

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: P510628

Luminaire Tested: **CTN-CA10-760-760-U-T3-HSS**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-760-U-T3-HSS
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 99031 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

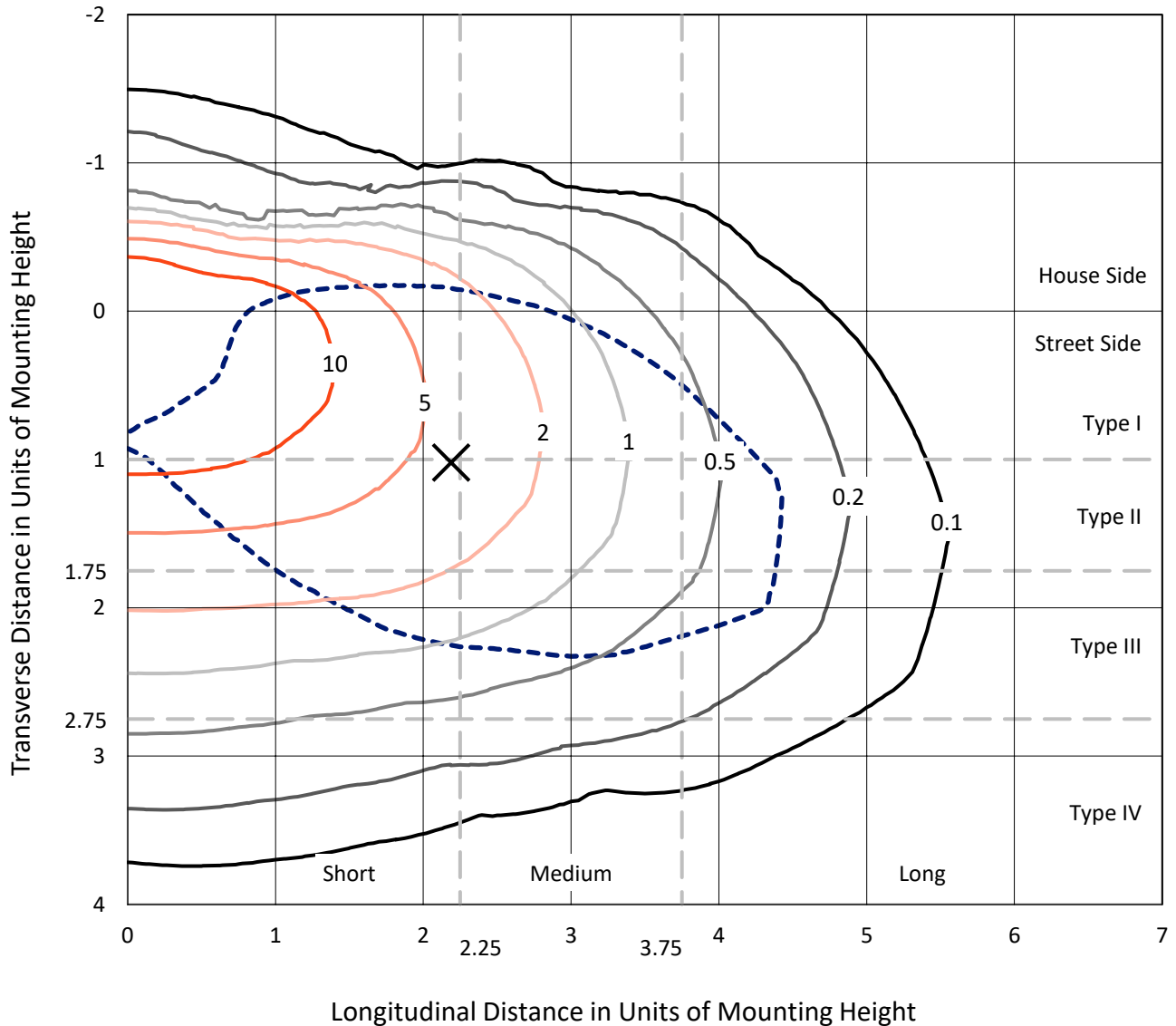
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

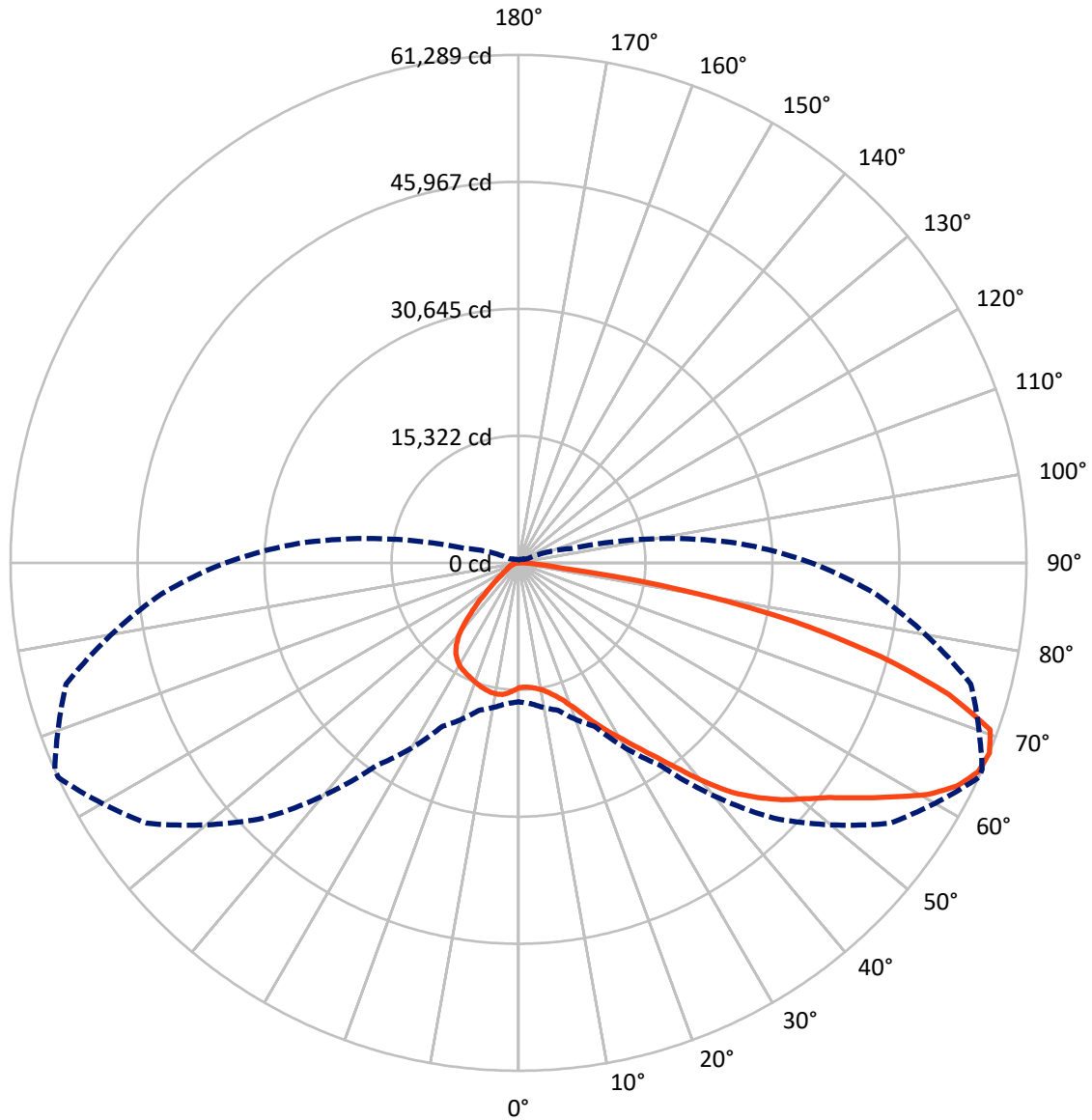
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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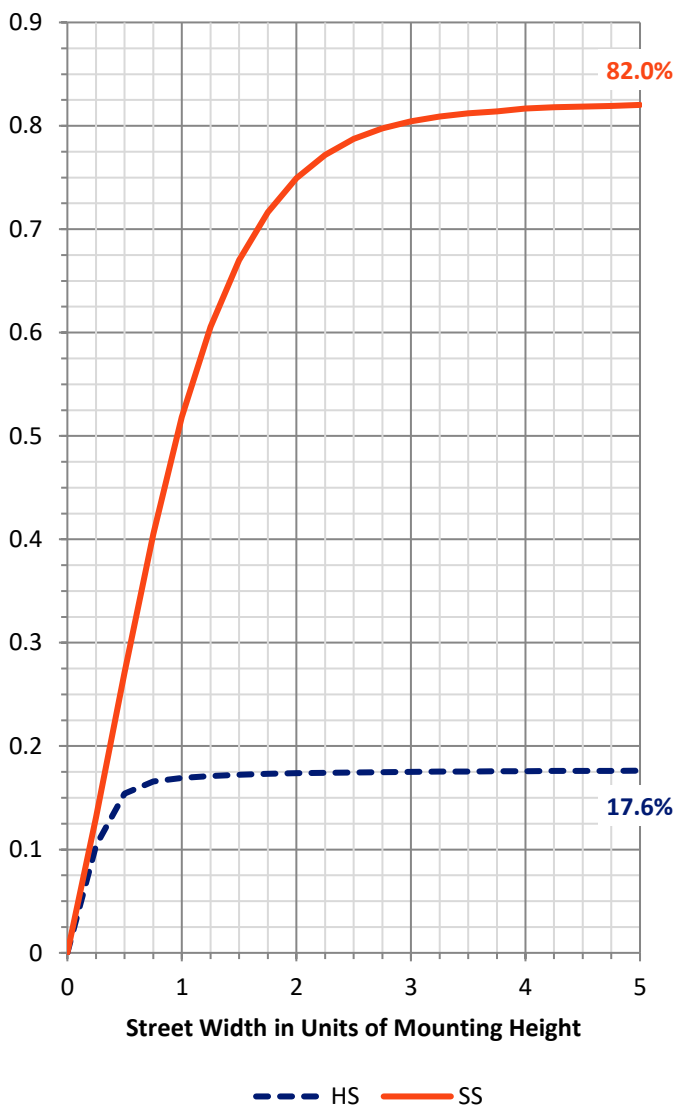
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17699.3 | 0.0 | 17699.3 |
| | % Fixture | 17.9 | 0.0 | 17.9 |
| Street Side | Lumens | 81331.7 | 0.0 | 81331.7 |
| | % Fixture | 82.1 | 0.0 | 82.1 |
| Total | Lumens | 99031.0 | 0.0 | 99031.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1488.8 | 1.5 |
| 10°-20° | 4596.4 | 4.6 |
| 20°-30° | 7973.9 | 8.1 |
| 30°-40° | 12028.5 | 12.1 |
| 40°-50° | 16678.3 | 16.8 |
| 50°-60° | 20587.2 | 20.8 |
| 60°-70° | 21935.3 | 22.1 |
| 70°-80° | 12551.7 | 12.7 |
| 80°-90° | 1190.9 | 1.2 |
| 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° | 99031.0 | 100.0 |
| 0°-180° | 99031.0 | 100.0 |

Coefficient of Utilization



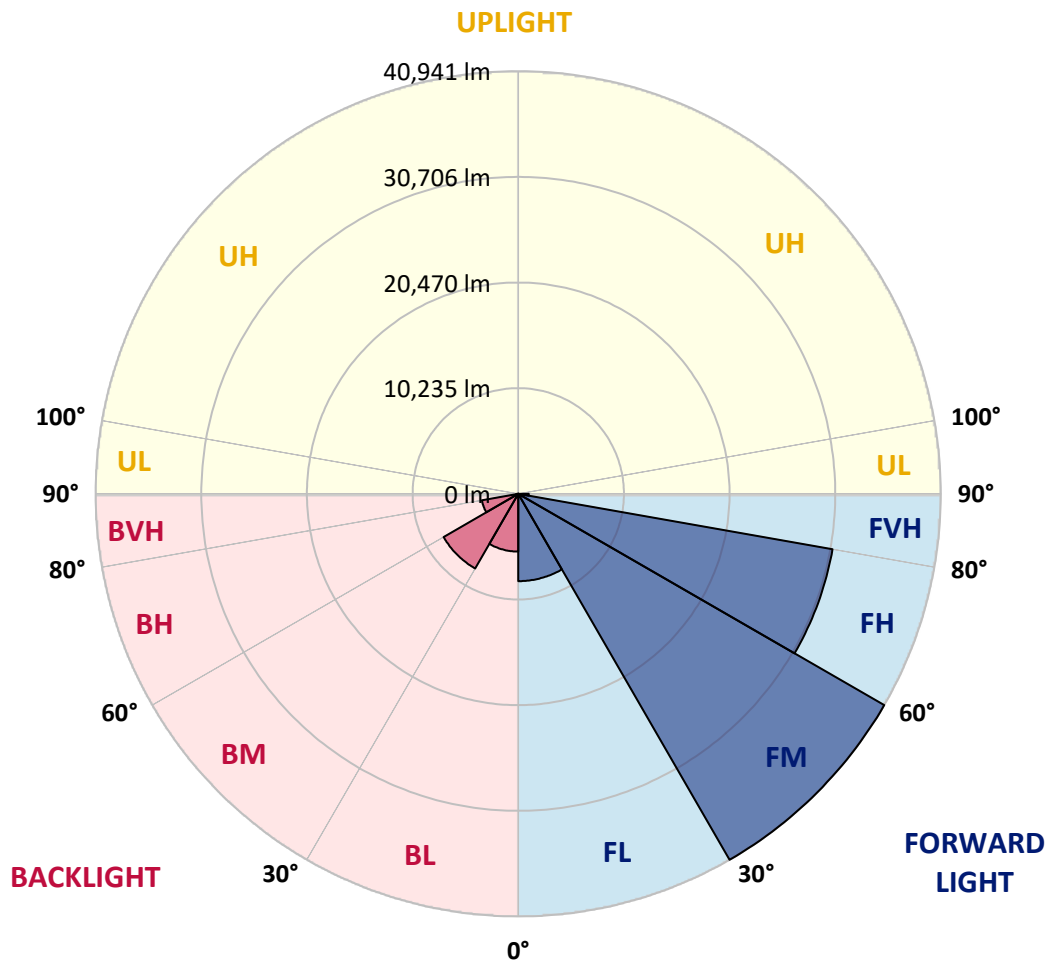
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 8458.6 | 8.5 | | | |
| FM (30°-60°) | 40940.8 | 41.3 | | | |
