

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: P149363

Luminaire Tested: **VWM-F02-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149363
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-F02-LED-E1-SL2-HSS-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2555 lumens
Efficiency: N/A
Efficacy: 46.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

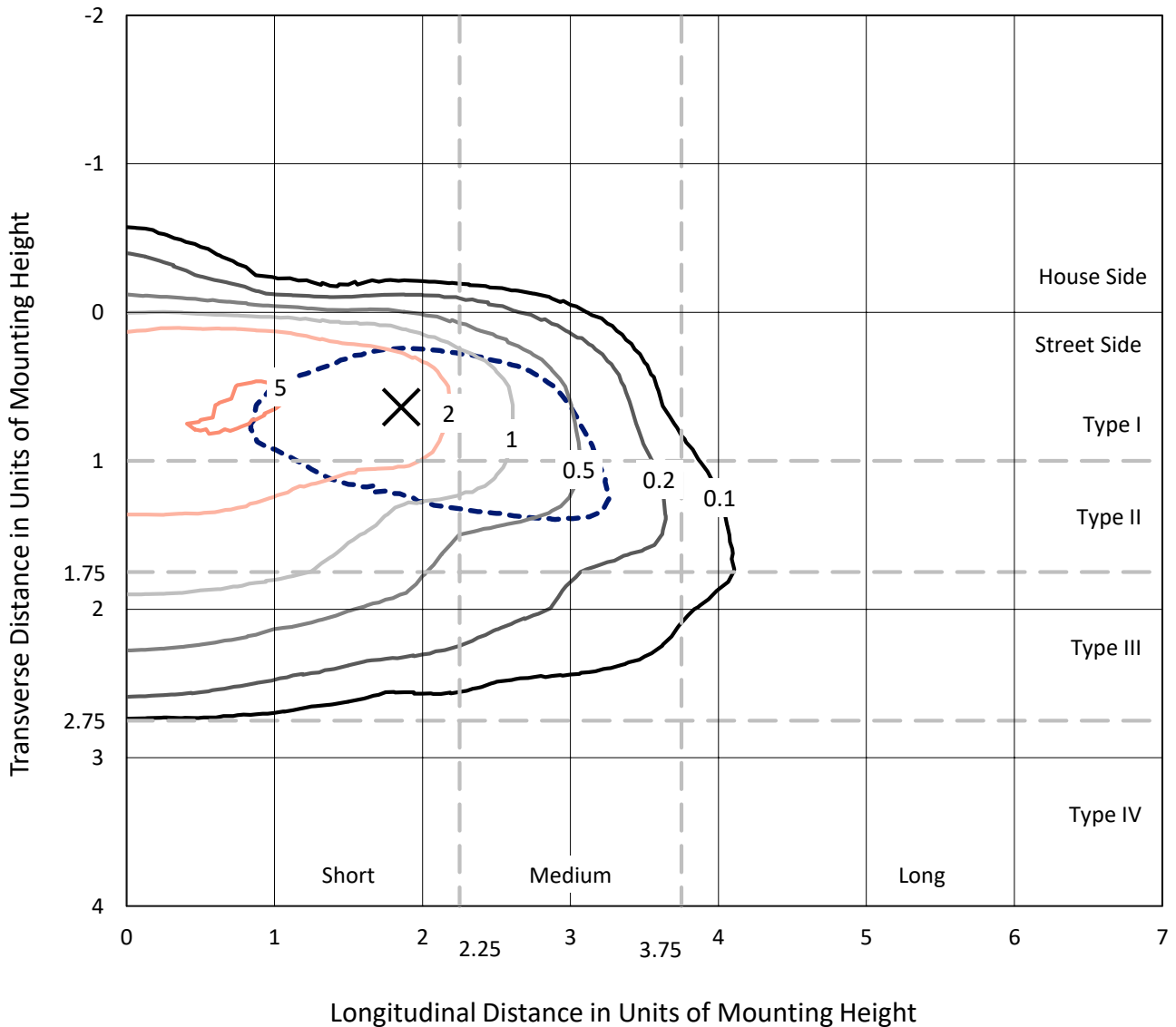
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

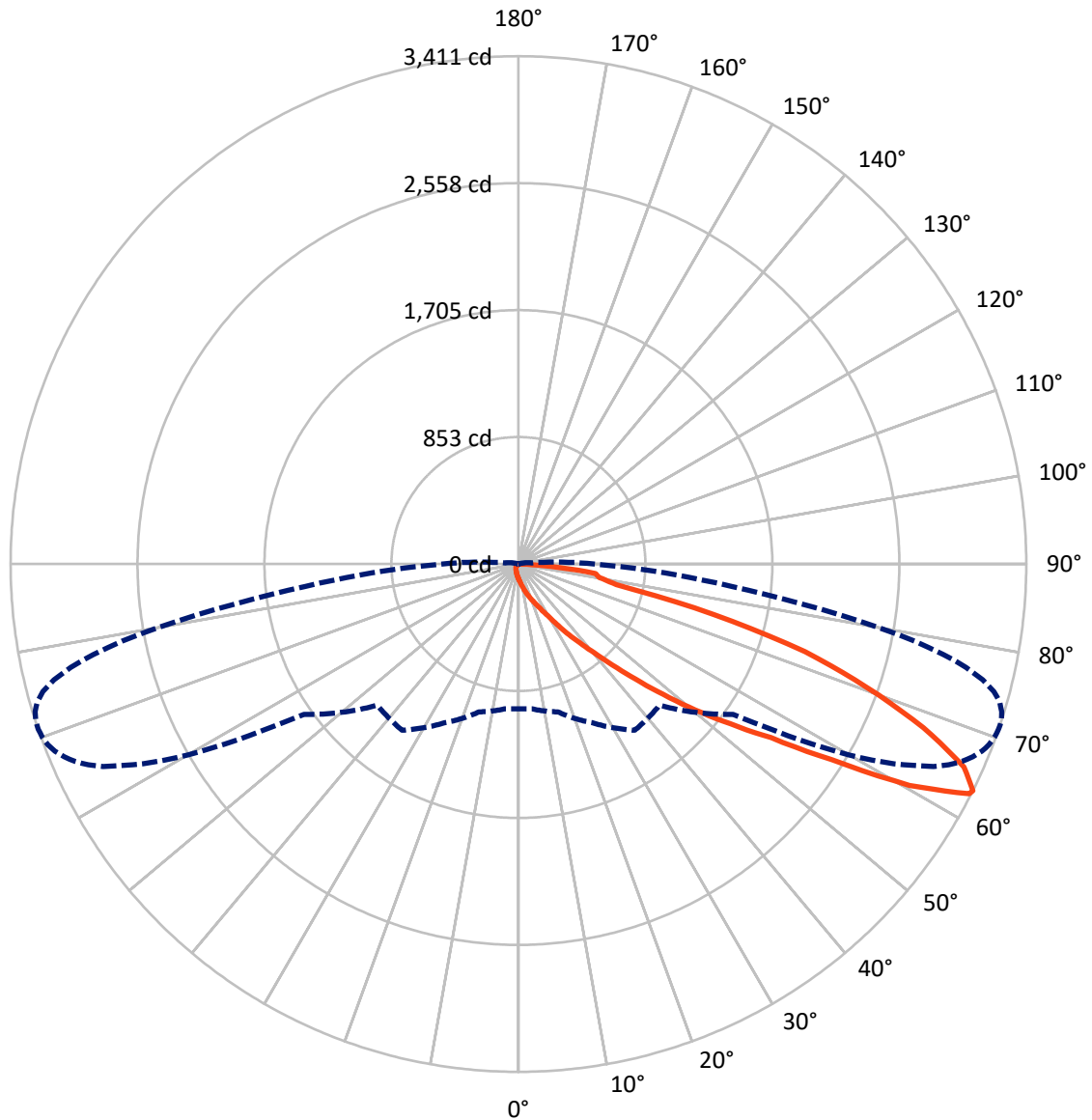
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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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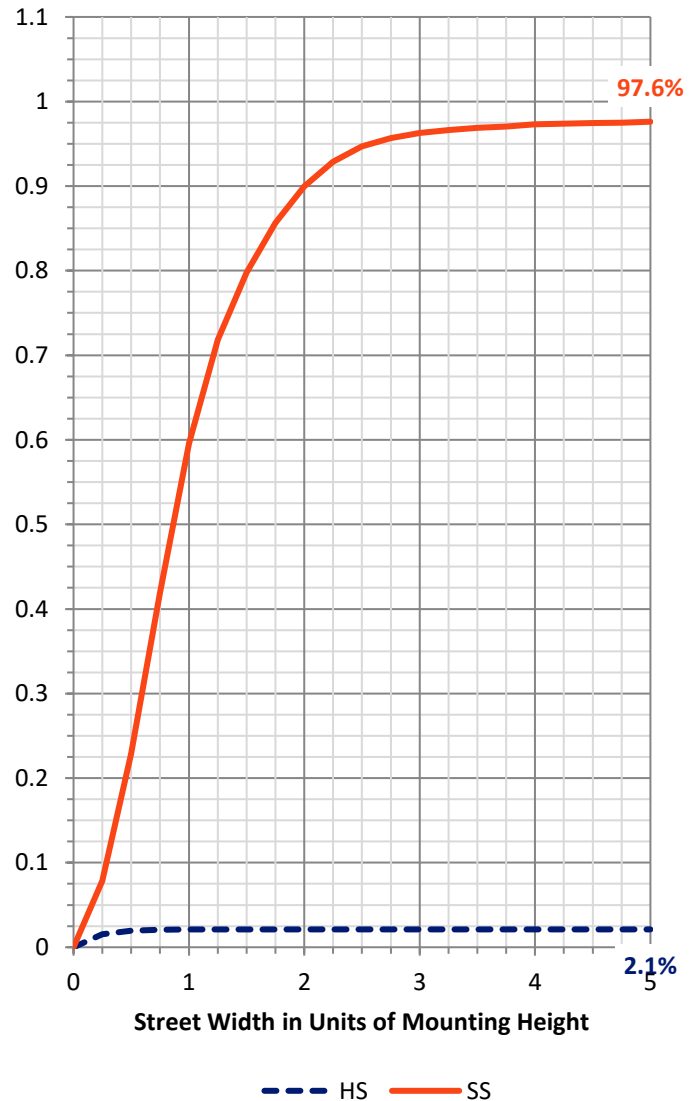
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	54.3	0.0	54.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	2500.8	0.0	2500.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	2555.0	0.0	2555.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.8	0.4
10°-20°	42.0	1.6
20°-30°	85.3	3.3
30°-40°	208.5	8.2
40°-50°	466.3	18.2
50°-60°	655.6	25.7
60°-70°	770.9	30.2
70°-80°	278.4	10.9
80°-90°	37.2	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°	2555.0	100.0
0°-180°	2555.0	100.0



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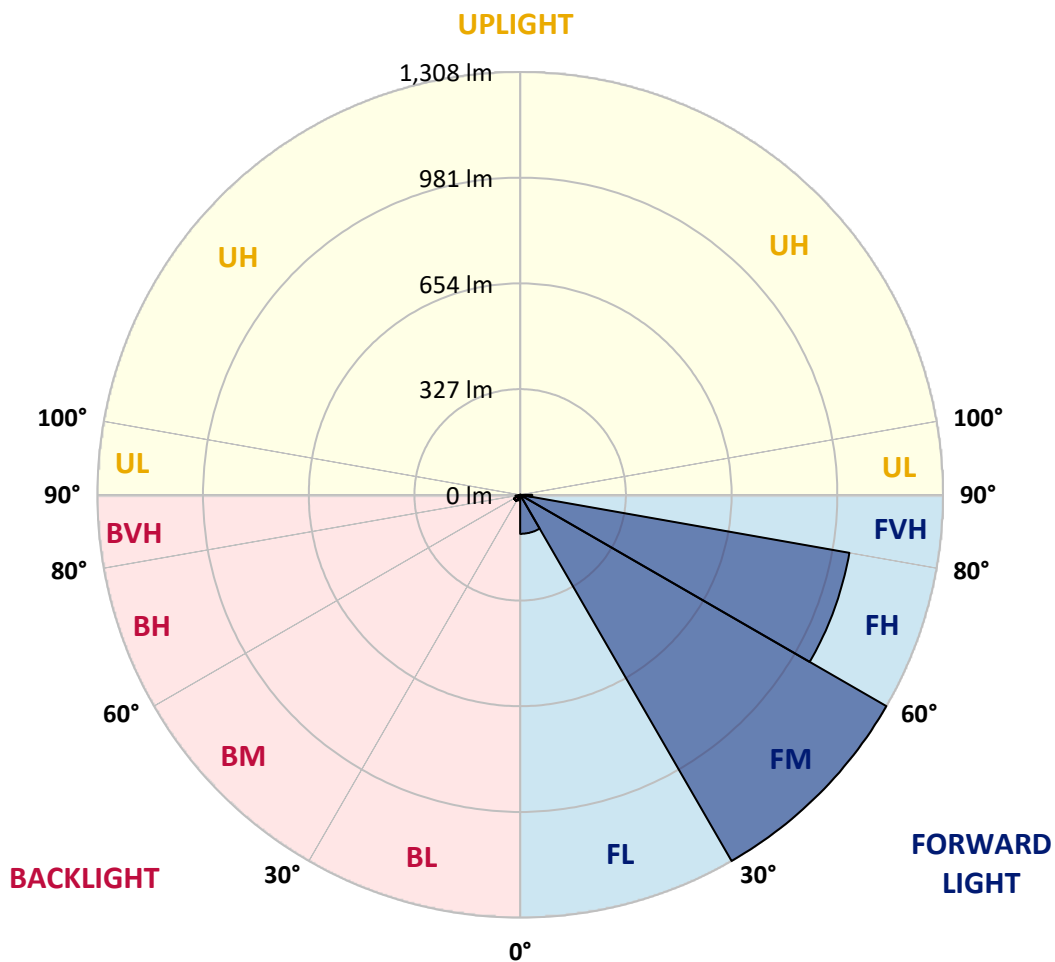
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	120.7	4.7			
FM (30°-60°)	1308.5	51.2			
FH (60°-80°)	1034.4	40.5			G1/1800
FVH (80°-90°)	37.1	1.5			G1/100
BL (0°-30°)	17.4	0.7	B0/110		
BM (30°-60°)	21.9	0.9	B0/220		
BH (60°-80°)	14.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2.5°	128.2	129.6	128.7	126.3	123.6	119.8	116.6	116.6	116.1	114.7	115.2
