

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: INVUE

Report Number: P149395

Luminaire Tested: **VWM-F05-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149395  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VWM-F05-LED-E1-SL2-HSS  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (35) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7568.3 lumens  
Efficiency: N/A  
Efficacy: 56.8 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G2

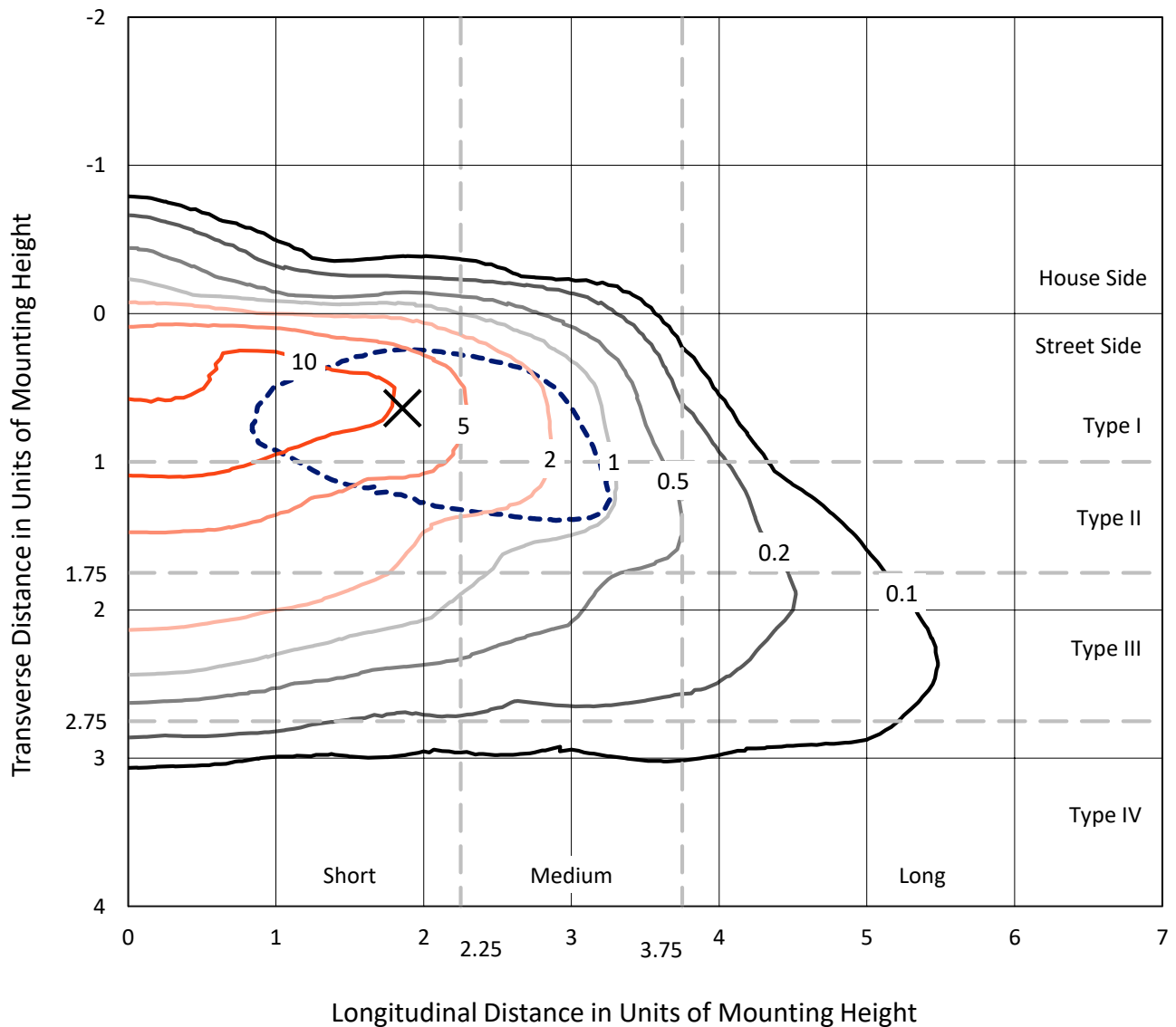
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

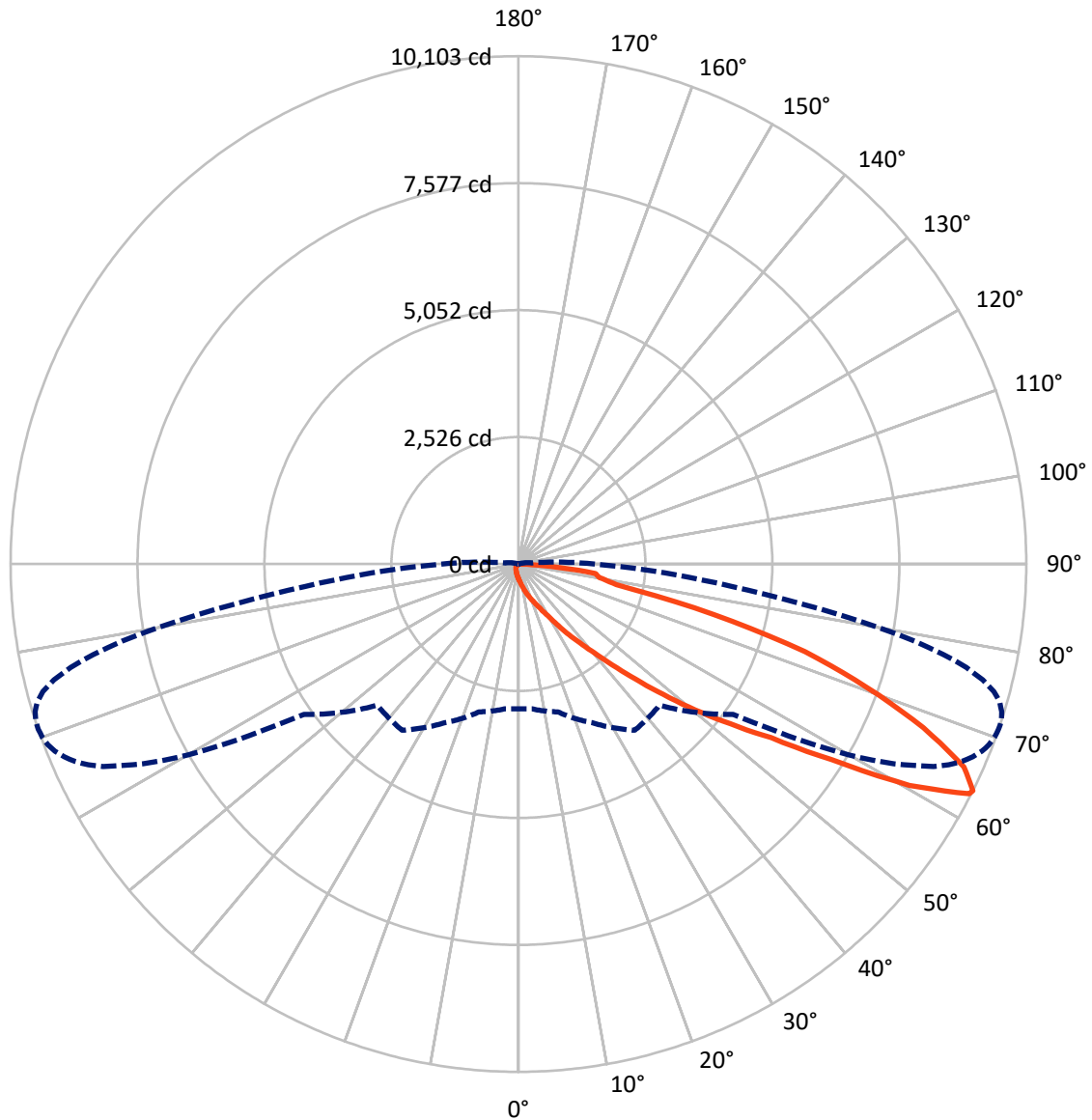
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	160.7	0.0	160.7
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	7407.6	0.0	7407.6
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	7568.3	0.0	7568.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.1	0.4
10°-20°	124.4	1.6
20°-30°	252.8	3.3
30°-40°	617.5	8.2
40°-50°	1381.1	18.2
50°-60°	1942.0	25.7
60°-70°	2283.6	30.2
70°-80°	824.6	10.9
80°-90°	110.3	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°	7568.3	100.0
0°-180°	7568.3	100.0



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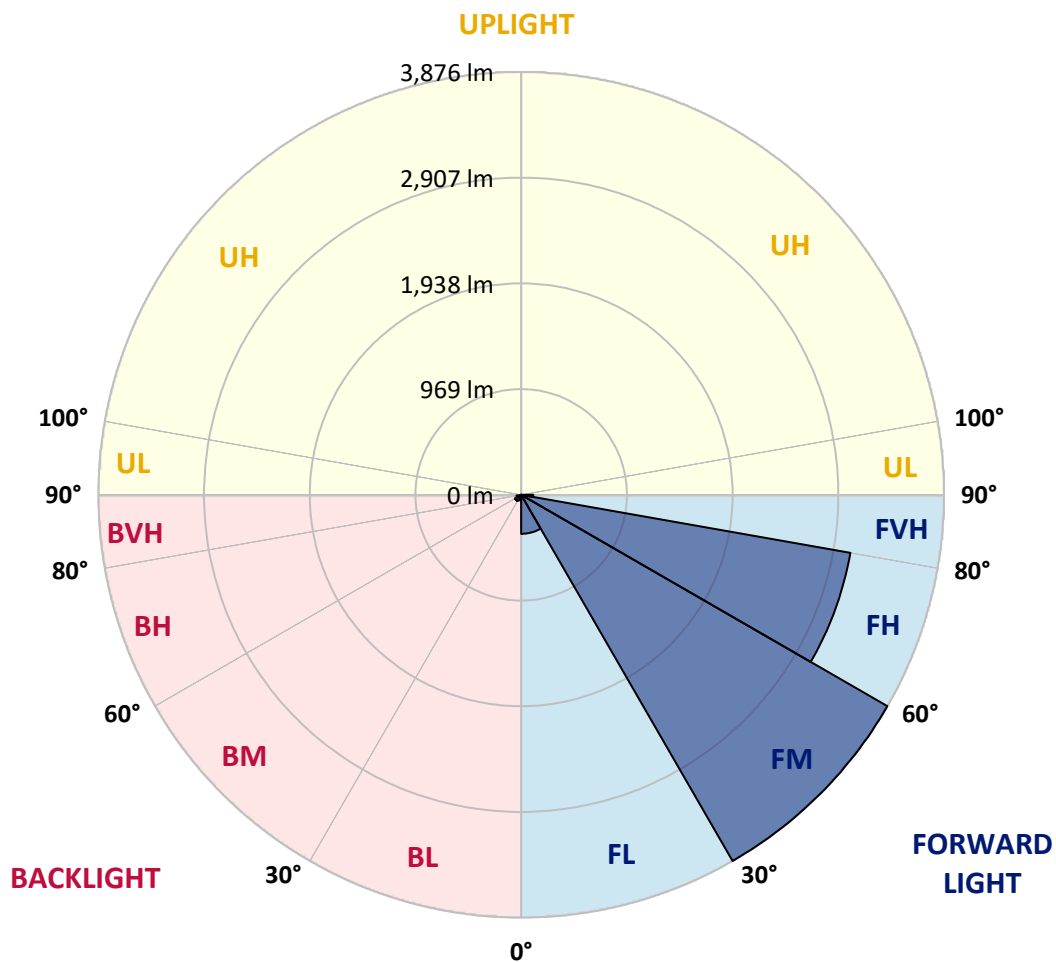
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.6	4.7			
FM (30°-60°)	3875.8	51.2			
FH (60°-80°)	3064.1	40.5			G2/5000
FVH (80°-90°)	110.0	1.5			G2/225
BL (0°-30°)	51.7	0.7	B0/110		
BM (30°-60°)	64.7	0.9	B0/220		
BH (60°-80°)	44.1	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°	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3
2.5°	379.7	383.9	381.1	374.2	366.0	355.0	345.3	345.3	344.0	339.8	341.2
5°	498.1	499.4	493.9	477.4	462.3	438.9	412.8	410.0	407.3	403.1	401.8
7.5°	613.6	619.1	613.6	595.8	565.5	529.7	488.4	484.3	476.1	476.1	470.5
