

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: P149772

Luminaire Tested: **AVS-E04-LED-E-U-SL2-HSS-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149772
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-E04-LED-E-U-SL2-HSS-7060
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7525.8 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 97.2
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

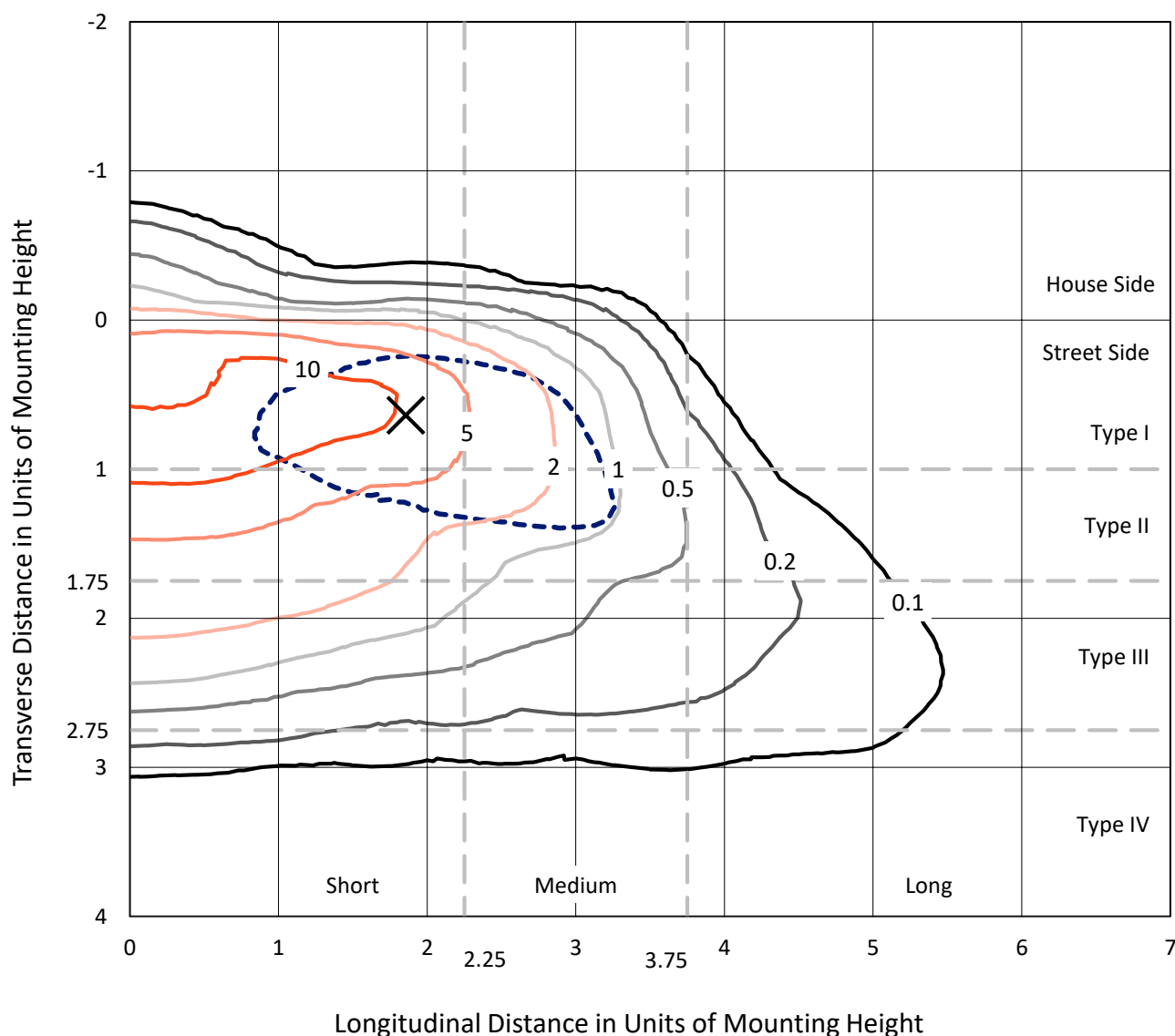


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

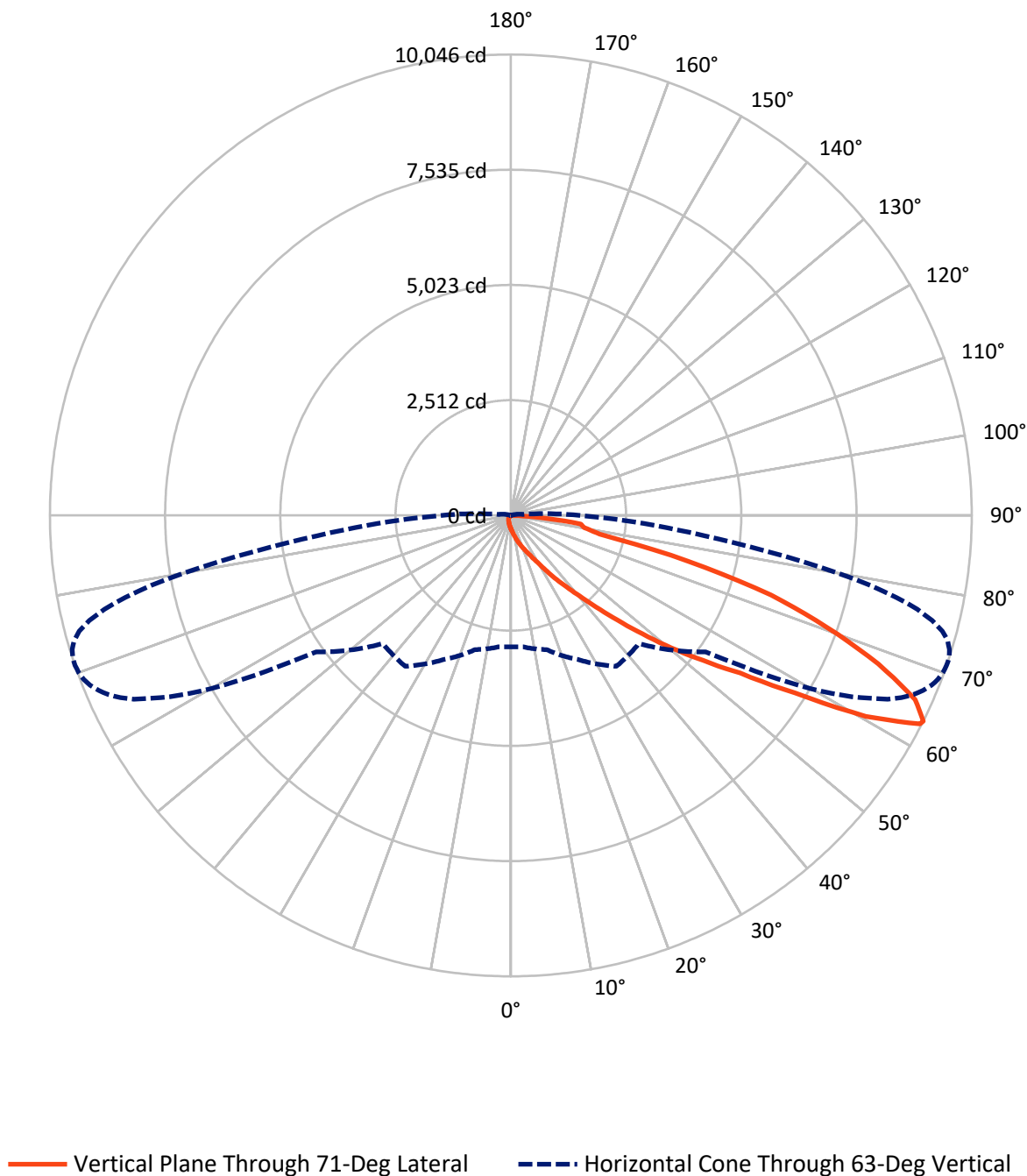


Based on 10 foot mounting height. Maximum calculated value = 15.8 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	159.8	0.0	159.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7366.0	0.0	7366.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	7525.8	0.0	7525.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.9	0.4
10°-20°	123.7	1.6
20°-30°	251.3	3.3
30°-40°	614.1	8.2
40°-50°	1373.3	18.2
50°-60°	1931.0	25.7
60°-70°	2270.7	30.2
70°-80°	819.9	10.9
80°-90°	109.6	1.5
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°	7525.8	100.0
0°-180°	7525.8	100.0

Coefficient of Utilization



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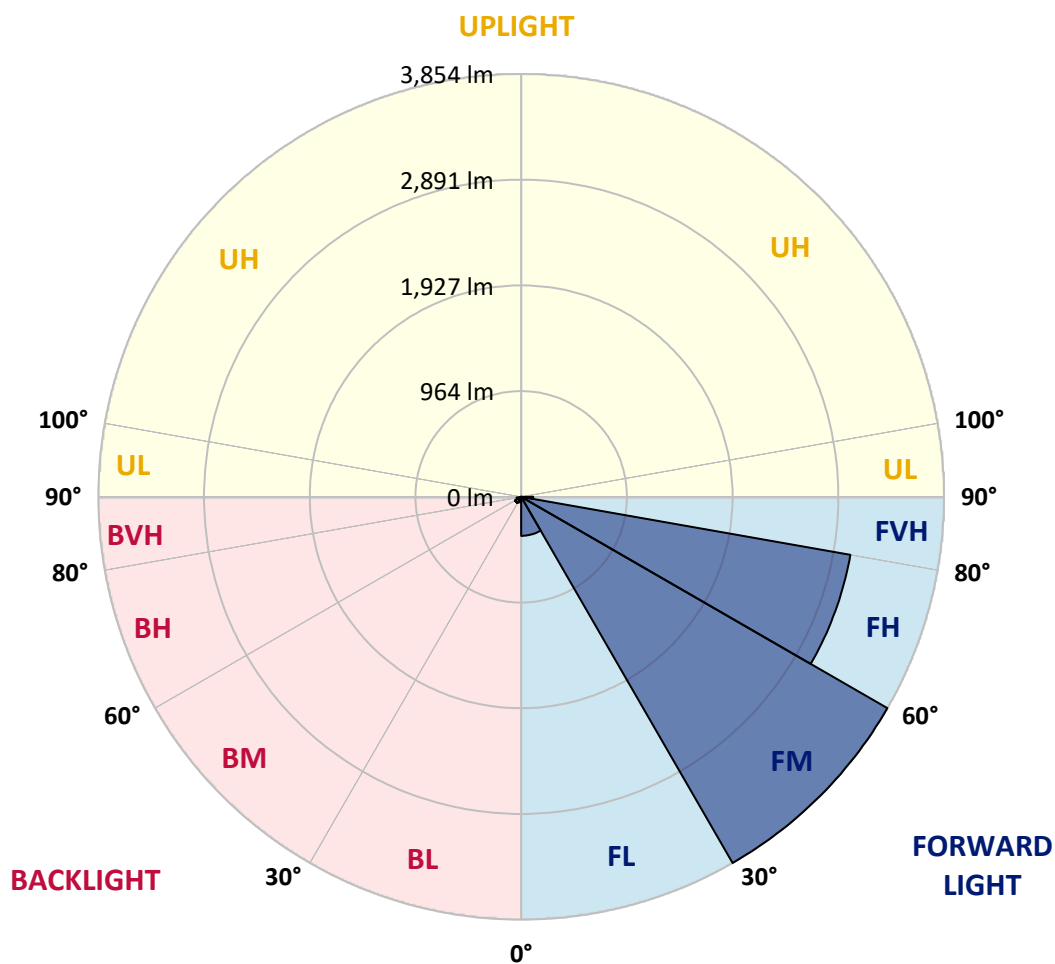
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	355.6	4.7			
FM	(30°-60°)	3854.1	51.2			
FH	(60°-80°)	3046.9	40.5			G2/5000
FVH	(80°-90°)	109.4	1.5			G2/225
BL	(0°-30°)	51.4	0.7	B0/110		
BM	(30°-60°)	64.4	0.9	B0/220		
BH	(60°-80°)	43.8	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	377.6	381.8	379.0	372.1	363.9	353.0	343.4	343.4	342.1	337.9	339.3
5°	495.2	496.7	491.2	474.7	459.7	436.5	410.5	407.7	405.0	400.8	399.5
7.5°	610.2	615.6	610.2	592.4	562.3	526.7	485.7	481.6	473.4	473.4	467.9