5°	168.1	168.6	166.8	161.2	156.1	148.2	139.3	138.4	137.5	136.1	135.6
7.5°	207.2	209.0	207.2	201.1	190.9	178.8	164.9	163.5	160.7	160.7	158.9
10°	247.1	247.1	245.3	238.3	229.0	211.8	194.2	191.8	188.6	187.7	184.9
12.5°	275.4	275.4	274.5	270.8	263.4	248.0	226.7	224.3	220.2	218.8	215.5
15°	286.6	286.6	287.1	290.3	290.8	283.8	261.5	259.7	255.5	251.8	250.4
17.5°	293.6	293.1	293.1	297.7	306.1	310.7	296.3	294.5	289.8	288.0	283.3
20°	308.9	308.0	305.2	305.2	313.1	329.3	329.3	328.9	323.7	322.4	320.0
22.5°	331.6	330.7	322.4	315.4	319.1	339.5	358.6	357.7	355.8	353.9	352.5
25°	368.8	365.6	351.2	330.7	327.5	349.3	380.9	383.2	384.6	384.6	385.5
27.5°	425.0	420.8	395.3	357.2	342.8	365.1	405.5	410.1	414.3	415.3	419.4
30°	503.0	495.6	458.9	403.2	370.2	388.3	441.7	446.8	452.9	454.7	461.2
32.5°	631.2	627.1	591.8	508.2	437.5	433.8	492.4	498.9	506.8	510.0	517.9
35°	826.3	827.3	798.5	723.2	625.7	574.6	582.9	588.5	591.3	601.1	605.2
37.5°	958.7	961.0	967.5	937.8	868.1	816.1	750.6	756.7	742.3	743.6	744.1
40°	1031.2	1038.6	1076.7	1105.5	1099.9	1069.7	1017.2	1020.5	993.5	987.5	958.2
42.5°	1079.5	1089.2	1150.1	1239.3	1284.8	1312.2	1300.1	1298.7	1277.8	1269.9	1245.3
45°	1109.7	1118.5	1195.1	1326.6	1431.6	1511.5	1544.4	1548.1	1530.5	1522.6	1502.2
47.5°	1108.3	1118.5	1200.7	1359.1	1513.8	1641.5	1734.4	1739.1	1749.7	1742.8	1744.2
50°	1047.0	1056.7	1139.4	1303.8	1489.6	1701.0	1871.0	1885.8	1903.0	1914.6	1920.2
52.5°	972.6	979.6	1053.0	1209.1	1386.5	1676.3	1951.8	1977.3	2002.9	2024.7	2040.0
55°	945.2	953.1	1010.7	1140.3	1303.8	1573.2	1989.4	2027.0	2063.3	2099.0	2128.3
57.5°	959.6	967.1	1008.4	1107.8	1254.6	1464.5	2000.1	2058.6	2118.1	2176.1	2233.7
60°	1012.6	1020.5	1055.8	1138.0	1241.6	1401.8	1958.3	2055.4	2154.3	2255.6	2350.8