10°	732.0	732.0	726.5	705.8	678.3	627.4	575.1	568.2	558.6	555.9	547.6
12.5°	815.9	815.9	813.1	802.1	780.1	734.7	671.4	664.5	652.2	648.0	638.4
15°	848.9	848.9	850.3	859.9	861.3	840.7	774.6	769.1	756.7	745.7	741.6
17.5°	869.6	868.2	868.2	881.9	906.7	920.5	877.8	872.3	858.5	853.0	839.3
20°	915.0	912.2	903.9	903.9	927.3	975.5	975.5	974.1	959.0	954.9	948.0
22.5°	982.4	979.6	954.9	934.2	945.2	1005.8	1062.2	1059.4	1053.9	1048.4	1044.3
25°	1092.4	1082.8	1040.2	979.6	970.0	1034.7	1128.2	1135.1	1139.2	1139.2	1142.0
27.5°	1258.9	1246.5	1170.9	1058.0	1015.4	1081.4	1201.1	1214.9	1227.3	1230.0	1242.4
30°	1490.1	1468.1	1359.4	1194.3	1096.6	1150.2	1308.5	1323.6	1341.5	1347.0	1366.2
32.5°	1869.8	1857.4	1752.9	1505.2	1296.1	1285.1	1458.4	1477.7	1501.1	1510.7	1534.1
35°	2447.7	2450.4	2365.1	2142.2	1853.3	1702.0	1726.7	1743.2	1751.5	1780.4	1792.8
37.5°	2839.8	2846.7	2865.9	2777.9	2571.5	2417.4	2223.4	2241.3	2198.6	2202.8	2204.2
40°	3054.4	3076.5	3189.3	3274.6	3258.1	3168.6	3013.2	3022.8	2943.0	2925.1	2838.4
42.5°	3197.5	3226.4	3406.7	3670.8	3805.7	3886.8	3851.1	3846.9	3785.0	3761.6	3688.7
45°	3287.0	3313.1	3540.1	3929.5	4240.4	4477.1	4574.8	4585.8	4533.5	4510.1	4449.6
47.5°	3282.8	3313.1	3556.6	4025.8	4484.0	4862.3	5137.5	5151.3	5182.9	5162.3	5166.4
50°	3101.2	3130.1	3375.0	3862.1	4412.4	5038.5	5542.0	5586.1	5637.0	5671.4	5687.9
52.5°	2881.1	2901.7	3119.1	3581.4	4107.0	4965.5	5781.4	5857.1	5932.8	5997.4	6042.8
55°	2799.9	2823.3	2993.9	3377.8	3862.1	4660.1	5892.9	6004.3	6111.6	6217.6	6304.3
57.5°	2842.6	2864.6	2987.0	3281.5	3716.2	4338.1	5924.5	6097.9	6274.0	6446.0	6616.6
60°	2999.4	3022.8	3127.4	3370.9	3677.7	4152.4	5800.7	6088.2	6381.3	6681.2	6963.3
62.5°	2937.5	2947.1	3101.2	3527.7	3952.9	3994.2	5350.8	5752.5	6199.7	6662.0	7117.4
