

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: P161776

Luminaire Tested: **OVF-E06-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P161776
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: OVF-E06-LED-E-U-RW-7030
Description: OVF LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16460.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (A_{in}): 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

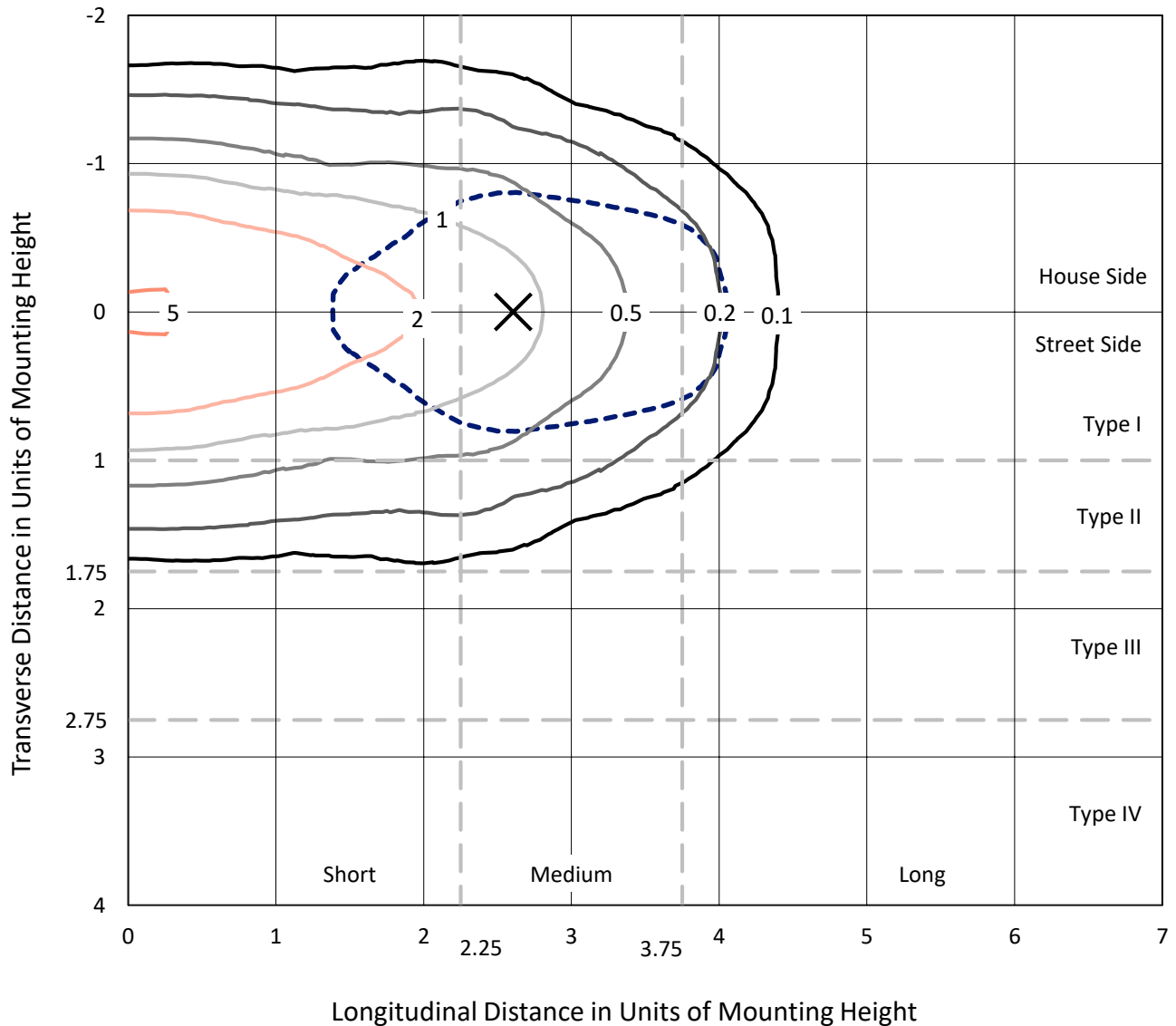


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Iso-Footcandle Lines of Horizontal Illumination

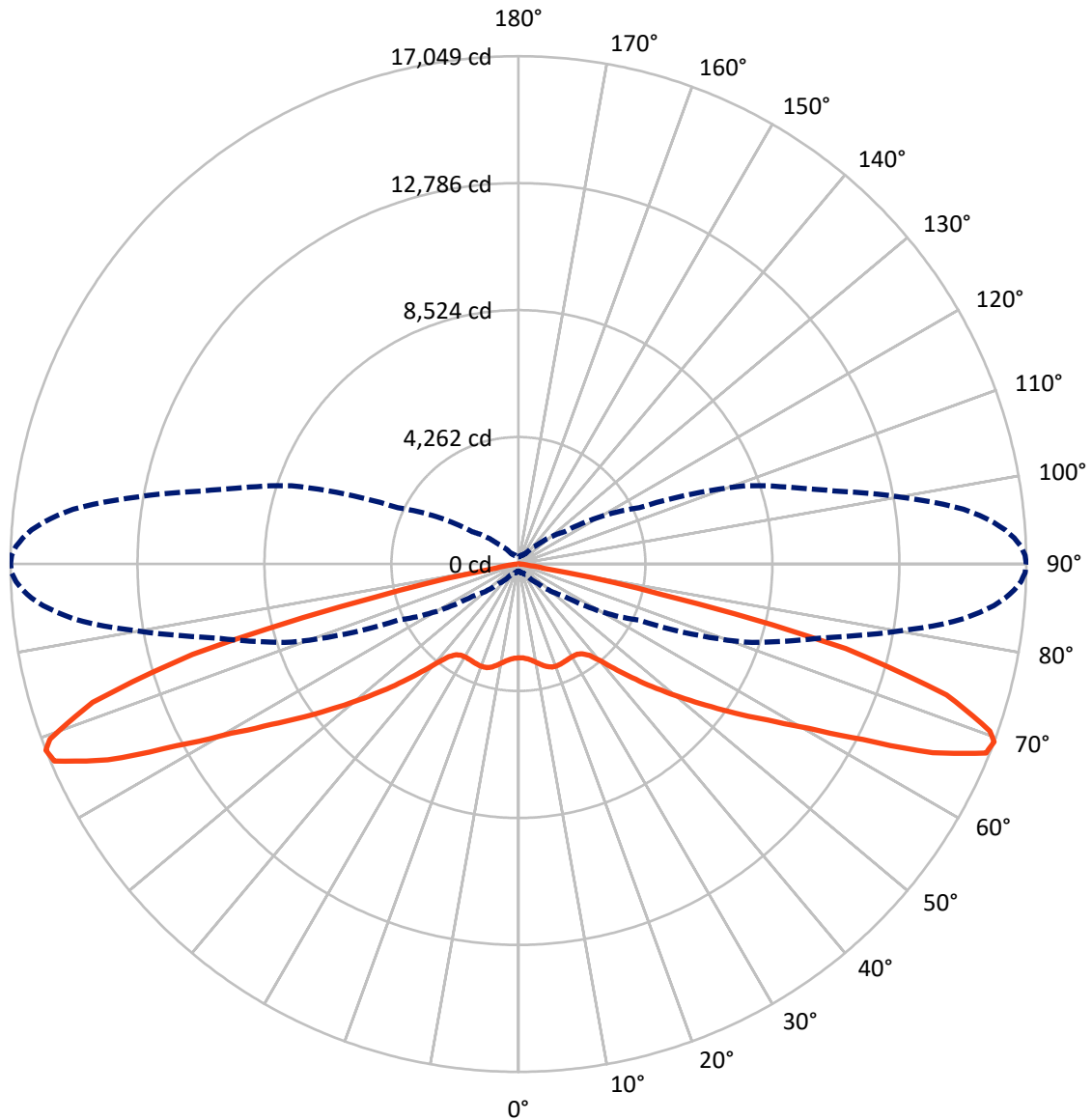
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8230.2 | 0.0 | 8230.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8230.2 | 0.0 | 8230.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16460.4 | 0.0 | 16460.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 308.4 | 1.9 |
| 10°-20° | 971.3 | 5.9 |
| 20°-30° | 1573.1 | 9.6 |
| 30°-40° | 1959.7 | 11.9 |
| 40°-50° | 2439.6 | 14.8 |
| 50°-60° | 2993.5 | 18.2 |
| 60°-70° | 3691.9 | 22.4 |
| 70°-80° | 2295.1 | 13.9 |
| 80°-90° | 228.0 | 1.4 |
| 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° | 16460.4 | 100.0 |
| 0°-180° | 16460.4 | 100.0 |



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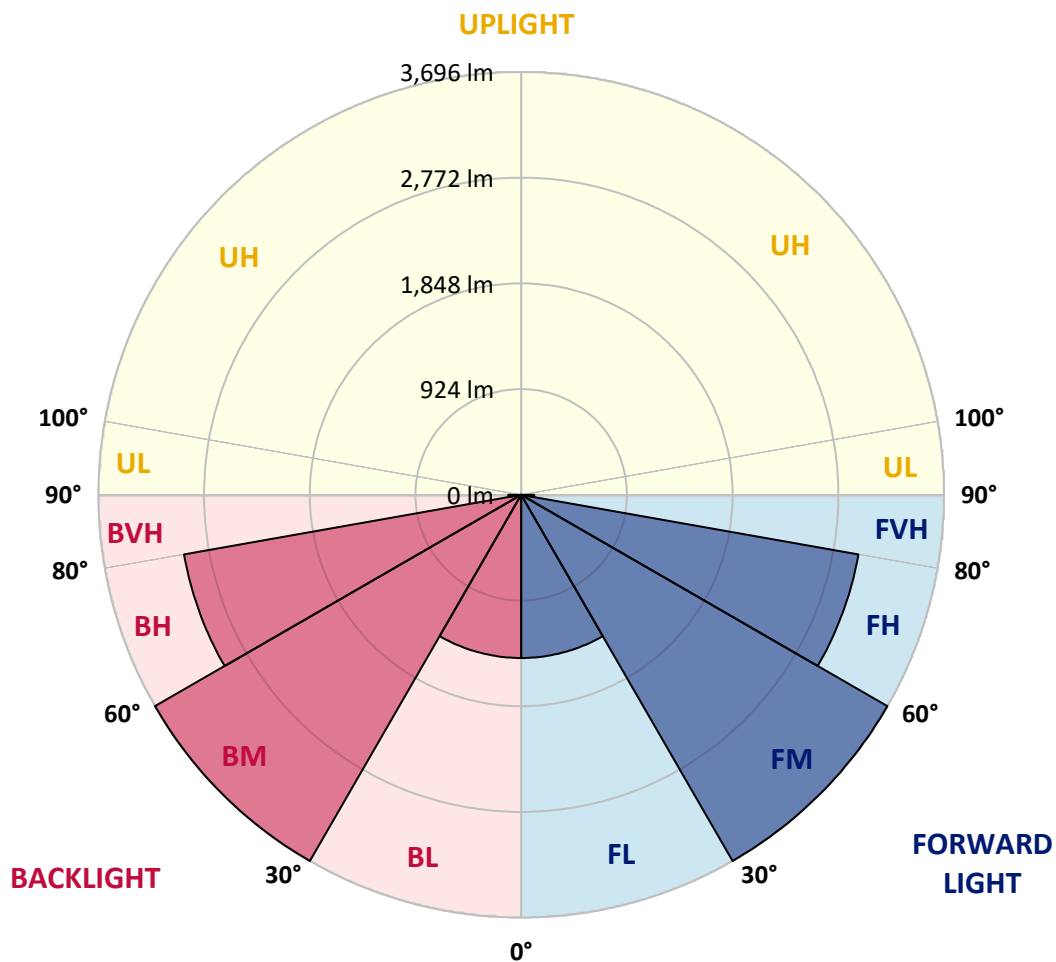
CATALOG NUMBER: OVF-E06-LED-E-U-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1426.4 | 8.7 | | | |
| FM | (30°-60°) | 3696.4 | 22.5 | | | |
| FH | (60°-80°) | 2993.5 | 18.2 | | | G2/5000 |
| FVH | (80°-90°) | 114.0 | 0.7 | | | G2/225 |
| BL | (0°-30°) | 1426.4 | 8.7 | B3/2500 | | |
| BM | (30°-60°) | 3696.4 | 22.5 | B3/5000 | | |
