

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: P144768

Luminaire Tested: **OVH-E04-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144768
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: OVH-E04-LED-E-U-RW-8030
Description: OVH LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10140.3 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 97.2
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

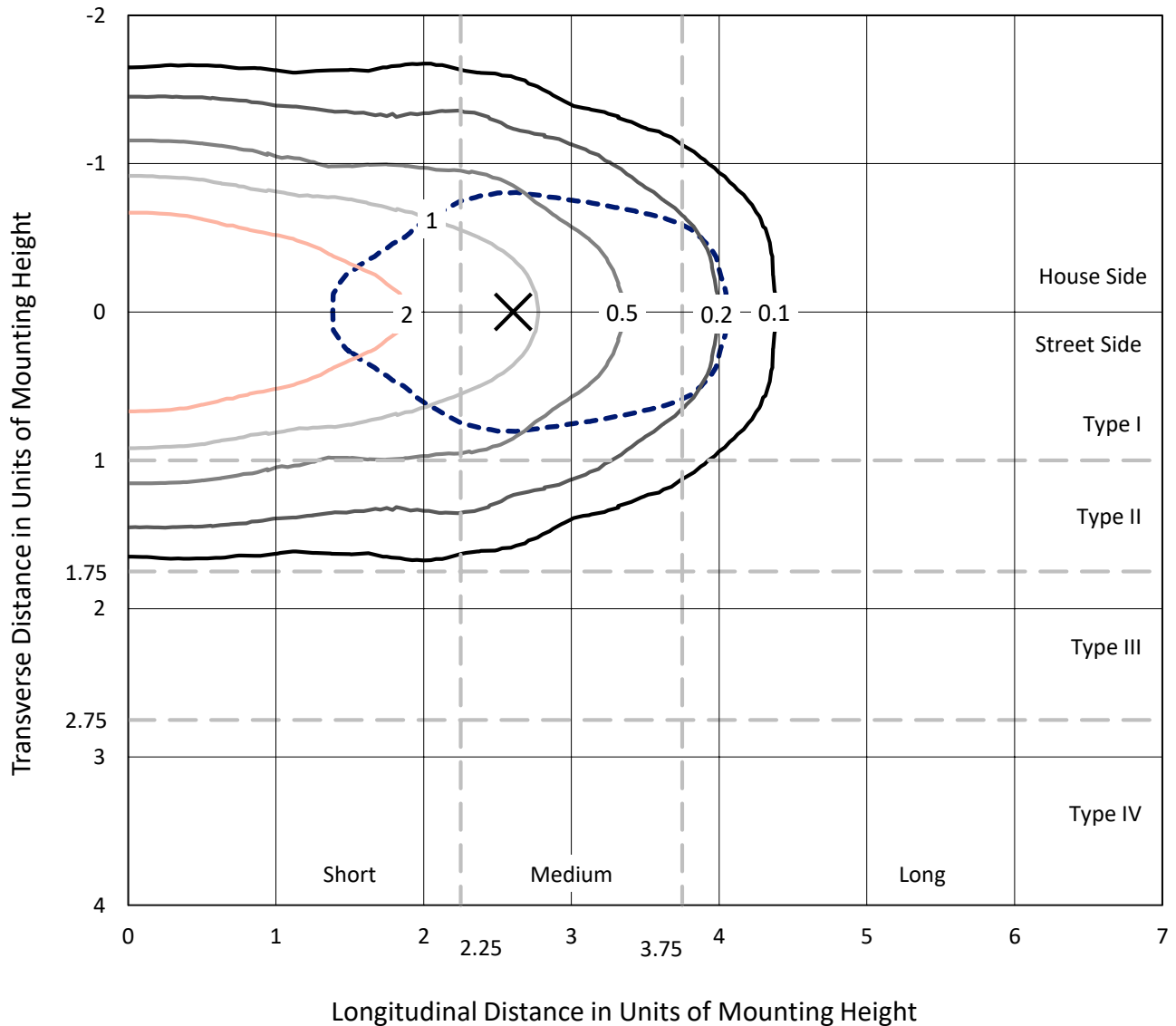


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

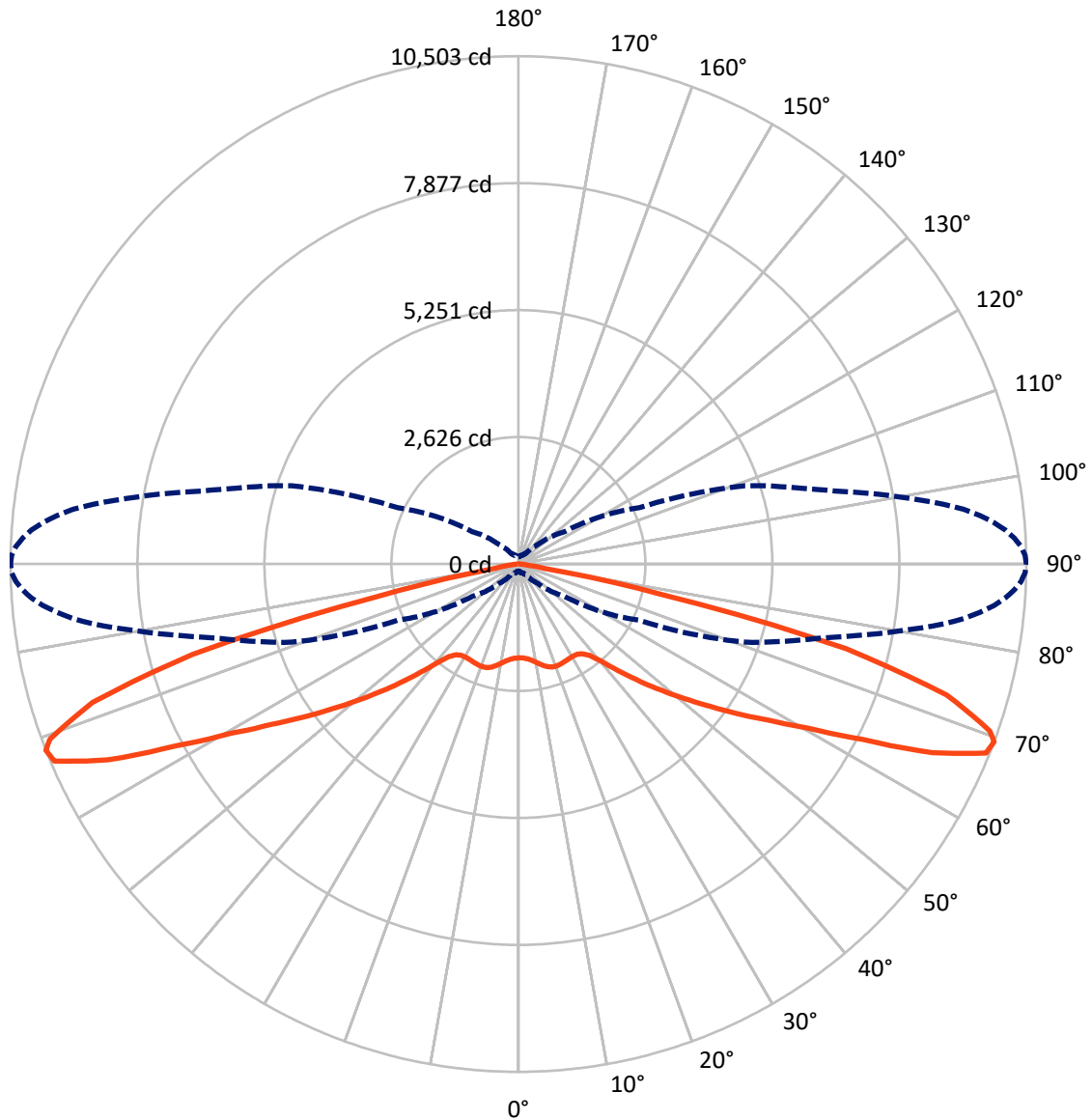


Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type V - Medium - Full Cutoff

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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 | 5070.1 | 0.0 | 5070.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5070.1 | 0.0 | 5070.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10140.3 | 0.0 | 10140.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 190.0 | 1.9 |
| 10°-20° | 598.4 | 5.9 |
| 20°-30° | 969.1 | 9.6 |
| 30°-40° | 1207.2 | 11.9 |
| 40°-50° | 1502.9 | 14.8 |
| 50°-60° | 1844.1 | 18.2 |
| 60°-70° | 2274.3 | 22.4 |
| 70°-80° | 1413.9 | 13.9 |
| 80°-90° | 140.4 | 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° | 10140.3 | 100.0 |
| 0°-180° | 10140.3 | 100.0 |



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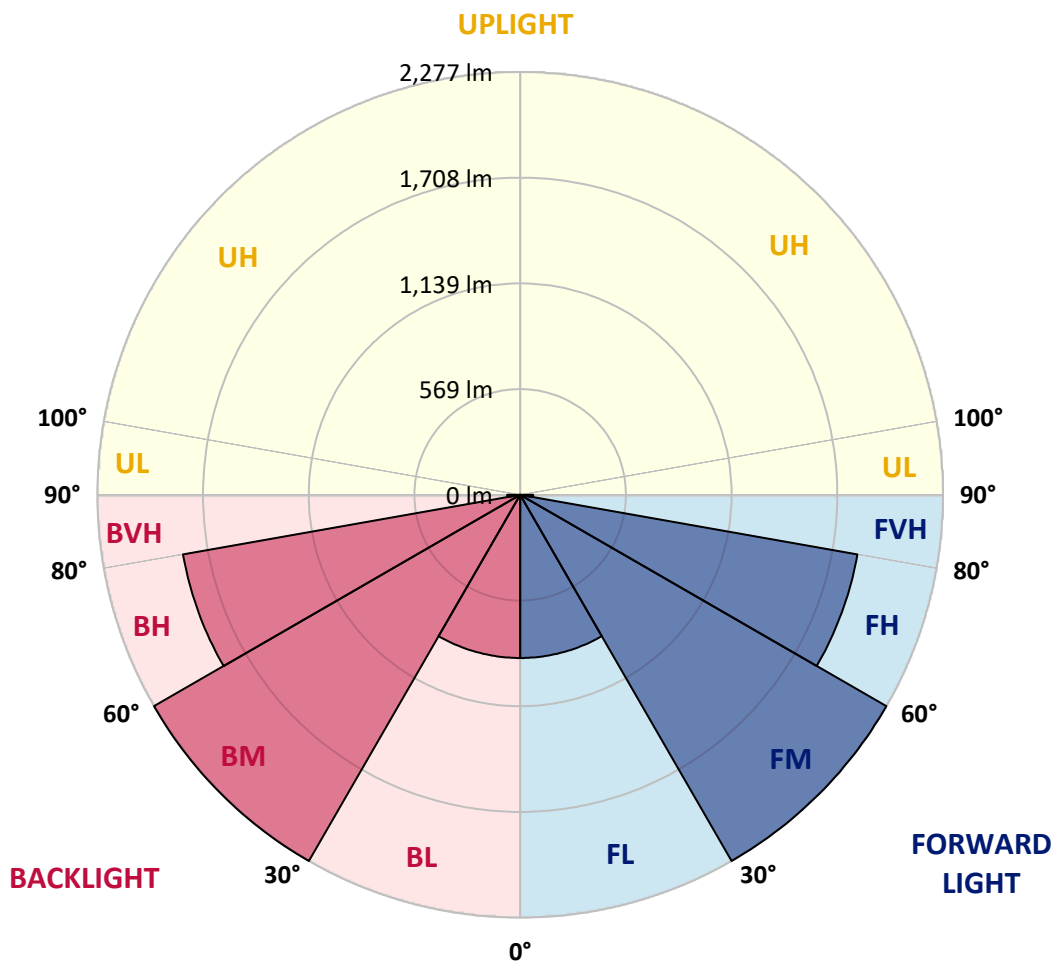
CATALOG NUMBER: OVH-E04-LED-E-U-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 878.7 | 8.7 | | | |
| FM | (30°-60°) | 2277.1 | 22.5 | | | |
| FH | (60°-80°) | 1844.1 | 18.2 | | | G2/5000 |
| FVH | (80°-90°) | 70.2 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 878.7 | 8.7 | B2/1000 | | |
