

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: P154786

Luminaire Tested: **AVS-F02-LED-E-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P154786
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-F02-LED-E-U-T2-7050
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5190.7 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 55
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



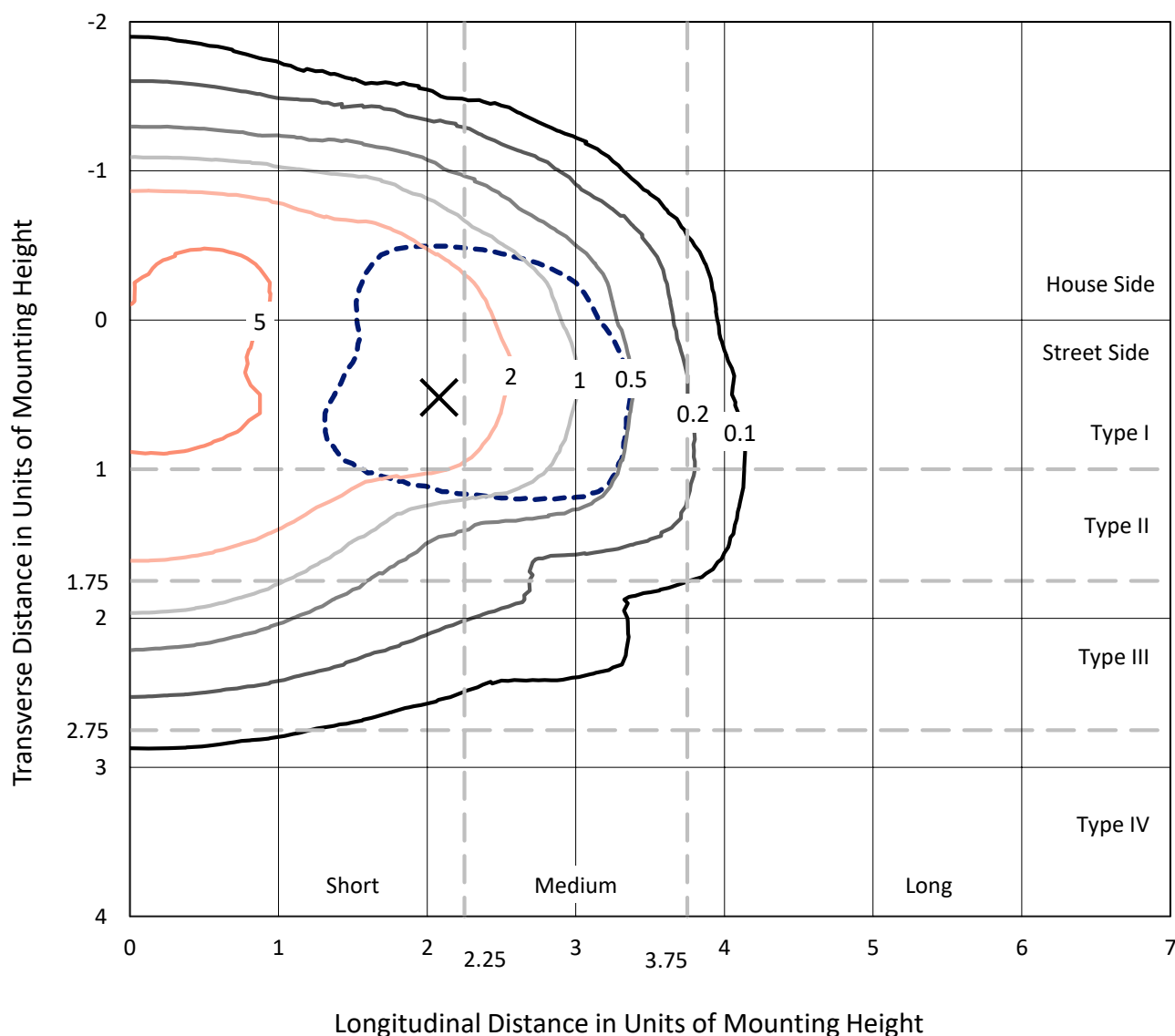
REPORT NUMBER: P154786

CATALOG NUMBER: AVS-F02-LED-E-U-T2-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