| BH | (60°-80°) | 2993.5 | 18.2 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 114.0 | 0.7 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 |
| 2.5° | 3160.4 | 3157.1 | 3163.1 | 3168.6 | 3167.0 | 3168.0 | 3165.8 | 3163.1 | 3163.3 | 3163.5 | 3163.8 |
| 5° | 3185.0 | 3181.8 | 3187.2 | 3192.2 | 3193.8 | 3197.6 | 3198.8 | 3197.1 | 3197.9 | 3198.6 | 3199.4 |
| 7.5° | 3214.6 | 3211.9 | 3219.0 | 3225.6 | 3238.2 | 3244.8 | 3251.4 | 3257.9 | 3258.4 | 3259.0 | 3259.6 |
| 10° | 3242.6 | 3241.0 | 3252.4 | 3266.7 | 3287.0 | 3302.3 | 3320.9 | 3339.0 | 3340.4 | 3341.9 | 3343.3 |
| 12.5° | 3260.6 | 3260.6 | 3278.2 | 3304.0 | 3339.0 | 3370.2 | 3402.0 | 3432.8 | 3435.6 | 3438.4 | 3441.3 |
| 15° | 3259.5 | 3261.8 | 3288.6 | 3335.8 | 3396.0 | 3451.4 | 3490.2 | 3523.7 | 3526.4 | 3529.2 | 3532.0 |
| 17.5° | 3237.1 | 3237.6 | 3276.0 | 3351.1 | 3445.4 | 3527.6 | 3578.0 | 3596.0 | 3597.0 | 3598.0 | 3599.0 |
| 20° | 3174.1 | 3178.4 | 3232.8 | 3341.8 | 3483.7 | 3597.2 | 3644.8 | 3637.2 | 3635.5 | 3633.8 | 3632.2 |
| 22.5° | 3066.1 | 3071.6 | 3143.9 | 3290.2 | 3490.8 | 3642.1 | 3691.4 | 3656.8 | 3651.6 | 3646.4 | 3641.1 |
| 25° | 2916.0 | 2925.2 | 3003.6 | 3191.0 | 3442.6 | 3655.2 | 3721.6 | 3666.2 | 3658.0 | 3649.8 | 3641.5 |
| 27.5° | 2742.2 | 2746.6 | 2839.2 | 3036.0 | 3330.2 | 3611.4 | 3735.2 | 3685.4 | 3675.1 | 3664.8 | 3654.5 |
| 30° | 2541.1 | 2552.6 | 2649.0 | 2854.6 | 3171.9 | 3509.4 | 3729.8 | 3722.6 | 3711.1 | 3699.6 | 3688.1 |
| 32.5° | 2341.1 | 2351.0 | 2445.8 | 2667.2 | 2989.4 | 3367.6 | 3702.4 | 3779.1 | 3769.5 | 3759.8 | 3750.2 |
| 35° | 2139.4 | 2151.5 | 2249.0 | 2486.8 | 2808.0 | 3206.4 | 3659.0 | 3859.6 | 3855.5 | 3851.3 | 3847.1 |
| 37.5° | 1962.4 | 1970.1 | 2066.0 | 2313.1 | 2649.0 | 3059.0 | 3602.6 | 3967.6 | 3977.0 | 3986.4 | 3995.9 |
