

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: P256731

Luminaire Tested: **CST-8-4-D-U-T5R-7050-HSS-HM-EX120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-6)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-8-4-D-U-T5R-7050-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE
(8) 70 CRI, 5000K LEDS AND TYPE V ROUND WITH EXTERNAL FIELD INSTALLED 120
DEGREE SHIELD - BLACK
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33824 lumens
Efficiency: N/A
Efficacy: 104.1 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): 325
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

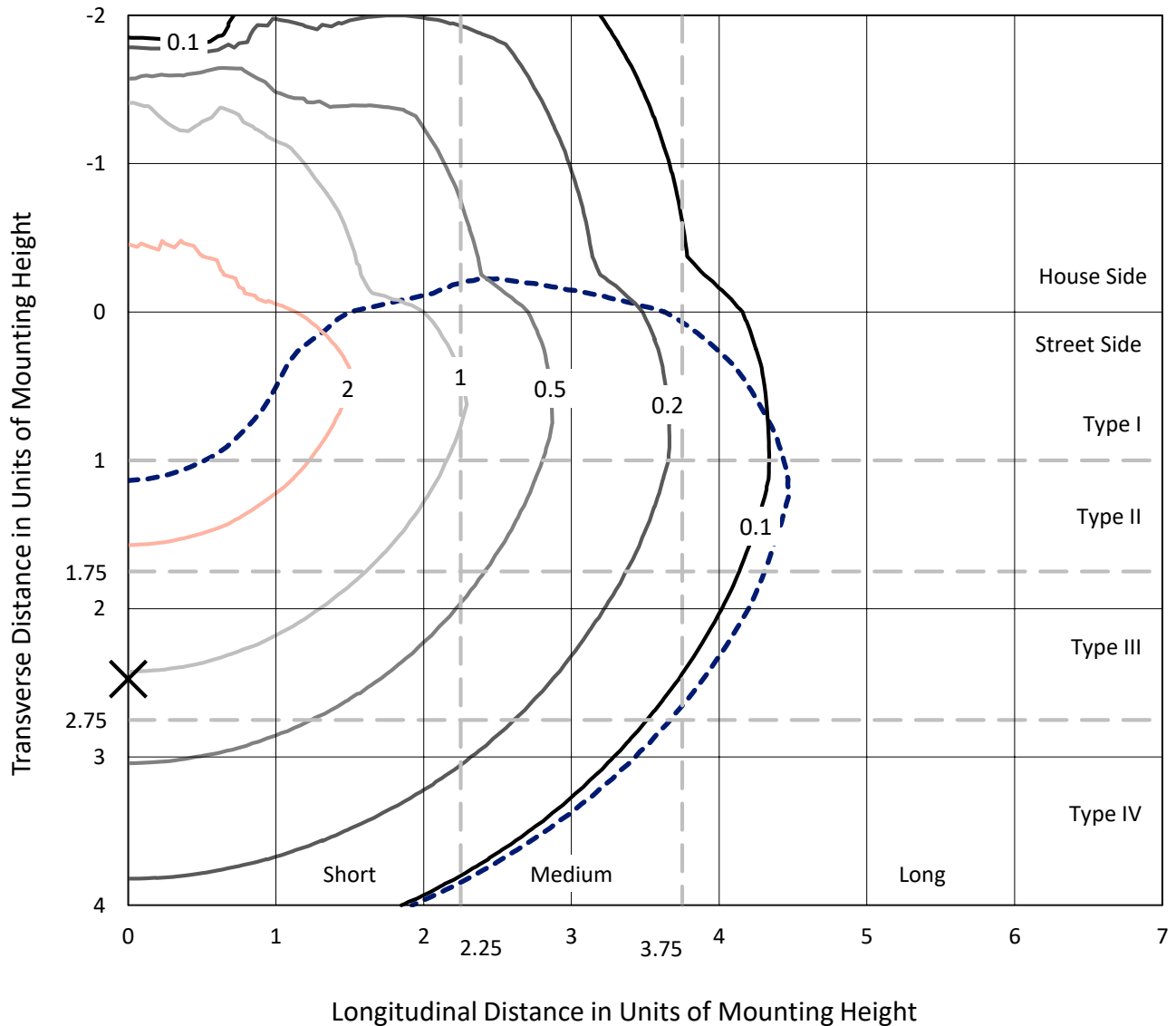


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

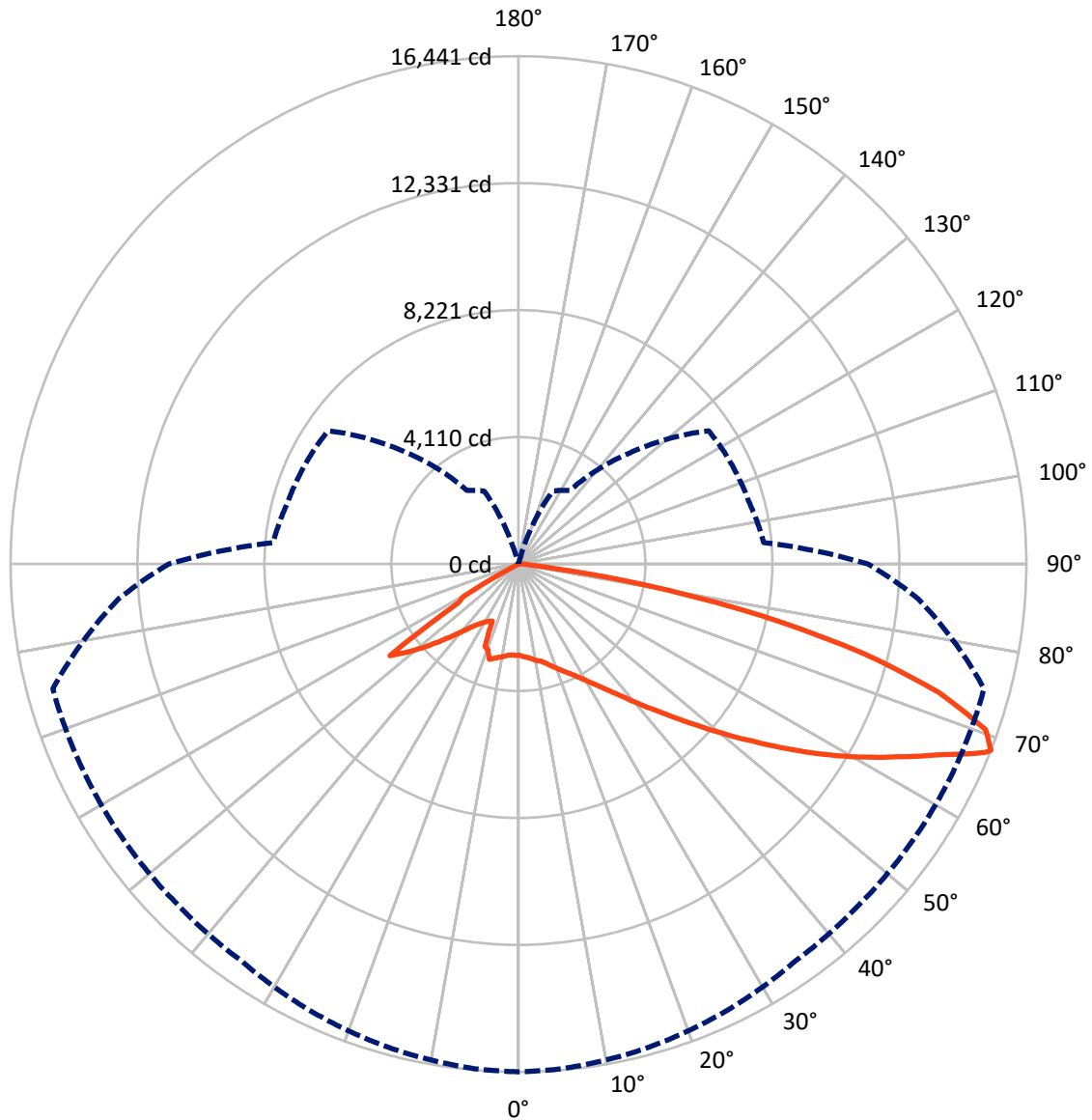


Based on 30 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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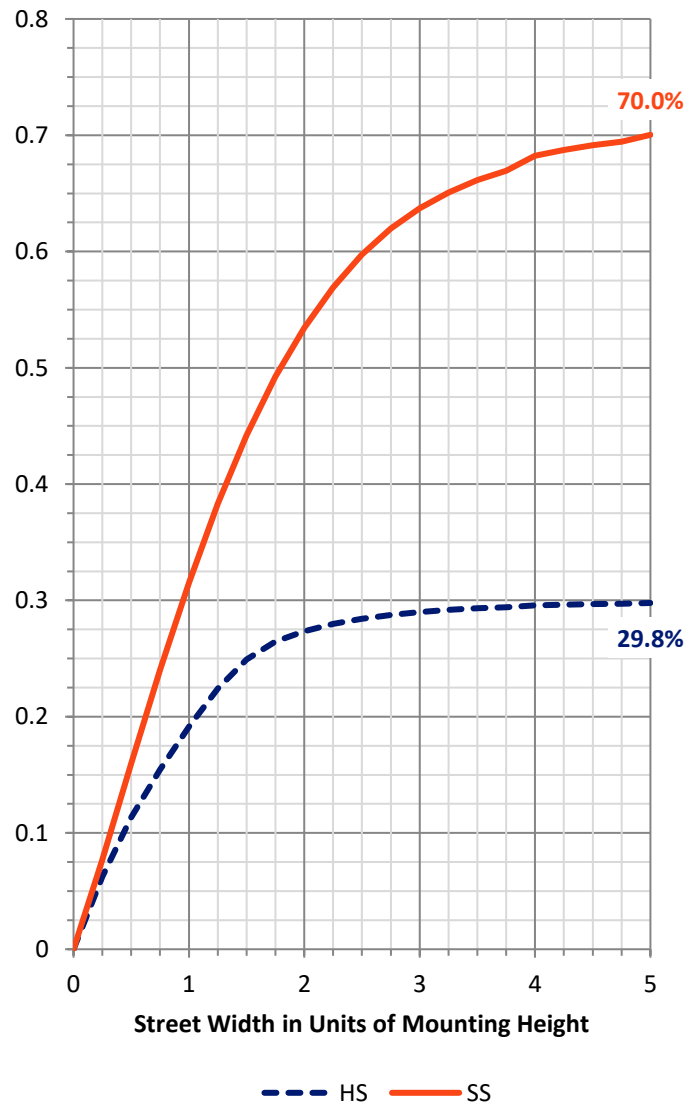
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10082.6 | 1.6 | 10084.1 |
| | % Fixture | 29.8 | 0.0 | 29.8 |
| Street Side | Lumens | 23726.0 | 13.9 | 23739.9 |
| | % Fixture | 70.1 | 0.0 | 70.2 |
| Total | Lumens | 33808.6 | 15.4 | 33824.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 286.2 | 0.8 |
| 10°-20° | 910.9 | 2.7 |
| 20°-30° | 1560.3 | 4.6 |
| 30°-40° | 2531.1 | 7.5 |
| 40°-50° | 4268.6 | 12.6 |
| 50°-60° | 6957.9 | 20.6 |
| 60°-70° | 9331.6 | 27.6 |
| 70°-80° | 7248.3 | 21.4 |
| 80°-90° | 713.8 | 2.1 |