| FH (60°-80°) | 30914.8 | 31.2 | | | G5 |
| FVH (80°-90°) | 1017.6 | 1.0 | | | G5 |
| BL (0°-30°) | 5600.5 | 5.7 | B5 | | |
| BM (30°-60°) | 8353.1 | 8.4 | B4/8500 | | |
| BH (60°-80°) | 3572.3 | 3.6 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 173.3 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 |
| 2.5° | 14903.1 | 14883.5 | 14866.2 | 14896.6 | 14913.9 | 14942.1 | 14983.3 | 15011.5 | 15020.2 | 15046.2 | 15078.8 |
| 5° | 15141.7 | 15139.5 | 15115.7 | 15102.6 | 15065.8 | 15052.7 | 15061.4 | 15096.1 | 15098.3 | 15130.8 | 15232.8 |
| 7.5° | 15610.3 | 15605.9 | 15547.3 | 15521.3 | 15443.2 | 15356.4 | 15291.4 | 15297.9 | 15295.7 | 15328.2 | 15464.9 |
| 10° | 16317.4 | 16282.7 | 16200.3 | 16120.0 | 15968.2 | 15805.5 | 15686.2 | 15577.7 | 15577.7 | 15625.4 | 15777.3 |
| 12.5° | 17115.7 | 17163.5 | 17050.7 | 16929.2 | 16675.4 | 16382.5 | 16174.3 | 16052.8 | 16039.8 | 16063.6 | 16172.1 |
| 15° | 18107.1 | 18107.1 | 18031.2 | 17857.6 | 17634.2 | 17226.4 | 16796.9 | 16642.8 | 16621.1 | 16671.0 | 16664.5 |
| 17.5° | 19224.3 | 19256.8 | 19113.7 | 19026.9 | 18684.1 | 18232.9 | 17694.9 | 17428.1 | 17428.1 | 17395.6 | 17245.9 |
| 20° | 20649.5 | 20471.6 | 20486.8 | 20343.7 | 20092.0 | 19436.9 | 18890.2 | 18501.9 | 18497.6 | 18432.5 | 18011.7 |
| 22.5° | 22198.4 | 22100.8 | 22016.2 | 21890.4 | 21543.3 | 20957.6 | 20198.3 | 19814.4 | 19805.7 | 19645.1 | 19020.4 |