| 40° | 1782.2 | 1789.8 | 1890.1 | 2143.3 | 2502.8 | 2933.0 | 3550.6 | 4103.5 | 4129.3 | 4155.0 | 4180.8 |
| 42.5° | 1609.0 | 1615.5 | 1712.5 | 1965.2 | 2340.0 | 2823.9 | 3519.4 | 4267.9 | 4317.3 | 4366.8 | 4416.2 |
| 45° | 1431.4 | 1435.8 | 1526.8 | 1772.8 | 2154.2 | 2696.8 | 3511.1 | 4452.6 | 4523.9 | 4595.3 | 4666.6 |
| 47.5° | 1256.6 | 1267.0 | 1360.7 | 1594.2 | 1942.2 | 2514.8 | 3499.0 | 4657.0 | 4751.6 | 4846.2 | 4940.7 |
| 50° | 1089.4 | 1100.9 | 1197.4 | 1418.8 | 1737.2 | 2298.9 | 3437.7 | 4888.8 | 5004.1 | 5119.4 | 5234.7 |
| 52.5° | 919.0 | 930.6 | 1026.9 | 1238.5 | 1547.0 | 2055.6 | 3266.7 | 5132.1 | 5269.2 | 5406.3 | 5543.5 |
| 55° | 737.0 | 741.4 | 840.6 | 1052.8 | 1356.8 | 1851.8 | 2994.4 | 5355.2 | 5521.2 | 5687.2 | 5853.3 |
| 57.5° | 536.0 | 550.8 | 648.8 | 846.1 | 1162.8 | 1671.4 | 2648.0 | 5469.2 | 5676.4 | 5883.6 | 6090.9 |
| 60° | 386.9 | 396.8 | 482.8 | 637.8 | 943.1 | 1494.4 | 2340.6 | 5385.8 | 5662.5 | 5939.1 | 6215.8 |
| 62.5° | 305.8 | 316.8 | 383.0 | 480.6 | 729.4 | 1299.9 | 2140.0 | 5157.4 | 5545.4 | 5933.5 | 6321.6 |
| 65° | 270.7 | 280.6 | 342.0 | 390.2 | 557.9 | 1099.8 | 2014.0 | 4931.0 | 5454.8 | 5978.6 | 6502.4 |
| 67.5° | 247.2 | 257.5 | 311.2 | 344.2 | 460.8 | 971.0 | 1954.2 | 4760.0 | 5364.9 | 5969.8 | 6574.7 |
| 69° | 236.2 | 245.5 | 294.8 | 325.5 | 434.6 | 927.2 | 1890.1 | 4470.6 | 5070.4 | 5670.1 | 6269.9 |
| 70° | 230.2 | 238.4 | 283.4 | 314.0 | 424.2 | 891.1 | 1795.3 | 4126.5 | 4705.2 | 5283.9 | 5862.6 |
| 72.5° | 213.2 | 218.6 | 256.5 | 285.0 | 388.0 | 711.3 | 1354.1 | 2911.5 | 3402.1 | 3892.7 | 4383.3 |
| 75° | 189.0 | 195.6 | 229.1 | 255.4 | 296.0 | 427.4 | 847.8 | 1690.1 | 2026.2 | 2362.4 | 2698.5 |
