

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: P579437

Luminaire Tested: **CTN-CA10-630-730-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-730-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55871 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

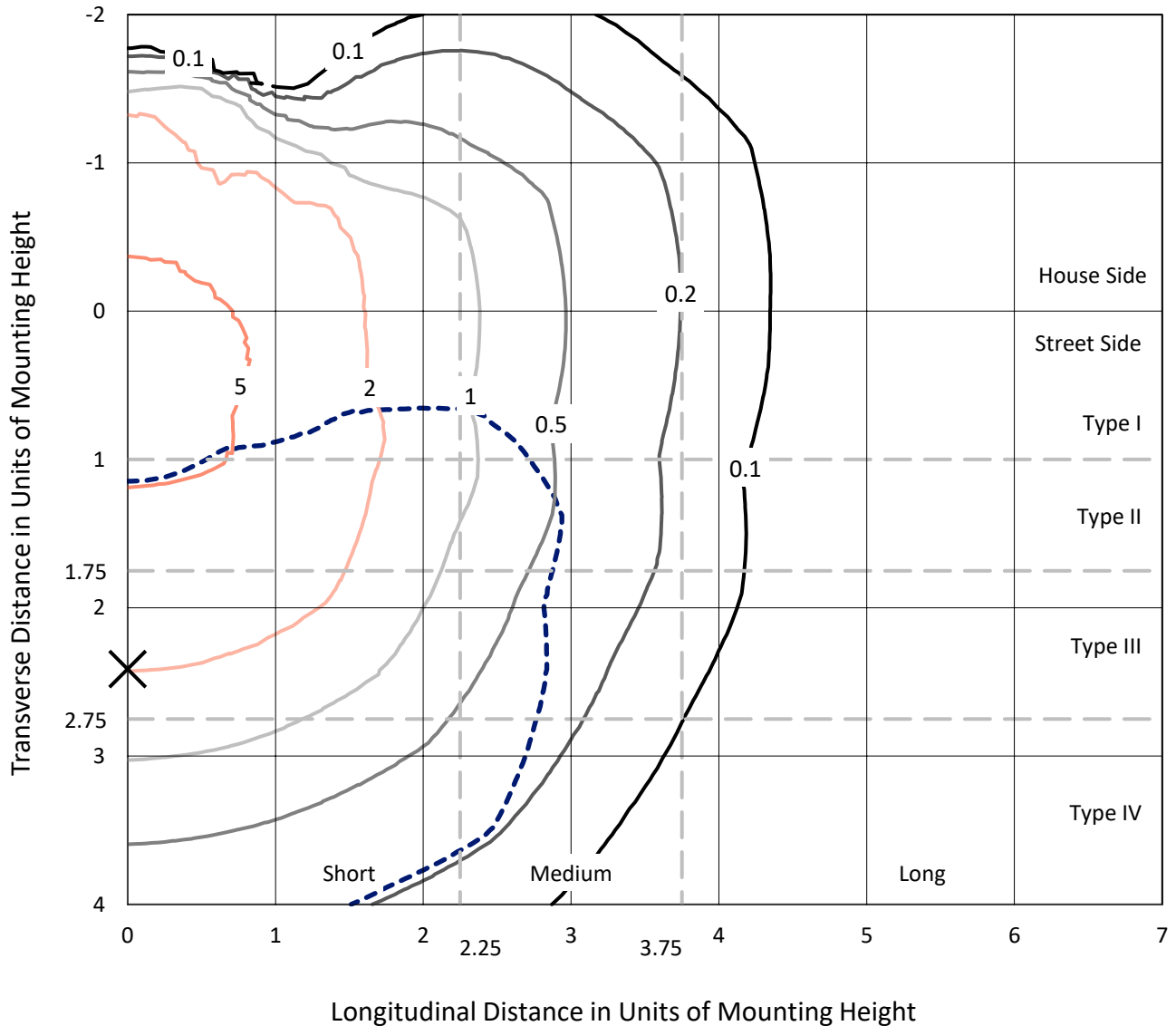
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

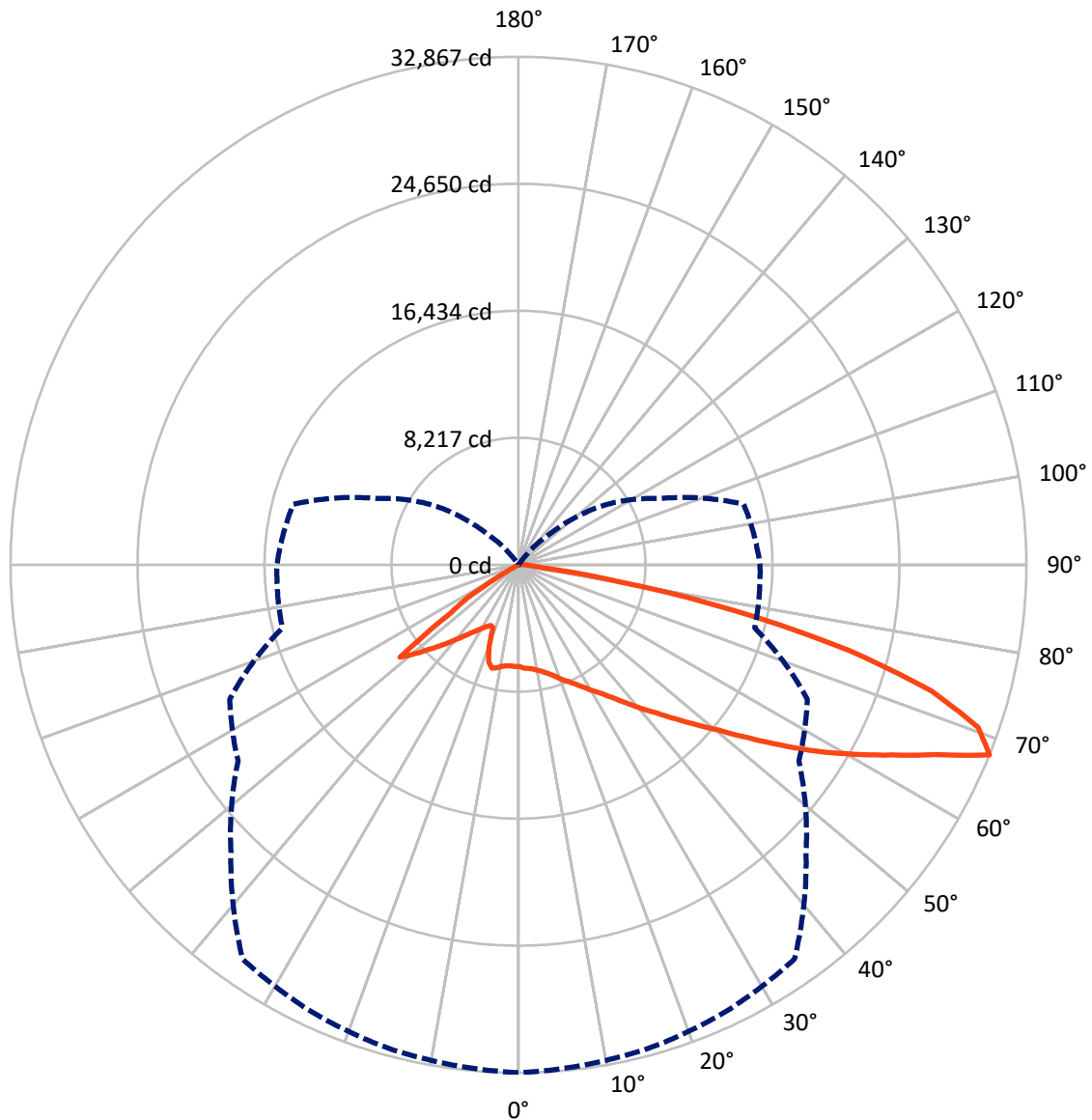
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 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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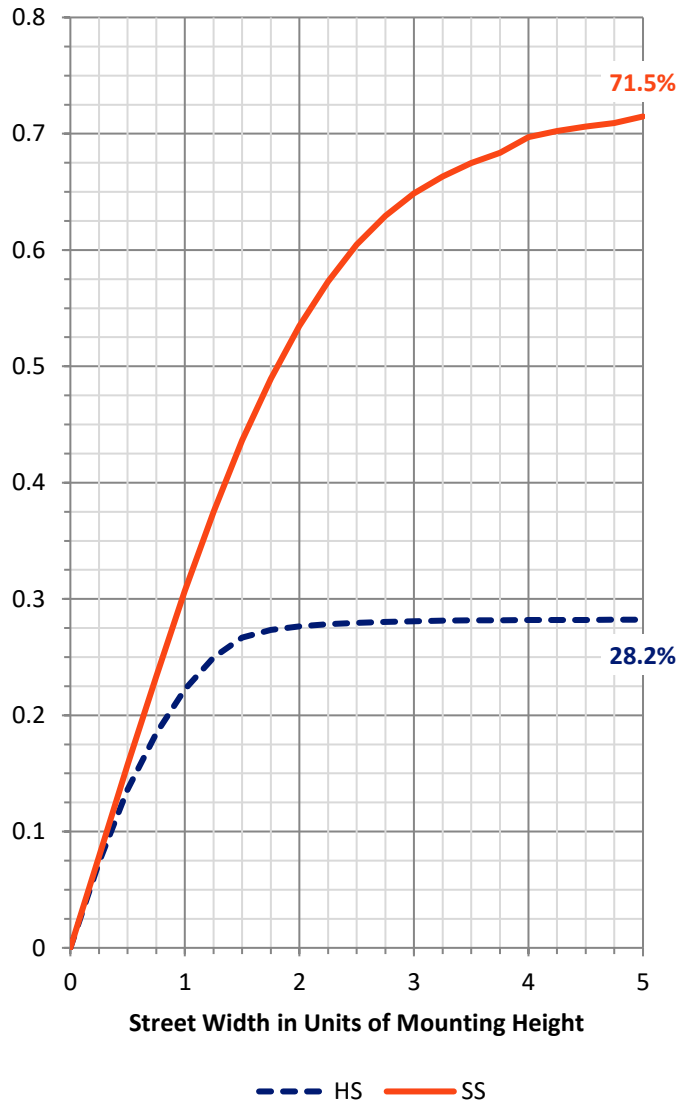
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15834.9 | 0.2 | 15835.1 |
| | % Fixture | 28.3 | 0.0 | 28.3 |
| Street Side | Lumens | 39964.7 | 71.1 | 40035.9 |
| | % Fixture | 71.5 | 0.1 | 71.7 |
| Total | Lumens | 55799.6 | 71.4 | 55871.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 634.6 | 1.1 |
| 10°-20° | 1953.5 | 3.5 |
| 20°-30° | 3234.7 | 5.8 |
| 30°-40° | 5092.0 | 9.1 |
| 40°-50° | 7969.0 | 14.3 |
| 50°-60° | 11505.9 | 20.6 |
| 60°-70° | 14253.8 | 25.5 |
| 70°-80° | 10380.7 | 18.6 |
| 80°-90° | 775.5 | 1.4 |
| 90°-100° | 60.9 | 0.1 |
| 100°-110° | 10.2 | 0.0 |
| 110°-120° | 0.3 | 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° | 55799.6 | 99.9 |
| 0°-180° | 55871.0 | 100.0 |

Coefficient of Utilization

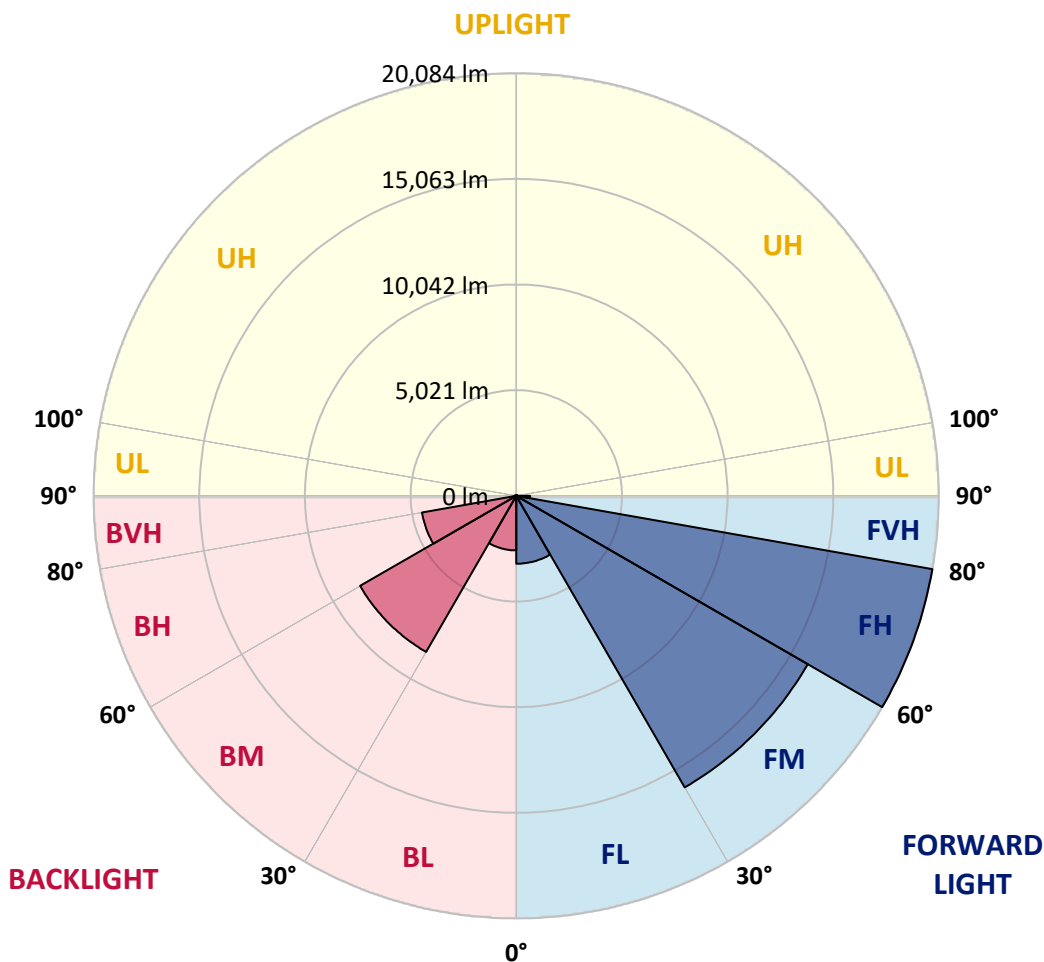


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|--------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3227.0 | 5.8 | | | |