| BM | (30°-60°) | 2277.1 | 22.5 | B2/2500 | | |
| BH | (60°-80°) | 1844.1 | 18.2 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 70.2 | 0.7 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 |
| 2.5° | 1946.9 | 1944.9 | 1948.6 | 1952.0 | 1951.0 | 1951.6 | 1950.3 | 1948.6 | 1948.7 | 1948.9 | 1949.0 |
| 5° | 1962.1 | 1960.1 | 1963.4 | 1966.5 | 1967.5 | 1969.9 | 1970.6 | 1969.6 | 1970.0 | 1970.5 | 1971.0 |
| 7.5° | 1980.4 | 1978.6 | 1983.0 | 1987.1 | 1994.8 | 1999.0 | 2003.0 | 2007.0 | 2007.3 | 2007.7 | 2008.0 |
| 10° | 1997.6 | 1996.6 | 2003.6 | 2012.4 | 2024.9 | 2034.4 | 2045.8 | 2057.0 | 2057.9 | 2058.7 | 2059.6 |
| 12.5° | 2008.7 | 2008.7 | 2019.5 | 2035.4 | 2057.0 | 2076.2 | 2095.8 | 2114.7 | 2116.5 | 2118.2 | 2120.0 |
| 15° | 2008.0 | 2009.4 | 2025.9 | 2055.0 | 2092.1 | 2126.2 | 2150.1 | 2170.8 | 2172.4 | 2174.1 | 2175.8 |
| 17.5° | 1994.2 | 1994.5 | 2018.2 | 2064.4 | 2122.4 | 2173.1 | 2204.2 | 2215.3 | 2215.9 | 2216.5 | 2217.1 |
| 20° | 1955.4 | 1958.0 | 1991.5 | 2058.6 | 2146.1 | 2216.0 | 2245.4 | 2240.6 | 2239.6 | 2238.6 | 2237.6 |
| 22.5° | 1888.8 | 1892.2 | 1936.8 | 2026.9 | 2150.5 | 2243.6 | 2274.0 | 2252.8 | 2249.5 | 2246.3 | 2243.1 |
| 25° | 1796.4 | 1802.1 | 1850.4 | 1965.8 | 2120.8 | 2251.8 | 2292.6 | 2258.6 | 2253.5 | 2248.4 | 2243.3 |
| 27.5° | 1689.3 | 1692.0 | 1749.1 | 1870.3 | 2051.6 | 2224.8 | 2301.0 | 2270.4 | 2264.0 | 2257.6 | 2251.3 |
| 30° | 1565.4 | 1572.5 | 1632.0 | 1758.5 | 1954.0 | 2162.0 | 2297.7 | 2293.2 | 2286.2 | 2279.1 | 2272.0 |
| 32.5° | 1442.2 | 1448.3 | 1506.7 | 1643.1 | 1841.6 | 2074.5 | 2280.8 | 2328.1 | 2322.2 | 2316.2 | 2310.3 |
| 35° | 1318.0 | 1325.4 | 1385.5 | 1532.0 | 1729.8 | 1975.3 | 2254.1 | 2377.6 | 2375.1 | 2372.6 | 2370.0 |