| 77.5° | 162.2 | 169.9 | 197.3 | 238.9 | 238.4 | 278.4 | 514.6 | 970.6 | 1133.8 | 1297.2 | 1460.5 |
| 80° | 139.2 | 145.8 | 170.4 | 236.2 | 199.5 | 220.3 | 383.6 | 723.9 | 789.7 | 855.4 | 921.2 |
| 82.5° | 109.0 | 114.6 | 143.0 | 195.1 | 159.4 | 167.7 | 292.1 | 659.2 | 703.9 | 748.5 | 793.1 |
| 85° | 68.5 | 70.6 | 104.1 | 134.8 | 113.4 | 101.4 | 188.0 | 507.4 | 539.9 | 572.4 | 604.8 |
| 87.5° | 27.4 | 33.4 | 50.4 | 48.2 | 48.8 | 40.6 | 60.8 | 183.0 | 199.7 | 216.4 | 233.0 |
| 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: OVF-E06-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 |
| 2.5° | 3164.0 | 3164.2 | 3163.1 | 3161.5 | 3163.2 | 3161.5 | 3162.0 | 3163.7 | 3163.2 | 3163.1 | 3162.0 |
| 5° | 3200.2 | 3201.0 | 3201.0 | 3197.6 | 3199.3 | 3199.8 | 3200.4 | 3199.3 | 3199.8 | 3201.0 | 3198.8 |
| 7.5° | 3260.1 | 3260.6 | 3262.3 | 3264.0 | 3262.9 | 3263.4 | 3264.4 | 3263.4 | 3261.8 | 3265.6 | 3262.8 |
| 10° | 3344.7 | 3346.2 | 3346.2 | 3351.1 | 3348.8 | 3350.5 | 3355.4 | 3355.4 | 3352.7 | 3356.6 | 3355.4 |
| 12.5° | 3444.2 | 3447.0 | 3446.4 | 3445.9 | 3448.1 | 3449.8 | 3455.2 | 3456.3 | 3457.4 | 3463.4 | 3461.2 |
| 15° | 3534.7 | 3537.4 | 3539.6 | 3540.6 | 3544.5 | 3545.6 | 3548.9 | 3551.1 | 3552.8 | 3554.9 | 3556.0 |
| 17.5° | 3600.0 | 3601.0 | 3604.2 | 3602.6 | 3608.1 | 3607.0 | 3610.8 | 3612.4 | 3614.1 | 3616.8 | 3618.5 |
| 20° | 3630.6 | 3628.9 | 3629.4 | 3627.8 | 3627.8 | 3629.0 | 3629.5 | 3631.6 | 3630.6 | 3633.3 | 3635.5 |
| 22.5° | 3635.8 | 3630.6 | 3627.3 | 3623.4 | 3621.8 | 3618.5 | 3618.5 | 3619.6 | 3615.8 | 3618.5 | 3621.8 |
| 25° | 3633.3 | 3625.1 | 3619.0 | 3612.5 | 3606.4 | 3601.0 | 3597.7 | 3596.6 | 3593.8 | 3593.8 | 3596.6 |