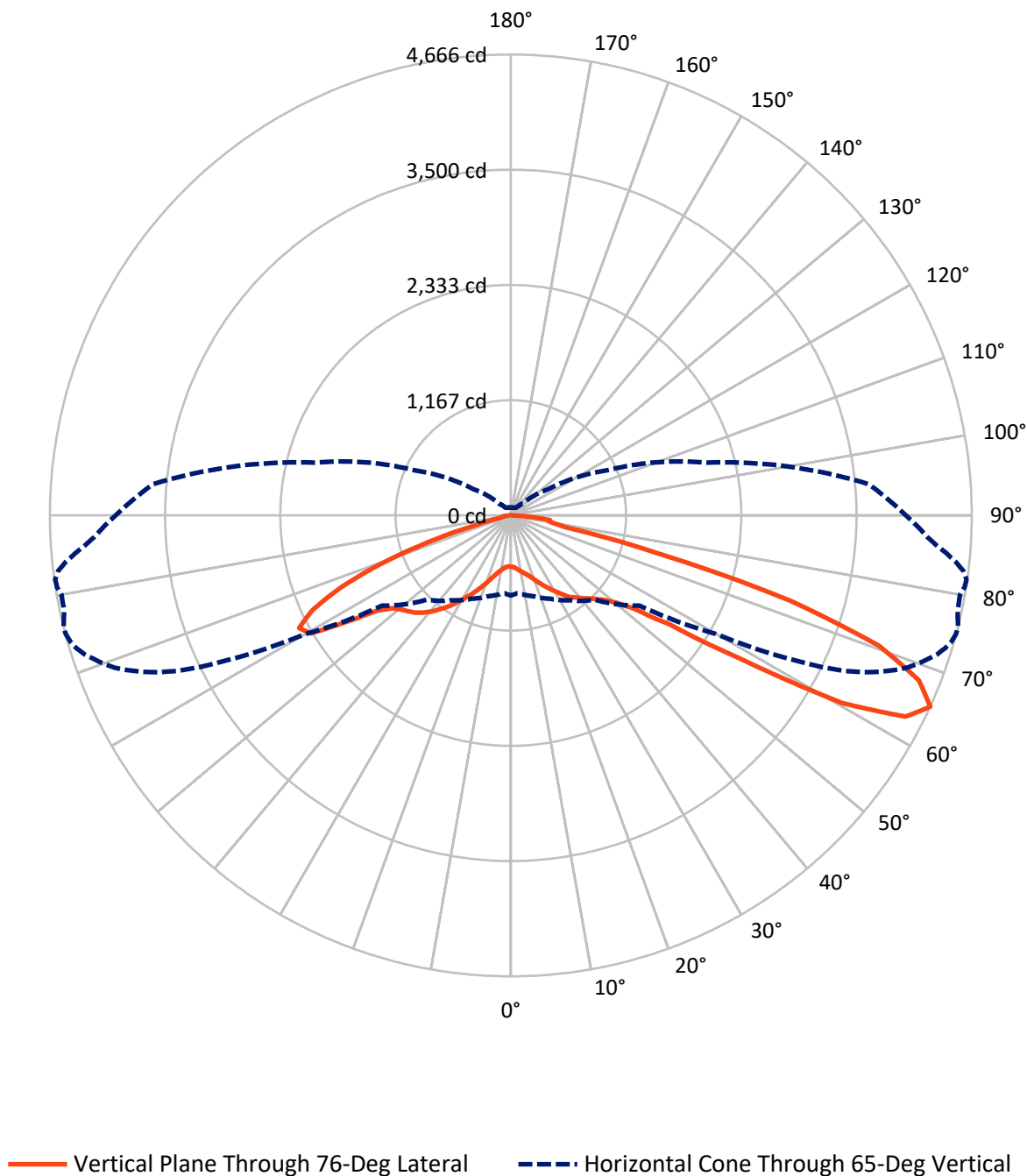


Based on 10 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P154786

CATALOG NUMBER: AVS-F02-LED-E-U-T2-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P154786