10°	727.9	727.9	722.4	701.9	674.5	623.8	571.9	565.1	555.4	552.7	544.6
12.5°	811.3	811.3	808.6	797.6	775.8	730.6	667.7	660.8	648.5	644.4	634.8
15°	844.1	844.1	845.5	855.1	856.5	836.0	770.3	764.8	752.4	741.6	737.4
17.5°	864.7	863.3	863.3	877.0	901.6	915.3	872.8	867.4	853.7	848.3	834.6
20°	909.8	907.0	898.9	898.9	922.2	970.1	970.1	968.6	953.6	949.5	942.7
22.5°	976.9	974.1	949.5	929.0	939.9	1000.1	1056.2	1053.5	1048.0	1042.5	1038.4
25°	1086.3	1076.7	1034.3	974.1	964.6	1028.8	1121.9	1128.7	1132.8	1132.8	1135.5
27.5°	1251.8	1239.6	1164.2	1052.1	1009.6	1075.3	1194.4	1208.1	1220.4	1223.1	1235.4
30°	1481.7	1459.8	1351.7	1187.6	1090.4	1143.7	1301.1	1316.2	1333.9	1339.4	1358.5
32.5°	1859.3	1846.9	1743.0	1496.8	1288.8	1277.8	1450.3	1469.4	1492.6	1502.2	1525.5
35°	2433.9	2436.7	2351.8	2130.2	1842.9	1692.4	1717.0	1733.5	1741.7	1770.4	1782.7
37.5°	2823.8	2830.7	2849.8	2762.3	2557.1	2403.8	2210.9	2228.7	2186.3	2190.4	2191.7
40°	3037.3	3059.2	3171.4	3256.2	3239.8	3150.8	2996.3	3005.8	2926.4	2908.7	2822.5
42.5°	3179.6	3208.3	3387.6	3650.2	3784.2	3865.0	3829.4	3825.3	3763.7	3740.5	3668.0
45°	3268.5	3294.5	3520.2	3907.5	4216.6	4451.9	4549.1	4560.0	4508.0	4484.8	4424.6
47.5°	3264.4	3294.5	3536.7	4003.2	4458.8	4835.0	5108.6	5122.3	5153.8	5133.3	5137.4
50°	3083.8	3112.5	3356.1	3840.4	4387.7	5010.2	5510.9	5554.6	5605.3	5639.5	5655.9
52.5°	2864.9	2885.4	3101.6	3561.2	4083.9	4937.6	5748.9	5824.1	5899.4	5963.7	6008.9
55°	2784.1	2807.5	2977.1	3358.8	3840.4	4633.9	5859.8	5970.6	6077.3	6182.6	6268.8
57.5°	2826.5	2848.5	2970.3	3263.0	3695.3	4313.8	5891.2	6063.6	6238.8	6409.7	6579.4
60°	2982.6	3005.8	3109.7	3351.9	3657.0	4129.0	5768.1	6054.0	6345.4	6643.7	6924.1
62.5°	2920.9	2930.6	3083.8	3507.9	3930.7	3971.7	5320.7	5720.2	6164.9	6624.6	7077.4