| 27.5° | 3644.2 | 3633.8 | 3625.1 | 3614.2 | 3606.4 | 3598.8 | 3591.6 | 3586.2 | 3580.7 | 3579.6 | 3579.6 |
| 30° | 3676.6 | 3665.0 | 3655.2 | 3641.5 | 3629.4 | 3619.6 | 3609.8 | 3602.0 | 3591.6 | 3587.3 | 3582.4 |
| 32.5° | 3740.5 | 3730.9 | 3717.2 | 3705.1 | 3690.8 | 3678.8 | 3665.6 | 3653.6 | 3641.6 | 3630.6 | 3626.2 |
| 35° | 3843.0 | 3838.8 | 3831.2 | 3823.0 | 3809.2 | 3793.8 | 3782.9 | 3768.6 | 3755.0 | 3739.1 | 3734.6 |
| 37.5° | 4005.3 | 4014.7 | 4010.4 | 4004.3 | 4000.4 | 3995.6 | 3980.8 | 3971.4 | 3962.1 | 3949.0 | 3946.2 |
| 40° | 4206.5 | 4232.3 | 4258.0 | 4275.0 | 4269.0 | 4289.3 | 4292.5 | 4294.2 | 4286.0 | 4296.9 | 4299.2 |
| 42.5° | 4465.6 | 4515.0 | 4561.6 | 4595.6 | 4635.0 | 4664.6 | 4703.0 | 4719.5 | 4750.7 | 4783.0 | 4801.7 |
| 45° | 4738.0 | 4809.3 | 4876.2 | 4945.8 | 5014.3 | 5089.4 | 5162.3 | 5213.8 | 5288.8 | 5344.8 | 5379.8 |
| 47.5° | 5035.3 | 5129.9 | 5209.9 | 5314.0 | 5413.2 | 5502.0 | 5629.7 | 5732.2 | 5823.7 | 5910.8 | 6002.4 |
| 50° | 5350.0 | 5465.3 | 5564.0 | 5691.1 | 5811.6 | 5950.8 | 6100.4 | 6230.8 | 6374.5 | 6513.1 | 6636.4 |
| 52.5° | 5680.6 | 5817.7 | 5950.8 | 6081.3 | 6227.6 | 6378.8 | 6541.0 | 6729.6 | 6901.6 | 7110.4 | 7260.0 |
| 55° | 6019.3 | 6185.4 | 6327.3 | 6463.8 | 6618.9 | 6786.6 | 6979.5 | 7202.4 | 7421.2 | 7649.6 | 7876.6 |
| 57.5° | 6298.2 | 6505.4 | 6660.5 | 6820.0 | 6987.2 | 7153.2 | 7392.6 | 7621.2 | 7898.5 | 8179.0 | 8463.0 |
| 60° | 6492.4 | 6769.0 | 6957.0 | 7158.6 | 7352.1 | 7553.8 | 7811.9 | 8100.7 | 8447.6 | 8787.4 | 9173.2 |
| 62.5° | 6709.7 | 7097.8 | 7361.4 | 7630.5 | 7865.6 | 8107.8 | 8453.1 | 8785.7 | 9231.2 | 9622.5 | 10108.0 |
| 65° | 7026.2 | 7550.0 | 7938.0 | 8300.7 | 8616.4 | 8946.2 | 9355.6 | 9771.6 | 10281.2 | 10822.1 | 11430.9 |
