

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: P155820

Luminaire Tested: **AVS-E02-LED-E-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P155820  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: AVS-E02-LED-E-U-T3  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6167.8 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

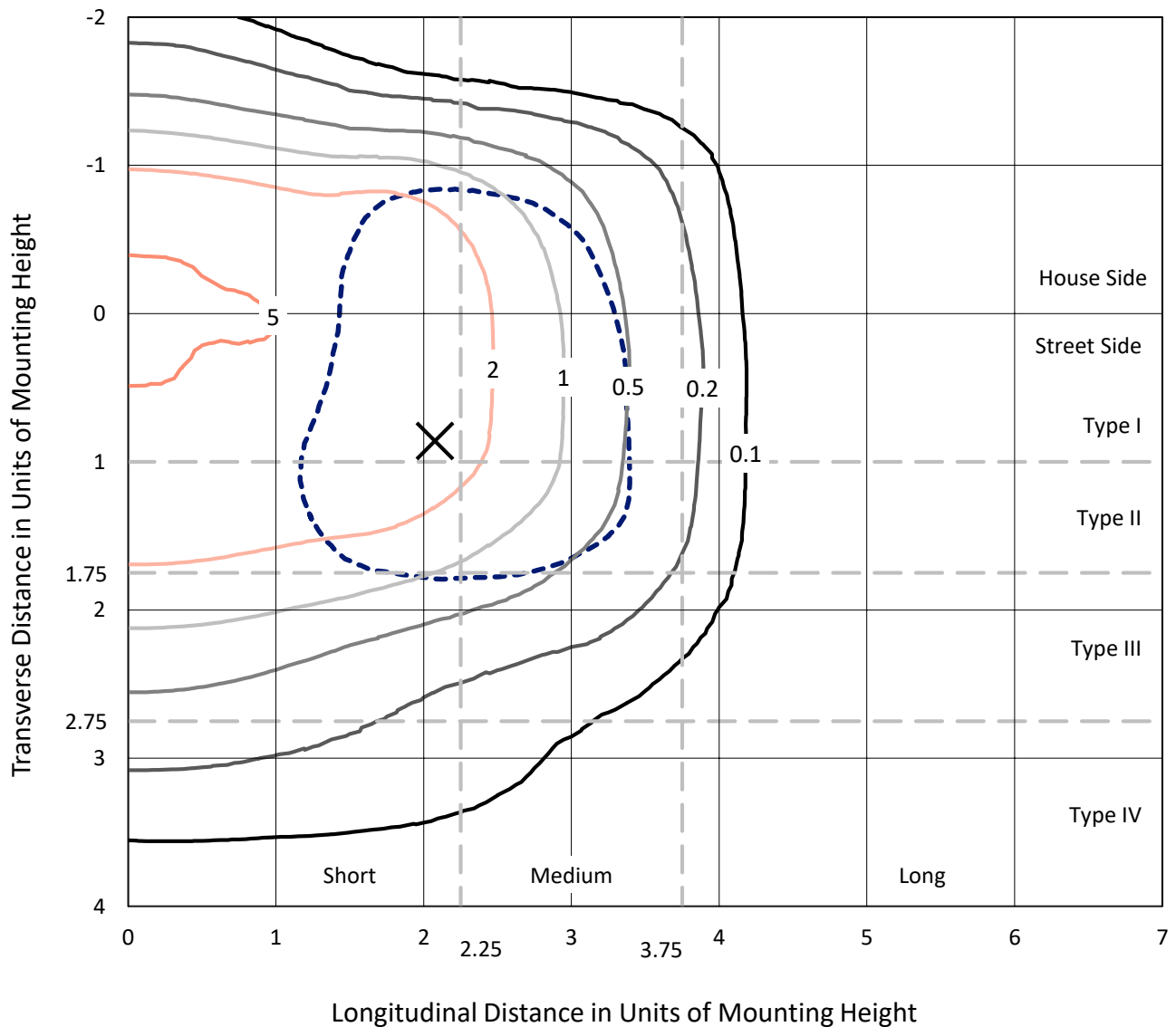
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

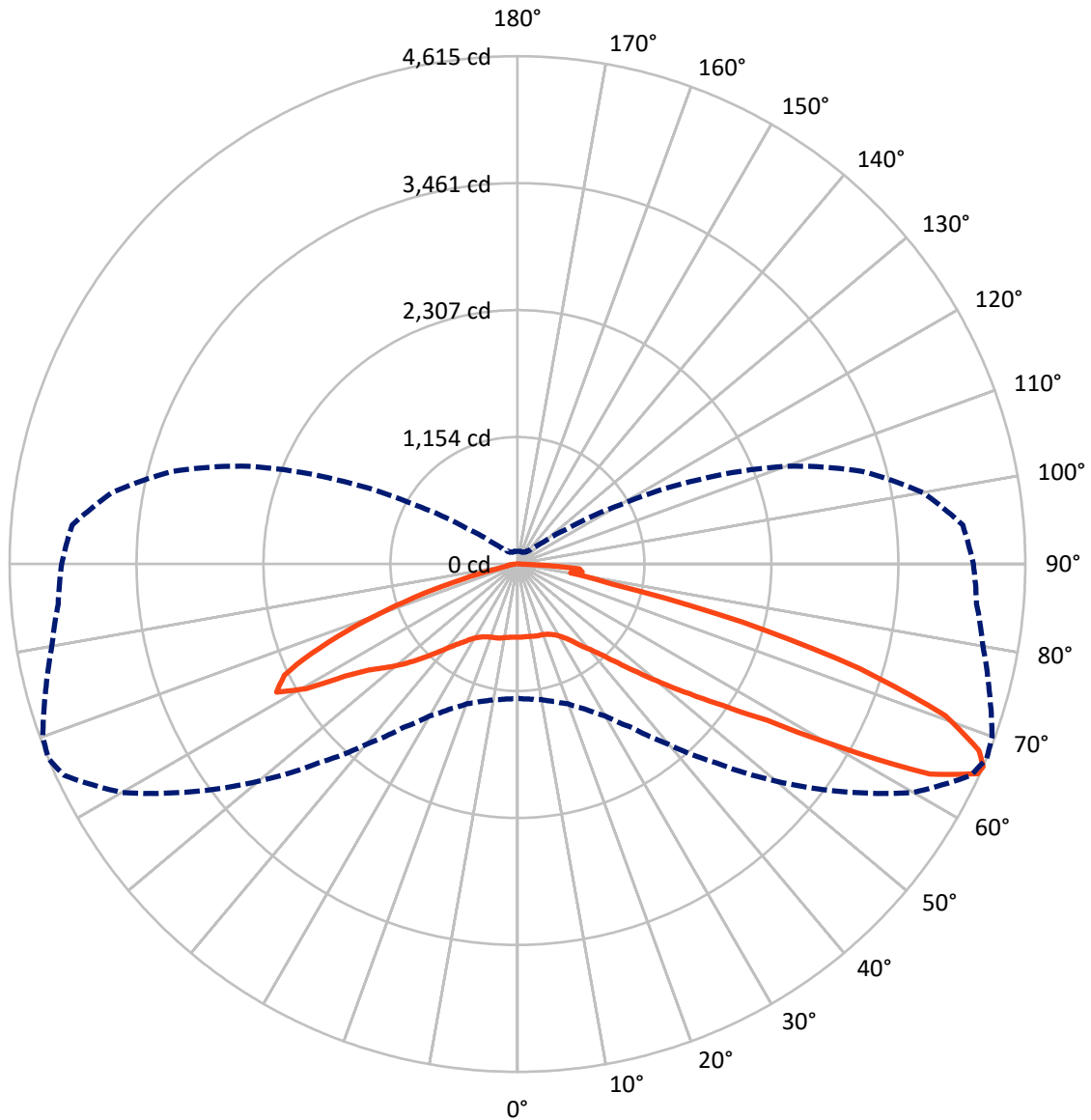
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2129.9	0.0	2129.9
	% Fixture	34.5	0.0	34.5
<b>Street Side</b>	Lumens	4037.9	0.0	4037.9
	% Fixture	65.5	0.0	65.5
<b>Total</b>	Lumens	6167.8	0.0	6167.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.7	1.0
10°-20°	187.9	3.0
20°-30°	322.9	5.2
30°-40°	524.3	8.5
40°-50°	875.3	14.2
50°-60°	1378.3	22.3
60°-70°	1879.5	30.5
70°-80°	813.6	13.2
80°-90°	122.3	2.0
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°	6167.8	100.0
0°-180°	6167.8	100.0

**Coefficient of Utilization**



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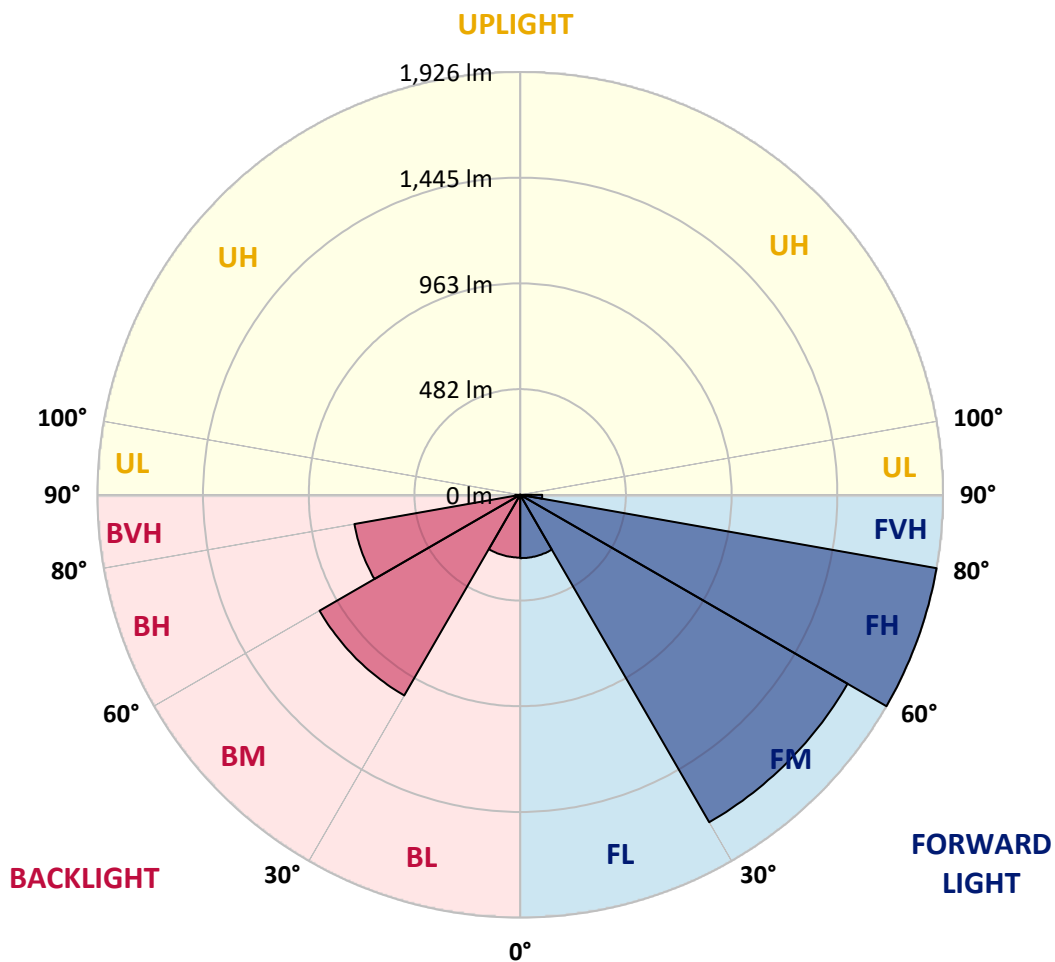
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.5	4.7			
FM	(30°-60°)	1722.5	27.9			
FH	(60°-80°)	1926.4	31.2			G2/5000
FVH	(80°-90°)	100.5	1.6			G2/225
BL	(0°-30°)	285.9	4.6	B1/500		
BM	(30°-60°)	1055.5	17.1	B2/2500		
BH	(60°-80°)	766.7	12.4	B2/1000		G2/1000
BVH	(80°-90°)	21.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7
2.5°	667.4	670.1	667.4	668.0	668.7	668.0	667.4	667.4	665.3	666.6	668.0
5°	664.7	666.6	666.0	666.6	667.4	666.6	666.0	666.6	665.3	666.0	668.0