| 25° | 23725.6 | 23799.3 | 23706.1 | 23476.1 | 23222.3 | 22584.5 | 21747.2 | 21369.7 | 21367.6 | 21100.7 | 20215.7 |
| 27.5° | 25296.2 | 25376.4 | 25346.1 | 25137.8 | 24799.4 | 24300.5 | 23508.7 | 23016.2 | 22985.9 | 22812.3 | 21699.5 |
| 30° | 27031.6 | 26960.0 | 27053.3 | 26964.3 | 26795.1 | 25981.7 | 25265.8 | 24693.1 | 24766.9 | 24714.8 | 23385.0 |
| 32.5° | 28294.1 | 28339.7 | 28645.6 | 28654.2 | 28476.3 | 27873.3 | 26999.1 | 26647.6 | 26764.8 | 26695.4 | 25456.7 |
| 35° | 29435.2 | 29508.9 | 29903.7 | 30292.0 | 30422.2 | 29762.7 | 28873.3 | 28851.6 | 29003.5 | 29426.5 | 28311.5 |
| 37.5° | 30415.7 | 30467.8 | 31020.9 | 31526.4 | 31947.2 | 31496.0 | 30849.6 | 31619.7 | 31843.1 | 32708.6 | 31257.4 |
| 40° | 31003.6 | 31070.8 | 31786.7 | 32498.2 | 33248.8 | 33088.3 | 33027.5 | 34849.7 | 35060.2 | 35821.6 | 33407.2 |
| 42.5° | 30671.7 | 30804.0 | 31997.1 | 33298.7 | 34402.9 | 34723.9 | 35554.8 | 37897.6 | 38138.4 | 38203.5 | 35520.1 |
| 45° | 30079.5 | 30244.3 | 31578.4 | 33684.8 | 35485.3 | 36515.8 | 38097.2 | 40381.4 | 40513.8 | 40329.4 | 37270.7 |
| 47.5° | 29441.7 | 29617.4 | 31107.7 | 33569.9 | 36355.2 | 38600.5 | 40368.4 | 42719.9 | 42813.2 | 42247.0 | 39034.3 |
| 50° | 28717.1 | 28879.8 | 30482.9 | 33300.9 | 37010.4 | 40568.0 | 42702.6 | 44741.7 | 45091.0 | 43971.6 | 40405.3 |
| 52.5° | 27836.4 | 28010.0 | 29710.7 | 32880.0 | 37585.2 | 42027.9 | 44761.3 | 47026.0 | 47049.9 | 46127.9 | 41949.8 |