| 37.5° | 1208.9 | 1213.6 | 1272.7 | 1425.0 | 1631.9 | 1884.4 | 2219.4 | 2444.2 | 2450.0 | 2455.8 | 2461.6 |
| 40° | 1097.8 | 1102.6 | 1164.4 | 1320.4 | 1541.8 | 1806.8 | 2187.3 | 2527.9 | 2543.8 | 2559.7 | 2575.5 |
| 42.5° | 991.1 | 995.2 | 1055.0 | 1210.6 | 1441.6 | 1739.6 | 2168.0 | 2629.2 | 2659.6 | 2690.1 | 2720.6 |
| 45° | 881.8 | 884.5 | 940.6 | 1092.1 | 1327.1 | 1661.3 | 2163.0 | 2743.0 | 2786.9 | 2830.9 | 2874.8 |
| 47.5° | 774.1 | 780.5 | 838.2 | 982.0 | 1196.4 | 1549.2 | 2155.6 | 2868.9 | 2927.2 | 2985.4 | 3043.7 |
| 50° | 671.2 | 678.2 | 737.7 | 874.0 | 1070.2 | 1416.2 | 2117.8 | 3011.7 | 3082.7 | 3153.8 | 3224.8 |
| 52.5° | 566.1 | 573.2 | 632.7 | 763.0 | 953.0 | 1266.4 | 2012.4 | 3161.6 | 3246.1 | 3330.5 | 3415.0 |
| 55° | 454.0 | 456.8 | 517.9 | 648.5 | 835.9 | 1140.8 | 1844.6 | 3299.0 | 3401.3 | 3503.6 | 3605.9 |
| 57.5° | 330.2 | 339.3 | 399.8 | 521.2 | 716.3 | 1029.7 | 1631.2 | 3369.2 | 3496.9 | 3624.6 | 3752.3 |
| 60° | 238.3 | 244.4 | 297.5 | 393.0 | 581.0 | 920.6 | 1441.9 | 3317.9 | 3488.3 | 3658.7 | 3829.1 |
| 62.5° | 188.4 | 195.1 | 236.0 | 296.0 | 449.4 | 800.8 | 1318.3 | 3177.1 | 3416.2 | 3655.3 | 3894.4 |
| 65° | 166.8 | 172.9 | 210.6 | 240.4 | 343.7 | 677.6 | 1240.7 | 3037.7 | 3360.4 | 3683.0 | 4005.7 |
| 67.5° | 152.2 | 158.7 | 191.8 | 212.0 | 283.9 | 598.2 | 1203.8 | 2932.4 | 3305.0 | 3677.6 | 4050.3 |
| 69° | 145.5 | 151.2 | 181.6 | 200.6 | 267.7 | 571.2 | 1164.4 | 2754.2 | 3123.6 | 3493.1 | 3862.5 |
| 70° | 141.8 | 146.9 | 174.6 | 193.5 | 261.3 | 548.9 | 1106.0 | 2542.1 | 2898.6 | 3255.1 | 3611.6 |
| 72.5° | 131.3 | 134.7 | 158.0 | 175.6 | 239.0 | 438.2 | 834.2 | 1793.6 | 2095.9 | 2398.1 | 2700.3 |