| 90°-100° | 13.6 | 0.0 |
| 100°-110° | 0.8 | 0.0 |
| 110°-120° | 0.2 | 0.0 |
| 120°-130° | 0.1 | 0.0 |
| 130°-140° | 0.2 | 0.0 |
| 140°-150° | 0.2 | 0.0 |
| 150°-160° | 0.2 | 0.0 |
| 160°-170° | 0.1 | 0.0 |
| 170°-180° | 0.0 | 0.0 |
| 0°-90° | 33808.6 | 100.0 |
| 0°-180° | 33824.0 | 100.0 |



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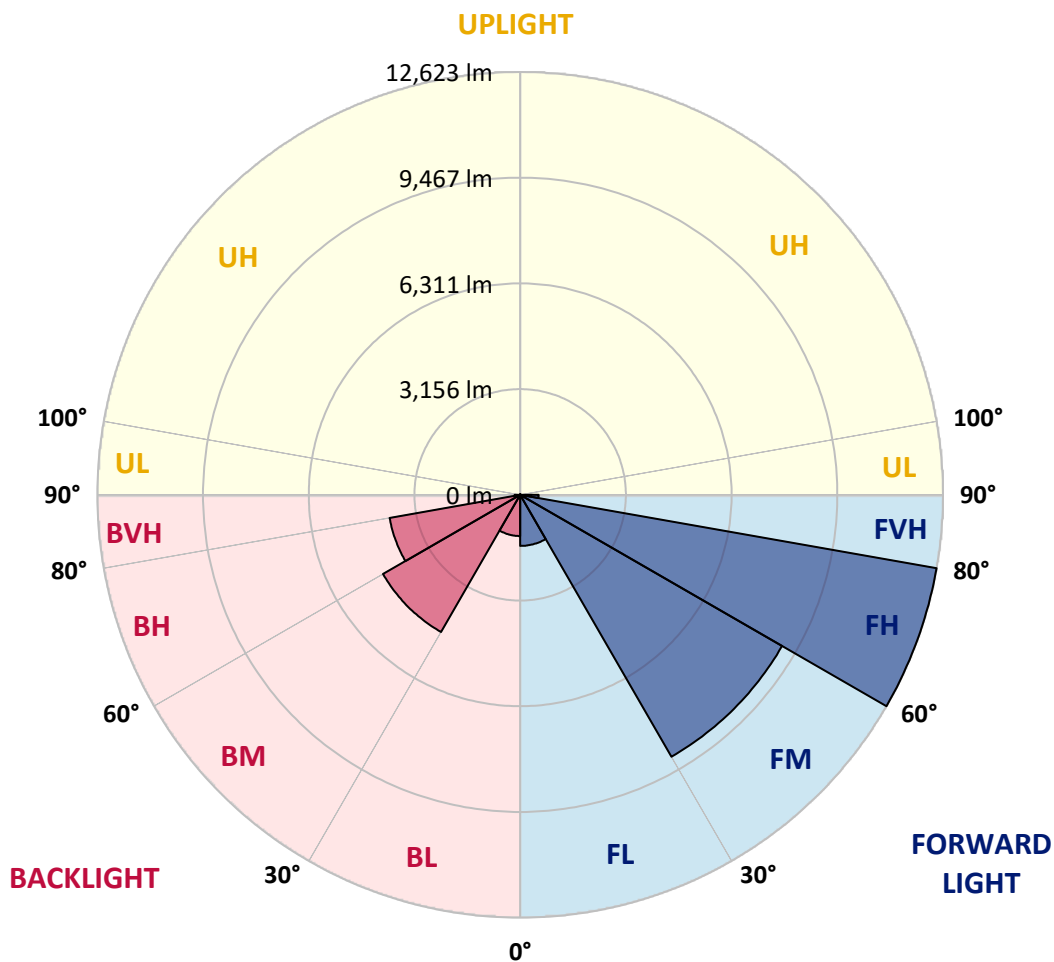
CATALOG NUMBER: CST-8-4-D-U-T5R-7050-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|-------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1525.6 | 4.5 | | | |
| FM | (30°-60°) | 9028.8 | 26.7 | | | |
| FH | (60°-80°) | 12622.7 | 37.3 | | | G5 |
| FVH | (80°-90°) | 548.8 | 1.6 | | | G4/750 |
| BL | (0°-30°) | 1231.7 | 3.6 | B3/2500 | | |
| BM | (30°-60°) | 4728.7 | 14.0 | B3/5000 | | |
| BH | (60°-80°) | 3957.2 | 11.7 | B4/5000 | | G4/5000 |
| BVH | (80°-90°) | 165.0 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 13.6 | 0.0 | | U2/50 | |
| UH | (100°-180°) | 1.6 | 0.0 | | U1/10 | |

BUG Rating: B4-U2-G5

Type IV Short





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CATALOG NUMBER: CST-8-4-D-U-T5R-7050-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 |
| 2.5° | 2997.8 | 2989.4 | 2988.0 | 3004.8 | 2951.6 | 2978.2 | 2954.4 | 2974.0 | 2961.4 | 2971.2 | 2972.6 |
| 5° | 3038.4 | 3023.0 | 3013.2 | 3032.8 | 2999.2 | 3011.8 | 2985.2 | 2993.6 | 2958.6 | 2978.2 | 2981.0 |