| 55° | 26695.4 | 26996.9 | 28741.0 | 32151.1 | 37886.8 | 43281.8 | 46555.3 | 50047.8 | 50201.8 | 49310.3 | 43242.7 |
| 57.5° | 25426.3 | 25688.8 | 27573.9 | 31179.3 | 37615.6 | 44234.1 | 49440.4 | 53288.8 | 53269.2 | 51479.6 | 44373.0 |
| 60° | 23749.5 | 23936.0 | 26053.2 | 29908.1 | 36741.4 | 45386.0 | 52444.9 | 56761.8 | 56727.1 | 53605.5 | 45099.7 |
| 62.5° | 21597.5 | 21784.1 | 23775.5 | 27914.5 | 35457.1 | 46158.3 | 54484.0 | 59362.8 | 59263.0 | 55152.2 | 45323.1 |
| 65° | 19102.8 | 19436.9 | 21165.8 | 25326.5 | 33185.9 | 45650.7 | 55468.9 | 60894.3 | 60733.8 | 56332.3 | 44789.5 |
| 67.5° | 16764.3 | 17048.5 | 18417.3 | 21764.5 | 29834.3 | 43592.0 | 54774.7 | 61289.1 | 61241.4 | 56503.7 | 43281.8 |
| 70° | 13454.0 | 13558.1 | 14812.0 | 17677.6 | 24823.3 | 39184.0 | 52375.5 | 60378.0 | 60399.7 | 54924.4 | 40253.5 |
| 72.5° | 9208.7 | 9462.5 | 10020.0 | 12282.6 | 18063.7 | 31161.9 | 45143.1 | 54338.7 | 54343.0 | 49249.5 | 35071.0 |
| 75° | 4952.5 | 5345.1 | 5995.9 | 7117.5 | 10098.1 | 19996.6 | 36253.3 | 45088.8 | 45173.4 | 41062.6 | 27875.5 |
| 77.5° | 2455.6 | 2596.6 | 2974.1 | 3807.1 | 4629.3 | 9434.3 | 23315.6 | 33845.4 | 34047.1 | 31519.9 | 19011.7 |
| 80° | 1123.7 | 1147.6 | 1175.8 | 1169.3 | 1772.3 | 4139.0 | 10009.1 | 20326.3 | 20387.0 | 18747.1 | 8679.4 |
| 82.5° | 878.6 | 874.2 | 887.2 | 807.0 | 811.3 | 1596.6 | 3464.4 | 5323.5 | 5677.0 | 4468.7 | 2752.8 |