7.5°	661.3	660.6	661.3	662.7	664.0	664.0	664.0	664.7	664.0	664.0	666.0
10°	651.3	652.0	653.4	655.3	656.0	658.0	658.0	660.0	660.6	662.0	664.7
12.5°	638.7	639.4	640.6	642.0	645.3	648.7	648.7	653.4	655.3	658.7	663.3
15°	629.3	629.9	631.3	632.6	635.3	638.7	640.6	646.0	649.3	655.3	662.0
17.5°	634.7	634.0	635.3	636.0	636.0	638.7	638.7	642.7	646.6	652.0	660.6
20°	649.9	649.9	651.3	651.3	650.7	652.0	649.3	649.3	649.9	652.6	658.7
22.5°	665.3	664.7	667.4	668.7	669.3	671.3	668.7	668.0	664.7	662.7	664.7
25°	680.0	679.4	682.7	684.7	688.0	689.9	689.9	689.9	687.4	684.0	682.0
27.5°	702.7	702.7	706.0	708.0	710.7	714.7	716.7	716.7	717.3	712.6	709.3
30°	740.6	741.3	742.0	744.7	747.4	748.7	751.3	753.4	755.3	752.6	747.4
32.5°	786.0	782.0	782.0	786.0	789.3	793.4	794.7	797.3	801.3	799.4	798.7
35°	840.0	838.7	837.3	838.7	842.7	847.4	852.6	857.3	854.7	858.7	856.7
37.5°	920.0	921.3	922.0	922.0	921.3	922.7	925.3	929.9	928.7	929.9	932.6
40°	1052.0	1047.4	1042.7	1043.3	1036.7	1038.0	1027.4	1032.0	1032.6	1028.0	1030.1
42.5°	1184.0	1186.6	1188.7	1194.0	1189.3	1186.6	1176.7	1176.7	1171.3	1166.6	1165.3
45°	1326.6	1332.0	1332.6	1343.3	1339.4	1348.0	1355.3	1353.4	1344.7	1344.0	1334.7
47.5°	1440.6	1449.3	1458.7	1471.3	1481.3	1500.6	1523.3	1534.7	1541.3	1546.6	1536.0
50°	1526.0	1529.9	1554.0	1574.0	1596.0	1628.0	1659.4	1700.0	1732.6	1748.0	1762.7
52.5°	1572.0	1582.0	1608.0	1639.4	1678.0	1726.0	1776.7	1841.3	1897.3	1934.7	1968.0
55°	1582.0	1592.0	1621.3	1661.3	1714.0	1778.7	1851.3	1939.4	2023.3	2095.3	2165.3
57.5°	1554.0	1565.3	1596.7	1642.7	1704.7	1783.3	1874.7	1990.1	2106.0	2222.7	2326.0