| 7.5° | 3097.1 | 3071.9 | 3069.1 | 3074.7 | 3045.4 | 3055.1 | 3011.8 | 3021.6 | 2996.4 | 2985.2 | 2995.0 |
| 10° | 3176.8 | 3153.1 | 3134.9 | 3147.5 | 3108.3 | 3113.9 | 3067.7 | 3069.1 | 3050.9 | 3030.0 | 3046.7 |
| 12.5° | 3221.6 | 3224.4 | 3216.0 | 3225.8 | 3193.6 | 3175.4 | 3143.3 | 3132.1 | 3113.9 | 3088.7 | 3080.3 |
| 15° | 3333.5 | 3327.9 | 3311.1 | 3326.5 | 3322.3 | 3305.5 | 3266.4 | 3241.2 | 3202.0 | 3188.0 | 3174.0 |
| 17.5° | 3470.6 | 3452.4 | 3438.4 | 3458.0 | 3479.0 | 3444.0 | 3406.3 | 3371.3 | 3319.5 | 3291.6 | 3274.8 |
| 20° | 3614.7 | 3602.1 | 3588.1 | 3618.9 | 3625.9 | 3599.3 | 3571.3 | 3519.6 | 3459.4 | 3423.0 | 3388.1 |
| 22.5° | 3775.6 | 3750.4 | 3754.6 | 3795.1 | 3782.6 | 3770.0 | 3733.6 | 3691.6 | 3618.9 | 3572.7 | 3472.0 |
| 25° | 3942.0 | 3928.0 | 3947.6 | 3965.8 | 3956.0 | 3929.4 | 3911.3 | 3880.5 | 3799.3 | 3743.4 | 3596.5 |
| 27.5° | 4149.1 | 4126.7 | 4151.9 | 4158.9 | 4150.5 | 4143.5 | 4118.3 | 4094.5 | 4006.4 | 3943.4 | 3760.2 |
| 30° | 4392.5 | 4365.9 | 4406.5 | 4396.7 | 4388.3 | 4393.9 | 4378.5 | 4326.7 | 4248.4 | 4163.1 | 3979.8 |
| 32.5° | 4682.0 | 4647.1 | 4693.2 | 4672.2 | 4652.7 | 4691.8 | 4655.5 | 4606.5 | 4514.2 | 4414.8 | 4235.8 |
| 35° | 5017.8 | 5019.2 | 5042.9 | 5008.0 | 5001.0 | 5042.9 | 5019.2 | 4959.0 | 4873.7 | 4770.2 | 4515.6 |
| 37.5° | 5424.8 | 5413.6 | 5473.8 | 5457.0 | 5431.8 | 5487.8 | 5494.8 | 5419.2 | 5265.4 | 5163.2 | 4862.5 |
| 40° | 5920.0 | 5917.2 | 5936.8 | 5939.6 | 5932.6 | 5959.2 | 5971.8 | 5871.1 | 5771.8 | 5617.9 | 4588.3 |