| 67.5° | 7179.6 | 7784.5 | 8292.4 | 8740.2 | 9143.6 | 9563.9 | 9986.4 | 10478.5 | 11052.8 | 11703.8 | 12372.4 |
| 69° | 6869.6 | 7469.4 | 8053.6 | 8506.2 | 8931.0 | 9379.8 | 9831.8 | 10328.4 | 10893.9 | 11569.6 | 12278.2 |
| 70° | 6441.3 | 7020.0 | 7640.9 | 8094.6 | 8523.2 | 8989.0 | 9449.4 | 9950.8 | 10491.7 | 11187.6 | 11904.4 |
| 72.5° | 4873.9 | 5364.4 | 5967.3 | 6446.8 | 6897.2 | 7368.0 | 7842.0 | 8277.2 | 8825.7 | 9495.4 | 10155.7 |
| 75° | 3034.7 | 3370.8 | 3912.8 | 4394.5 | 4756.8 | 5160.0 | 5605.0 | 6017.2 | 6567.9 | 7042.5 | 7677.6 |
| 77.5° | 1623.8 | 1787.0 | 2103.2 | 2448.5 | 2650.2 | 2846.9 | 3136.8 | 3360.4 | 3592.2 | 3866.8 | 4129.2 |
| 80° | 986.9 | 1052.7 | 1160.7 | 1235.2 | 1207.3 | 1126.7 | 1100.9 | 1020.4 | 1049.4 | 1000.2 | 964.5 |
| 82.5° | 837.7 | 882.3 | 948.0 | 993.0 | 960.2 | 831.3 | 685.6 | 577.0 | 500.3 | 426.9 | 362.8 |
| 85° | 637.2 | 669.7 | 703.6 | 723.9 | 722.3 | 658.2 | 522.8 | 405.0 | 315.6 | 244.4 | 203.3 |
| 87.5° | 249.6 | 266.3 | 291.0 | 287.2 | 299.8 | 302.0 | 236.2 | 182.5 | 129.9 | 87.6 | 76.7 |
| 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: OVF-E06-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 | 3152.2 |
| 2.5° | 3159.9 | 3159.3 | 3159.8 | 3161.4 | 3161.4 | 3162.5 | 3161.4 | 3162.0 | 3160.4 | 3158.7 | 3159.8 |
| 5° | 3198.7 | 3197.6 | 3198.7 | 3199.8 | 3199.8 | 3198.8 | 3201.5 | 3201.5 | 3200.4 | 3198.8 | 3199.3 |
| 7.5° | 3265.6 | 3266.1 | 3264.5 | 3270.0 | 3265.0 | 3265.6 | 3268.9 | 3268.3 | 3267.2 | 3267.8 | 3268.3 |
| 10° | 3358.8 | 3358.2 | 3359.4 | 3362.6 | 3357.7 | 3361.0 | 3364.8 | 3365.9 | 3363.2 | 3363.2 | 3363.7 |
| 12.5° | 3461.8 | 3466.2 | 3466.8 | 3469.0 | 3469.0 | 3471.6 | 3472.2 | 3472.8 | 3475.0 | 3475.5 | 3472.2 |