63°	2878.3	2889.3	3046.2	3485.1	4036.8	3970.8	5211.8	5635.6	6107.5	6605.6	7100.9
65°	2610.0	2611.4	2731.1	3077.8	3943.3	4012.1	4592.7	4997.2	5539.3	6136.4	6762.4
67.5°	1948.2	1938.6	2054.2	2318.3	3095.7	4013.4	3941.9	4168.9	4545.9	5075.6	5637.0
70°	690.7	675.6	862.7	1228.7	1929.0	3282.8	3387.4	3402.5	3507.1	3793.3	4145.5
72.5°	224.3	228.4	275.2	449.9	888.8	2209.7	3066.8	3020.0	2992.5	2991.2	3037.9
75°	89.4	90.8	110.1	199.5	399.0	1064.9	2685.7	2711.8	2721.5	2735.2	2750.4
77.5°	42.7	46.8	61.9	111.4	198.1	527.0	1922.1	2143.6	2270.2	2367.9	2427.0
80°	15.1	17.9	34.4	68.8	92.2	242.2	1012.6	1221.8	1407.5	1646.9	1853.3
82.5°	0.0	0.0	6.9	48.2	50.9	97.7	415.5	487.1	557.2	722.3	927.3
85°	0.0	0.0	0.0	13.8	15.1	16.5	140.3	169.2	189.9	221.5	255.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	8.3	20.6	31.6
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3
2.5°	338.5	337.1	337.1	334.3	333.0	330.2	328.8	324.7	323.3	323.3	323.3
5°	400.4	394.9	392.1	385.2	381.1	379.7	372.9	370.1	366.0	367.4	360.5
7.5°	469.2	459.5	455.4	445.8	443.0	433.4	430.6	423.8	419.6	411.4	408.6
10°	544.8	532.5	525.6	510.4	506.3	499.4	491.2	482.9	476.1	467.8	463.7
12.5°	631.5	620.5	615.0	594.4	584.7	575.1	564.1	553.1	542.1	535.2	525.6
15°	733.3	715.5	710.0	690.7	674.2	661.8	646.7	632.9	624.6	610.9	601.3
17.5°	833.8	815.9	811.8	782.9	765.0	756.7	740.2	722.3	707.2	693.4	678.3
20°	934.2	921.8	910.8	883.3	864.0	850.3	828.3	810.4	798.0	778.7	759.5
22.5°	1034.7	1022.3	1014.0	985.1	967.2	948.0	928.7	909.5	891.6	868.2	846.2
25°	1137.8	1129.6	1125.5	1099.3	1082.8	1064.9	1045.7	1023.7	1001.6	975.5	952.1
27.5°	1245.2	1247.9	1239.7	1234.2	1216.3	1203.9	1173.6	1158.5	1142.0	1110.3	1081.4
30°	1381.4	1389.6	1386.9	1391.0	1380.0	1371.7	1348.4	1329.1	1309.8	1279.6	1246.5