62.5°	991.7	994.9	1047.0	1191.0	1334.5	1348.4	1806.4	1942.0	2093.0	2249.1	2402.8
63°	971.7	975.4	1028.4	1176.6	1362.8	1340.5	1759.5	1902.6	2061.9	2230.0	2397.2
65°	881.1	881.6	922.0	1039.1	1331.2	1354.5	1550.5	1687.0	1870.0	2071.6	2283.0
67.5°	657.7	654.5	693.5	782.7	1045.1	1354.9	1330.8	1407.4	1534.7	1713.5	1903.0
70°	233.2	228.1	291.2	414.8	651.2	1108.3	1143.6	1148.7	1184.0	1280.6	1399.5
72.5°	75.7	77.1	92.9	151.9	300.1	746.0	1035.3	1019.6	1010.3	1009.8	1025.6
75°	30.2	30.7	37.2	67.4	134.7	359.5	906.7	915.5	918.8	923.4	928.5
77.5°	14.4	15.8	20.9	37.6	66.9	177.9	648.9	723.7	766.4	799.4	819.4
80°	5.1	6.0	11.6	23.2	31.1	81.8	341.9	412.5	475.2	556.0	625.7
82.5°	0.0	0.0	2.3	16.3	17.2	33.0	140.3	164.4	188.1	243.9	313.1
85°	0.0	0.0	0.0	4.6	5.1	5.6	47.4	57.1	64.1	74.8	86.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	2.8	7.0	10.7
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°	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2.5°	114.3	113.8	113.8	112.9	112.4	111.5	111.0	109.6	109.2	109.2	109.2
5°	135.2	133.3	132.4	130.1	128.7	128.2	125.9	124.9	123.6	124.0	121.7
7.5°	158.4	155.1	153.7	150.5	149.6	146.3	145.4	143.1	141.7	138.9	138.0
10°	183.9	179.8	177.4	172.3	170.9	168.6	165.8	163.0	160.7	157.9	156.5
12.5°	213.2	209.5	207.6	200.7	197.4	194.2	190.4	186.7	183.0	180.7	177.4
15°	247.6	241.5	239.7	233.2	227.6	223.4	218.3	213.7	210.9	206.2	203.0
17.5°	281.5	275.4	274.0	264.3	258.3	255.5	249.9	243.9	238.7	234.1	229.0
20°	315.4	311.2	307.5	298.2	291.7	287.1	279.6	273.6	269.4	262.9	256.4
22.5°	349.3	345.1	342.3	332.6	326.5	320.0	313.5	307.0	301.0	293.1	285.7
25°	384.1	381.3	380.0	371.1	365.6	359.5	353.0	345.6	338.1	329.3	321.4
