

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: STREETWORKS

Report Number: P256757

Luminaire Tested: **CST-8-6-D-U-T5R-7050-HSS-HM-EX180**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-8-6-D-U-T5R-7050-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 5000K LEDS AND TYPE V ROUND WITH EXTERNAL FIELD INSTALLED 180
DEGREE SHIELD - BLACK
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42139 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U2 - G5

Input Watts (W): 477
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: 28.75 FT

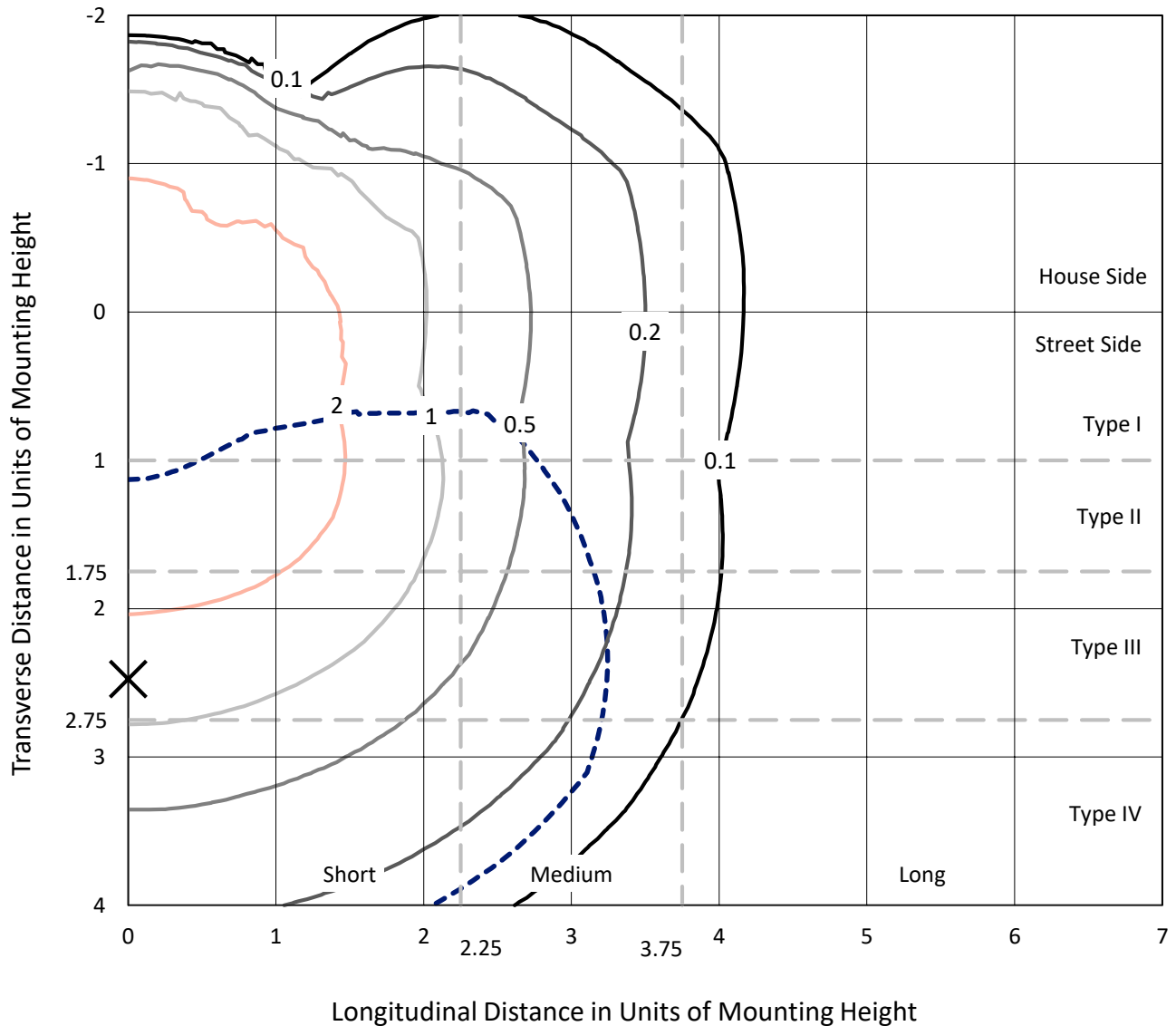


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

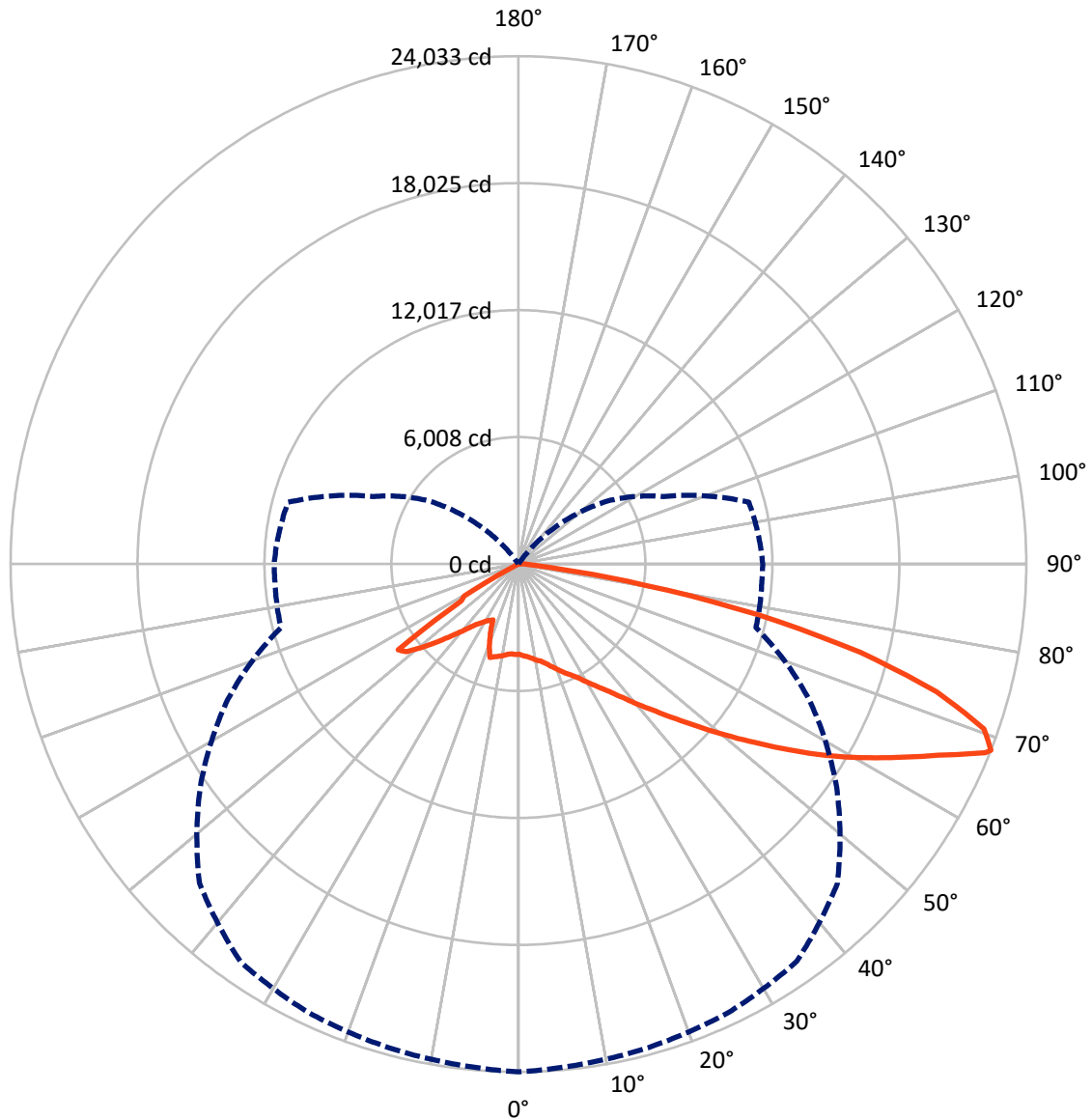


Based on 30 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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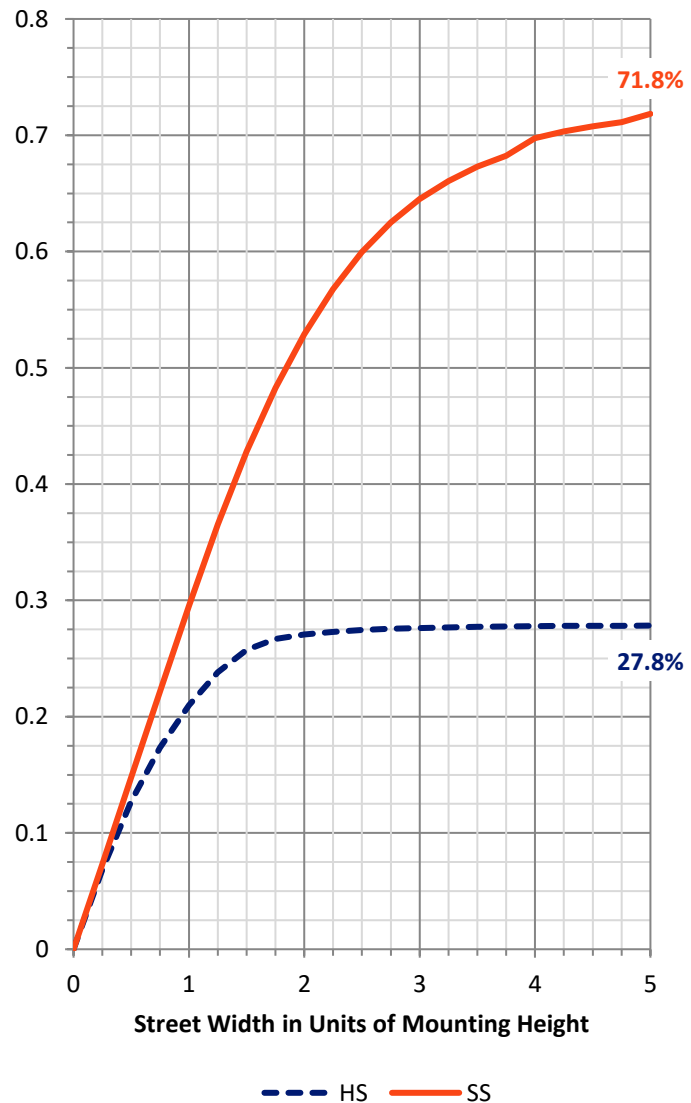
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11769.5 | 0.3 | 11769.7 |
| | % Fixture | 27.9 | 0.0 | 27.9 |
| Street Side | Lumens | 30345.1 | 24.1 | 30369.3 |
| | % Fixture | 72.0 | 0.1 | 72.1 |
| Total | Lumens | 42114.6 | 24.4 | 42139.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 414.4 | 1.0 |
| 10°-20° | 1312.9 | 3.1 |
| 20°-30° | 2222.8 | 5.3 |
| 30°-40° | 3521.4 | 8.4 |
| 40°-50° | 5757.3 | 13.7 |
| 50°-60° | 8818.7 | 20.9 |
| 60°-70° | 10843.3 | 25.7 |
| 70°-80° | 8378.5 | 19.9 |
| 80°-90° | 845.4 | 2.0 |
| 90°-100° | 24.0 | 0.1 |
| 100°-110° | 0.4 | 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° | 42114.6 | 99.9 |
| 0°-180° | 42139.0 | 100.0 |