| 85° | 531.5 | 529.3 | 570.5 | 442.5 | 544.5 | 863.4 | 1748.5 | 2123.7 | 2149.8 | 1748.5 | 1425.2 |
| 87.5° | 201.7 | 195.2 | 180.1 | 158.4 | 182.2 | 243.0 | 605.2 | 780.9 | 763.6 | 542.3 | 492.4 |
| 90° | 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-CA10-760-760-U-T3-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 | 15048.4 |
| 2.5° | 15107.0 | 15176.4 | 15304.4 | 15402.0 | 15434.5 | 15538.7 | 15638.5 | 15655.8 | 15727.4 | 15755.6 | 15848.9 |
| 5° | 15295.7 | 15412.8 | 15612.4 | 15744.8 | 15803.3 | 15976.9 | 16089.7 | 16146.1 | 16126.5 | 16137.4 | 16241.5 |
| 7.5° | 15571.2 | 15681.8 | 15842.4 | 16002.9 | 16031.1 | 16061.5 | 16050.6 | 16041.9 | 15966.0 | 15900.9 | 15998.6 |
| 10° | 15822.8 | 15927.0 | 16026.8 | 16050.6 | 15907.4 | 15827.2 | 15684.0 | 15573.4 | 15425.9 | 15358.6 | 15436.7 |
| 12.5° | 16176.4 | 16198.1 | 16100.5 | 15970.4 | 15662.3 | 15376.0 | 15143.9 | 14942.1 | 14759.9 | 14634.1 | 14738.2 |
| 15° | 16549.6 | 16465.0 | 16180.8 | 15801.2 | 15323.9 | 14913.9 | 14534.3 | 14198.0 | 13896.5 | 13822.8 | 13851.0 |
| 17.5° | 17044.2 | 16814.2 | 16241.5 | 15603.7 | 14861.8 | 14224.1 | 13736.0 | 13310.8 | 12916.0 | 12751.1 | 12735.9 |
| 20° | 17647.2 | 17276.3 | 16365.2 | 15354.3 | 14315.2 | 13467.0 | 12712.1 | 12076.5 | 11532.0 | 11085.1 | 11095.9 |
| 22.5° | 18432.5 | 17894.5 | 16551.7 | 15094.0 | 13710.0 | 12579.7 | 11482.1 | 10401.8 | 9505.9 | 9119.7 | 9024.3 |