60°	1502.7	1516.7	1545.3	1590.7	1659.4	1748.0	1857.3	2002.0	2164.7	2343.3	2541.3
62.5°	1418.0	1432.6	1459.4	1509.3	1580.0	1678.0	1804.7	1984.7	2214.7	2496.0	2847.4
65°	1282.0	1288.7	1321.3	1372.0	1434.7	1542.7	1682.0	1899.4	2198.7	2590.1	3074.0
66°	1220.6	1232.0	1252.0	1292.6	1352.6	1454.0	1594.0	1814.7	2138.0	2557.3	3068.0
67.5°	1124.7	1133.4	1146.6	1174.0	1210.7	1285.3	1418.0	1626.6	1952.6	2392.0	2940.6
70°	909.3	913.4	931.3	940.6	953.4	978.0	1026.0	1146.0	1400.0	1812.6	2373.4
72.5°	620.0	631.3	650.7	677.3	712.0	745.3	768.0	783.3	838.0	1081.3	1581.3
75°	454.7	466.6	491.3	526.6	587.4	656.7	728.7	762.0	739.4	708.0	880.6
77.5°	264.0	280.0	300.6	334.7	390.7	482.7	606.0	715.3	789.3	794.0	754.0
80°	111.3	113.4	126.0	143.3	178.0	242.7	338.7	496.0	660.0	770.7	796.7
82.5°	25.3	31.3	40.0	47.4	58.0	80.0	118.7	197.3	356.7	559.4	729.3
85°	9.3	9.3	12.6	18.7	21.3	24.0	31.3	49.9	85.3	157.3	328.0
87.5°	0.0	0.6	1.3	1.3	2.7	3.3	5.3	7.4	6.6	6.0	20.0
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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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7
2.5°	666.6	666.0	664.7	664.7	664.7	664.7	663.3	664.0	662.7	663.3	663.3
5°	666.0	666.0	665.3	664.0	664.7	664.7	665.3	664.0	664.0	664.7	664.0
7.5°	666.0	665.3	665.3	665.3	666.0	665.3	666.0	666.0	666.0	666.6	666.6
10°	666.0	666.0	667.4	668.0	668.0	668.7	670.7	670.7	671.3	672.0	673.4
12.5°	666.6	669.3	671.3	673.4	674.0	675.3	678.7	678.7	680.0	682.0	682.7
15°	667.4	671.3	675.3	676.7	678.0	680.6	684.0	685.3	687.4	689.3	690.7
17.5°	666.6	672.0	676.7	678.7	680.6	684.0	688.0	689.3	692.0	694.7	697.3