63°	2862.2	2873.1	3029.0	3465.5	4014.1	3948.5	5182.5	5603.9	6073.2	6568.4	7060.9
65°	2595.3	2596.7	2715.8	3060.5	3921.1	3989.5	4566.8	4969.1	5508.1	6101.9	6724.5
67.5°	1937.3	1927.7	2042.6	2305.3	3078.3	3990.9	3919.7	4145.5	4520.3	5047.0	5605.3
70°	686.8	671.7	857.8	1221.8	1918.1	3264.4	3368.4	3383.4	3487.4	3771.9	4122.2
72.5°	223.0	227.2	273.7	447.4	883.8	2197.2	3049.5	3003.1	2975.8	2974.3	3020.8
75°	88.9	90.3	109.4	198.3	396.8	1059.0	2670.6	2696.6	2706.2	2719.9	2734.9
77.5°	42.4	46.5	61.6	110.8	197.0	524.0	1911.3	2131.6	2257.4	2354.6	2413.4
80°	15.0	17.8	34.2	68.4	91.7	240.8	1006.9	1214.9	1399.6	1637.6	1842.9
82.5°	0.0	0.0	6.8	47.9	50.6	97.1	413.2	484.4	554.1	718.2	922.2
85°	0.0	0.0	0.0	13.7	15.0	16.4	139.6	168.3	188.8	220.3	254.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.1	8.2	20.5	31.5
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: AVS-E04-LED-E-U-SL2-HSS-7060

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	336.6	335.2	335.2	332.4	331.1	328.4	326.9	322.9	321.6	321.6	321.6
5°	398.1	392.6	389.9	383.1	379.0	377.6	370.8	368.0	363.9	365.3	358.4
7.5°	466.5	457.0	452.8	443.3	440.5	431.0	428.2	421.3	417.3	409.1	406.3
10°	541.8	529.4	522.6	507.6	503.5	496.7	488.4	480.2	473.4	465.2	461.0
12.5°	628.0	617.0	611.6	591.1	581.5	571.9	560.9	549.9	539.1	532.2	522.6
15°	729.2	711.4	706.0	686.8	670.4	658.0	643.0	629.3	621.1	607.5	597.9
17.5°	829.1	811.3	807.3	778.4	760.7	752.4	736.1	718.2	703.2	689.5	674.5
20°	929.0	916.7	905.7	878.3	859.2	845.5	823.6	805.8	793.5	774.4	755.2
22.5°	1028.8	1016.5	1008.3	979.6	961.8	942.7	923.5	904.4	886.5	863.3	841.5
25°	1131.5	1123.2	1119.2	1093.2	1076.7	1059.0	1039.8	1017.9	996.0	970.1	946.7