| 25° | 19469.4 | 18666.8 | 16816.4 | 14857.5 | 13033.1 | 11451.7 | 9900.7 | 8375.7 | 7427.7 | 7052.4 | 7011.2 |
| 27.5° | 20760.2 | 19703.7 | 17219.9 | 14595.0 | 12308.6 | 10113.3 | 7883.2 | 6388.6 | 5518.7 | 5123.9 | 4991.6 |
| 30° | 22226.6 | 20981.4 | 17634.2 | 14321.7 | 11432.2 | 8393.0 | 6011.1 | 4546.8 | 3655.3 | 3301.7 | 3256.1 |
| 32.5° | 24124.7 | 22599.7 | 18250.3 | 13892.2 | 10152.3 | 6596.8 | 4193.2 | 2837.4 | 2232.2 | 2080.4 | 2037.0 |
| 35° | 26821.2 | 24788.5 | 19011.7 | 13349.8 | 8508.0 | 4607.6 | 2598.8 | 1661.7 | 1338.5 | 1262.5 | 1247.3 |
| 37.5° | 29335.4 | 26936.1 | 19779.6 | 12449.6 | 6460.2 | 2876.5 | 1486.0 | 1065.1 | 993.5 | 995.7 | 1000.0 |
| 40° | 31329.0 | 28404.8 | 20400.1 | 11265.2 | 4249.7 | 1633.5 | 1032.6 | 885.1 | 887.2 | 880.7 | 876.4 |
| 42.5° | 33103.5 | 29576.2 | 20679.9 | 9514.5 | 2462.2 | 1093.3 | 895.9 | 815.7 | 796.1 | 802.6 | 798.3 |
| 45° | 34572.1 | 30771.5 | 20137.6 | 7547.0 | 1451.3 | 980.5 | 846.0 | 757.1 | 735.4 | 770.1 | 774.4 |
| 47.5° | 36116.6 | 31906.0 | 19306.7 | 5685.7 | 1177.9 | 932.8 | 800.5 | 713.7 | 702.9 | 746.2 | 750.6 |
| 50° | 37416.0 | 32728.2 | 17890.2 | 4284.4 | 1123.7 | 880.7 | 759.3 | 670.3 | 668.1 | 707.2 | 707.2 |
| 52.5° | 38502.8 | 33224.9 | 16209.0 | 3308.2 | 1086.8 | 835.2 | 718.0 | 629.1 | 629.1 | 642.1 | 644.3 |
| 55° | 39268.6 | 33125.2 | 15206.8 | 2603.2 | 1047.8 | 791.8 | 674.7 | 590.0 | 564.0 | 555.3 | 559.7 |