20°	666.0	673.4	680.6	683.3	686.0	690.7	696.0	699.4	702.0	706.0	708.7
22.5°	670.1	678.7	688.7	692.6	697.3	703.3	710.7	714.7	718.0	722.0	724.0
25°	682.7	689.3	701.3	708.0	714.0	724.0	734.0	738.7	742.7	746.0	746.6
27.5°	704.0	706.0	720.6	729.3	738.0	754.0	766.0	769.3	776.7	779.4	778.7
30°	738.7	735.3	747.4	760.6	773.4	795.3	809.9	818.7	825.3	825.3	820.0
32.5°	788.7	783.3	786.6	802.0	816.7	848.7	866.0	877.3	882.0	880.6	869.3
35°	854.0	850.7	848.7	860.6	884.0	921.3	944.0	950.1	957.3	956.0	941.3
37.5°	931.3	928.7	928.7	942.7	965.3	1020.6	1045.3	1049.3	1048.7	1038.0	1010.7
40°	1022.7	1021.3	1015.3	1023.3	1042.7	1114.7	1148.0	1153.4	1146.0	1128.7	1096.7
42.5°	1154.0	1146.0	1127.4	1132.0	1146.6	1216.7	1260.0	1274.7	1267.4	1249.9	1198.0
45°	1325.3	1316.7	1285.3	1281.3	1289.3	1350.7	1406.6	1409.9	1408.7	1386.6	1325.3
47.5°	1526.6	1513.4	1480.0	1469.3	1466.6	1523.3	1577.3	1582.7	1579.4	1546.6	1464.7
50°	1744.7	1725.3	1703.3	1696.0	1685.3	1726.0	1780.6	1781.3	1768.0	1722.7	1646.0
52.5°	1977.3	1970.7	1966.6	1959.4	1954.7	1990.1	2023.3	2003.3	1983.3	1936.0	1869.3
55°	2212.0	2239.4	2267.4	2269.9	2278.0	2316.0	2315.3	2260.6	2246.0	2220.0	2154.0
57.5°	2461.3	2562.7	2650.7	2678.0	2704.7	2775.3	2768.7	2714.7	2696.0	2664.0	2609.3
60°	2800.6	3074.0	3328.0	3388.7	3430.7	3515.3	3507.4	3424.0	3462.7	3460.0	3389.3
62.5°	3276.0	3730.7	4111.3	4204.7	4234.0	4243.3	4192.6	4102.7	4140.6	4183.3	3966.0
65°	3598.0	4132.6	4523.3	4595.3	4599.4	4488.0	4375.3	4269.3	4260.0	4223.3	3912.6
66°	3605.3	4152.6	4544.7	4614.7	4589.9	4438.0	4295.3	4188.7	4142.7	4062.0	3740.0