27.5°	1238.1	1240.9	1232.7	1227.3	1209.4	1197.1	1167.0	1152.0	1135.5	1104.0	1075.3
30°	1373.6	1381.9	1379.1	1383.2	1372.2	1364.0	1340.8	1321.7	1302.5	1272.3	1239.6
32.5°	1544.7	1555.5	1561.0	1576.1	1570.7	1567.9	1561.0	1533.7	1520.0	1468.0	1454.3
35°	1808.7	1803.2	1826.4	1838.8	1833.3	1830.6	1822.4	1807.4	1790.9	1754.0	1719.8
37.5°	2152.1	2157.5	2165.8	2141.1	2124.8	2123.3	2098.8	2083.6	2060.4	2019.4	1978.3
40°	2781.5	2747.3	2708.9	2605.0	2559.8	2533.8	2461.2	2440.7	2401.0	2345.0	2302.6
42.5°	3599.6	3565.4	3450.5	3276.7	3183.6	3055.0	2996.3	2923.7	2867.7	2776.0	2726.7
45°	4412.2	4313.8	4300.1	4097.6	3982.7	3813.1	3707.7	3585.9	3458.7	3338.2	3250.7
47.5°	5097.7	5075.8	5008.8	4885.6	4779.0	4636.6	4501.1	4313.8	4182.4	4011.4	3854.1
50°	5646.3	5645.0	5620.3	5549.2	5460.2	5345.3	5226.3	5067.6	4918.4	4709.1	4540.8
52.5°	6056.8	6078.7	6086.8	6065.0	6030.8	5929.5	5869.3	5736.6	5610.8	5432.8	5250.9
55°	6357.7	6438.4	6479.5	6526.0	6516.5	6480.9	6478.1	6391.9	6334.5	6193.6	6065.0
57.5°	6729.8	6862.6	6989.8	7215.5	7223.7	7303.1	7344.1	7385.2	7396.2	7340.1	7297.6
60°	7203.2	7474.2	7714.9	8186.9	8310.1	8504.4	8630.3	8767.0	8883.3	8893.0	8890.2
62.5°	7537.1	7954.4	8342.9	9043.4	9282.8	9507.3	9675.4	9808.2	9888.9	9971.0	10009.3
63°	7546.6	8003.6	8416.8	9139.2	9390.9	9604.4	9764.5	9887.6	9972.3	10021.7	10046.2
65°	7315.4	7869.5	8362.1	9081.8	9318.4	9533.2	9616.7	9697.4	9738.4	9757.6	9685.1
67.5°	6200.4	6742.2	7316.8	8121.2	8323.7	8580.9	8649.4	8690.5	8709.5	8705.5	8643.9
70°	4636.6	5090.9	5729.7	6649.1	6917.3	7169.0	7325.0	7392.0	7414.0	7407.2	7315.4
72.5°	3237.0	3503.8	4030.6	5053.9	5419.2	5742.1	5935.0	6034.8	6055.4	6014.3	5929.5
75°	2718.4	2732.2	2851.2	3410.8	3752.8	4097.6	4315.1	4378.0	4337.0	4212.5	3996.4