27.5°	420.4	421.3	418.5	416.6	410.6	406.4	396.2	391.1	385.5	374.8	365.1
30°	466.3	469.1	468.2	469.6	465.9	463.1	455.2	448.7	442.2	432.0	420.8
32.5°	524.4	528.1	530.0	535.1	533.2	532.3	530.0	520.7	516.0	498.4	493.8
35°	614.1	612.2	620.1	624.3	622.4	621.5	618.7	613.6	608.0	595.5	583.9
37.5°	730.6	732.5	735.3	726.9	721.4	720.9	712.5	707.4	699.5	685.6	671.7
40°	944.3	932.7	919.7	884.4	869.1	860.2	835.6	828.7	815.2	796.1	781.7
42.5°	1222.1	1210.5	1171.4	1112.5	1080.9	1037.2	1017.2	992.6	973.6	942.5	925.7
45°	1498.0	1464.5	1459.9	1391.1	1352.1	1294.5	1258.8	1217.4	1174.2	1133.4	1103.6
47.5°	1730.7	1723.3	1700.5	1658.7	1622.5	1574.2	1528.2	1464.5	1419.9	1361.9	1308.5
50°	1917.0	1916.5	1908.1	1884.0	1853.8	1814.8	1774.4	1720.5	1669.8	1598.8	1541.6
52.5°	2056.3	2063.7	2066.5	2059.1	2047.5	2013.1	1992.7	1947.6	1904.9	1844.5	1782.7
55°	2158.5	2185.9	2199.8	2215.6	2212.4	2200.3	2199.4	2170.1	2150.6	2102.7	2059.1
57.5°	2284.8	2329.9	2373.1	2449.7	2452.5	2479.4	2493.4	2507.3	2511.0	2492.0	2477.6
60°	2445.5	2537.5	2619.3	2779.5	2821.3	2887.3	2930.0	2976.5	3015.9	3019.2	3018.3
62.5°	2558.9	2700.5	2832.5	3070.3	3151.6	3227.7	3284.9	3329.9	3357.3	3385.2	3398.2
63°	2562.1	2717.3	2857.5	3102.8	3188.3	3260.7	3315.1	3356.9	3385.7	3402.4	3410.8
65°	2483.6	2671.7	2839.0	3083.3	3163.6	3236.6	3264.9	3292.3	3306.2	3312.7	3288.1
67.5°	2105.1	2289.0	2484.1	2757.2	2826.0	2913.3	2936.5	2950.4	2956.9	2955.6	2934.7
70°	1574.2	1728.4	1945.3	2257.4	2348.5	2433.9	2486.9	2509.6	2517.1	2514.8	2483.6
72.5°	1099.0	1189.6	1368.4	1715.8	1839.8	1949.5	2015.0	2048.9	2055.8	2041.9	2013.1
75°	922.9	927.6	968.0	1158.0	1274.1	1391.1	1465.0	1486.4	1472.4	1430.2	1356.8
77.5°	824.0	834.2	834.2	862.6	885.3	917.8	924.8	872.8	812.4	734.4	671.2