32.5°	1553.4	1564.4	1569.9	1585.0	1579.5	1576.8	1569.9	1542.4	1528.6	1476.3	1462.6
35°	1818.9	1813.4	1836.8	1849.2	1843.7	1840.9	1832.7	1817.5	1801.0	1763.9	1729.5
37.5°	2164.3	2169.8	2178.0	2153.2	2136.7	2135.4	2110.6	2095.5	2072.1	2030.8	1989.5
40°	2797.2	2762.8	2724.2	2619.7	2574.3	2548.1	2475.2	2454.6	2414.7	2358.2	2315.6
42.5°	3619.9	3585.5	3470.0	3295.2	3201.7	3072.3	3013.2	2940.2	2883.8	2791.7	2742.1
45°	4437.2	4338.1	4324.4	4120.7	4005.2	3834.6	3728.6	3606.2	3478.2	3357.1	3269.1
47.5°	5126.5	5104.5	5037.1	4913.2	4805.9	4662.8	4526.6	4338.1	4206.0	4034.1	3875.8
50°	5678.2	5676.9	5652.1	5580.5	5491.1	5375.5	5255.8	5096.2	4946.3	4735.8	4566.5
52.5°	6091.0	6113.0	6121.3	6099.3	6064.9	5963.0	5902.5	5769.0	5642.5	5463.6	5280.6
55°	6393.7	6474.9	6516.1	6562.9	6553.3	6517.5	6514.8	6428.1	6370.3	6228.6	6099.3
57.5°	6767.9	6901.4	7029.3	7256.4	7264.6	7344.4	7385.7	7427.0	7438.0	7381.6	7338.9
60°	7244.0	7516.4	7758.6	8233.2	8357.1	8552.4	8679.0	8816.6	8933.6	8943.2	8940.4
62.5°	7579.7	7999.3	8390.1	9094.5	9335.3	9561.0	9730.2	9863.6	9944.8	10027.4	10065.9
63°	7589.3	8048.9	8464.4	9190.8	9444.0	9658.6	9819.6	9943.4	10028.8	10078.3	10103.0
65°	7356.8	7914.0	8409.3	9133.1	9371.1	9587.1	9671.0	9752.2	9793.5	9812.7	9739.8
67.5°	6235.5	6780.3	7358.2	8167.2	8370.8	8629.5	8698.3	8739.6	8758.8	8754.7	8692.8
70°	4662.8	5119.6	5762.2	6686.8	6956.4	7209.6	7366.4	7433.9	7455.9	7449.0	7356.8
72.5°	3255.3	3523.6	4053.3	5082.5	5449.8	5774.5	5968.5	6069.0	6089.6	6048.3	5963.0
75°	2733.9	2747.6	2867.3	3430.1	3774.0	4120.7	4339.5	4402.8	4361.5	4236.3	4018.9
77.5°	2440.8	2471.1	2471.1	2555.0	2622.4	2718.7	2739.4	2585.3	2406.4	2175.3	1988.1
80°	2047.3	2153.2	2227.5	2289.5	2296.3	2277.1	2226.2	2139.5	2001.9	1825.8	1630.4