| 42.5° | 6448.8 | 6460.0 | 6495.0 | 6469.8 | 6503.4 | 6538.3 | 6542.5 | 6458.6 | 6315.9 | 5389.9 | 4873.7 |
| 45° | 7083.9 | 7118.9 | 7142.7 | 7137.1 | 7152.4 | 7202.8 | 7207.0 | 7162.2 | 7022.4 | 5838.9 | 5391.3 |
| 47.5° | 7812.7 | 7846.3 | 7853.3 | 7898.0 | 7884.1 | 7955.4 | 7945.6 | 7947.0 | 7797.3 | 6464.2 | 5955.0 |
| 50° | 8650.6 | 8666.0 | 8723.4 | 8748.6 | 8713.6 | 8810.1 | 8784.9 | 8815.7 | 8631.1 | 7180.4 | 6560.7 |
| 52.5° | 9540.3 | 9566.9 | 9590.7 | 9685.8 | 9641.0 | 9725.0 | 9691.4 | 9762.7 | 9548.7 | 7909.2 | 7233.6 |
| 55° | 10551.7 | 10555.9 | 10596.5 | 10693.0 | 10634.2 | 10735.0 | 10686.0 | 10712.6 | 10541.9 | 8715.0 | 7934.4 |
| 57.5° | 11623.2 | 11609.3 | 11624.6 | 11701.6 | 11648.4 | 11724.0 | 11704.4 | 11729.6 | 11570.1 | 9562.7 | 8446.4 |
| 60° | 12683.6 | 12662.6 | 12685.0 | 12736.8 | 12664.0 | 12794.1 | 12724.2 | 12747.9 | 12575.9 | 10428.6 | 9176.6 |
| 62.5° | 13749.5 | 13734.2 | 13709.0 | 13760.7 | 13654.4 | 13721.6 | 13750.9 | 13711.8 | 13560.7 | 11212.0 | 9811.7 |
| 65° | 14893.8 | 14878.4 | 14786.1 | 14818.3 | 14628.0 | 14595.9 | 14607.0 | 14619.6 | 14518.9 | 11988.4 | 10508.3 |
| 67.5° | 16284.3 | 16261.9 | 16088.5 | 15870.2 | 15596.1 | 15535.9 | 15541.5 | 15575.1 | 15589.1 | 12987.2 | 11323.9 |
| 68° | 16441.0 | 16400.4 | 16207.4 | 15954.2 | 15667.4 | 15597.5 | 15590.5 | 15597.5 | 15604.4 | 12995.5 | 11315.5 |