77.5°	2427.0	2457.2	2457.2	2540.6	2607.7	2703.4	2723.9	2570.8	2392.8	2163.0	1977.0
80°	2035.8	2141.1	2215.0	2276.6	2283.4	2264.2	2213.7	2127.5	1990.7	1815.5	1621.2
82.5°	1236.8	1444.8	1529.5	1846.9	2003.0	2108.3	2100.1	1985.2	1881.2	1699.3	1533.7
85°	311.9	336.6	365.3	474.7	532.2	649.8	723.7	757.9	770.3	707.4	640.3
87.5°	30.1	20.5	34.2	26.0	36.9	27.4	36.9	34.2	42.4	45.2	49.2
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	318.8	317.4	316.1	314.7	313.3	311.9	309.2	309.2	306.4	305.1	303.7
5°	354.3	351.6	350.3	347.5	343.4	340.6	336.6	331.1	326.9	325.6	322.9
7.5°	399.5	392.6	389.9	385.8	380.3	372.1	366.6	362.6	355.8	351.6	343.4
10°	450.2	443.3	435.0	426.8	418.7	409.1	402.3	396.8	385.8	380.3	370.8
12.5°	514.4	502.1	492.5	481.6	470.7	459.7	451.5	435.0	425.5	413.2	405.0
15°	580.1	569.1	558.2	544.6	528.1	510.4	502.1	487.0	474.7	455.5	444.7
17.5°	659.5	639.0	622.5	606.1	591.1	574.6	558.2	534.9	517.2	500.7	478.9
20°	737.4	712.8	695.0	673.2	651.2	625.3	606.1	589.6	565.1	543.1	519.9
22.5°	820.9	796.3	767.6	745.6	715.5	695.0	669.0	641.7	617.0	588.3	559.6
25°	922.2	896.2	863.3	834.6	800.3	771.6	740.2	708.7	678.5	645.8	608.8
27.5°	1046.6	1019.3	983.7	949.5	904.4	868.8	838.7	796.3	757.9	716.9	674.5
30°	1203.9	1173.9	1130.1	1080.8	1035.6	996.0	953.6	897.5	855.1	805.8	751.1
32.5°	1409.2	1373.6	1314.8	1268.3	1212.1	1160.2	1101.3	1045.3	985.1	920.7	857.8
35°	1667.8	1634.9	1566.5	1498.1	1436.6	1375.0	1301.1	1236.8	1152.0	1074.0	993.3
37.5°	1936.0	1877.1	1814.2	1740.3	1663.6	1589.7	1499.5	1410.6	1313.4	1228.6	1127.4
40°	2242.4	2171.2	2119.3	2039.9	1931.8	1826.4	1743.0	1632.2	1510.5	1396.9	1277.8
42.5°	2662.4	2583.0	2490.1	2369.6	2291.6	2168.5	2060.4	1929.1	1769.0	1641.8	1498.1
45°	3148.1	3040.0	2949.7	2833.4	2739.1	2585.8	2459.9	2284.8	2124.8	1957.8	1782.7