| FM (30°-60°) | 15999.8 | 28.6 | | | |
| FH (60°-80°) | 20083.8 | 35.9 | | | G5 |
| FVH (80°-90°) | 654.1 | 1.2 | | | G4/750 |
| BL (0°-30°) | 2595.8 | 4.6 | B4/5000 | | |
| BM (30°-60°) | 8567.0 | 15.3 | B5 | | |
| BH (60°-80°) | 4550.7 | 8.1 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 121.4 | 0.2 | | | G2/225 |
| UL (90°-100°) | 60.9 | 0.1 | | U3/500 | |
| UH (100°-180°) | 10.5 | 0.0 | | U2/50 | |

BUG Rating: B5-U3-G5
 Type IV Short





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CATALOG NUMBER: CTN-CA10-630-730-U-T5-HSS-HM-EX180

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 |
| 2.5° | 6700.6 | 6664.2 | 6664.2 | 6703.4 | 6594.2 | 6627.8 | 6583.0 | 6622.2 | 6599.8 | 6611.0 | 6625.0 |
| 5° | 6739.8 | 6697.8 | 6700.6 | 6748.2 | 6650.2 | 6678.2 | 6625.0 | 6644.6 | 6625.0 | 6633.4 | 6633.4 |
| 7.5° | 6812.6 | 6776.2 | 6776.2 | 6804.2 | 6706.2 | 6714.6 | 6667.0 | 6667.0 | 6641.8 | 6661.4 | 6644.6 |
| 10° | 6949.8 | 6910.6 | 6891.0 | 6905.0 | 6818.2 | 6807.0 | 6742.6 | 6742.6 | 6703.4 | 6734.2 | 6709.0 |
| 12.5° | 7115.0 | 7059.0 | 7053.4 | 7056.2 | 6958.2 | 6938.6 | 6865.8 | 6868.6 | 6795.8 | 6837.8 | 6807.0 |
| 15° | 7313.8 | 7243.8 | 7238.2 | 7249.4 | 7145.8 | 7109.4 | 7028.2 | 7028.2 | 6947.0 | 6969.4 | 6927.4 |
| 17.5° | 7568.6 | 7487.4 | 7473.4 | 7493.0 | 7389.4 | 7355.8 | 7260.6 | 7243.8 | 7154.2 | 7137.4 | 7101.0 |
| 20° | 7904.6 | 7812.2 | 7784.2 | 7826.2 | 7694.6 | 7663.8 | 7549.0 | 7512.6 | 7392.2 | 7193.4 | 6933.0 |
