8422.9 | 8174.2 | 8403.6 |
| 55° | 15735.1 | 12784.1 | 12875.9 | 12861.4 | 11253.1 | 9497.5 | 9345.4 | 9231.9 | 6032.3 | 5095.3 |
| 57.5° | 17085.0 | 13909.4 | 13938.4 | 13972.2 | 12281.8 | 10280.0 | 9611.0 | 8828.6 | 3441.1 | 3424.2 |
| 60° | 18417.9 | 14981.6 | 15039.6 | 15058.9 | 12837.3 | 8509.9 | 3928.9 | 4001.4 | 1040.8 | 1243.6 |
| 62.5° | 19799.2 | 16039.3 | 16092.5 | 16075.6 | 13390.3 | 7913.4 | 4127.0 | 4044.8 | 96.6 | 89.3 |
| 65° | 21562.1 | 17365.1 | 17290.2 | 17234.7 | 14262.0 | 8444.7 | 4433.6 | 4411.9 | 31.4 | 21.7 |
| 67.5° | 22180.3 | 17666.9 | 17514.8 | 17495.5 | 14387.6 | 8558.2 | 4457.8 | 4440.9 | 31.4 | 21.7 |
| 70° | 20779.7 | 16519.9 | 16259.1 | 16266.3 | 13387.8 | 8005.2 | 4158.3 | 4134.2 | 29.0 | 21.7 |
| 72.5° | 18198.2 | 14590.4 | 14481.8 | 13907.0 | 11593.6 | 7041.7 | 3687.5 | 3595.7 | 29.0 | 19.3 |
| 75° | 14940.6 | 11786.8 | 11545.3 | 10900.6 | 9227.1 | 5597.6 | 2895.4 | 2777.1 | 26.6 | 16.9 |
| 77.5° | 10371.7 | 8266.0 | 7804.7 | 7147.9 | 6172.3 | 3711.6 | 1946.4 | 1794.2 | 24.1 | 16.9 |
| 80° | 4701.7 | 3392.8 | 3409.7 | 2612.9 | 2093.7 | 1258.1 | 618.2 | 560.2 | 21.7 | 14.5 |
| 82.5° | 818.6 | 603.7 | 567.5 | 548.2 | 456.4 | 309.1 | 188.4 | 161.8 | 19.3 | 9.7 |
| 85° | 285.0 | 229.4 | 253.6 | 299.4 | 265.6 | 185.9 | 115.9 | 111.1 | 12.1 | 4.8 |
| 87.5° | 96.6 | 101.4 | 118.3 | 142.5 | 125.6 | 72.4 | 43.5 | 31.4 | 2.4 | 0.0 |
| 90° | 9.7 | 12.1 | 12.1 | 12.1 | 7.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 2.4 | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 2.4 | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 2.4 | 2.4 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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