82.5°	1243.8	1452.9	1538.2	1857.4	2014.3	2120.2	2112.0	1996.4	1891.8	1708.8	1542.4
85°	313.7	338.5	367.4	477.4	535.2	653.5	727.8	762.2	774.6	711.3	643.9
87.5°	30.3	20.6	34.4	26.1	37.1	27.5	37.1	34.4	42.7	45.4	49.5
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):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3
2.5°	320.6	319.2	317.8	316.5	315.1	313.7	310.9	310.9	308.2	306.8	305.4
5°	356.4	353.6	352.2	349.5	345.3	342.6	338.5	333.0	328.8	327.5	324.7
7.5°	401.8	394.9	392.1	388.0	382.5	374.2	368.7	364.6	357.7	353.6	345.3
10°	452.7	445.8	437.5	429.3	421.0	411.4	404.5	399.0	388.0	382.5	372.9
12.5°	517.3	504.9	495.3	484.3	473.3	462.3	454.0	437.5	427.9	415.5	407.3
15°	583.4	572.4	561.4	547.6	531.1	513.2	504.9	489.8	477.4	458.2	447.2
17.5°	663.2	642.5	626.0	609.5	594.4	577.9	561.4	538.0	520.1	503.6	481.6
20°	741.6	716.8	698.9	676.9	654.9	628.8	609.5	593.0	568.2	546.2	522.8
22.5°	825.5	800.8	771.9	749.9	719.6	698.9	672.8	645.3	620.5	591.6	562.7
25°	927.3	901.2	868.2	839.3	804.9	776.0	744.3	712.7	682.4	649.4	612.3
27.5°	1052.5	1025.0	989.3	954.9	909.5	873.7	843.4	800.8	762.2	721.0	678.3
30°	1210.8	1180.5	1136.5	1086.9	1041.5	1001.6	959.0	902.6	859.9	810.4	755.4
32.5°	1417.2	1381.4	1322.2	1275.4	1219.0	1166.7	1107.6	1051.2	990.6	926.0	862.7
35°	1677.2	1644.2	1575.4	1506.6	1444.7	1382.8	1308.5	1243.8	1158.5	1080.1	998.9
37.5°	1946.9	1887.7	1824.4	1750.1	1673.1	1598.8	1508.0	1418.5	1320.8	1235.5	1133.7
40°	2255.1	2183.5	2131.2	2051.4	1942.7	1836.8	1752.9	1641.4	1519.0	1404.8	1285.1
42.5°	2677.5	2597.7	2504.1	2383.0	2304.6	2180.8	2072.1	1940.0	1779.0	1651.0	1506.6
45°	3165.9	3057.2	2966.4	2849.4	2754.5	2600.4	2473.8	2297.7	2136.7	1968.9	1792.8
47.5°	3723.1	3588.3	3456.2	3340.6	3189.3	3037.9	2877.0	2689.8	2483.5	2299.1	2090.0