| 22.5° | 8207.0 | 8134.2 | 8117.4 | 8145.4 | 8025.0 | 7994.2 | 7882.2 | 7806.6 | 7515.4 | 7115.0 | 6874.2 |
| 25° | 8551.4 | 8523.4 | 8515.0 | 8498.2 | 8389.0 | 8335.8 | 8229.4 | 8123.0 | 7462.2 | 6913.4 | 6907.8 |
| 27.5° | 8977.0 | 8963.0 | 8923.8 | 8909.8 | 8789.4 | 8755.8 | 8615.8 | 7929.8 | 7271.8 | 7232.6 | 7210.2 |
| 30° | 9441.8 | 9413.8 | 9374.6 | 9377.4 | 9296.2 | 9234.6 | 8901.4 | 7759.0 | 7638.6 | 7638.6 | 7579.8 |
| 32.5° | 9957.1 | 9926.2 | 9887.0 | 9895.4 | 9861.8 | 9808.6 | 8806.2 | 8209.8 | 8117.4 | 8142.6 | 8069.8 |
| 35° | 10595.5 | 10545.1 | 10531.1 | 10564.7 | 10567.5 | 10223.1 | 8974.2 | 8823.0 | 8750.2 | 8733.4 | 8459.0 |
| 37.5° | 11340.3 | 11298.3 | 11348.7 | 11427.1 | 11337.5 | 10329.5 | 9643.4 | 9595.8 | 9523.0 | 9117.0 | 8467.4 |
| 40° | 12233.5 | 12157.9 | 12219.5 | 12269.9 | 12211.1 | 10962.3 | 10346.3 | 10363.1 | 10298.7 | 9094.6 | 8375.0 |
| 42.5° | 13118.3 | 13045.5 | 13098.7 | 13224.7 | 13202.3 | 11746.3 | 11203.1 | 11239.5 | 10589.9 | 9147.8 | 9091.8 |
| 45° | 14213.2 | 14188.0 | 14171.2 | 14274.8 | 14361.6 | 12684.3 | 12219.5 | 12216.7 | 10382.7 | 9993.5 | 9943.1 |
| 47.5° | 15453.6 | 15420.0 | 15428.4 | 15560.0 | 15691.6 | 13804.3 | 13420.7 | 12295.1 | 10917.5 | 10956.7 | 10911.9 |
| 50° | 16836.8 | 16800.4 | 16909.6 | 17100.0 | 17167.2 | 15061.6 | 14591.2 | 12082.3 | 12031.9 | 12073.9 | 11998.3 |
| 52.5° | 18592.5 | 18511.3 | 18679.3 | 18883.7 | 18970.5 | 16548.4 | 14655.6 | 13339.5 | 13255.5 | 13263.9 | 13023.1 |
| 55° | 20588.9 | 20524.5 | 20675.7 | 20905.3 | 21034.1 | 18208.9 | 15994.0 | 14563.2 | 14512.8 | 13084.7 | 11782.7 |