47.5°	3702.2	3568.1	3436.8	3321.9	3171.4	3020.8	2860.8	2674.7	2469.5	2286.1	2078.2
50°	4338.3	4148.2	3966.2	3818.4	3611.9	3438.1	3264.4	3055.0	2828.0	2617.2	2380.5
52.5°	5045.7	4825.4	4584.7	4357.5	4118.1	3895.1	3685.8	3445.0	3191.9	2934.6	2670.6
55°	5899.4	5733.9	5450.7	5162.0	4841.9	4543.6	4274.1	3975.9	3668.0	3330.1	3052.3
57.5°	7236.1	7155.3	6918.7	6630.1	6212.7	5850.2	5393.2	5027.9	4581.9	4116.7	3758.2
60°	9047.6	8947.7	8814.9	8580.9	8249.8	7757.3	7253.9	6686.1	6007.5	5363.1	4751.5
62.5°	10013.5	9977.8	9869.7	9708.3	9399.2	9010.6	8503.0	7879.2	7113.0	6330.4	5550.6
63°	10042.2	9997.0	9903.9	9739.8	9467.6	9091.3	8593.3	7987.3	7237.5	6439.8	5643.6
65°	9653.6	9635.9	9541.5	9362.2	9176.2	8888.8	8503.0	7981.8	7352.4	6598.5	5806.4
67.5°	8561.9	8508.5	8363.4	8308.7	8178.8	7979.0	7684.9	7326.4	6876.3	6283.8	5599.8
70°	7241.6	7162.2	6980.2	6883.1	6724.5	6598.5	6419.3	6163.5	5885.7	5472.5	4962.3
72.5°	5842.0	5677.8	5510.9	5257.7	5036.2	4811.7	4613.4	4432.7	4127.7	3960.7	3573.6
75°	3793.9	3495.6	3209.6	2826.5	2481.8	2176.7	1879.8	1729.3	1416.1	1288.8	1106.8
77.5°	1800.5	1633.6	1409.2	1235.4	1013.8	827.8	675.9	507.6	398.1	311.9	238.0
80°	1453.0	1312.0	1176.6	1019.3	852.3	680.0	521.2	389.9	276.4	191.5	135.4
82.5°	1295.6	1142.4	975.4	867.4	753.9	617.0	506.2	413.2	305.1	223.0	151.8
85°	503.5	424.1	326.9	266.7	208.0	171.0	154.6	106.7	83.4	65.7	50.6
87.5°	43.7	35.5	28.7	19.2	20.5	11.0	12.3	8.2	6.8	6.8	5.5
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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CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	302.4	301.0	299.6	296.9	296.9	294.2	292.7	291.4	284.6	269.5	257.2
5°	317.4	314.7	311.9	307.9	305.1	301.0	298.2	294.2	279.1	250.4	225.7