80°	691.2	726.9	752.0	772.9	775.2	768.7	751.5	722.3	675.8	616.4	550.4
82.5°	419.9	490.5	519.3	627.1	680.0	715.8	713.0	674.0	638.7	576.9	520.7
85°	105.9	114.3	124.0	161.2	180.7	220.6	245.7	257.3	261.5	240.1	217.4
87.5°	10.2	7.0	11.6	8.8	12.5	9.3	12.5	11.6	14.4	15.3	16.7
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°	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2.5°	108.2	107.8	107.3	106.8	106.4	105.9	105.0	105.0	104.0	103.6	103.1
5°	120.3	119.4	118.9	118.0	116.6	115.7	114.3	112.4	111.0	110.5	109.6
7.5°	135.6	133.3	132.4	131.0	129.1	126.3	124.5	123.1	120.8	119.4	116.6
10°	152.8	150.5	147.7	144.9	142.1	138.9	136.6	134.7	131.0	129.1	125.9
12.5°	174.6	170.5	167.2	163.5	159.8	156.1	153.3	147.7	144.5	140.3	137.5
15°	196.9	193.2	189.5	184.9	179.3	173.3	170.5	165.4	161.2	154.7	151.0
17.5°	223.9	216.9	211.3	205.8	200.7	195.1	189.5	181.6	175.6	170.0	162.6
20°	250.4	242.0	236.0	228.5	221.1	212.3	205.8	200.2	191.8	184.4	176.5
22.5°	278.7	270.3	260.6	253.1	242.9	236.0	227.1	217.8	209.5	199.7	190.0
25°	313.1	304.2	293.1	283.3	271.7	262.0	251.3	240.6	230.4	219.2	206.7
27.5°	355.3	346.0	334.0	322.4	307.0	295.0	284.7	270.3	257.3	243.4	229.0
30°	408.8	398.5	383.7	366.9	351.6	338.1	323.7	304.7	290.3	273.6	255.0
32.5°	478.4	466.3	446.4	430.6	411.5	393.9	373.9	354.9	334.4	312.6	291.2
35°	566.2	555.1	531.8	508.6	487.7	466.8	441.7	419.9	391.1	364.6	337.2
37.5°	657.3	637.3	615.9	590.8	564.8	539.7	509.1	478.9	445.9	417.1	382.7
40°	761.3	737.1	719.5	692.6	655.9	620.1	591.8	554.1	512.8	474.2	433.8
42.5°	903.9	877.0	845.4	804.5	778.0	736.2	699.5	654.9	600.6	557.4	508.6
45°	1068.8	1032.1	1001.4	962.0	929.9	877.9	835.2	775.7	721.4	664.7	605.2