50°	4362.9	4171.7	3988.7	3840.1	3632.3	3457.6	3282.8	3072.3	2843.9	2632.0	2394.0
52.5°	5074.2	4852.7	4610.6	4382.2	4141.4	3917.1	3706.6	3464.5	3209.9	2951.3	2685.7
55°	5932.8	5766.3	5481.5	5191.2	4869.2	4569.3	4298.2	3998.3	3688.7	3348.9	3069.6
57.5°	7277.0	7195.8	6957.8	6667.5	6247.8	5883.2	5423.7	5056.3	4607.8	4140.0	3779.5
60°	9098.7	8998.2	8864.8	8629.5	8296.5	7801.2	7294.9	6723.9	6041.5	5393.4	4778.4
62.5°	10070.0	10034.3	9925.6	9763.2	9452.3	9061.5	8551.1	7923.7	7153.2	6366.2	5581.9
63°	10098.9	10053.5	9960.0	9794.9	9521.1	9142.7	8641.9	8032.4	7278.4	6476.2	5675.5
65°	9708.2	9690.3	9595.4	9415.1	9228.0	8939.1	8551.1	8026.9	7394.0	6635.8	5839.2
67.5°	8610.2	8556.6	8410.7	8355.7	8225.0	8024.1	7728.3	7367.8	6915.1	6319.4	5631.5
70°	7282.5	7202.7	7019.7	6922.0	6762.4	6635.8	6455.6	6198.3	5919.0	5503.5	4990.3
72.5°	5875.0	5709.9	5542.0	5287.5	5064.6	4839.0	4639.5	4457.8	4151.0	3983.2	3593.8
75°	3815.3	3515.4	3227.8	2842.6	2495.8	2189.0	1890.5	1739.1	1424.0	1296.1	1113.1
77.5°	1810.7	1642.8	1417.2	1242.4	1019.5	832.4	679.7	510.4	400.4	313.7	239.4
80°	1461.2	1319.5	1183.3	1025.0	857.2	683.8	524.2	392.1	277.9	192.6	136.2
82.5°	1303.0	1148.9	981.0	872.3	758.1	620.5	509.1	415.5	306.8	224.3	152.7
85°	506.3	426.5	328.8	268.3	209.1	172.0	155.5	107.3	83.9	66.0	50.9
87.5°	44.0	35.8	28.9	19.3	20.6	11.0	12.4	8.3	6.9	6.9	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°	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3	290.3
2.5°	304.1	302.7	301.3	298.6	298.6	295.8	294.4	293.1	286.2	271.0	258.7
5°	319.2	316.5	313.7	309.6	306.8	302.7	299.9	295.8	280.7	251.8	227.0
7.5°	341.2	335.7	331.6	323.3	319.2	313.7	309.6	302.7	277.9	233.9	199.5
10°	367.4	357.7	350.8	341.2	333.0	326.1	319.2	309.6	275.2	214.6	174.7