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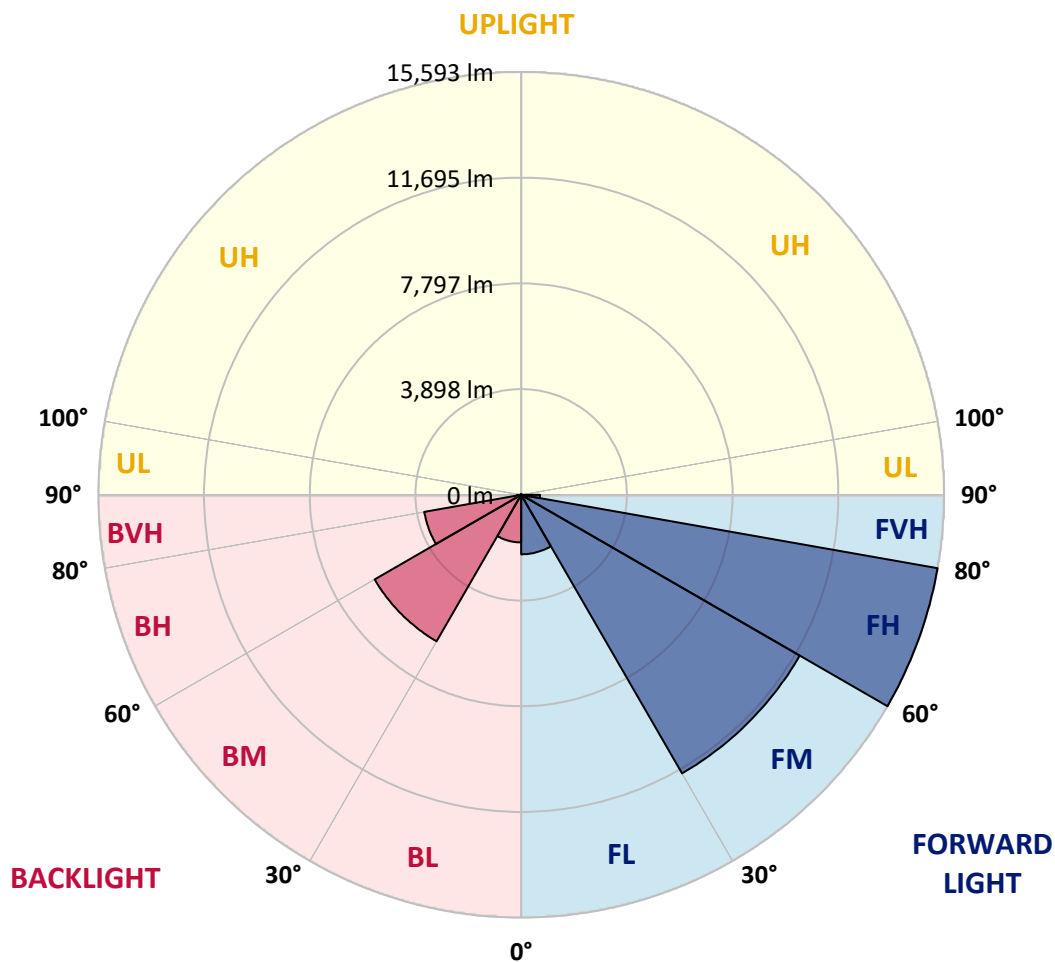
CATALOG NUMBER: CST-8-6-D-U-T5R-7050-HSS-HM-EX180

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2193.4 | 5.2 | | | |
| FM | (30°-60°) | 11861.4 | 28.1 | | | |
| FH | (60°-80°) | 15593.2 | 37.0 | | | G5 |
| FVH | (80°-90°) | 697.2 | 1.7 | | | G4/750 |
| BL | (0°-30°) | 1756.7 | 4.2 | B3/2500 | | |
| BM | (30°-60°) | 6236.0 | 14.8 | B4/8500 | | |
| BH | (60°-80°) | 3628.6 | 8.6 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 148.2 | 0.4 | | | G2/225 |
| UL | (90°-100°) | 24.0 | 0.1 | | U2/50 | |
| UH | (100°-180°) | 0.3 | 0.0 | | U1/10 | |

BUG Rating: B4-U2-G5

Type IV Short





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CATALOG NUMBER: CST-8-6-D-U-T5R-7050-HSS-HM-EX180

