

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: P579653

Luminaire Tested: **CTN-CA8-330-727-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579653
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-CA8-330-727-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 2700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25561 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G4

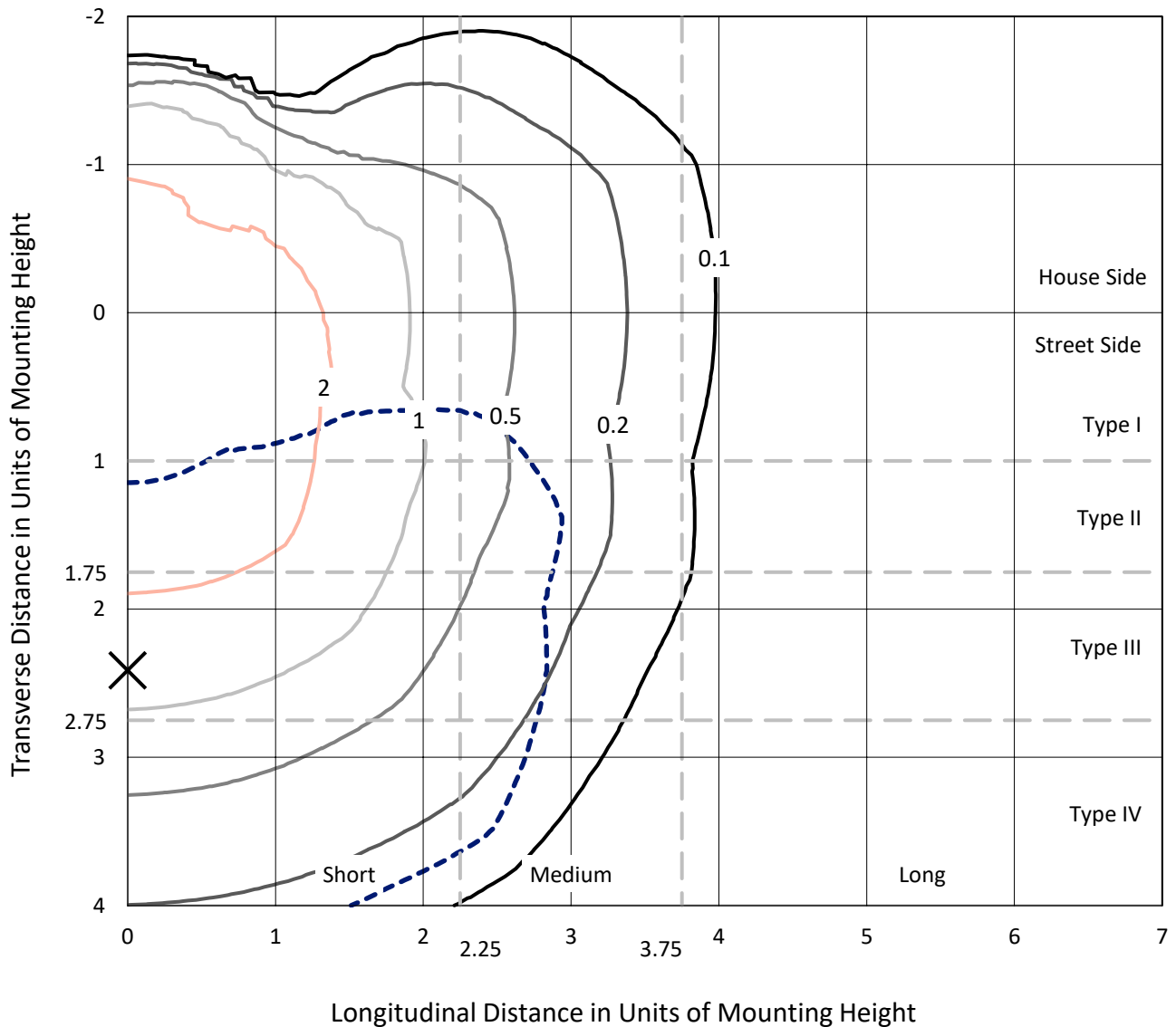
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