47.5°	1256.9	1211.4	1166.8	1127.8	1076.7	1025.6	971.2	908.1	838.4	776.2	705.6
50°	1472.9	1408.3	1346.6	1296.4	1226.3	1167.3	1108.3	1037.2	960.1	888.6	808.2
52.5°	1713.0	1638.3	1556.5	1479.4	1398.1	1322.4	1251.3	1169.6	1083.7	996.3	906.7
55°	2002.9	1946.7	1850.5	1752.5	1643.8	1542.6	1451.1	1349.8	1245.3	1130.6	1036.3
57.5°	2456.7	2429.3	2348.9	2250.9	2109.3	1986.2	1831.0	1707.0	1555.6	1397.7	1276.0
60°	3071.7	3037.8	2992.7	2913.3	2800.9	2633.7	2462.7	2270.0	2039.6	1820.8	1613.2
62.5°	3399.6	3387.5	3350.8	3296.0	3191.0	3059.1	2886.8	2675.0	2414.9	2149.2	1884.4
63°	3409.4	3394.0	3362.4	3306.7	3214.3	3086.5	2917.5	2711.7	2457.2	2186.4	1916.0
65°	3277.4	3271.4	3239.4	3178.5	3115.3	3017.8	2886.8	2709.8	2496.2	2240.2	1971.3
67.5°	2906.8	2888.7	2839.4	2820.8	2776.7	2708.9	2609.0	2487.3	2334.5	2133.4	1901.2
70°	2458.5	2431.6	2369.8	2336.9	2283.0	2240.2	2179.4	2092.5	1998.2	1858.0	1684.7
72.5°	1983.4	1927.6	1871.0	1785.0	1709.8	1633.6	1566.3	1504.9	1401.4	1344.7	1213.2
75°	1288.0	1186.8	1089.7	959.6	842.6	739.0	638.2	587.1	480.7	437.5	375.8
77.5°	611.3	554.6	478.4	419.4	344.2	281.0	229.5	172.3	135.2	105.9	80.8
80°	493.3	445.4	399.5	346.0	289.4	230.9	177.0	132.4	93.8	65.0	46.0
82.5°	439.9	387.8	331.2	294.5	255.9	209.5	171.9	140.3	103.6	75.7	51.6
85°	170.9	144.0	111.0	90.6	70.6	58.1	52.5	36.2	28.3	22.3	17.2
87.5°	14.9	12.1	9.8	6.5	7.0	3.7	4.2	2.8	2.3	2.3	1.9
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: VWM-F02-LED-E1-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2.5°	102.7	102.2	101.7	100.8	100.8	99.9	99.4	98.9	96.6	91.5	87.3
5°	107.8	106.8	105.9	104.5	103.6	102.2	101.3	99.9	94.8	85.0	76.6
7.5°	115.2	113.3	111.9	109.2	107.8	105.9	104.5	102.2	93.8	79.0	67.4