| 15° | 3560.4 | 3563.7 | 3565.9 | 3568.1 | 3565.4 | 3569.2 | 3573.6 | 3573.6 | 3573.0 | 3575.2 | 3571.9 |
| 17.5° | 3621.2 | 3624.0 | 3627.8 | 3627.2 | 3627.8 | 3631.1 | 3633.8 | 3635.0 | 3636.0 | 3636.0 | 3636.6 |
| 20° | 3640.4 | 3642.1 | 3644.2 | 3646.4 | 3647.6 | 3650.8 | 3653.0 | 3654.7 | 3655.8 | 3654.6 | 3655.2 |
| 22.5° | 3625.1 | 3627.3 | 3631.6 | 3633.3 | 3633.8 | 3638.8 | 3641.0 | 3642.6 | 3643.7 | 3644.8 | 3643.2 |
| 25° | 3598.8 | 3601.0 | 3605.4 | 3607.0 | 3608.1 | 3612.5 | 3615.2 | 3619.0 | 3620.2 | 3620.7 | 3621.3 |
| 27.5° | 3580.7 | 3581.8 | 3585.0 | 3587.3 | 3587.8 | 3592.8 | 3596.6 | 3599.4 | 3599.9 | 3600.4 | 3600.4 |
| 30° | 3581.2 | 3581.2 | 3585.1 | 3585.6 | 3585.1 | 3589.4 | 3591.6 | 3593.3 | 3594.4 | 3594.4 | 3594.9 |
| 32.5° | 3619.0 | 3616.9 | 3620.2 | 3615.2 | 3615.8 | 3615.2 | 3614.6 | 3616.3 | 3615.2 | 3615.8 | 3613.6 |
| 35° | 3725.9 | 3719.9 | 3715.0 | 3717.2 | 3709.5 | 3698.6 | 3704.6 | 3701.8 | 3695.8 | 3696.4 | 3698.0 |
| 37.5° | 3930.9 | 3924.8 | 3930.4 | 3925.4 | 3927.0 | 3911.7 | 3915.6 | 3901.8 | 3898.0 | 3903.0 | 3888.7 |
| 40° | 4294.8 | 4292.0 | 4302.4 | 4298.0 | 4300.8 | 4305.2 | 4309.0 | 4295.8 | 4273.9 | 4293.6 | 4294.2 |
| 42.5° | 4799.0 | 4823.6 | 4833.4 | 4847.2 | 4862.0 | 4855.4 | 4868.5 | 4872.4 | 4848.2 | 4866.3 | 4870.7 |
| 45° | 5431.4 | 5457.6 | 5488.4 | 5497.6 | 5521.8 | 5525.0 | 5534.9 | 5537.7 | 5515.7 | 5518.0 | 5522.8 |
| 47.5° | 6093.9 | 6142.1 | 6178.2 | 6203.4 | 6228.7 | 6233.6 | 6239.1 | 6228.6 | 6230.3 | 6235.2 | 6235.3 |
| 50° | 6744.9 | 6848.0 | 6912.0 | 6961.9 | 7005.2 | 6982.7 | 7001.9 | 7003.6 | 7010.2 | 6996.4 | 7004.7 |
| 52.5° | 7429.4 | 7565.8 | 7673.2 | 7757.1 | 7783.4 | 7863.4 | 7830.5 | 7855.7 | 7872.8 | 7847.5 | 7863.9 |