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 |
| 2.5° | 4346.3 | 4338.2 | 4330.0 | 4348.3 | 4277.2 | 4307.7 | 4283.3 | 4305.7 | 4289.4 | 4307.7 | 4301.6 |
| 5° | 4403.1 | 4395.0 | 4370.6 | 4390.9 | 4344.2 | 4356.4 | 4326.0 | 4334.1 | 4279.3 | 4311.8 | 4309.7 |
| 7.5° | 4496.5 | 4474.2 | 4457.9 | 4457.9 | 4417.3 | 4415.3 | 4366.6 | 4368.6 | 4326.0 | 4321.9 | 4330.0 |
| 10° | 4622.4 | 4606.1 | 4561.5 | 4565.5 | 4508.7 | 4500.6 | 4439.7 | 4437.6 | 4403.1 | 4382.8 | 4401.1 |
| 12.5° | 4715.7 | 4732.0 | 4691.4 | 4691.4 | 4634.5 | 4593.9 | 4551.3 | 4522.9 | 4496.5 | 4466.0 | 4451.8 |
| 15° | 4886.3 | 4902.5 | 4847.7 | 4845.7 | 4823.3 | 4774.6 | 4727.9 | 4667.0 | 4620.3 | 4606.1 | 4583.8 |
| 17.5° | 5107.5 | 5097.4 | 5050.7 | 5052.7 | 5056.8 | 4977.6 | 4930.9 | 4851.7 | 4784.8 | 4736.0 | 4723.9 |
| 20° | 5332.9 | 5332.9 | 5282.1 | 5298.3 | 5278.0 | 5205.0 | 5174.5 | 5064.9 | 4971.5 | 4918.7 | 4876.1 |
| 22.5° | 5584.6 | 5574.4 | 5539.9 | 5574.4 | 5533.8 | 5460.8 | 5410.0 | 5300.4 | 5180.6 | 4882.2 | 4760.4 |
| 25° | 5824.1 | 5818.0 | 5832.2 | 5842.4 | 5791.6 | 5700.3 | 5665.8 | 5550.1 | 5217.1 | 4825.4 | 4579.7 |
| 27.5° | 6126.6 | 6106.3 | 6138.8 | 6159.1 | 6108.3 | 6029.2 | 5956.1 | 5826.2 | 5121.7 | 4813.2 | 4786.8 |
| 30° | 6514.3 | 6469.7 | 6516.4 | 6526.5 | 6473.7 | 6425.0 | 6315.4 | 5665.8 | 5154.2 | 5064.9 | 5056.8 |
| 32.5° | 6928.5 | 6875.7 | 6936.6 | 6944.7 | 6875.7 | 6835.1 | 6559.0 | 5582.6 | 5472.9 | 5369.4 | 5379.6 |
| 35° | 7419.7 | 7419.7 | 7450.2 | 7454.2 | 7403.5 | 7334.5 | 6282.9 | 5988.6 | 5891.1 | 5795.7 | 5793.7 |
| 37.5° | 8018.6 | 8000.3 | 8081.5 | 8130.2 | 8075.4 | 7878.5 | 6684.9 | 6546.8 | 6396.6 | 6274.8 | 6023.1 |
| 40° | 8741.3 | 8773.7 | 8796.1 | 8844.8 | 8792.0 | 8349.5 | 7271.5 | 7115.2 | 6997.5 | 6589.4 | 5954.0 |
| 42.5° | 9520.8 | 9528.9 | 9577.6 | 9638.5 | 9638.5 | 9171.6 | 7957.7 | 7823.7 | 7671.4 | 6443.3 | 6157.0 |
| 45° | 10452.6 | 10434.3 | 10527.7 | 10625.1 | 10598.7 | 10115.6 | 8755.5 | 8656.0 | 7943.5 | 6867.6 | 6869.6 |
| 47.5° | 11510.2 | 11487.9 | 11621.9 | 11749.7 | 11617.8 | 11163.1 | 9632.4 | 9555.3 | 7667.4 | 7586.2 | 7569.9 |
| 50° | 12732.3 | 12677.5 | 12831.7 | 13002.3 | 12894.7 | 12332.4 | 10698.2 | 9216.3 | 8436.8 | 8371.8 | 8361.6 |