CATALOG NUMBER: AVS-F02-LED-E-U-T2-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1817.6	0.0	1817.6
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	3373.0	0.0	3373.0
	% Fixture	65.0	0.0	65.0
Total	Lumens	5190.7	0.0	5190.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.0
10°-20°	178.5	3.4
20°-30°	350.7	6.8
30°-40°	582.7	11.2
40°-50°	856.2	16.5
50°-60°	1185.4	22.8
60°-70°	1414.9	27.3
70°-80°	500.4	9.6
80°-90°	69.9	1.3
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°	5190.7	100.0
0°-180°	5190.7	100.0

Coefficient of Utilization



REPORT NUMBER: P154786

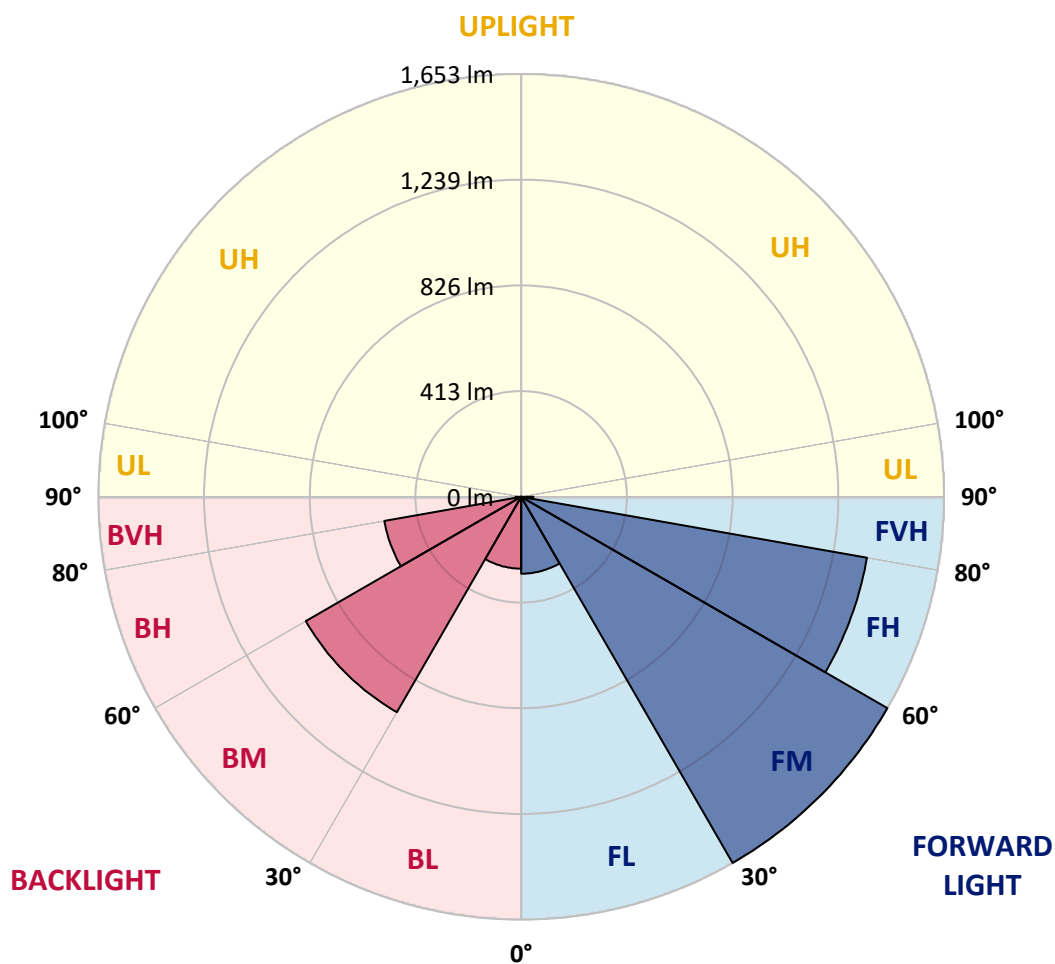
CATALOG NUMBER: AVS-F02-LED-E-U-T2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.3	5.8			
FM	(30°-60°)	1652.5	31.8			
FH	(60°-80°)	1372.3	26.4			G1/1800
FVH	(80°-90°)	47.8	0.9			G1/100
BL	(0°-30°)	280.8	5.4	B1/500		
BM	(30°-60°)	971.8	18.7	B1/1000		
BH	(60°-80°)	542.9	10.5	B2/1000		G2/1000
BVH	(80°-90°)	22.1	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 II Short