10°	124.0	120.8	118.4	115.2	112.4	110.1	107.8	104.5	92.9	72.5	59.0
12.5°	134.7	131.0	126.3	122.6	118.9	115.7	112.4	108.2	91.5	66.9	52.5
15°	145.4	139.8	136.6	131.5	126.3	121.7	117.1	113.3	92.0	60.8	46.9
17.5°	157.5	151.9	144.9	139.3	133.8	127.7	122.2	114.7	89.6	56.2	42.7
20°	169.1	161.2	154.7	147.7	139.8	132.4	125.4	118.9	87.8	51.6	39.0
22.5°	181.6	172.3	164.0	155.1	145.4	137.0	128.7	120.3	84.5	47.4	35.8
25°	196.9	186.3	174.2	163.5	153.3	143.1	132.4	122.2	81.3	43.7	33.4
27.5°	215.5	201.6	189.5	176.0	161.6	148.6	137.0	125.9	78.0	40.9	31.1
30°	239.2	223.0	205.8	188.6	173.3	158.4	142.1	128.2	74.8	38.1	28.8
32.5°	270.8	250.4	229.5	209.5	189.0	170.0	152.8	134.7	72.9	35.8	26.5
35°	312.6	286.1	260.6	235.5	210.9	187.7	165.4	144.9	72.9	33.0	23.7
37.5°	352.1	321.4	288.9	257.8	228.5	201.6	175.1	150.5	69.2	30.7	21.4
40°	394.8	358.1	320.0	283.3	248.0	214.6	184.4	156.1	66.0	27.9	19.0
42.5°	460.3	413.9	364.2	321.4	279.2	237.8	200.2	166.8	61.8	25.1	16.7
45°	546.2	487.3	428.7	376.7	322.8	272.2	227.6	186.3	60.8	22.8	14.4
47.5°	638.2	568.5	499.8	433.4	370.2	311.2	257.8	208.1	60.8	20.4	12.5
50°	729.7	642.4	569.0	491.9	420.8	351.2	287.5	230.9	61.3	18.6	10.2
52.5°	812.4	719.0	636.8	547.6	469.1	388.3	319.1	253.1	60.4	16.3	8.4
55°	927.1	817.5	722.3	623.8	531.8	440.8	362.3	286.6	60.8	14.4	7.0
57.5°	1138.5	1009.8	895.1	765.9	660.0	542.5	447.3	355.3	66.4	12.1	5.1
60°	1441.8	1274.6	1113.4	955.9	821.2	681.4	557.9	449.6	78.0	9.8	3.7
62.5°	1645.7	1426.9	1234.6	1060.9	904.4	758.0	623.3	500.3	85.9	7.9	2.3
63°	1666.6	1440.4	1247.2	1067.9	908.1	761.8	626.1	504.0	86.4	7.4	2.3
65°	1706.1	1463.6	1254.1	1069.3	904.4	756.7	624.3	503.5	87.3	6.0	1.9