| 57.5° | 22759.0 | 22686.2 | 22887.8 | 22955.0 | 22988.6 | 19925.3 | 17340.8 | 15890.4 | 13557.9 | 11947.9 | 11875.1 |
| 60° | 24887.0 | 24808.6 | 25063.4 | 25074.6 | 25172.6 | 21638.9 | 18620.5 | 17170.0 | 13062.3 | 12849.5 | 12787.9 |
| 62.5° | 27121.5 | 27023.5 | 27247.5 | 27239.1 | 27045.9 | 23207.0 | 19888.9 | 18399.3 | 13947.2 | 13779.1 | 13683.9 |
| 65° | 29602.3 | 29529.5 | 29686.3 | 29434.3 | 29050.7 | 24828.2 | 21204.9 | 19737.7 | 14977.6 | 14946.8 | 14924.4 |
| 67.5° | 32867.2 | 32724.4 | 32408.0 | 31870.4 | 31136.8 | 26315.1 | 22145.8 | 20619.7 | 15814.8 | 15672.0 | 15627.2 |
| 70° | 31554.0 | 31386.0 | 31145.2 | 30554.4 | 29806.7 | 24917.8 | 20633.7 | 19286.9 | 14787.2 | 14792.8 | 14686.4 |
| 72.5° | 27939.1 | 27647.9 | 27421.1 | 26592.3 | 26180.7 | 21762.1 | 17979.3 | 16738.8 | 12790.7 | 13028.7 | 12978.3 |
| 75° | 22039.4 | 21742.5 | 21370.1 | 21045.3 | 21000.5 | 17651.6 | 14496.0 | 13602.7 | 10197.9 | 10371.5 | 10497.5 |
| 77.5° | 14286.0 | 14176.8 | 14647.2 | 14339.2 | 14616.4 | 12155.1 | 10354.7 | 9587.4 | 7028.2 | 7467.8 | 7409.0 |
| 80° | 6538.2 | 6412.2 | 7168.2 | 6955.4 | 7059.0 | 5969.8 | 5059.7 | 4860.9 | 3180.9 | 3203.3 | 3270.5 |
| 82.5° | 1478.4 | 1428.0 | 1481.2 | 1360.8 | 1327.2 | 1122.8 | 988.4 | 896.0 | 562.8 | 596.4 | 627.2 |
| 85° | 809.2 | 809.2 | 798.0 | 742.0 | 635.6 | 523.6 | 414.4 | 319.2 | 173.6 | 190.4 | 187.6 |
| 87.5° | 568.4 | 554.4 | 551.6 | 492.8 | 422.8 | 358.4 | 285.6 | 204.4 | 98.0 | 67.2 | 61.6 |
| 90° | 389.2 | 383.6 | 364.0 | 327.6 | 282.8 | 232.4 | 173.6 | 100.8 | 42.0 | 19.6 | 14.0 |