| 75° | 116.4 | 120.5 | 141.1 | 157.3 | 182.3 | 263.3 | 522.2 | 1041.2 | 1248.2 | 1455.3 | 1662.4 |
| 77.5° | 99.9 | 104.6 | 121.6 | 147.2 | 146.8 | 171.5 | 317.0 | 597.8 | 698.5 | 799.1 | 899.7 |
| 80° | 85.7 | 89.8 | 105.0 | 145.5 | 122.9 | 135.7 | 236.3 | 446.0 | 486.5 | 527.0 | 567.5 |
| 82.5° | 67.2 | 70.6 | 88.1 | 120.2 | 98.2 | 103.3 | 180.0 | 406.2 | 433.6 | 461.1 | 488.6 |
| 85° | 42.2 | 43.6 | 64.2 | 83.0 | 69.9 | 62.4 | 115.8 | 312.6 | 332.6 | 352.6 | 372.6 |
| 87.5° | 16.9 | 20.6 | 31.0 | 29.7 | 30.0 | 25.0 | 37.4 | 112.8 | 123.0 | 133.3 | 143.5 |
| 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: OVH-E04-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 |
| 2.5° | 1949.2 | 1949.3 | 1948.6 | 1947.6 | 1948.6 | 1947.6 | 1948.0 | 1949.0 | 1948.6 | 1948.6 | 1947.9 |
| 5° | 1971.4 | 1971.9 | 1971.9 | 1969.9 | 1970.8 | 1971.2 | 1971.6 | 1970.9 | 1971.2 | 1971.9 | 1970.6 |
| 7.5° | 2008.4 | 2008.7 | 2009.8 | 2010.7 | 2010.0 | 2010.4 | 2011.0 | 2010.4 | 2009.4 | 2011.8 | 2010.0 |
| 10° | 2060.5 | 2061.4 | 2061.4 | 2064.4 | 2063.0 | 2064.0 | 2067.1 | 2067.1 | 2065.4 | 2067.8 | 2067.1 |
| 12.5° | 2121.7 | 2123.5 | 2123.2 | 2122.8 | 2124.2 | 2125.2 | 2128.6 | 2129.2 | 2129.9 | 2133.6 | 2132.2 |
| 15° | 2177.5 | 2179.2 | 2180.5 | 2181.2 | 2183.6 | 2184.2 | 2186.3 | 2187.6 | 2188.6 | 2190.0 | 2190.7 |
| 17.5° | 2217.7 | 2218.4 | 2220.4 | 2219.4 | 2222.8 | 2222.0 | 2224.4 | 2225.4 | 2226.4 | 2228.1 | 2229.1 |
| 20° | 2236.6 | 2235.6 | 2235.9 | 2234.9 | 2234.9 | 2235.6 | 2235.9 | 2237.2 | 2236.6 | 2238.3 | 2239.6 |
| 22.5° | 2239.8 | 2236.6 | 2234.6 | 2232.2 | 2231.1 | 2229.1 | 2229.1 | 2229.8 | 2227.4 | 2229.1 | 2231.1 |
| 25° | 2238.3 | 2233.2 | 2229.5 | 2225.4 | 2221.7 | 2218.4 | 2216.4 | 2215.6 | 2214.0 | 2214.0 | 2215.6 |