7.5°	339.3	333.8	329.7	321.6	317.4	311.9	307.9	301.0	276.4	232.5	198.3
10°	365.3	355.8	348.9	339.3	331.1	324.2	317.4	307.9	273.7	213.5	173.8
12.5°	396.8	385.8	372.1	361.1	350.3	340.6	331.1	318.8	269.5	197.0	154.6
15°	428.2	411.8	402.3	387.2	372.1	358.4	344.8	333.8	270.9	179.3	138.1
17.5°	463.8	447.4	426.8	410.5	394.0	376.3	359.8	337.9	264.0	165.6	125.9
20°	498.0	474.7	455.5	435.0	411.8	389.9	369.4	350.3	258.5	151.8	114.9
22.5°	534.9	507.6	483.0	457.0	428.2	403.6	379.0	354.3	249.0	139.6	105.4
25°	580.1	548.6	513.1	481.6	451.5	421.3	389.9	359.8	239.4	128.6	98.5
27.5°	634.8	593.8	558.2	518.5	476.1	437.8	403.6	370.8	229.8	120.4	91.7
30°	704.6	656.7	606.1	555.4	510.4	466.5	418.7	377.6	220.3	112.2	84.9
32.5°	797.6	737.4	675.9	617.0	556.8	500.7	450.2	396.8	214.8	105.4	78.0
35°	920.7	842.8	767.6	693.7	621.1	552.7	487.0	426.8	214.8	97.1	69.7
37.5°	1037.1	946.7	851.0	759.3	673.2	593.8	515.8	443.3	203.8	90.3	62.9
40°	1162.9	1054.8	942.7	834.6	730.6	632.1	543.1	459.7	194.3	82.1	56.1
42.5°	1355.9	1219.0	1072.6	946.7	822.3	700.5	589.6	491.2	182.0	73.9	49.2
45°	1608.9	1435.1	1262.8	1109.5	950.9	801.8	670.4	548.6	179.3	67.0	42.4
47.5°	1879.8	1674.6	1472.1	1276.5	1090.4	916.7	759.3	613.0	179.3	60.2	36.9
50°	2149.3	1892.1	1676.0	1448.9	1239.6	1034.3	846.8	680.0	180.6	54.7	30.1
52.5°	2392.8	2117.9	1875.8	1613.1	1381.9	1143.7	939.9	745.6	177.8	47.9	24.7
55°	2730.8	2407.9	2127.5	1837.4	1566.5	1298.3	1067.2	844.1	179.3	42.4	20.5
57.5°	3353.3	2974.3	2636.4	2256.1	1944.1	1598.0	1317.5	1046.6	195.6	35.5	15.0
60°	4246.7	3754.2	3279.5	2815.6	2418.9	2007.0	1643.1	1324.4	229.8	28.7	11.0
62.5°	4847.4	4202.9	3636.5	3124.9	2663.7	2232.8	1836.1	1473.5	253.1	23.2	6.8
63°	4908.9	4242.6	3673.5	3145.4	2674.7	2243.7	1844.2	1484.5	254.5	21.9	6.8