67.5°	3476.0	4028.0	4449.9	4524.0	4470.1	4254.7	4058.0	3920.6	3830.7	3700.0	3416.0
70°	2919.4	3466.6	3986.6	4124.7	4142.0	3820.6	3548.0	3386.6	3265.3	3086.0	2841.3
72.5°	2170.7	2665.3	3124.0	3256.0	3323.3	3066.6	2836.7	2714.0	2548.0	2359.4	2185.3
75°	1360.6	1710.1	2017.3	2110.1	2046.6	1848.0	1710.1	1658.7	1495.3	1382.7	1303.3
77.5°	778.0	887.4	912.0	876.7	802.0	614.0	436.7	323.3	280.6	310.7	342.7
80°	759.4	696.0	554.7	488.0	442.0	304.0	178.7	122.7	102.0	104.7	113.4
82.5°	822.7	882.7	726.6	592.6	497.3	336.0	185.3	98.7	66.6	78.7	88.7
85°	534.7	744.0	670.1	564.7	457.3	287.4	152.6	51.3	34.0	44.7	61.3
87.5°	54.0	59.4	50.7	68.7	51.3	24.0	12.0	7.4	6.6	8.0	12.0
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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**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7	664.7
2.5°	664.0	664.0	664.7	665.3	666.0	666.6	666.6	666.6	666.6	668.0	667.4
5°	665.3	666.6	668.0	668.7	670.1	670.1	672.0	671.3	671.3	673.4	674.0
7.5°	668.0	670.1	672.6	672.0	674.7	674.0	675.3	675.3	673.4	674.0	672.6
10°	674.0	676.7	678.0	676.0	676.7	674.0	673.4	670.1	666.0	664.0	661.3
12.5°	684.0	686.6	686.6	683.3	679.4	673.4	668.7	661.3	655.3	652.0	648.7
15°	692.6	695.3	694.7	689.3	683.3	674.0	667.4	658.7	649.9	644.7	641.3
17.5°	699.4	700.6	698.7	691.3	684.7	676.0	669.3	660.0	649.9	643.3	637.3
20°	709.3	708.0	703.3	694.0	686.6	678.7	673.4	665.3	654.0	645.3	636.7
22.5°	724.0	718.7	710.1	700.0	692.6	685.3	680.0	671.3	660.0	649.3	639.4
25°	743.3	732.6	720.6	710.1	703.3	695.3	689.3	680.0	668.0	656.0	644.0
27.5°	771.3	752.6	737.3	728.0	720.6	710.7	703.3	691.3	678.7	664.7	651.3