| 27.5° | 2245.0 | 2238.6 | 2233.2 | 2226.4 | 2221.7 | 2217.0 | 2212.6 | 2209.2 | 2205.8 | 2205.2 | 2205.2 |
| 30° | 2264.9 | 2257.8 | 2251.8 | 2243.3 | 2235.9 | 2229.8 | 2223.8 | 2219.0 | 2212.6 | 2209.9 | 2206.8 |
| 32.5° | 2304.3 | 2298.4 | 2289.9 | 2282.5 | 2273.7 | 2266.2 | 2258.2 | 2250.8 | 2243.3 | 2236.6 | 2233.9 |
| 35° | 2367.4 | 2364.9 | 2360.1 | 2355.0 | 2346.6 | 2337.2 | 2330.4 | 2321.6 | 2313.2 | 2303.4 | 2300.8 |
| 37.5° | 2467.4 | 2473.2 | 2470.6 | 2466.8 | 2464.5 | 2461.4 | 2452.3 | 2446.6 | 2440.9 | 2432.8 | 2431.0 |
| 40° | 2591.4 | 2607.3 | 2623.1 | 2633.6 | 2629.9 | 2642.4 | 2644.4 | 2645.4 | 2640.4 | 2647.1 | 2648.4 |
| 42.5° | 2751.0 | 2781.4 | 2810.2 | 2831.1 | 2855.4 | 2873.6 | 2897.2 | 2907.4 | 2926.6 | 2946.5 | 2958.0 |
| 45° | 2918.8 | 2962.8 | 3004.0 | 3046.8 | 3089.0 | 3135.2 | 3180.1 | 3211.9 | 3258.2 | 3292.6 | 3314.2 |
| 47.5° | 3102.0 | 3160.2 | 3209.6 | 3273.6 | 3334.8 | 3389.5 | 3468.1 | 3531.3 | 3587.6 | 3641.3 | 3697.7 |
| 50° | 3295.8 | 3366.8 | 3427.6 | 3506.0 | 3580.2 | 3666.0 | 3758.2 | 3838.4 | 3927.0 | 4012.3 | 4088.2 |
| 52.5° | 3499.5 | 3584.0 | 3666.0 | 3746.3 | 3836.4 | 3929.6 | 4029.6 | 4145.7 | 4251.6 | 4380.3 | 4472.5 |
| 55° | 3708.2 | 3810.4 | 3897.9 | 3982.0 | 4077.5 | 4180.8 | 4299.6 | 4437.0 | 4571.8 | 4712.5 | 4852.2 |
| 57.5° | 3880.0 | 4007.7 | 4103.2 | 4201.4 | 4304.4 | 4406.6 | 4554.2 | 4695.0 | 4865.8 | 5038.6 | 5213.5 |
| 60° | 3999.5 | 4170.0 | 4285.8 | 4410.0 | 4529.2 | 4653.4 | 4812.4 | 4990.4 | 5204.0 | 5413.4 | 5651.0 |
| 62.5° | 4133.5 | 4372.6 | 4535.0 | 4700.7 | 4845.5 | 4994.8 | 5207.5 | 5412.4 | 5686.8 | 5927.9 | 6227.0 |
| 65° | 4328.4 | 4651.0 | 4890.1 | 5113.6 | 5308.0 | 5511.3 | 5763.4 | 6019.6 | 6333.6 | 6666.8 | 7042.0 |