| 57.5° | 39407.4 | 32860.5 | 14044.0 | 2030.5 | 1002.2 | 750.6 | 635.6 | 544.5 | 496.8 | 490.3 | 488.1 |
| 60° | 39318.5 | 32279.1 | 12716.4 | 1696.4 | 950.2 | 711.5 | 596.6 | 496.8 | 449.0 | 433.9 | 438.2 |
| 62.5° | 38947.5 | 31248.7 | 11182.7 | 1488.1 | 898.1 | 681.2 | 553.2 | 464.2 | 420.8 | 401.3 | 401.3 |
| 65° | 37828.2 | 29773.6 | 8905.0 | 1303.7 | 833.0 | 648.6 | 518.5 | 451.2 | 403.5 | 381.8 | 377.5 |
| 67.5° | 35368.2 | 26712.7 | 6692.3 | 1143.2 | 770.1 | 613.9 | 514.1 | 449.0 | 394.8 | 364.4 | 360.1 |
| 70° | 32068.7 | 22946.8 | 4568.5 | 1004.4 | 700.7 | 581.4 | 512.0 | 451.2 | 386.1 | 347.1 | 342.7 |
| 72.5° | 26771.3 | 18089.8 | 2631.4 | 874.2 | 631.3 | 551.0 | 503.3 | 453.4 | 370.9 | 323.2 | 316.7 |
| 75° | 20115.9 | 12688.2 | 1544.5 | 750.6 | 564.0 | 505.4 | 479.4 | 440.4 | 347.1 | 295.0 | 288.5 |
| 77.5° | 12098.2 | 5924.3 | 1162.7 | 622.6 | 483.8 | 444.7 | 427.4 | 403.5 | 316.7 | 273.3 | 266.8 |
| 80° | 4438.4 | 2249.6 | 913.3 | 498.9 | 384.0 | 386.1 | 368.8 | 353.6 | 288.5 | 251.6 | 247.3 |
| 82.5° | 1935.0 | 1375.3 | 674.7 | 379.6 | 301.5 | 344.9 | 303.7 | 290.7 | 247.3 | 225.6 | 216.9 |
| 85° | 1173.6 | 820.0 | 433.9 | 258.1 | 208.3 | 234.3 | 212.6 | 223.4 | 190.9 | 177.9 | 171.4 |
| 87.5° | 388.3 | 245.1 | 193.1 | 125.8 | 104.1 | 97.6 | 95.4 | 115.0 | 108.5 | 99.8 | 99.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)