REPORT NUMBER: P154786

CATALOG NUMBER: AVS-F02-LED-E-U-T2-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
2.5°	541.6	542.2	541.0	540.4	538.8	536.0	533.7	531.4	531.4	531.4	529.7
5°	565.3	566.4	564.1	562.5	557.4	554.5	550.6	547.8	546.6	546.1	544.4
7.5°	595.2	593.5	590.2	589.0	585.1	578.9	571.5	565.8	565.8	565.3	565.8
10°	625.2	620.6	619.0	617.2	611.0	603.1	594.6	588.4	587.9	587.4	585.6
12.5°	655.0	653.4	651.7	645.5	639.3	626.8	617.2	611.0	610.5	611.0	608.8
15°	694.6	690.7	688.9	678.2	664.7	651.1	639.3	633.6	631.9	632.4	630.8
17.5°	725.1	725.1	721.1	709.3	691.8	673.2	660.7	657.3	656.8	656.8	657.3
20°	749.4	748.8	744.9	735.2	714.4	695.8	689.5	688.4	687.9	687.9	689.5
22.5°	762.9	761.8	760.1	749.4	733.0	720.6	721.1	724.6	725.7	726.8	729.0
25°	769.7	768.0	767.5	760.1	748.3	746.5	756.7	765.8	768.0	770.3	773.1
27.5°	781.0	778.1	779.3	776.5	773.7	778.8	799.7	809.2	811.0	813.8	815.4
30°	812.0	811.0	815.4	816.6	818.9	826.2	845.4	854.4	858.3	858.3	866.3
32.5°	871.4	871.9	873.1	884.9	888.9	894.0	904.1	911.5	912.0	912.5	919.9
35°	951.0	954.4	963.9	974.1	983.7	983.2	977.0	980.9	978.1	981.5	982.1
37.5°	1051.5	1046.9	1061.1	1084.2	1099.0	1095.0	1067.4	1049.2	1054.3	1052.0	1050.4
40°	1128.9	1134.0	1161.0	1191.5	1202.8	1215.2	1179.2	1148.1	1143.5	1135.1	1129.9
42.5°	1235.6	1236.2	1258.2	1280.8	1313.6	1340.6	1317.5	1272.8	1259.3	1249.1	1227.2
45°	1334.4	1332.7	1350.8	1378.4	1417.4	1456.4	1464.9	1416.3	1411.2	1393.2	1364.4
47.5°	1400.5	1398.2	1410.7	1446.8	1510.1	1573.9	1608.9	1594.2	1584.6	1577.3	1532.1
50°	1445.1	1440.6	1454.7	1493.2	1563.7	1662.0	1753.5	1765.9	1762.0	1762.0	1733.2
52.5°	1478.4	1478.4	1488.6	1519.7	1591.4	1713.9	1877.7	1940.4	1945.5	1951.1	1949.4
55°	1459.8	1462.6	1488.0	1533.2	1608.9	1750.1	1980.4	2117.7	2145.9	2169.6	2196.8
57.5°	1396.0	1405.6	1439.5	1513.5	1613.4	1777.2	2094.5	2366.1	2445.8	2514.7	2622.0
60°	1302.8	1315.2	1364.4	1458.7	1580.1	1733.2	2134.6	2576.3	2702.7	2853.0	3133.1
62.5°	1143.0	1155.4	1203.4	1297.7	1401.7	1564.2	1968.6	2607.3	2809.4	3022.4	3445.9
65°	809.8	790.1	845.4	930.1	1049.2	1206.8	1590.8	2399.0	2689.7	2978.3	3501.2
67.5°	451.2	449.5	483.4	546.6	660.7	830.2	1096.2	1839.9	2107.6	2434.5	3076.6
70°	311.2	314.5	336.0	404.4	498.7	644.9	781.0	1155.4	1348.0	1569.9	2201.2
72.5°	218.5	225.9	237.7	278.4	374.9	543.2	797.9	690.7	786.6	938.0	1323.7
75°	128.2	133.3	141.8	161.6	213.5	363.1	826.2	607.0	607.0	642.7	800.7
77.5°	79.1	79.1	84.1	92.0	113.5	177.9	588.4	682.2	663.0	642.7	644.4
80°	40.6	43.5	50.8	54.8	63.2	81.3	264.2	636.5	698.0	739.2	710.4
82.5°	18.7	20.9	31.1	33.4	36.7	42.9	90.9	362.0	485.1	638.7	797.9
85°	9.6	9.6	16.4	20.3	22.1	19.8	33.4	146.2	221.3	337.7	528.6
87.5°	1.7	1.7	2.8	3.4	5.1	4.6	5.6	8.5	14.1	15.2	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P154786