| 70° | 16040.9 | 16025.5 | 15878.6 | 15572.3 | 15278.5 | 15110.6 | 14965.2 | 14959.6 | 14892.4 | 12331.1 | 10690.2 |
| 72.5° | 14234.9 | 14215.4 | 14040.5 | 13823.7 | 13641.8 | 13378.8 | 13190.0 | 13201.2 | 13090.7 | 10898.6 | 9357.1 |
| 75° | 11519.7 | 11518.3 | 11308.5 | 11126.6 | 11129.4 | 11109.9 | 11046.9 | 11157.4 | 11042.7 | 9243.8 | 7980.6 |
| 77.5° | 8028.1 | 8056.1 | 8042.1 | 7935.8 | 8085.5 | 8292.5 | 8517.7 | 8730.4 | 8664.6 | 7302.1 | 6363.5 |
| 80° | 4193.8 | 4272.2 | 4549.1 | 4561.7 | 4666.6 | 4868.1 | 5022.0 | 5164.6 | 5174.4 | 4143.5 | 3676.2 |
| 82.5° | 1114.9 | 1138.7 | 1232.4 | 1205.8 | 1197.4 | 1238.0 | 1271.6 | 1275.8 | 1278.6 | 1079.9 | 1008.6 |
| 85° | 346.9 | 356.7 | 345.5 | 330.1 | 306.4 | 279.8 | 272.8 | 222.4 | 176.3 | 145.5 | 127.3 |
| 87.5° | 246.2 | 263.0 | 237.8 | 223.8 | 198.6 | 188.8 | 169.3 | 132.9 | 103.5 | 72.7 | 49.0 |
| 90° | 127.3 | 130.1 | 116.1 | 99.3 | 92.3 | 86.7 | 74.1 | 53.2 | 26.6 | 14.0 | 12.6 |
| 92.5° | 64.3 | 65.7 | 57.4 | 49.0 | 42.0 | 36.4 | 28.0 | 15.4 | 8.4 | 4.2 | 1.4 |
| 95° | 25.2 | 26.6 | 23.8 | 21.0 | 16.8 | 12.6 | 11.2 | 8.4 | 5.6 | 2.8 | 1.4 |
| 97.5° | 8.4 | 8.4 | 8.4 | 7.0 | 7.0 | 7.0 | 7.0 | 5.6 | 4.2 | 2.8 | 1.4 |
| 100° | 0.0 | 0.0 | 0.0 | 1.4 | 2.8 | 4.2 | 4.2 | 4.2 | 2.8 | 1.4 | 1.4 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 2.8 | 2.8 | 2.8 | 1.4 | 1.4 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |



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CATALOG NUMBER: CST-8-4-D-U-T5R-7050-HSS-HM-EX120

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 | 1.4 | 1.4 | 1.4 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 |
| 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 | 1.4 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 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° | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 | 2948.8 |
| 2.5° | 2965.6 | 2957.2 | 2961.4 | 2926.4 | 2934.8 | 2912.5 | 2960.0 | 2947.4 | 2941.8 | 2961.4 |
| 5° | 2972.6 | 2941.8 | 2967.0 | 2943.2 | 2947.4 | 2915.3 | 2954.4 | 2939.0 | 2937.6 | 2948.8 |
| 7.5° | 2975.4 | 2960.0 | 2983.8 | 2944.6 | 2957.2 | 2944.6 | 2974.0 | 2958.6 | 2972.6 | 2982.4 |
| 10° | 3014.6 | 3006.2 | 3003.4 | 2989.4 | 2999.2 | 2971.2 | 3007.6 | 3007.6 | 3014.6 | 3041.2 |
| 12.5° | 3071.9 | 3060.7 | 3053.7 | 3028.6 | 3038.4 | 3030.0 | 3059.3 | 3064.9 | 3077.5 | 3088.7 |
| 15° | 3150.3 | 3130.7 | 3123.7 | 3101.3 | 3108.3 | 3106.9 | 3127.9 | 3129.3 | 3157.3 | 3155.9 |
| 17.5° | 3251.0 | 3223.0 | 3231.4 | 3214.6 | 3216.0 | 3204.8 | 3193.6 | 3193.6 | 3218.8 | 3224.4 |
| 20° | 3371.3 | 3211.8 | 3002.0 | 2884.5 | 2863.5 | 2878.9 | 2939.0 | 3038.4 | 2913.9 | 2948.8 |
| 22.5° | 3154.5 | 3010.4 | 3000.6 | 2974.0 | 2957.2 | 2582.3 | 2485.8 | 2455.0 | 2615.9 | 2892.9 |
| 25° | 3182.4 | 3120.9 | 3102.7 | 3069.1 | 2573.9 | 2569.7 | 2541.8 | 2495.6 | 2039.6 | 2029.8 |