| 67.5° | 4422.9 | 4795.6 | 5108.5 | 5384.4 | 5632.8 | 5891.8 | 6152.0 | 6455.2 | 6809.0 | 7210.0 | 7622.0 |
| 69° | 4232.0 | 4601.4 | 4961.3 | 5240.2 | 5501.8 | 5778.3 | 6056.8 | 6362.7 | 6711.0 | 7127.4 | 7563.8 |
| 70° | 3968.1 | 4324.6 | 4707.2 | 4986.6 | 5250.6 | 5537.6 | 5821.2 | 6130.1 | 6463.2 | 6892.0 | 7333.6 |
| 72.5° | 3002.5 | 3304.8 | 3676.0 | 3971.5 | 4249.0 | 4539.0 | 4831.0 | 5099.0 | 5437.0 | 5849.6 | 6256.3 |
| 75° | 1869.5 | 2076.6 | 2410.4 | 2707.2 | 2930.4 | 3178.8 | 3453.0 | 3706.8 | 4046.1 | 4338.4 | 4729.7 |
| 77.5° | 1000.3 | 1100.9 | 1295.7 | 1508.4 | 1632.6 | 1753.8 | 1932.4 | 2070.2 | 2213.0 | 2382.1 | 2543.8 |
| 80° | 608.0 | 648.6 | 715.0 | 760.9 | 743.8 | 694.0 | 678.2 | 628.6 | 646.5 | 616.1 | 594.2 |
| 82.5° | 516.0 | 543.5 | 584.0 | 611.8 | 591.4 | 512.1 | 422.4 | 355.4 | 308.2 | 263.0 | 223.5 |
| 85° | 392.6 | 412.6 | 433.5 | 446.0 | 445.0 | 405.5 | 322.0 | 249.5 | 194.5 | 150.6 | 125.2 |
| 87.5° | 153.8 | 164.0 | 179.2 | 176.9 | 184.7 | 186.0 | 145.5 | 112.4 | 80.0 | 54.0 | 47.2 |
| 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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CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 | 1941.9 |
| 2.5° | 1946.6 | 1946.2 | 1946.6 | 1947.6 | 1947.6 | 1948.2 | 1947.6 | 1948.0 | 1947.0 | 1945.9 | 1946.6 |
| 5° | 1970.6 | 1969.8 | 1970.6 | 1971.2 | 1971.2 | 1970.6 | 1972.2 | 1972.2 | 1971.6 | 1970.6 | 1970.9 |
| 7.5° | 2011.8 | 2012.1 | 2011.0 | 2014.4 | 2011.4 | 2011.8 | 2013.8 | 2013.4 | 2012.7 | 2013.1 | 2013.4 |
| 10° | 2069.1 | 2068.8 | 2069.4 | 2071.5 | 2068.4 | 2070.4 | 2072.9 | 2073.5 | 2071.8 | 2071.8 | 2072.2 |