CATALOG NUMBER: AVS-F02-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
2.5°	529.1	529.7	529.1	528.6	527.5	527.5	527.5	526.8	526.8	526.8	526.3
5°	544.4	542.2	542.7	541.6	541.0	540.4	541.0	539.9	538.8	539.3	538.8
7.5°	563.6	562.5	560.2	560.2	559.6	558.5	558.5	556.8	556.3	555.1	554.5
10°	585.1	582.2	583.3	582.2	582.8	580.5	579.4	578.2	577.1	577.1	577.7
12.5°	607.0	606.5	604.8	603.7	603.7	602.0	602.6	602.0	600.3	599.7	598.0
15°	629.6	629.6	628.0	628.5	628.0	626.8	625.7	625.7	624.6	623.4	624.0
17.5°	656.2	656.2	656.2	656.2	656.8	655.0	655.6	654.5	653.4	655.6	655.6
20°	690.7	693.0	693.0	692.3	695.1	693.5	693.0	695.8	693.0	696.9	696.3
22.5°	730.2	732.4	732.4	734.7	735.2	737.0	738.1	737.0	739.2	741.5	741.5
25°	774.2	776.5	778.1	781.6	783.2	782.2	782.7	785.5	786.6	788.9	791.2
27.5°	820.5	821.1	823.3	827.4	830.2	831.3	831.8	836.4	836.9	838.0	840.3
30°	865.7	871.4	870.3	875.3	877.0	878.7	882.1	883.7	887.8	889.9	889.9
32.5°	918.8	917.6	922.2	926.1	928.9	931.8	934.6	936.9	939.2	940.2	945.9
35°	984.9	987.2	987.2	987.7	994.5	995.0	997.3	1002.4	1004.0	1007.5	1009.7
37.5°	1050.4	1046.4	1045.9	1045.9	1043.6	1045.3	1045.9	1046.4	1048.7	1049.2	1051.5
40°	1123.8	1118.7	1114.2	1111.4	1106.8	1100.6	1099.5	1096.7	1098.3	1097.8	1098.3
42.5°	1224.4	1210.2	1199.5	1191.5	1182.5	1175.8	1170.7	1163.3	1158.2	1152.0	1150.9
45°	1352.5	1325.9	1307.9	1294.9	1281.9	1263.3	1252.5	1241.2	1231.1	1220.9	1212.4
47.5°	1520.8	1492.5	1463.7	1440.0	1419.7	1389.7	1359.3	1342.4	1322.6	1305.1	1292.6
50°	1719.0	1685.1	1671.6	1638.2	1612.8	1567.7	1529.8	1502.2	1462.6	1436.1	1413.0
52.5°	1921.8	1913.3	1905.9	1877.7	1847.8	1821.8	1788.5	1739.9	1699.8	1669.3	1621.9
55°	2197.9	2201.9	2199.0	2183.7	2173.1	2148.2	2134.6	2092.2	2074.2	2030.2	1980.4
57.5°	2662.6	2694.3	2734.4	2750.2	2771.6	2751.3	2775.0	2803.8	2732.1	2757.0	2712.3
60°	3256.2	3401.2	3487.7	3593.9	3663.3	3760.4	3777.9	3803.4	3796.1	3810.2	3839.0
62.5°	3618.8	3791.0	3956.4	4076.7	4205.5	4276.6	4362.5	4422.3	4484.5	4526.2	4514.3
65°	3725.4	3902.8	4053.0	4184.6	4299.8	4386.7	4466.3	4541.5	4598.4	4638.5	4662.3
67.5°	3333.6	3565.1	3723.2	3877.3	4025.9	4117.3	4183.9	4256.8	4340.4	4409.8	4423.4
70°	2508.5	2855.8	3080.0	3264.7	3439.2	3562.3	3655.4	3723.2	3788.1	3837.8	3892.0
72.5°	1568.8	1872.6	2129.0	2368.4	2553.7	2723.1	2801.6	2951.8	2932.0	2969.8	3010.5
75°	940.2	1088.2	1229.4	1398.2	1495.3	1636.6	1662.0	1686.8	1673.8	1631.5	1663.1
77.5°	653.4	677.6	676.6	666.9	656.8	631.9	599.7	582.2	570.4	553.5	560.2
80°	657.3	604.8	524.7	441.0	364.2	313.4	293.1	293.1	314.0	343.9	373.9
82.5°	785.5	729.6	650.6	544.4	431.4	351.3	297.6	276.2	280.1	310.6	349.0
85°	529.7	542.2	475.4	434.8	344.5	268.3	224.8	182.4	161.6	166.6	188.6
87.5°	19.2	23.1	8.5	11.3	7.9	6.7	6.7	7.4	5.1	6.2	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P154786