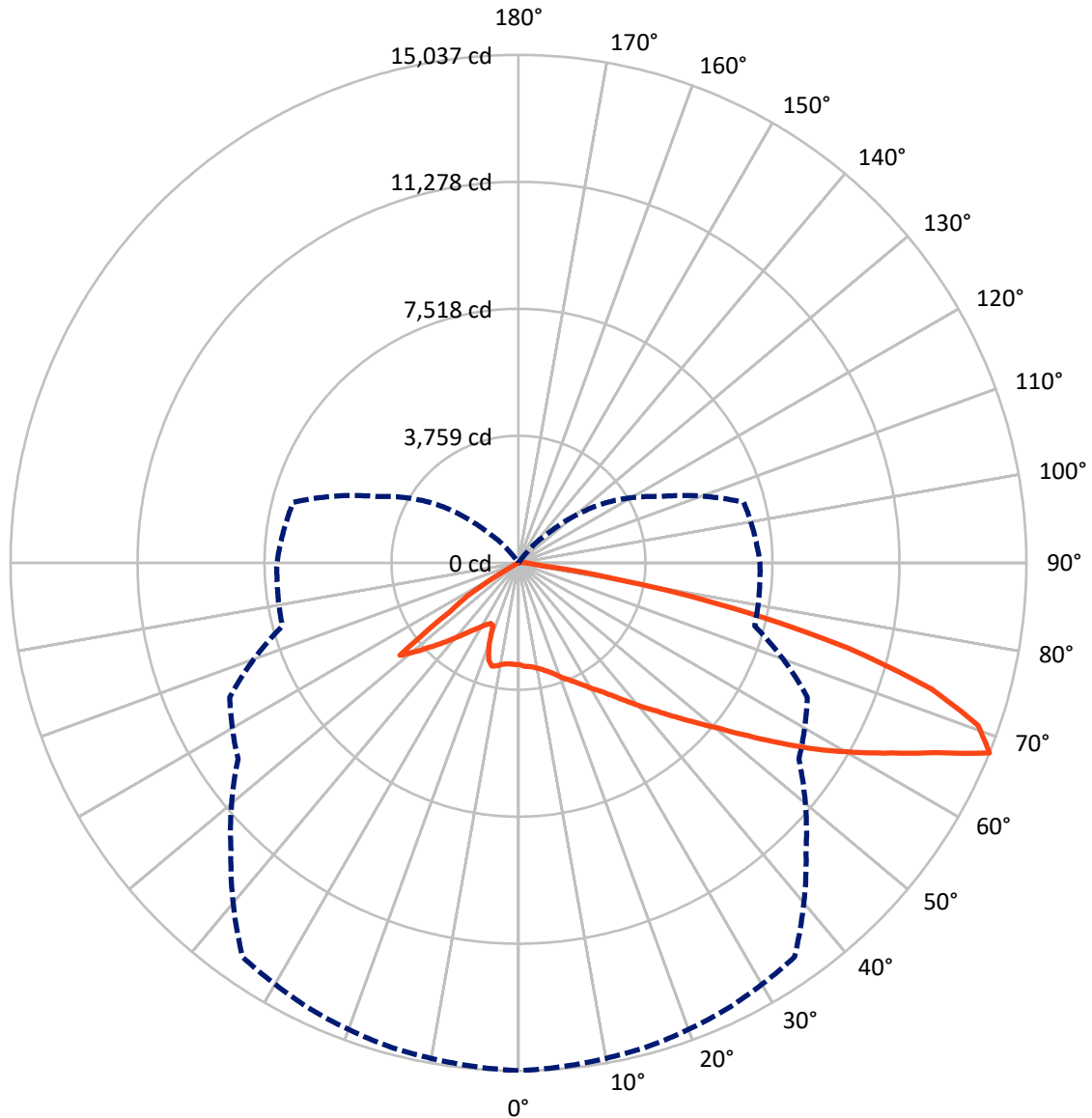
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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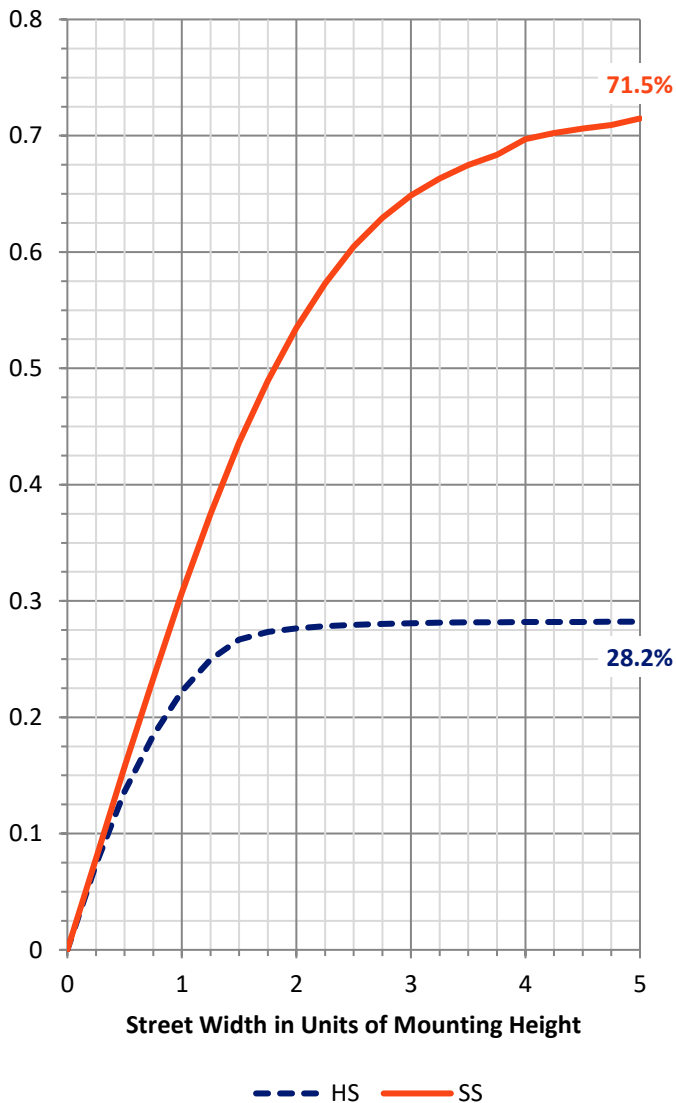
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7244.5 | 0.1 | 7244.6 |
| | % Fixture | 28.3 | 0.0 | 28.3 |
| Street Side | Lumens | 18283.9 | 32.5 | 18316.4 |
| | % Fixture | 71.5 | 0.1 | 71.7 |
| Total | Lumens | 25528.3 | 32.7 | 25561.0 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 290.3 | 1.1 |
| 10°-20° | 893.7 | 3.5 |
| 20°-30° | 1479.9 | 5.8 |
| 30°-40° | 2329.6 | 9.1 |
| 40°-50° | 3645.8 | 14.3 |
| 50°-60° | 5264.0 | 20.6 |
| 60°-70° | 6521.1 | 25.5 |
| 70°-80° | 4749.2 | 18.6 |
| 80°-90° | 354.8 | 1.4 |
| 90°-100° | 27.9 | 0.1 |
| 100°-110° | 4.7 | 0.0 |
| 110°-120° | 0.1 | 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° | 25528.3 | 99.9 |
| 0°-180° | 25561.0 | 100.0 |