30°	802.7	777.3	762.7	755.3	747.4	736.7	725.3	710.1	695.3	680.0	664.0
32.5°	843.3	812.6	798.7	791.3	780.6	767.4	754.0	736.7	716.0	696.0	676.7
35°	896.7	865.3	850.7	839.4	824.7	807.4	788.0	764.7	736.7	710.1	685.3
37.5°	954.0	920.0	906.0	894.0	872.0	849.3	822.0	788.0	750.1	714.7	684.0
40°	1026.6	995.3	977.3	956.7	930.7	891.3	848.7	799.4	750.7	707.4	671.3
42.5°	1118.7	1087.4	1060.6	1028.0	982.7	922.0	861.3	797.3	738.7	689.3	650.7
45°	1240.6	1202.7	1156.7	1099.4	1026.0	941.3	862.0	784.7	716.0	661.3	620.0
47.5°	1390.1	1332.0	1256.7	1160.0	1054.7	946.6	851.3	759.4	680.6	621.3	575.3
50°	1567.4	1476.0	1352.0	1209.9	1069.3	938.7	824.7	721.3	630.7	567.4	512.6
52.5°	1769.9	1620.6	1438.0	1246.0	1068.7	912.0	779.4	664.0	565.3	494.7	442.7
55°	2008.0	1786.0	1526.6	1272.6	1049.9	862.7	710.1	583.3	484.7	419.4	371.3
57.5°	2356.7	2054.0	1681.3	1314.0	1012.6	786.6	616.0	486.6	400.0	338.0	297.3
60°	2994.0	2501.3	1960.0	1397.3	955.3	675.3	506.0	383.3	310.7	260.6	233.4
62.5°	3474.0	2847.4	2110.7	1378.7	840.0	538.0	375.3	279.4	228.7	194.7	177.3
65°	3405.3	2740.0	1950.1	1187.4	658.7	379.4	249.3	190.1	157.3	141.3	131.3
66°	3249.9	2600.0	1810.7	1068.7	569.3	315.3	205.3	159.4	135.3	124.0	117.3
67.5°	2955.3	2340.0	1561.3	876.0	437.3	228.7	154.7	126.0	110.1	105.3	100.6
70°	2456.7	1866.0	1096.0	510.1	223.3	127.4	98.0	88.0	84.0	83.3	82.0
72.5°	1882.7	1320.6	645.3	241.3	116.0	84.7	76.0	72.6	71.3	71.3	72.0
75°	1154.0	742.0	285.3	118.0	81.3	71.3	67.4	66.0	65.3	66.0	65.3
77.5°	385.3	236.0	122.0	89.3	74.0	66.0	63.3	62.0	62.0	62.0	62.0
80°	118.0	102.7	93.4	82.7	70.1	62.7	58.7	58.0	58.7	59.4	57.3