CATALOG NUMBER: AVS-F02-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
2.5°	525.8	525.2	525.2	524.0	524.0	523.5	523.5	522.9	522.4	522.4	521.8
5°	538.1	537.6	536.5	536.0	534.8	534.8	534.2	533.1	533.1	531.9	531.4
7.5°	555.6	554.5	553.5	552.8	552.3	550.6	550.6	549.4	549.4	548.3	547.8
10°	576.6	575.4	574.3	574.9	573.2	572.6	571.5	571.5	569.8	569.2	569.2
12.5°	599.2	598.5	598.5	596.9	596.4	595.8	593.5	593.5	593.5	592.4	593.0
15°	623.4	624.0	622.3	624.0	623.4	621.8	621.8	621.8	619.5	622.3	620.1
17.5°	656.2	657.9	656.8	657.3	656.2	656.2	656.8	656.2	657.3	657.3	660.7
20°	696.9	697.4	700.2	699.2	699.2	698.5	699.7	700.2	702.5	701.3	703.6
22.5°	741.5	744.2	744.9	747.2	747.2	746.5	747.7	749.9	751.1	752.7	752.2
25°	792.3	794.0	796.3	793.5	797.9	797.9	799.1	801.9	802.5	802.5	806.4
27.5°	839.7	844.2	844.8	847.7	845.9	847.0	851.0	852.7	855.0	855.0	856.1
30°	893.4	895.0	896.2	899.6	899.1	899.6	900.2	903.0	903.0	905.8	908.6
32.5°	948.7	949.8	951.0	954.4	955.5	957.7	956.6	958.9	961.8	962.3	963.9
35°	1014.8	1016.0	1017.1	1022.2	1022.7	1026.6	1027.8	1026.6	1031.2	1028.4	1031.2
37.5°	1053.2	1058.2	1059.4	1062.8	1061.7	1064.5	1066.2	1068.4	1069.5	1071.8	1076.4
40°	1100.1	1101.8	1105.2	1106.8	1109.1	1109.6	1111.9	1113.6	1115.3	1120.4	1125.5
42.5°	1148.1	1150.4	1152.0	1154.3	1157.1	1159.4	1161.0	1166.1	1167.3	1170.7	1180.2
45°	1206.2	1205.1	1205.7	1206.2	1207.4	1210.2	1215.2	1220.3	1223.7	1231.6	1239.6
47.5°	1278.5	1271.2	1268.4	1263.8	1265.0	1271.2	1272.3	1280.8	1287.6	1294.9	1304.5
50°	1388.1	1368.3	1356.5	1344.6	1343.4	1346.8	1351.4	1360.4	1368.3	1377.9	1391.5
52.5°	1572.1	1534.3	1510.6	1477.8	1468.8	1467.2	1463.7	1468.8	1471.1	1484.0	1509.5
55°	1944.9	1874.8	1829.6	1778.9	1731.4	1717.3	1690.2	1695.9	1690.2	1698.1	1736.0
57.5°	2723.1	2667.2	2623.1	2558.1	2476.9	2390.5	2369.0	2280.3	2297.8	2348.7	2315.9
60°	3853.1	3832.7	3801.1	3770.1	3658.8	3596.2	3493.9	3482.6	3410.9	3411.5	3364.6
62.5°	4485.6	4511.5	4492.3	4483.3	4477.1	4457.3	4406.5	4345.5	4254.0	4188.0	4090.8
65°	4666.2	4644.2	4623.3	4620.5	4618.9	4651.0	4658.3	4615.4	4532.4	4429.6	4317.8
67.5°	4455.6	4443.2	4444.4	4420.6	4435.3	4491.2	4530.2	4518.3	4442.1	4317.8	4175.5
70°	3954.2	3929.8	3954.7	3985.8	4007.8	4040.0	4079.0	4088.6	4019.1	3891.5	3746.3
72.5°	2960.8	2964.8	2988.5	2997.0	3085.6	3076.6	3111.6	2997.5	2947.3	2825.8	2751.3
75°	1558.0	1532.6	1598.8	1458.7	1401.0	1441.1	1328.8	1220.9	1243.5	1262.2	1127.8
77.5°	550.6	515.0	454.6	430.4	358.0	303.2	247.9	223.6	210.7	203.8	195.4
80°	395.3	406.6	394.2	364.8	310.1	248.5	196.0	154.7	132.7	120.8	113.0
82.5°	399.8	444.5	464.2	455.8	406.0	307.3	202.7	129.3	96.0	80.2	74.5
85°	214.6	234.9	225.9	190.3	171.1	102.2	70.1	46.8	39.5	36.2	33.4
87.5°	8.5	6.7	5.6	5.6	6.2	6.7	5.6	6.2	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P154786