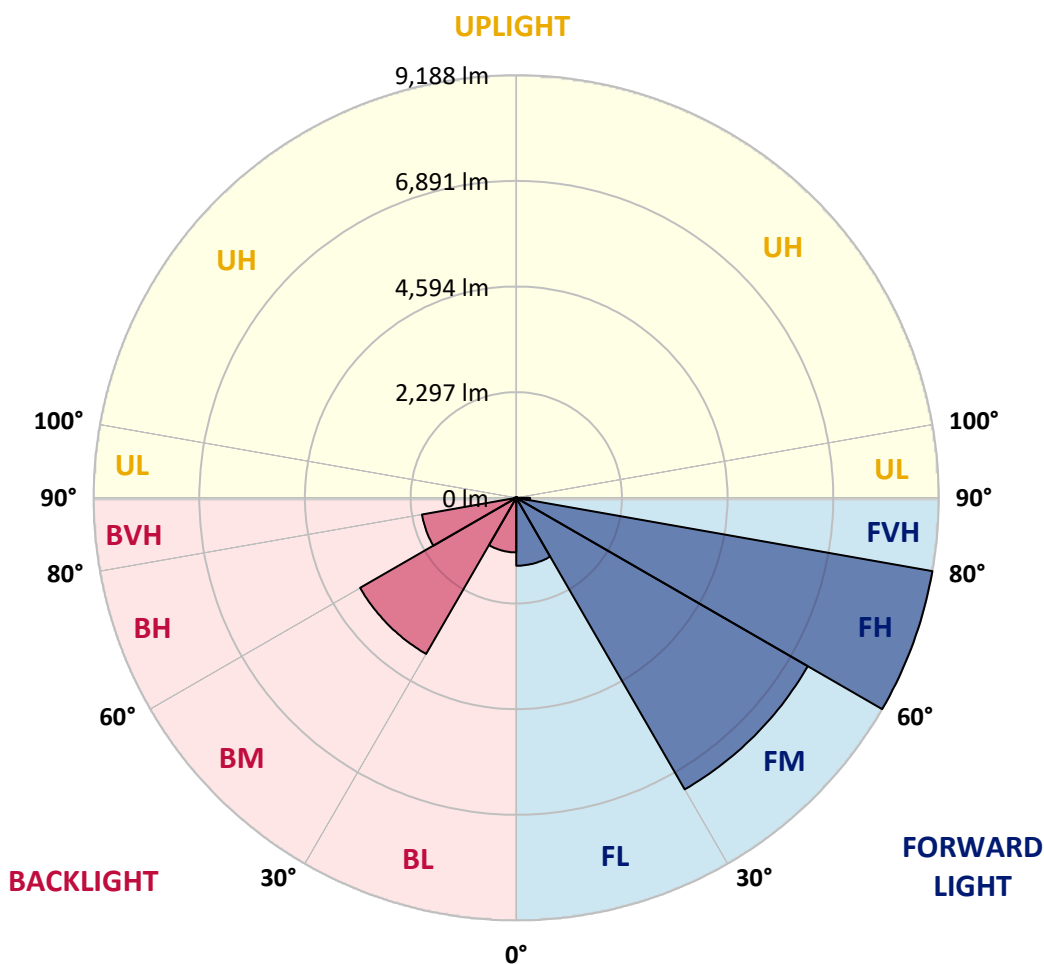


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 1476.3 | 5.8 | | | |
| FM | (30°-60°) | 7319.9 | 28.6 | | | |
| FH | (60°-80°) | 9188.3 | 35.9 | | | G4/12000 |
| FVH | (80°-90°) | 299.3 | 1.2 | | | G3/500 |
| BL | (0°-30°) | 1187.6 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 3919.4 | 15.3 | B3/5000 | | |
| BH | (60°-80°) | 2082.0 | 8.1 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 55.5 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 27.9 | 0.1 | | U2/50 | |
| UH | (100°-180°) | 4.8 | 0.0 | | U1/10 | |