| 92.5° | 282.8 | 277.2 | 263.2 | 232.4 | 193.2 | 156.8 | 114.8 | 67.2 | 33.6 | 14.0 | 2.8 |
| 95° | 187.6 | 184.8 | 176.4 | 151.2 | 126.0 | 100.8 | 72.8 | 42.0 | 28.0 | 11.2 | 2.8 |
| 97.5° | 128.8 | 126.0 | 117.6 | 100.8 | 81.2 | 64.4 | 44.8 | 30.8 | 22.4 | 8.4 | 2.8 |
| 100° | 86.8 | 84.0 | 78.4 | 64.4 | 50.4 | 39.2 | 28.0 | 22.4 | 16.8 | 8.4 | 2.8 |
| 102.5° | 56.0 | 53.2 | 47.6 | 39.2 | 28.0 | 22.4 | 19.6 | 16.8 | 11.2 | 5.6 | 2.8 |
| 105° | 33.6 | 30.8 | 25.2 | 19.6 | 16.8 | 14.0 | 14.0 | 11.2 | 8.4 | 2.8 | 2.8 |
| 107.5° | 16.8 | 14.0 | 11.2 | 11.2 | 11.2 | 8.4 | 8.4 | 8.4 | 5.6 | 2.8 | 0.0 |
| 110° | 2.8 | 2.8 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 2.8 | 0.0 |



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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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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 | 6580.2 |
| 2.5° | 6611.0 | 6566.2 | 6591.4 | 6552.2 | 6543.8 | 6501.8 | 6569.0 | 6577.4 | 6571.8 | 6583.0 |
| 5° | 6619.4 | 6571.8 | 6599.8 | 6552.2 | 6552.2 | 6507.4 | 6571.8 | 6571.8 | 6555.0 | 6560.6 |
| 7.5° | 6641.8 | 6594.2 | 6613.8 | 6560.6 | 6563.4 | 6510.2 | 6588.6 | 6580.2 | 6566.2 | 6585.8 |
| 10° | 6706.2 | 6653.0 | 6650.2 | 6599.8 | 6611.0 | 6555.0 | 6653.0 | 6653.0 | 6639.0 | 6675.4 |
| 12.5° | 6809.8 | 6731.4 | 6717.4 | 6655.8 | 6678.2 | 6630.6 | 6751.0 | 6756.6 | 6759.4 | 6818.2 |
| 15° | 6919.0 | 6823.8 | 6837.8 | 6765.0 | 6756.6 | 6731.4 | 6840.6 | 6835.0 | 6832.2 | 6913.4 |