| 27.5° | 3330.7 | 3270.6 | 3241.2 | 2688.6 | 2677.4 | 2676.0 | 2634.1 | 2171.1 | 2066.1 | 2080.1 |
| 30° | 3504.2 | 3434.2 | 2908.3 | 2824.3 | 2814.5 | 2792.2 | 2551.5 | 2144.5 | 2143.1 | 2144.5 |
| 32.5° | 3704.2 | 3472.0 | 2992.2 | 2988.0 | 2993.6 | 2925.0 | 2260.6 | 2252.2 | 2250.8 | 2264.8 |
| 35° | 3978.4 | 3221.6 | 3202.0 | 3223.0 | 3193.6 | 2529.2 | 2396.3 | 2392.1 | 2393.5 | 2386.5 |
| 37.5° | 3796.5 | 3473.4 | 3469.2 | 3469.2 | 3400.7 | 2587.9 | 2561.3 | 2580.9 | 2578.1 | 2568.3 |
| 40° | 3873.5 | 3778.4 | 3753.2 | 3744.8 | 2874.7 | 2792.2 | 2776.8 | 2801.9 | 2806.1 | 2813.1 |
| 42.5° | 4247.0 | 4160.3 | 4147.7 | 4048.3 | 3127.9 | 3101.3 | 3053.7 | 3080.3 | 3077.5 | 3085.9 |
| 45° | 4705.8 | 4647.1 | 4592.5 | 3509.8 | 3469.2 | 3435.6 | 3386.7 | 3417.5 | 3425.8 | 3420.2 |
| 47.5° | 5240.2 | 5175.8 | 4781.4 | 3859.5 | 3858.1 | 3831.5 | 3777.0 | 3802.1 | 3797.9 | 3797.9 |
| 50° | 5777.4 | 5707.4 | 4343.5 | 4304.3 | 4290.3 | 4248.4 | 4203.6 | 4207.8 | 4209.2 | 4223.2 |
| 52.5° | 6377.5 | 5097.5 | 4807.9 | 4729.6 | 4740.8 | 4712.8 | 4669.4 | 3535.0 | 4648.5 | 4661.1 |
| 55° | 5960.6 | 5335.3 | 5318.5 | 5215.0 | 5241.6 | 5205.2 | 5177.2 | 3487.4 | 4623.3 | 5108.7 |
| 57.5° | 5893.5 | 5848.7 | 5834.7 | 5728.4 | 5762.0 | 5416.4 | 5675.2 | 3816.1 | 3197.8 | 2336.1 |
| 60° | 6406.8 | 6359.3 | 6350.9 | 6257.2 | 6254.4 | 4304.3 | 5159.0 | 2617.3 | 2045.2 | 2059.1 |
| 62.5° | 6904.8 | 6827.9 | 6848.9 | 6738.4 | 4750.6 | 2622.9 | 2312.3 | 58.8 | 93.7 | 99.3 |