BUG Rating: B3-U2-G4
 Type IV Short





REPORT NUMBER: P579653

CATALOG NUMBER: CTN-CA8-330-727-U-T5-HSS-HM-EX180

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 |
| 2.5° | 3065.5 | 3048.9 | 3048.9 | 3066.8 | 3016.8 | 3032.2 | 3011.7 | 3029.6 | 3019.4 | 3024.5 | 3030.9 |
| 5° | 3083.4 | 3064.2 | 3065.5 | 3087.3 | 3042.5 | 3055.3 | 3030.9 | 3039.9 | 3030.9 | 3034.8 | 3034.8 |
| 7.5° | 3116.8 | 3100.1 | 3100.1 | 3112.9 | 3068.1 | 3071.9 | 3050.1 | 3050.1 | 3038.6 | 3047.6 | 3039.9 |
| 10° | 3179.5 | 3161.6 | 3152.6 | 3159.0 | 3119.3 | 3114.2 | 3084.7 | 3084.7 | 3066.8 | 3080.9 | 3069.4 |
| 12.5° | 3255.1 | 3229.5 | 3226.9 | 3228.2 | 3183.4 | 3174.4 | 3141.1 | 3142.4 | 3109.1 | 3128.3 | 3114.2 |
| 15° | 3346.1 | 3314.0 | 3311.5 | 3316.6 | 3269.2 | 3252.5 | 3215.4 | 3215.4 | 3178.2 | 3188.5 | 3169.3 |
| 17.5° | 3462.6 | 3425.5 | 3419.1 | 3428.0 | 3380.6 | 3365.3 | 3321.7 | 3314.0 | 3273.0 | 3265.4 | 3248.7 |
| 20° | 3616.4 | 3574.1 | 3561.3 | 3580.5 | 3520.3 | 3506.2 | 3453.7 | 3437.0 | 3381.9 | 3291.0 | 3171.8 |
| 22.5° | 3754.7 | 3721.4 | 3713.7 | 3726.5 | 3671.4 | 3657.3 | 3606.1 | 3571.5 | 3438.3 | 3255.1 | 3144.9 |
| 25° | 3912.3 | 3899.5 | 3895.6 | 3887.9 | 3838.0 | 3813.6 | 3765.0 | 3716.3 | 3414.0 | 3162.9 | 3160.3 |
| 27.5° | 4107.0 | 4100.6 | 4082.7 | 4076.2 | 4021.2 | 4005.8 | 3941.7 | 3627.9 | 3326.8 | 3308.9 | 3298.7 |
| 30° | 4319.6 | 4306.8 | 4288.9 | 4290.2 | 4253.0 | 4224.8 | 4072.4 | 3549.7 | 3494.7 | 3494.7 | 3467.8 |
| 32.5° | 4555.4 | 4541.3 | 4523.3 | 4527.2 | 4511.8 | 4487.5 | 4028.8 | 3756.0 | 3713.7 | 3725.2 | 3691.9 |
| 35° | 4847.4 | 4824.4 | 4818.0 | 4833.3 | 4834.6 | 4677.1 | 4105.7 | 4036.5 | 4003.2 | 3995.5 | 3870.0 |
| 37.5° | 5188.2 | 5169.0 | 5192.0 | 5227.9 | 5186.9 | 4725.7 | 4411.9 | 4390.1 | 4356.8 | 4171.0 | 3873.8 |
| 40° | 5596.8 | 5562.2 | 5590.4 | 5613.5 | 5586.6 | 5015.2 | 4733.4 | 4741.1 | 4711.6 | 4160.8 | 3831.6 |
| 42.5° | 6001.6 | 5968.3 | 5992.7 | 6050.3 | 6040.1 | 5373.9 | 5125.4 | 5142.1 | 4844.9 | 4185.1 | 4159.5 |
| 45° | 6502.5 | 6491.0 | 6483.3 | 6530.7 | 6570.4 | 5803.1 | 5590.4 | 5589.1 | 4750.1 | 4572.0 | 4548.9 |
| 47.5° | 7070.0 | 7054.6 | 7058.5 | 7118.7 | 7178.9 | 6315.5 | 6140.0 | 5625.0 | 4994.7 | 5012.7 | 4992.2 |
| 50° | 7702.9 | 7686.2 | 7736.2 | 7823.3 | 7854.0 | 6890.7 | 6675.5 | 5527.7 | 5504.6 | 5523.8 | 5489.2 |