| 12.5° | 2132.6 | 2135.3 | 2135.6 | 2137.0 | 2137.0 | 2138.6 | 2139.0 | 2139.4 | 2140.7 | 2141.0 | 2139.0 |
| 15° | 2193.4 | 2195.4 | 2196.8 | 2198.1 | 2196.4 | 2198.8 | 2201.4 | 2201.5 | 2201.2 | 2202.5 | 2200.5 |
| 17.5° | 2230.9 | 2232.6 | 2234.8 | 2234.6 | 2234.9 | 2237.0 | 2238.6 | 2239.2 | 2240.0 | 2240.0 | 2240.3 |
| 20° | 2242.6 | 2243.6 | 2245.0 | 2246.4 | 2247.0 | 2249.0 | 2250.4 | 2251.4 | 2252.1 | 2251.4 | 2251.8 |
| 22.5° | 2233.2 | 2234.6 | 2237.2 | 2238.2 | 2238.6 | 2241.6 | 2243.0 | 2244.0 | 2244.6 | 2245.4 | 2244.3 |
| 25° | 2217.0 | 2218.4 | 2221.0 | 2222.1 | 2222.8 | 2225.4 | 2227.2 | 2229.5 | 2230.1 | 2230.5 | 2230.8 |
| 27.5° | 2205.8 | 2206.6 | 2208.6 | 2209.9 | 2210.2 | 2213.3 | 2215.6 | 2217.3 | 2217.7 | 2218.0 | 2218.0 |
| 30° | 2206.2 | 2206.2 | 2208.6 | 2208.9 | 2208.6 | 2211.3 | 2212.6 | 2213.6 | 2214.3 | 2214.3 | 2214.6 |
| 32.5° | 2229.4 | 2228.1 | 2230.2 | 2227.1 | 2227.4 | 2227.1 | 2226.8 | 2227.8 | 2227.2 | 2227.4 | 2226.1 |
| 35° | 2295.4 | 2291.6 | 2288.6 | 2289.9 | 2285.2 | 2278.4 | 2282.2 | 2280.4 | 2276.8 | 2277.1 | 2278.1 |
| 37.5° | 2421.6 | 2417.9 | 2421.2 | 2418.2 | 2419.2 | 2409.8 | 2412.1 | 2403.7 | 2401.4 | 2404.4 | 2395.6 |
| 40° | 2645.8 | 2644.0 | 2650.5 | 2647.8 | 2649.4 | 2652.2 | 2654.5 | 2646.4 | 2632.9 | 2645.0 | 2645.4 |
| 42.5° | 2956.4 | 2971.5 | 2977.6 | 2986.0 | 2995.2 | 2991.1 | 2999.2 | 3001.6 | 2986.7 | 2997.8 | 3000.6 |
| 45° | 3345.9 | 3362.1 | 3381.0 | 3386.8 | 3401.6 | 3403.6 | 3409.7 | 3411.4 | 3398.0 | 3399.2 | 3402.3 |
| 47.5° | 3754.1 | 3783.8 | 3806.1 | 3821.6 | 3837.2 | 3840.2 | 3843.6 | 3837.2 | 3838.2 | 3841.2 | 3841.2 |
| 50° | 4155.2 | 4218.6 | 4258.1 | 4288.8 | 4315.5 | 4301.6 | 4313.4 | 4314.5 | 4318.6 | 4310.1 | 4315.2 |
