

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: P153363

Luminaire Tested: **VWM-F03-LED-E1-SLR-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P153363
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-F03-LED-E1-SLR-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5815.9 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

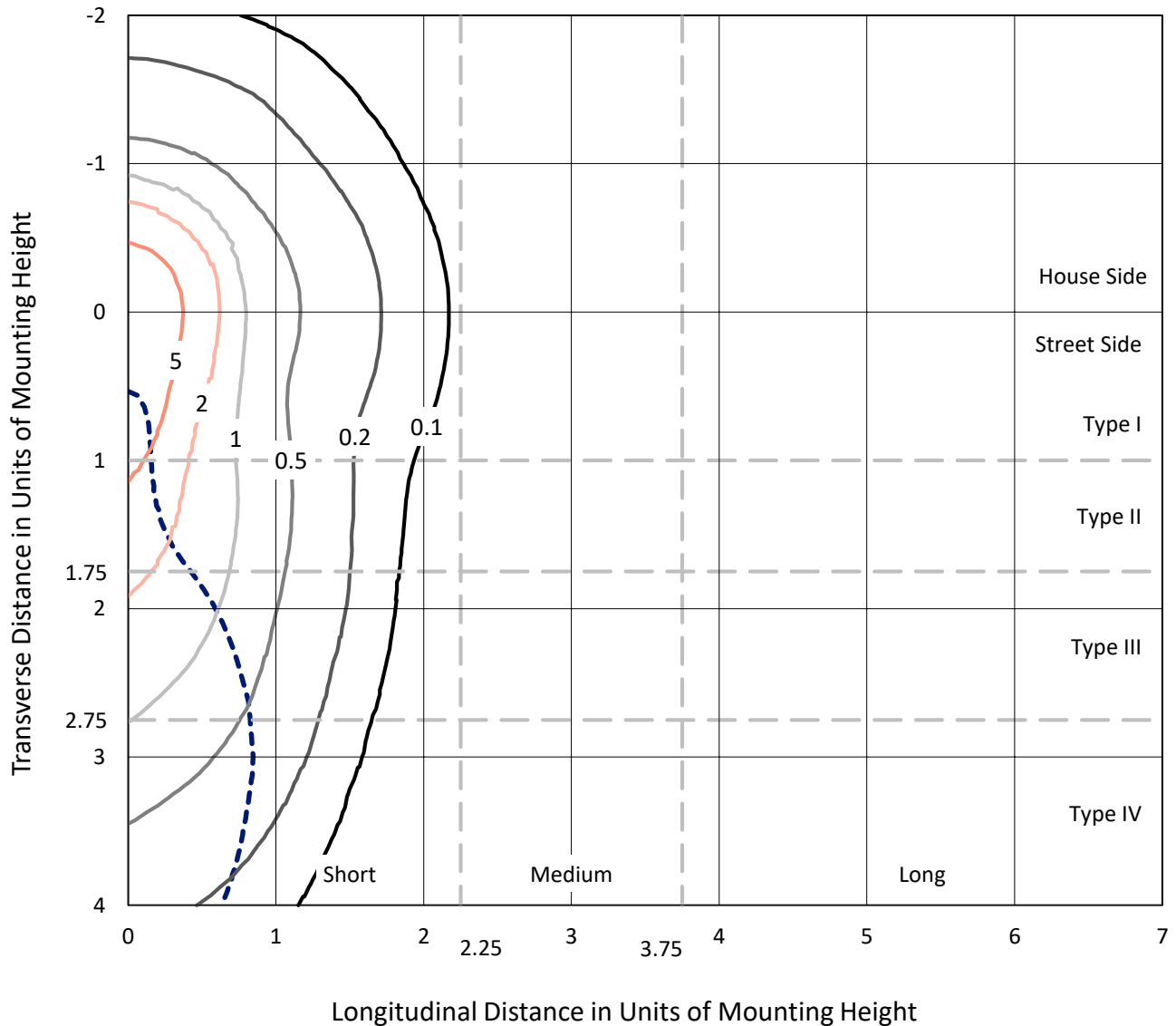
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