| 52.5° | 8506.1 | 8468.9 | 8545.8 | 8639.3 | 8679.0 | 7570.9 | 6704.9 | 6102.8 | 6064.4 | 6068.3 | 5958.1 |
| 55° | 9419.4 | 9390.0 | 9459.1 | 9564.2 | 9623.1 | 8330.6 | 7317.3 | 6662.7 | 6639.6 | 5986.3 | 5390.6 |
| 57.5° | 10412.2 | 10378.9 | 10471.2 | 10501.9 | 10517.3 | 9115.8 | 7933.4 | 7269.9 | 6202.8 | 5466.2 | 5432.9 |
| 60° | 11385.8 | 11350.0 | 11466.5 | 11471.7 | 11516.5 | 9899.8 | 8518.9 | 7855.3 | 5976.0 | 5878.7 | 5850.5 |
| 62.5° | 12408.1 | 12363.3 | 12465.7 | 12461.9 | 12373.5 | 10617.2 | 9099.2 | 8417.7 | 6380.8 | 6304.0 | 6260.4 |
| 65° | 13543.1 | 13509.8 | 13581.5 | 13466.2 | 13290.7 | 11358.9 | 9701.3 | 9030.0 | 6852.2 | 6838.2 | 6827.9 |
| 67.5° | 15036.8 | 14971.4 | 14826.7 | 14580.7 | 14245.1 | 12039.1 | 10131.7 | 9433.5 | 7235.3 | 7169.9 | 7149.4 |
| 70° | 14436.0 | 14359.1 | 14248.9 | 13978.6 | 13636.6 | 11399.9 | 9439.9 | 8823.8 | 6765.1 | 6767.7 | 6719.0 |
| 72.5° | 12782.1 | 12648.9 | 12545.2 | 12166.0 | 11977.7 | 9956.2 | 8225.5 | 7658.0 | 5851.8 | 5960.6 | 5937.6 |
| 75° | 10083.0 | 9947.2 | 9776.8 | 9628.2 | 9607.7 | 8075.6 | 6631.9 | 6223.3 | 4665.5 | 4744.9 | 4802.6 |
| 77.5° | 6535.8 | 6485.9 | 6701.1 | 6560.2 | 6687.0 | 5561.0 | 4737.3 | 4386.3 | 3215.4 | 3416.5 | 3389.6 |
| 80° | 2991.2 | 2933.6 | 3279.4 | 3182.1 | 3229.5 | 2731.2 | 2314.8 | 2223.9 | 1455.3 | 1465.5 | 1496.2 |
| 82.5° | 676.4 | 653.3 | 677.7 | 622.6 | 607.2 | 513.7 | 452.2 | 409.9 | 257.5 | 272.9 | 287.0 |
| 85° | 370.2 | 370.2 | 365.1 | 339.5 | 290.8 | 239.6 | 189.6 | 146.0 | 79.4 | 87.1 | 85.8 |
| 87.5° | 260.0 | 253.6 | 252.4 | 225.5 | 193.4 | 164.0 | 130.7 | 93.5 | 44.8 | 30.7 | 28.2 |
| 90° | 178.1 | 175.5 | 166.5 | 149.9 | 129.4 | 106.3 | 79.4 | 46.1 | 19.2 | 9.0 | 6.4 |
| 92.5° | 129.4 | 126.8 | 120.4 | 106.3 | 88.4 | 71.7 | 52.5 | 30.7 | 15.4 | 6.4 | 1.3 |
| 95° | 85.8 | 84.5 | 80.7 | 69.2 | 57.6 | 46.1 | 33.3 | 19.2 | 12.8 | 5.1 | 1.3 |
| 97.5° | 58.9 | 57.6 | 53.8 | 46.1 | 37.1 | 29.5 | 20.5 | 14.1 | 10.2 | 3.8 | 1.3 |
| 100° | 39.7 | 38.4 | 35.9 | 29.5 | 23.1 | 17.9 | 12.8 | 10.2 | 7.7 | 3.8 | 1.3 |
| 102.5° | 25.6 | 24.3 | 21.8 | 17.9 | 12.8 | 10.2 | 9.0 | 7.7 | 5.1 | 2.6 | 1.3 |
| 105° | 15.4 | 14.1 | 11.5 | 9.0 | 7.7 | 6.4 | 6.4 | 5.1 | 3.8 | 1.3 | 1.3 |
| 107.5° | 7.7 | 6.4 | 5.1 | 5.1 | 5.1 | 3.8 | 3.8 | 3.8 | 2.6 | 1.3 | 0.0 |
| 110° | 1.3 | 1.3 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 2.6 | 1.3 | 0.0 |