| 17.5° | 7073.0 | 6625.0 | 6552.2 | 6501.8 | 6490.6 | 6429.0 | 6529.8 | 6723.0 | 6622.2 | 6566.2 |
| 20° | 6829.4 | 6594.2 | 6305.8 | 6207.8 | 6188.2 | 5653.3 | 5230.5 | 5420.9 | 5678.5 | 5700.9 |
| 22.5° | 6608.2 | 6524.2 | 6501.8 | 6347.8 | 5493.7 | 5314.5 | 5331.3 | 5261.3 | 4650.9 | 4384.9 |
| 25° | 6882.6 | 6809.8 | 6714.6 | 5773.7 | 5572.1 | 5507.7 | 5488.1 | 4771.3 | 4289.7 | 4320.5 |
| 27.5° | 7187.8 | 7106.6 | 6277.8 | 5787.7 | 5832.5 | 5742.9 | 5300.5 | 4452.1 | 4424.1 | 4477.3 |
| 30° | 7568.6 | 6919.0 | 6126.6 | 6098.6 | 6140.6 | 6025.8 | 4709.7 | 4648.1 | 4639.7 | 4695.7 |
| 32.5° | 8002.6 | 6672.6 | 6529.8 | 6529.8 | 6510.2 | 5269.7 | 4961.7 | 4919.7 | 4942.1 | 5000.9 |
| 35° | 7840.2 | 7059.0 | 7042.2 | 7112.2 | 6641.8 | 5406.9 | 5364.9 | 5292.1 | 5308.9 | 5328.5 |
| 37.5° | 7661.0 | 7694.6 | 7703.0 | 7666.6 | 4844.1 | 5798.9 | 5765.3 | 5751.3 | 5734.5 | 5740.1 |
| 40° | 8327.4 | 8349.8 | 8341.4 | 8008.2 | 5227.7 | 5874.5 | 6219.0 | 6193.8 | 6191.0 | 6224.6 |
| 42.5° | 9105.8 | 9167.4 | 9119.8 | 7064.6 | 5740.1 | 4939.3 | 6742.6 | 6728.6 | 6723.0 | 6793.0 |
| 45° | 9982.3 | 10041.1 | 9041.4 | 7565.8 | 6286.2 | 5112.9 | 6779.0 | 7299.8 | 7341.8 | 7403.4 |
| 47.5° | 10931.5 | 10920.3 | 8344.2 | 8335.8 | 6927.4 | 5594.5 | 5636.5 | 7983.0 | 8053.0 | 8075.4 |
| 50° | 12023.5 | 10228.7 | 9136.6 | 8828.6 | 7652.6 | 6135.0 | 5975.4 | 7325.0 | 8870.6 | 8893.0 |
| 52.5° | 11791.1 | 10119.5 | 10046.7 | 7745.0 | 8302.2 | 6731.4 | 6574.6 | 6532.6 | 9195.4 | 9735.8 |