| 55° | 8098.0 | 8292.5 | 8465.2 | 8586.8 | 8672.2 | 8753.4 | 8766.0 | 8831.2 | 8823.5 | 8848.2 | 8837.2 |
| 57.5° | 8733.6 | 9005.4 | 9252.0 | 9432.3 | 9555.1 | 9679.0 | 9762.8 | 9834.0 | 9841.2 | 9911.8 | 9871.9 |
| 60° | 9502.5 | 9881.2 | 10198.4 | 10467.0 | 10648.4 | 10832.6 | 10977.8 | 11094.4 | 11121.4 | 11242.4 | 11202.4 |
| 62.5° | 10539.9 | 11001.8 | 11407.4 | 11722.5 | 12126.4 | 12320.9 | 12603.7 | 12780.2 | 12890.3 | 12920.4 | 12976.9 |
| 65° | 11998.2 | 12599.8 | 13134.7 | 13638.9 | 14093.2 | 14408.2 | 14735.4 | 14998.5 | 15209.4 | 15191.9 | 15278.5 |
| 67.5° | 13081.6 | 13767.6 | 14411.6 | 15016.0 | 15504.8 | 15910.4 | 16286.3 | 16570.8 | 16759.2 | 16879.2 | 16930.2 |
| 69° | 12968.7 | 13705.2 | 14415.4 | 15061.0 | 15565.2 | 16018.3 | 16384.4 | 16664.4 | 16880.4 | 17010.8 | 17048.6 |
| 70° | 12593.3 | 13350.1 | 14090.4 | 14724.0 | 15238.0 | 15735.6 | 16108.2 | 16420.0 | 16625.6 | 16768.0 | 16789.9 |
| 72.5° | 10892.8 | 11712.7 | 12367.5 | 13058.5 | 13553.4 | 14057.0 | 14291.6 | 14677.9 | 14945.9 | 15032.4 | 15030.8 |
| 75° | 8215.8 | 8899.6 | 9475.1 | 9985.8 | 10428.7 | 10770.0 | 10880.7 | 11155.8 | 11378.3 | 11375.6 | 11354.8 |
| 77.5° | 4424.0 | 4585.2 | 4800.6 | 4872.9 | 5009.4 | 5007.2 | 4870.2 | 4913.4 | 5039.5 | 4795.0 | 4874.0 |
| 80° | 949.2 | 934.9 | 922.8 | 915.8 | 911.9 | 913.5 | 918.5 | 887.2 | 918.0 | 904.2 | 846.1 |
| 82.5° | 330.5 | 322.8 | 315.1 | 320.6 | 316.8 | 320.0 | 319.0 | 322.8 | 322.2 | 321.1 | 313.5 |
| 85° | 185.8 | 179.2 | 175.4 | 178.1 | 172.0 | 166.6 | 162.8 | 161.1 | 160.6 | 156.7 | 154.5 |
| 87.5° | 70.7 | 70.2 | 69.6 | 66.8 | 60.3 | 55.4 | 52.0 | 45.4 | 42.7 | 39.0 | 36.2 |
| 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)