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 CATALOG NUMBER: CTN-CA8-330-727-U-T5-HSS-HM-EX180

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 |



REPORT NUMBER: P579653

CATALOG NUMBER: CTN-CA8-330-727-U-T5-HSS-HM-EX180

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 | 3010.4 |
| 2.5° | 3024.5 | 3004.0 | 3015.6 | 2997.6 | 2993.8 | 2974.6 | 3005.3 | 3009.1 | 3006.6 | 3011.7 |
| 5° | 3028.4 | 3006.6 | 3019.4 | 2997.6 | 2997.6 | 2977.1 | 3006.6 | 3006.6 | 2998.9 | 3001.5 |
| 7.5° | 3038.6 | 3016.8 | 3025.8 | 3001.5 | 3002.7 | 2978.4 | 3014.3 | 3010.4 | 3004.0 | 3013.0 |
| 10° | 3068.1 | 3043.7 | 3042.5 | 3019.4 | 3024.5 | 2998.9 | 3043.7 | 3043.7 | 3037.3 | 3054.0 |
| 12.5° | 3115.5 | 3079.6 | 3073.2 | 3045.0 | 3055.3 | 3033.5 | 3088.6 | 3091.1 | 3092.4 | 3119.3 |
| 15° | 3165.4 | 3121.9 | 3128.3 | 3095.0 | 3091.1 | 3079.6 | 3129.6 | 3127.0 | 3125.7 | 3162.9 |
| 17.5° | 3235.9 | 3030.9 | 2997.6 | 2974.6 | 2969.4 | 2941.3 | 2987.4 | 3075.8 | 3029.6 | 3004.0 |
| 20° | 3124.4 | 3016.8 | 2884.9 | 2840.1 | 2831.1 | 2586.4 | 2393.0 | 2480.1 | 2597.9 | 2608.2 |
| 22.5° | 3023.2 | 2984.8 | 2974.6 | 2904.1 | 2513.4 | 2431.4 | 2439.1 | 2407.1 | 2127.8 | 2006.1 |
| 25° | 3148.8 | 3115.5 | 3071.9 | 2641.5 | 2549.3 | 2519.8 | 2510.8 | 2182.9 | 1962.5 | 1976.6 |
| 27.5° | 3288.4 | 3251.3 | 2872.1 | 2647.9 | 2668.4 | 2627.4 | 2425.0 | 2036.8 | 2024.0 | 2048.4 |
| 30° | 3462.6 | 3165.4 | 2802.9 | 2790.1 | 2809.3 | 2756.8 | 2154.7 | 2126.5 | 2122.7 | 2148.3 |
| 32.5° | 3661.2 | 3052.7 | 2987.4 | 2987.4 | 2978.4 | 2410.9 | 2270.0 | 2250.8 | 2261.0 | 2287.9 |
| 35° | 3586.9 | 3229.5 | 3221.8 | 3253.8 | 3038.6 | 2473.7 | 2454.5 | 2421.2 | 2428.8 | 2437.8 |
| 37.5° | 3504.9 | 3520.3 | 3524.1 | 3507.5 | 2216.2 | 2653.0 | 2637.6 | 2631.2 | 2623.6 | 2626.1 |
| 40° | 3809.8 | 3820.0 | 3816.2 | 3663.8 | 2391.7 | 2687.6 | 2845.2 | 2833.6 | 2832.4 | 2847.7 |