| 55° | 10990.3 | 11074.3 | 10970.7 | 8498.2 | 6087.4 | 7263.4 | 7165.4 | 7123.4 | 6840.6 | 5415.3 |
| 57.5° | 11880.7 | 11905.9 | 11816.3 | 9189.8 | 6191.0 | 4527.7 | 7053.4 | 6051.0 | 3931.3 | 3911.7 |
| 60° | 12804.7 | 12846.7 | 8800.6 | 6751.0 | 3967.7 | 1514.8 | 361.2 | 380.8 | 1086.4 | 954.8 |
| 62.5° | 13686.7 | 13728.7 | 9315.8 | 6168.6 | 2506.1 | 112.0 | 72.8 | 50.4 | 56.0 | 56.0 |
| 65° | 14837.6 | 14854.4 | 9971.1 | 6529.8 | 2604.1 | 28.0 | 8.4 | 0.0 | 0.0 | 0.0 |
| 67.5° | 15434.0 | 15089.6 | 10136.3 | 6695.0 | 2674.1 | 16.8 | 5.6 | 0.0 | 0.0 | 0.0 |
| 70° | 14532.4 | 14162.8 | 9436.2 | 6275.0 | 2492.1 | 14.0 | 2.8 | 0.0 | 0.0 | 0.0 |
| 72.5° | 12804.7 | 12625.5 | 8470.2 | 5563.7 | 2206.5 | 8.4 | 2.8 | 0.0 | 0.0 | 0.0 |
| 75° | 10612.3 | 10374.3 | 7022.6 | 4636.9 | 1825.6 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 7549.0 | 7577.0 | 4894.5 | 3379.7 | 1243.2 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3304.1 | 3379.7 | 2144.9 | 1551.2 | 439.6 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 630.0 | 579.6 | 280.0 | 221.2 | 56.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 207.2 | 226.8 | 103.6 | 84.0 | 25.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 72.8 | 92.4 | 30.8 | 25.2 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 11.2 | 11.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 110° | 0.0 | 0.0 | 0.0 | 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 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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