12.5°	399.0	388.0	374.2	363.2	352.2	342.6	333.0	320.6	271.0	198.1	155.5
15°	430.6	414.1	404.5	389.4	374.2	360.5	346.7	335.7	272.4	180.2	139.0
17.5°	466.4	449.9	429.3	412.8	396.3	378.4	361.9	339.8	265.5	166.5	126.6
20°	500.8	477.4	458.2	437.5	414.1	392.1	371.5	352.2	260.0	152.7	115.6
22.5°	538.0	510.4	485.7	459.5	430.6	405.9	381.1	356.4	250.4	140.3	105.9
25°	583.4	551.7	516.0	484.3	454.0	423.8	392.1	361.9	240.8	129.3	99.1
27.5°	638.4	597.1	561.4	521.5	478.8	440.3	405.9	372.9	231.1	121.1	92.2
30°	708.6	660.4	609.5	558.6	513.2	469.2	421.0	379.7	221.5	112.8	85.3
32.5°	802.1	741.6	679.7	620.5	560.0	503.6	452.7	399.0	216.0	105.9	78.4
35°	926.0	847.5	771.9	697.6	624.6	555.9	489.8	429.3	216.0	97.7	70.2
37.5°	1042.9	952.1	855.8	763.6	676.9	597.1	518.7	445.8	205.0	90.8	63.3
40°	1169.5	1060.8	948.0	839.3	734.7	635.7	546.2	462.3	195.4	82.6	56.4
42.5°	1363.5	1225.9	1078.7	952.1	826.9	704.4	593.0	493.9	183.0	74.3	49.5
45°	1618.0	1443.3	1269.9	1115.8	956.2	806.3	674.2	551.7	180.2	67.4	42.7
47.5°	1890.5	1684.1	1480.4	1283.7	1096.6	921.8	763.6	616.4	180.2	60.5	37.1
50°	2161.5	1902.8	1685.4	1457.1	1246.5	1040.2	851.7	683.8	181.6	55.0	30.3
52.5°	2406.4	2129.9	1886.3	1622.2	1389.6	1150.2	945.2	749.9	178.9	48.2	24.8
55°	2746.2	2421.5	2139.5	1847.8	1575.4	1305.7	1073.2	848.9	180.2	42.7	20.6
57.5°	3372.3	2991.2	2651.3	2268.8	1955.1	1607.0	1325.0	1052.5	196.8	35.8	15.1
60°	4270.7	3775.4	3298.0	2831.6	2432.5	2018.4	1652.4	1331.8	231.1	28.9	11.0
62.5°	4874.7	4226.7	3657.1	3142.5	2678.8	2245.4	1846.4	1481.8	254.5	23.4	6.9
63°	4936.6	4266.6	3694.2	3163.1	2689.8	2256.4	1854.7	1492.8	255.9	22.0	6.9
65°	5053.6	4335.4	3714.9	3167.3	2678.8	2241.3	1849.2	1491.4	258.7	17.9	5.5
67.5°	4920.1	4229.4	3595.2	3048.9	2582.5	2151.9	1780.4	1436.4	257.3	12.4	4.1