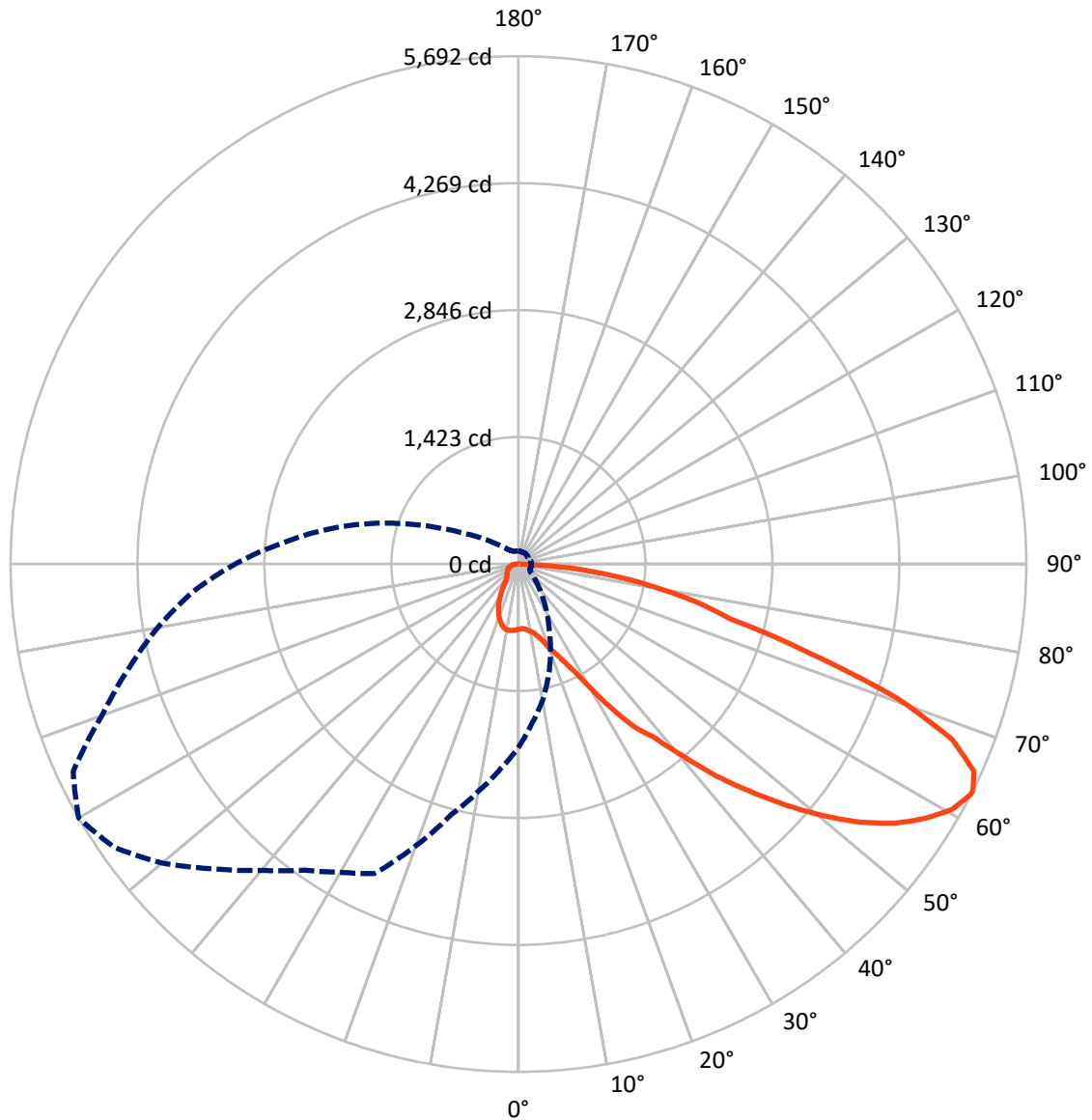
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1261.2	0.0	1261.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4554.7	0.0	4554.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	5815.9	0.0	5815.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	1.2
10°-20°	221.6	3.8
20°-30°	393.7	6.8
30°-40°	619.9	10.7
40°-50°	912.3	15.7
50°-60°	1211.8	20.8
60°-70°	1334.8	23.0
70°-80°	837.4	14.4
80°-90°	213.3	3.7
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°	5815.9	100.0
0°-180°	5815.9	100.0