| 65° | 7460.2 | 7331.5 | 7352.5 | 7250.4 | 4900.3 | 2765.6 | 2499.8 | 30.8 | 26.6 | 25.2 |
| 67.5° | 7994.6 | 7769.3 | 7661.6 | 7553.9 | 5089.1 | 2912.5 | 2604.7 | 8.4 | 0.0 | 0.0 |
| 68° | 7968.0 | 7730.2 | 7619.7 | 7517.6 | 5069.5 | 2908.3 | 2599.1 | 8.4 | 0.0 | 0.0 |
| 70° | 7519.0 | 7304.9 | 7200.0 | 7121.7 | 4840.1 | 2808.9 | 2494.2 | 8.4 | 0.0 | 0.0 |
| 72.5° | 6573.3 | 6454.4 | 6387.3 | 6318.7 | 4300.1 | 2512.4 | 2236.8 | 8.4 | 0.0 | 0.0 |
| 75° | 5585.7 | 5552.1 | 5510.2 | 5359.1 | 3583.9 | 2056.3 | 1838.1 | 8.4 | 0.0 | 0.0 |
| 77.5° | 4426.0 | 4424.6 | 4322.5 | 4144.9 | 2698.4 | 1509.4 | 1355.5 | 7.0 | 0.0 | 0.0 |
| 80° | 2393.5 | 2608.9 | 2530.6 | 2439.6 | 1530.4 | 821.1 | 782.0 | 5.6 | 0.0 | 0.0 |
| 82.5° | 672.9 | 636.5 | 611.3 | 572.1 | 321.7 | 179.1 | 174.9 | 5.6 | 0.0 | 0.0 |
| 85° | 93.7 | 103.5 | 114.7 | 130.1 | 74.1 | 47.6 | 42.0 | 2.8 | 0.0 | 0.0 |
| 87.5° | 53.2 | 60.2 | 74.1 | 76.9 | 28.0 | 22.4 | 7.0 | 0.0 | 0.0 | 0.0 |
| 90° | 11.2 | 12.6 | 14.0 | 14.0 | 5.6 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 92.5° | 0.0 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: CST-8-4-D-U-T5R-7050-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|------|------|------|------|------|------|------|------|------|
| 110° | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 1.4 | 1.4 | 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 |

(END OF REPORT)