| 52.5° | 14037.6 | 13995.0 | 14088.3 | 14378.6 | 14236.5 | 13556.5 | 11707.1 | 9508.6 | 9327.9 | 9254.9 | 9236.6 |
| 55° | 15511.4 | 15428.1 | 15629.1 | 15850.4 | 15686.0 | 14910.5 | 12701.8 | 10479.0 | 10292.2 | 10166.3 | 9983.6 |
| 57.5° | 17060.3 | 16940.5 | 17044.0 | 17322.2 | 17163.8 | 16297.0 | 13984.8 | 11477.7 | 11256.5 | 9315.8 | 8574.8 |
| 60° | 18603.1 | 18548.3 | 18588.9 | 18834.5 | 18639.6 | 17644.9 | 15186.6 | 12478.5 | 9526.9 | 9214.3 | 9250.8 |
| 62.5° | 20154.0 | 20034.3 | 20070.8 | 20322.5 | 20072.8 | 18927.9 | 16325.4 | 13388.0 | 10026.3 | 9916.6 | 9955.2 |
| 65° | 21816.6 | 21674.5 | 21707.0 | 21780.1 | 21471.5 | 20078.9 | 17332.3 | 14246.7 | 10777.4 | 10661.7 | 10704.3 |
| 67.5° | 23820.2 | 23690.3 | 23513.7 | 23296.5 | 22870.2 | 21301.0 | 18333.1 | 15150.0 | 11621.9 | 11556.9 | 11571.1 |
| 68° | 24033.4 | 23907.5 | 23694.4 | 23436.6 | 22957.5 | 21351.7 | 18375.7 | 15176.4 | 11634.0 | 11552.8 | 11556.9 |
| 70° | 23369.6 | 23444.7 | 23203.1 | 22770.7 | 22370.8 | 20608.8 | 17679.4 | 14591.8 | 11116.4 | 10996.6 | 10966.2 |
| 72.5° | 20696.0 | 20860.5 | 20527.6 | 20454.5 | 19963.2 | 18359.5 | 15470.8 | 12661.2 | 9669.0 | 9707.6 | 9597.9 |
| 75° | 16709.1 | 16950.7 | 16546.7 | 16569.0 | 16288.9 | 15314.5 | 12965.7 | 10541.9 | 7939.4 | 8116.0 | 8148.5 |
| 77.5° | 11619.8 | 11967.0 | 11790.4 | 11967.0 | 11828.9 | 11477.7 | 10034.4 | 8118.0 | 6057.6 | 6260.6 | 6339.7 |
| 80° | 6059.6 | 6471.7 | 6705.2 | 6778.2 | 6822.9 | 6808.7 | 6110.4 | 4872.0 | 3501.8 | 3576.9 | 3572.8 |
| 82.5° | 1916.3 | 1816.9 | 1875.7 | 1859.5 | 1808.7 | 1829.0 | 1648.4 | 1289.1 | 893.2 | 984.6 | 941.9 |
| 85° | 578.6 | 582.6 | 566.4 | 562.3 | 519.7 | 456.8 | 373.5 | 215.2 | 105.6 | 123.8 | 115.7 |
| 87.5° | 426.3 | 430.4 | 397.9 | 377.6 | 353.2 | 306.5 | 237.5 | 134.0 | 50.8 | 48.7 | 38.6 |
| 90° | 235.5 | 227.4 | 211.1 | 194.9 | 184.7 | 158.3 | 119.8 | 50.8 | 18.3 | 14.2 | 12.2 |
| 92.5° | 127.9 | 121.8 | 113.7 | 107.6 | 93.4 | 75.1 | 48.7 | 16.2 | 8.1 | 2.0 | 0.0 |
| 95° | 58.9 | 54.8 | 52.8 | 46.7 | 40.6 | 28.4 | 16.2 | 10.2 | 6.1 | 2.0 | 0.0 |
| 97.5° | 26.4 | 24.4 | 22.3 | 18.3 | 14.2 | 8.1 | 8.1 | 6.1 | 4.1 | 2.0 | 0.0 |
| 100° | 6.1 | 6.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 4.1 | 2.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 0.0 |