70°	4400.0	3827.7	3270.5	2761.4	2337.6	1948.2	1620.8	1309.8	236.7	8.3	2.8
72.5°	3230.6	2841.2	2409.2	2041.8	1761.1	1462.6	1247.9	983.8	183.0	5.5	1.4
75°	957.6	872.3	733.3	646.7	571.0	471.9	419.6	327.5	93.6	2.8	0.0
77.5°	191.2	173.4	155.5	141.7	133.5	114.2	108.7	89.4	38.5	1.4	0.0
80°	100.4	82.6	70.2	61.9	53.7	44.0	37.1	30.3	6.9	0.0	0.0
82.5°	96.3	64.7	46.8	38.5	33.0	26.1	20.6	15.1	4.1	0.0	0.0
85°	35.8	27.5	20.6	16.5	13.8	12.4	9.6	8.3	0.0	0.0	0.0
87.5°	5.5	4.1	4.1	2.8	2.8	1.4	1.4	1.4	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



REPORT NUMBER: P149395

CATALOG NUMBER: VWM-F05-LED-E1-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	290.3	290.3	290.3	290.3	290.3	290.3	290.3
2.5°	246.3	235.3	229.8	222.9	222.9	221.5	224.3
5°	205.0	189.9	178.9	170.6	172.0	167.9	169.2
7.5°	173.4	158.2	148.6	143.1	141.7	140.3	140.3
10°	150.0	136.2	128.0	123.8	122.5	122.5	122.5
12.5°	133.5	119.7	112.8	110.1	110.1	108.7	108.7
15°	119.7	108.7	101.8	99.1	99.1	97.7	99.1
17.5°	108.7	97.7	92.2	89.4	89.4	88.1	88.1
20°	99.1	89.4	83.9	79.8	79.8	78.4	79.8
22.5°	90.8	81.2	74.3	71.5	70.2	68.8	70.2
25°	82.6	72.9	66.0	61.9	60.5	60.5	59.2
27.5°	75.7	66.0	57.8	53.7	52.3	52.3	50.9
30°	68.8	57.8	49.5	45.4	44.0	44.0	44.0
32.5°	61.9	49.5	42.7	38.5	37.1	37.1	37.1
35°	55.0	42.7	35.8	31.6	30.3	30.3	30.3
37.5°	46.8	35.8	27.5	24.8	23.4	22.0	22.0
40°	39.9	27.5	20.6	17.9	15.1	15.1	15.1
42.5°	33.0	22.0	15.1	11.0	9.6	8.3	9.6
45°	27.5	16.5	9.6	5.5	4.1	4.1	4.1
47.5°	22.0	11.0	4.1	1.4	1.4	1.4	1.4
50°	16.5	6.9	1.4	0.0	0.0	1.4	1.4
52.5°	12.4	4.1	0.0	0.0	0.0	0.0	0.0
55°	6.9	1.4	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°	2.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.4	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)