CATALOG NUMBER: AVS-F02-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0	519.0
2.5°	520.6	520.6	520.6	520.1	519.0	516.2	513.4	511.1	509.3	507.7	505.4
5°	530.9	529.7	529.7	529.7	525.2	520.6	516.7	512.7	509.3	506.5	504.2
7.5°	547.8	547.3	545.0	544.4	541.0	533.7	529.1	522.4	518.4	514.5	513.4
10°	568.1	567.6	566.9	566.4	561.9	554.5	548.9	542.7	537.0	531.4	525.8
12.5°	591.8	591.3	590.7	589.0	587.4	583.3	577.1	570.4	563.6	551.7	545.5
15°	621.1	622.3	621.1	620.6	619.5	620.1	616.1	606.5	595.8	580.5	567.6
17.5°	660.1	659.1	658.4	660.7	660.1	663.0	661.9	649.4	633.1	608.8	586.2
20°	703.1	703.1	705.3	707.0	712.1	719.5	716.1	700.8	670.9	637.0	607.7
22.5°	754.5	755.5	757.8	756.7	764.7	776.5	777.6	756.2	717.2	670.4	629.1
25°	808.1	809.2	806.9	810.4	823.3	840.3	843.7	813.2	761.8	700.8	647.2
27.5°	859.0	860.1	860.1	864.6	877.0	905.8	909.2	875.3	806.9	727.4	660.1
30°	908.6	913.2	914.3	915.4	934.1	974.1	981.5	932.3	846.5	747.2	669.2
32.5°	971.3	973.1	975.2	978.1	999.6	1048.7	1048.7	981.5	871.9	759.6	670.9
35°	1038.5	1039.1	1044.1	1044.8	1075.2	1124.4	1114.7	1022.2	889.9	756.7	658.4
37.5°	1079.2	1081.5	1086.5	1093.3	1125.5	1194.9	1173.0	1057.2	893.4	738.1	630.3
40°	1129.4	1134.0	1139.1	1145.8	1193.8	1266.6	1222.1	1079.2	879.3	701.3	587.9
42.5°	1183.6	1189.8	1197.7	1210.2	1267.3	1329.9	1259.3	1082.6	847.0	660.1	537.6
45°	1244.7	1256.0	1265.0	1279.7	1344.0	1384.7	1281.9	1062.8	806.4	605.9	483.9
47.5°	1315.2	1324.2	1340.1	1355.9	1420.3	1422.0	1284.1	1024.4	751.1	551.7	426.9
50°	1402.2	1407.9	1431.6	1441.1	1501.6	1460.9	1267.8	972.4	693.0	490.8	363.6
52.5°	1517.9	1525.9	1556.4	1571.1	1614.0	1514.0	1244.7	916.0	626.3	422.4	298.8
55°	1746.6	1781.1	1802.6	1828.0	1855.6	1634.3	1234.5	855.5	551.2	343.3	236.6
57.5°	2388.7	2377.4	2424.9	2482.5	2482.0	1909.3	1295.4	803.6	462.5	262.6	181.9
60°	3345.4	3356.1	3331.8	3366.3	3256.7	2250.4	1379.1	748.8	362.6	195.4	139.0
62.5°	4056.4	3994.2	3959.8	3919.2	3678.0	2287.7	1318.0	636.5	263.7	137.2	106.7
65°	4224.7	4151.8	4077.8	4000.4	3636.8	2062.4	1081.5	467.0	170.6	94.3	84.7
67.5°	4058.7	3941.8	3847.5	3767.8	3332.4	1709.4	790.6	286.8	97.7	76.3	72.3
70°	3628.3	3499.0	3346.5	3257.3	2806.1	1259.9	506.5	154.7	75.1	67.8	66.1
72.5°	2655.9	2549.7	2383.1	2280.9	2014.9	765.8	282.9	86.9	70.1	65.0	62.7
75°	1034.6	979.2	909.7	915.4	817.1	338.9	128.2	75.1	68.3	63.8	61.6
77.5°	177.9	173.4	160.4	160.4	182.4	123.6	85.3	75.6	67.8	62.7	58.8
80°	106.7	104.5	99.4	98.2	94.9	86.9	81.9	76.8	66.6	59.3	54.2
82.5°	70.1	67.2	65.5	65.0	70.6	76.3	76.8	76.3	63.2	51.4	44.0
85°	29.9	29.9	29.9	30.5	40.6	61.6	63.2	67.8	51.9	40.1	31.6
87.5°	5.1	6.2	6.2	6.7	7.4	13.6	16.9	22.1	17.5	16.9	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P154786