82.5°	88.7	84.0	78.7	73.4	63.3	56.0	54.7	54.7	54.7	52.6	49.9
85°	65.3	64.7	53.4	49.9	46.6	46.6	46.6	46.6	44.7	41.3	38.7
87.5°	12.0	11.3	12.0	12.6	18.7	20.0	20.0	21.3	23.3	22.0	22.0
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: AVS-E02-LED-E-U-T3

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	664.7	664.7	664.7	664.7	664.7
2.5°	667.4	666.6	668.7	667.4	668.0
5°	673.4	672.6	674.0	672.6	674.7
7.5°	671.3	670.1	669.3	670.1	670.7
10°	657.3	656.0	655.3	654.7	655.3
12.5°	645.3	642.7	642.7	641.3	642.0
15°	636.7	634.7	634.0	632.6	633.4
17.5°	632.6	629.3	628.0	626.6	626.6
20°	629.9	626.0	624.0	622.7	622.0
22.5°	629.9	624.0	621.3	620.0	619.4
25°	632.6	625.3	621.3	619.4	618.7
27.5°	638.0	628.7	624.0	621.3	621.3
30°	647.4	635.3	628.7	625.3	624.7
32.5°	656.7	640.6	631.3	627.4	626.0
35°	661.3	640.6	629.3	622.7	621.3
37.5°	656.0	632.0	618.0	608.0	606.0
40°	639.4	614.0	598.7	589.3	588.0
42.5°	617.3	592.6	574.7	568.0	566.0
45°	587.4	558.0	540.0	530.7	531.3
47.5°	536.0	506.0	489.9	481.3	482.7
50°	475.3	446.0	432.0	422.7	424.7
52.5°	408.7	382.0	368.7	364.0	362.7
55°	338.7	318.0	308.7	303.3	301.3
57.5°	274.7	260.0	253.4	246.6	247.4
60°	216.7	209.3	207.4	200.0	199.4
62.5°	170.7	166.0	164.0	158.7	159.4
65°	129.3	128.0	129.3	126.0	127.4
66°	116.7	117.3	117.3	115.3	116.7
67.5°	100.6	102.0	104.0	102.0	103.3
70°	83.3	84.7	86.0	86.0	86.0
72.5°	72.6	74.0	74.7	74.7	74.7
75°	66.6	67.4	68.0	66.6	66.6
77.5°	62.7	62.7	61.3	60.6	60.0
80°	56.7	56.0	54.0	52.6	52.6
82.5°	47.4	46.0	44.7	42.7	42.7
85°	36.0	34.7	33.4	30.7	29.3
87.5°	18.7	19.4	18.7	15.3	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)