67.5°	1661.0	1427.8	1213.7	1029.3	871.8	726.5	601.1	484.9	86.9	4.2	1.4
70°	1485.4	1292.2	1104.1	932.2	789.2	657.7	547.2	442.2	79.9	2.8	0.9
72.5°	1090.6	959.2	813.3	689.3	594.5	493.8	421.3	332.1	61.8	1.9	0.5
75°	323.3	294.5	247.6	218.3	192.8	159.3	141.7	110.5	31.6	0.9	0.0
77.5°	64.6	58.5	52.5	47.8	45.1	38.6	36.7	30.2	13.0	0.5	0.0
80°	33.9	27.9	23.7	20.9	18.1	14.9	12.5	10.2	2.3	0.0	0.0
82.5°	32.5	21.8	15.8	13.0	11.1	8.8	7.0	5.1	1.4	0.0	0.0
85°	12.1	9.3	7.0	5.6	4.6	4.2	3.3	2.8	0.0	0.0	0.0
87.5°	1.9	1.4	1.4	0.9	0.9	0.5	0.5	0.5	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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CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	98.0	98.0	98.0	98.0	98.0	98.0	98.0
2.5°	83.1	79.4	77.6	75.2	75.2	74.8	75.7
5°	69.2	64.1	60.4	57.6	58.1	56.7	57.1
7.5°	58.5	53.4	50.2	48.3	47.8	47.4	47.4
10°	50.6	46.0	43.2	41.8	41.3	41.3	41.3
12.5°	45.1	40.4	38.1	37.2	37.2	36.7	36.7
15°	40.4	36.7	34.4	33.4	33.4	33.0	33.4
17.5°	36.7	33.0	31.1	30.2	30.2	29.7	29.7
20°	33.4	30.2	28.3	26.9	26.9	26.5	26.9
22.5°	30.7	27.4	25.1	24.2	23.7	23.2	23.7
25°	27.9	24.6	22.3	20.9	20.4	20.4	20.0
27.5°	25.5	22.3	19.5	18.1	17.7	17.7	17.2
30°	23.2	19.5	16.7	15.3	14.9	14.9	14.9
32.5°	20.9	16.7	14.4	13.0	12.5	12.5	12.5
35°	18.6	14.4	12.1	10.7	10.2	10.2	10.2
37.5°	15.8	12.1	9.3	8.4	7.9	7.4	7.4
40°	13.5	9.3	7.0	6.0	5.1	5.1	5.1
42.5°	11.1	7.4	5.1	3.7	3.3	2.8	3.3
45°	9.3	5.6	3.3	1.9	1.4	1.4	1.4
47.5°	7.4	3.7	1.4	0.5	0.5	0.5	0.5
50°	5.6	2.3	0.5	0.0	0.0	0.5	0.5
52.5°	4.2	1.4	0.0	0.0	0.0	0.0	0.0
55°	2.3	0.5	0.0	0.0	0.0	0.0	0.0
57.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.9	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.5	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)