CATALOG NUMBER: AVS-F02-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	519.0	519.0	519.0
2.5°	504.9	503.7	503.7
5°	503.2	502.1	502.6
7.5°	509.9	507.7	508.3
10°	522.4	520.1	519.0
12.5°	538.1	535.3	535.3
15°	554.5	547.8	547.3
17.5°	568.1	559.6	558.5
20°	583.3	572.0	570.4
22.5°	597.5	582.2	580.0
25°	607.7	589.0	586.2
27.5°	612.1	590.2	587.9
30°	615.5	590.7	587.4
32.5°	612.1	585.6	582.8
35°	593.5	564.8	563.0
37.5°	561.3	529.1	526.8
40°	519.0	485.1	479.5
42.5°	464.8	433.2	426.9
45°	412.2	376.1	373.3
47.5°	355.8	321.3	323.0
50°	296.5	265.4	264.9
52.5°	240.0	212.8	211.2
55°	189.2	169.9	168.3
57.5°	149.6	139.5	137.8
60°	122.0	116.9	115.2
62.5°	98.2	96.6	96.0
65°	81.9	81.9	81.9
67.5°	71.2	71.7	71.7
70°	65.5	66.1	65.5
72.5°	63.2	65.0	65.0
75°	61.6	62.7	60.4
77.5°	60.4	61.0	57.0
80°	59.9	59.3	51.9
82.5°	51.9	50.3	44.0
85°	47.5	36.2	30.5
87.5°	24.2	16.9	13.0
90°	0.0	0.0	0.0

(END OF REPORT)