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CATALOG NUMBER: CST-8-6-D-U-T5R-7050-HSS-HM-EX180

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 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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: CST-8-6-D-U-T5R-7050-HSS-HM-EX180

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 | 4269.1 |
| 2.5° | 4295.5 | 4283.3 | 4277.2 | 4238.7 | 4250.9 | 4216.3 | 4283.3 | 4267.1 | 4256.9 | 4285.4 |
| 5° | 4299.6 | 4256.9 | 4283.3 | 4261.0 | 4269.1 | 4220.4 | 4273.2 | 4250.9 | 4248.8 | 4261.0 |
| 7.5° | 4309.7 | 4281.3 | 4307.7 | 4263.0 | 4283.3 | 4263.0 | 4301.6 | 4279.3 | 4297.6 | 4309.7 |
| 10° | 4364.5 | 4348.3 | 4336.1 | 4326.0 | 4340.2 | 4299.6 | 4348.3 | 4350.3 | 4356.4 | 4393.0 |
| 12.5° | 4441.7 | 4425.4 | 4405.1 | 4378.8 | 4393.0 | 4376.7 | 4413.3 | 4423.4 | 4445.7 | 4464.0 |
| 15° | 4549.3 | 4518.8 | 4510.7 | 4486.3 | 4500.6 | 4492.4 | 4500.6 | 4494.5 | 4537.1 | 4531.0 |
| 17.5° | 4697.5 | 4663.0 | 4547.2 | 4429.5 | 4354.4 | 4376.7 | 4470.1 | 4591.9 | 4622.4 | 4626.4 |
| 20° | 4752.3 | 4508.7 | 4496.5 | 4362.5 | 4301.6 | 4297.6 | 4104.7 | 3816.4 | 3903.7 | 4108.8 |
| 22.5° | 4687.3 | 4354.4 | 4319.9 | 4293.5 | 4033.6 | 3607.3 | 3566.7 | 3524.1 | 3514.0 | 3544.4 |
| 25° | 4541.2 | 4502.6 | 4472.1 | 4127.0 | 3717.0 | 3719.0 | 3660.1 | 3380.0 | 2943.5 | 2907.0 |
| 27.5° | 4764.5 | 4711.7 | 4417.3 | 3885.5 | 3877.3 | 3873.3 | 3786.0 | 3067.4 | 2974.0 | 2996.3 |
| 30° | 5018.2 | 4930.9 | 4161.5 | 4092.5 | 4090.5 | 4053.9 | 3394.2 | 3093.7 | 3093.7 | 3097.8 |
| 32.5° | 5310.5 | 4768.5 | 4307.7 | 4340.2 | 4338.2 | 4165.6 | 3278.5 | 3258.2 | 3250.1 | 3270.4 |
| 35° | 5533.8 | 4638.6 | 4622.4 | 4681.2 | 4640.6 | 3534.3 | 3483.5 | 3465.2 | 3457.1 | 3447.0 |
| 37.5° | 5464.8 | 5012.1 | 5012.1 | 5048.7 | 4721.8 | 3763.7 | 3739.3 | 3739.3 | 3723.1 | 3714.9 |
| 40° | 5570.4 | 5477.0 | 5430.3 | 5444.5 | 3430.7 | 4041.8 | 4060.0 | 4056.0 | 4053.9 | 4068.2 |
| 42.5° | 6126.6 | 6043.4 | 6000.7 | 5497.3 | 3840.8 | 4017.4 | 4464.0 | 4462.0 | 4468.1 | 4462.0 |
| 45° | 6835.1 | 6757.9 | 6646.3 | 5144.1 | 4360.5 | 3522.1 | 4920.8 | 4943.1 | 4945.1 | 4943.1 |
| 47.5° | 7578.1 | 7529.3 | 6386.4 | 5694.2 | 4924.8 | 3779.9 | 4703.6 | 5493.2 | 5483.1 | 5495.3 |
| 50° | 8363.7 | 8144.4 | 6354.0 | 6345.8 | 5525.7 | 4206.2 | 4208.2 | 5974.3 | 6077.9 | 6110.4 |
| 52.5° | 9238.6 | 7383.2 | 7042.1 | 6425.0 | 6134.7 | 4644.7 | 4600.0 | 5294.3 | 6707.2 | 6739.7 |
| 55° | 8580.9 | 7799.3 | 7793.2 | 5718.6 | 6382.4 | 5066.9 | 5073.0 | 5024.3 | 6151.0 | 6991.4 |
| 57.5° | 8538.3 | 8556.5 | 8542.3 | 6380.3 | 4656.9 | 4750.2 | 5527.7 | 5485.1 | 3982.9 | 3227.7 |
| 60° | 9275.2 | 9301.5 | 8298.7 | 6889.9 | 5034.4 | 2921.2 | 3404.3 | 2892.8 | 2931.3 | 2961.8 |
| 62.5° | 9979.6 | 9987.7 | 6749.8 | 4516.8 | 2494.9 | 117.7 | 56.8 | 46.7 | 44.7 | 44.7 |
| 65° | 10759.1 | 10759.1 | 7235.0 | 4926.9 | 2409.6 | 44.7 | 8.1 | 6.1 | 22.3 | 22.3 |
| 67.5° | 11512.2 | 11345.8 | 7590.2 | 5231.4 | 2452.3 | 6.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 68° | 11469.6 | 11286.9 | 7557.8 | 5223.2 | 2446.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 10832.2 | 10655.6 | 7170.0 | 4985.7 | 2354.8 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 9561.4 | 9399.0 | 6349.9 | 4395.0 | 2123.4 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 8093.7 | 8071.4 | 5485.1 | 3708.8 | 1820.9 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 6512.3 | 6410.8 | 4287.4 | 2907.0 | 1467.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 3627.6 | 3777.9 | 2509.1 | 1709.3 | 923.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 980.5 | 917.6 | 548.1 | 371.5 | 176.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 125.9 | 138.0 | 62.9 | 50.8 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 65.0 | 77.1 | 20.3 | 16.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 12.2 | 14.2 | 6.1 | 2.0 | 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 |



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|--------|-----|------|------|------|------|------|------|------|------|------|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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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