65°	5025.2	4311.0	3694.0	3149.4	2663.7	2228.7	1838.8	1483.1	257.2	17.8	5.5
67.5°	4892.4	4205.7	3574.9	3031.8	2568.0	2139.8	1770.4	1428.3	255.9	12.3	4.1
70°	4375.3	3806.2	3252.0	2745.9	2324.5	1937.3	1611.7	1302.5	235.3	8.2	2.7
72.5°	3212.4	2825.2	2395.6	2030.4	1751.2	1454.3	1240.9	978.2	182.0	5.5	1.3
75°	952.2	867.4	729.2	643.0	567.8	469.2	417.3	325.6	93.1	2.7	0.0
77.5°	190.2	172.4	154.6	140.9	132.7	113.6	108.1	88.9	38.3	1.3	0.0
80°	99.9	82.1	69.7	61.6	53.4	43.7	36.9	30.1	6.8	0.0	0.0
82.5°	95.8	64.4	46.5	38.3	32.8	26.0	20.5	15.0	4.1	0.0	0.0
85°	35.5	27.4	20.5	16.4	13.7	12.3	9.5	8.2	0.0	0.0	0.0
87.5°	5.5	4.1	4.1	2.7	2.7	1.3	1.3	1.3	0.0	0.0	0.0
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-E04-LED-E-U-SL2-HSS-7060

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	244.9	234.0	228.5	221.7	221.7	220.3	223.0
5°	203.8	188.8	177.8	169.6	171.0	166.9	168.3
7.5°	172.4	157.3	147.8	142.3	140.9	139.6	139.6
10°	149.1	135.4	127.3	123.1	121.8	121.8	121.8
12.5°	132.7	119.1	112.2	109.4	109.4	108.1	108.1
15°	119.1	108.1	101.2	98.5	98.5	97.1	98.5
17.5°	108.1	97.1	91.7	88.9	88.9	87.6	87.6
20°	98.5	88.9	83.4	79.4	79.4	78.0	79.4
22.5°	90.3	80.7	73.9	71.2	69.7	68.4	69.7
25°	82.1	72.5	65.7	61.6	60.2	60.2	58.9
27.5°	75.2	65.7	57.5	53.4	52.0	52.0	50.6
30°	68.4	57.5	49.2	45.2	43.7	43.7	43.7
32.5°	61.6	49.2	42.4	38.3	36.9	36.9	36.9
35°	54.7	42.4	35.5	31.5	30.1	30.1	30.1
37.5°	46.5	35.5	27.4	24.7	23.2	21.9	21.9
40°	39.7	27.4	20.5	17.8	15.0	15.0	15.0
42.5°	32.8	21.9	15.0	11.0	9.5	8.2	9.5
45°	27.4	16.4	9.5	5.5	4.1	4.1	4.1
47.5°	21.9	11.0	4.1	1.3	1.3	1.3	1.3
50°	16.4	6.8	1.3	0.0	0.0	1.3	1.3
52.5°	12.3	4.1	0.0	0.0	0.0	0.0	0.0
55°	6.8	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	4.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)