| 42.5° | 4165.9 | 4194.1 | 4172.3 | 3232.0 | 2626.1 | 2259.7 | 3084.7 | 3078.3 | 3075.8 | 3107.8 |
| 45° | 4566.9 | 4593.8 | 4136.5 | 3461.4 | 2875.9 | 2339.2 | 3101.4 | 3339.7 | 3358.9 | 3387.1 |
| 47.5° | 5001.2 | 4996.0 | 3817.5 | 3813.6 | 3169.3 | 2559.5 | 2578.7 | 3652.2 | 3684.3 | 3694.5 |
| 50° | 5500.8 | 4679.6 | 4180.0 | 4039.1 | 3501.1 | 2806.7 | 2733.7 | 3351.2 | 4058.3 | 4068.6 |
| 52.5° | 5394.4 | 4629.7 | 4596.3 | 3543.3 | 3798.3 | 3079.6 | 3007.9 | 2988.7 | 4206.9 | 4454.2 |
| 55° | 5028.1 | 5066.5 | 5019.1 | 3887.9 | 2785.0 | 3323.0 | 3278.2 | 3258.9 | 3129.6 | 2477.5 |
| 57.5° | 5435.4 | 5447.0 | 5406.0 | 4204.4 | 2832.4 | 2071.4 | 3226.9 | 2768.3 | 1798.6 | 1789.6 |
| 60° | 5858.2 | 5877.4 | 4026.3 | 3088.6 | 1815.2 | 693.0 | 165.3 | 174.2 | 497.0 | 436.8 |
| 62.5° | 6261.7 | 6280.9 | 4262.0 | 2822.1 | 1146.5 | 51.2 | 33.3 | 23.1 | 25.6 | 25.6 |
| 65° | 6788.2 | 6795.9 | 4561.8 | 2987.4 | 1191.4 | 12.8 | 3.8 | 0.0 | 0.0 | 0.0 |
| 67.5° | 7061.1 | 6903.5 | 4637.3 | 3063.0 | 1223.4 | 7.7 | 2.6 | 0.0 | 0.0 | 0.0 |
| 70° | 6648.6 | 6479.5 | 4317.1 | 2870.8 | 1140.1 | 6.4 | 1.3 | 0.0 | 0.0 | 0.0 |
| 72.5° | 5858.2 | 5776.2 | 3875.1 | 2545.4 | 1009.5 | 3.8 | 1.3 | 0.0 | 0.0 | 0.0 |
| 75° | 4855.1 | 4746.2 | 3212.8 | 2121.4 | 835.2 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3453.7 | 3466.5 | 2239.2 | 1546.2 | 568.8 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 1511.6 | 1546.2 | 981.3 | 709.7 | 201.1 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 288.2 | 265.2 | 128.1 | 101.2 | 25.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 94.8 | 103.8 | 47.4 | 38.4 | 11.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 33.3 | 42.3 | 14.1 | 11.5 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 5.1 | 5.1 | 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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