| 52.5° | 4576.8 | 4660.8 | 4727.0 | 4778.6 | 4794.9 | 4844.2 | 4823.9 | 4839.5 | 4850.0 | 4834.4 | 4844.5 |
| 55° | 4988.6 | 5108.5 | 5214.8 | 5289.8 | 5342.4 | 5392.4 | 5400.2 | 5440.4 | 5435.6 | 5450.8 | 5444.1 |
| 57.5° | 5380.2 | 5547.8 | 5699.7 | 5810.7 | 5886.4 | 5962.6 | 6014.3 | 6058.2 | 6062.6 | 6106.1 | 6081.5 |
| 60° | 5853.9 | 6087.2 | 6282.7 | 6448.1 | 6559.8 | 6673.3 | 6762.8 | 6834.6 | 6851.2 | 6925.8 | 6901.1 |
| 62.5° | 6493.0 | 6777.6 | 7027.4 | 7221.6 | 7470.3 | 7590.2 | 7764.4 | 7873.1 | 7940.9 | 7959.5 | 7994.3 |
| 65° | 7391.4 | 7762.1 | 8091.5 | 8402.1 | 8682.0 | 8876.1 | 9077.6 | 9239.7 | 9369.6 | 9358.8 | 9412.2 |
| 67.5° | 8058.8 | 8481.4 | 8878.1 | 9250.5 | 9551.6 | 9801.4 | 10033.0 | 10208.2 | 10324.3 | 10398.3 | 10429.7 |
| 69° | 7989.2 | 8443.0 | 8880.4 | 9278.2 | 9588.8 | 9868.0 | 10093.4 | 10266.0 | 10399.0 | 10479.3 | 10502.6 |
| 70° | 7757.9 | 8224.2 | 8680.2 | 9070.6 | 9387.2 | 9693.8 | 9923.3 | 10115.4 | 10242.0 | 10329.8 | 10343.3 |
| 72.5° | 6710.4 | 7215.4 | 7618.9 | 8044.6 | 8349.4 | 8659.7 | 8804.2 | 9042.2 | 9207.2 | 9260.6 | 9259.6 |
| 75° | 5061.2 | 5482.5 | 5837.0 | 6151.7 | 6424.5 | 6634.8 | 6703.0 | 6872.4 | 7009.5 | 7007.8 | 6995.0 |
| 77.5° | 2725.4 | 2824.6 | 2957.4 | 3001.9 | 3086.0 | 3084.6 | 3000.2 | 3026.9 | 3104.6 | 2954.0 | 3002.6 |
| 80° | 584.8 | 575.9 | 568.5 | 564.1 | 561.8 | 562.8 | 565.8 | 546.6 | 565.5 | 557.0 | 521.2 |
| 82.5° | 203.5 | 198.9 | 194.1 | 197.5 | 195.1 | 197.2 | 196.4 | 198.9 | 198.5 | 197.9 | 193.1 |
| 85° | 114.4 | 110.4 | 108.0 | 109.8 | 106.0 | 102.6 | 100.3 | 99.3 | 98.9 | 96.6 | 95.2 |
| 87.5° | 43.6 | 43.2 | 42.8 | 41.2 | 37.1 | 34.1 | 32.1 | 28.0 | 26.3 | 24.0 | 22.3 |
| 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)