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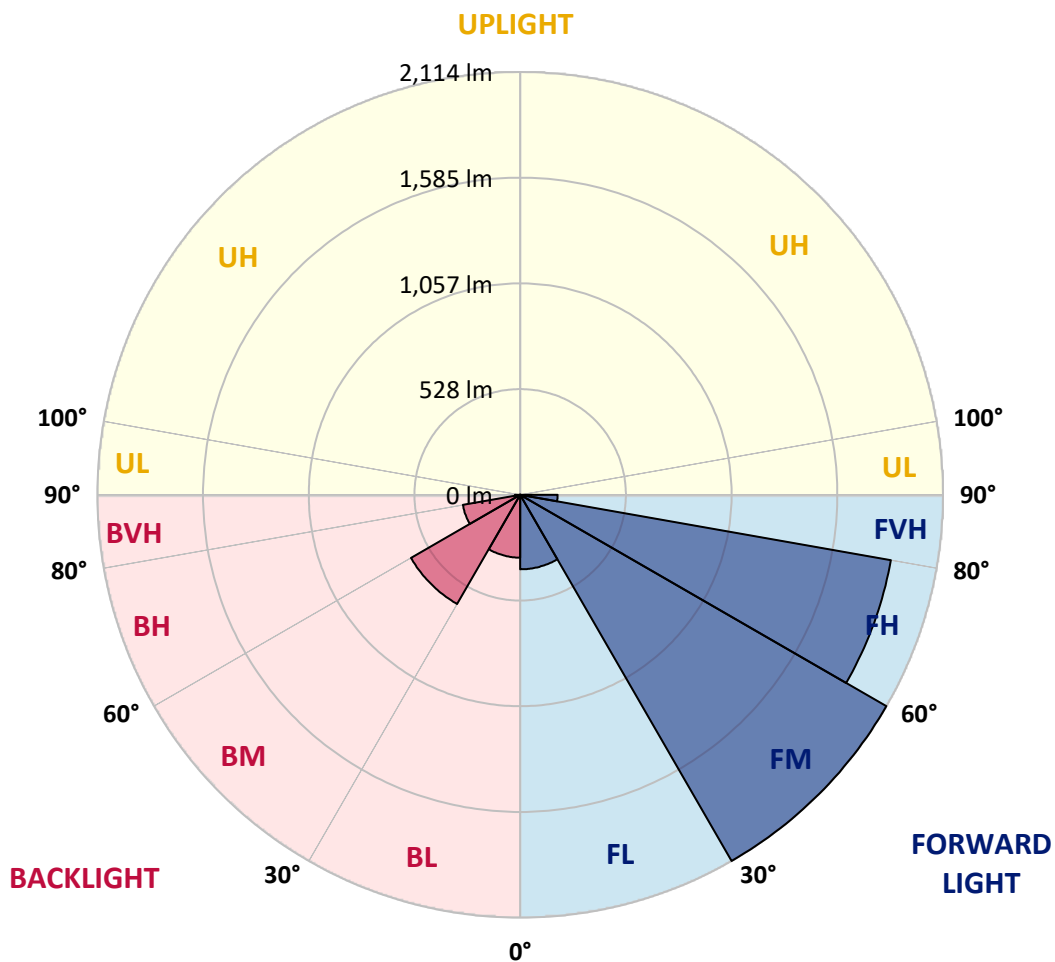
CATALOG NUMBER: VWM-F03-LED-E1-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.4	6.4			
FM	(30°-60°)	2113.6	36.3			
FH	(60°-80°)	1881.5	32.4			G2/5000
FVH	(80°-90°)	187.2	3.2			G2/225
BL	(0°-30°)	314.0	5.4	B1/500		
BM	(30°-60°)	630.4	10.8	B1/1000		
BH	(60°-80°)	290.7	5.0	B1/500		G1/500
BVH	(80°-90°)	26.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	721.1	723.2	722.5	722.5	723.9	723.2	723.2	723.9	723.9	726.0	728.8
5°	715.5	714.9	713.5	714.9	714.9	714.9	712.1	714.2	714.9	716.2	716.2
7.5°	722.5	720.4	717.6	718.3	718.3	716.9	714.9	715.5	714.9	714.9	714.2
10°	731.6	726.7	723.2	723.2	723.2	721.8	718.3	720.4	720.4	719.7	720.4
12.5°	747.6	742.0	737.8	736.4	736.4	734.4	731.6	734.4	733.0	733.0	731.6
15°	774.1	767.8	762.9	758.7	759.4	759.4	756.0	753.9	751.1	747.6	740.6
17.5°	813.8	806.8	800.5	797.1	797.8	792.9	783.1	773.4	760.1	746.9	732.3
20°	870.2	868.1	859.8	856.3	847.9	836.1	808.9	785.9	760.1	735.1	710.0
22.5°	967.8	958.0	949.7	936.4	908.5	875.8	830.5	790.1	749.7	714.2	680.7
25°	1098.8	1081.3	1040.2	999.8	942.7	884.2	822.8	770.6	720.4	673.7	632.6
27.5°	1227.6	1174.7	1101.5	1028.4	944.8	868.1	791.5	729.5	671.0	620.1	574.8
30°	1383.7	1294.5	1182.4	1066.7	948.3	845.1	753.2	680.7	613.1	559.5	512.1
32.5°	1530.0	1401.1	1254.1	1102.2	955.9	823.5	709.3	627.1	557.4	489.8	443.1
35°	1630.4	1463.1	1284.8	1105.7	937.1	782.4	654.2	557.4	487.7	425.0	370.0
37.5°	1690.3	1490.3	1286.2	1080.6	893.2	726.7	584.6	488.4	424.3	364.4	321.2
40°	1727.9	1496.6	1268.1	1044.4	837.5	656.3	514.9	428.5	370.0	321.9	288.4
42.5°	1746.0	1486.8	1238.8	998.4	781.0	593.6	466.1	384.6	333.7	299.6	274.5
45°	1748.8	1469.4	1207.4	956.6	730.9	548.3	432.7	366.5	324.7	296.1	271.0
47.5°	1748.8	1454.1	1182.4	926.0	698.1	528.8	429.9	374.1	333.0	301.0	271.0
50°	1750.2	1449.2	1171.9	910.6	687.0	539.3	453.6	397.8	351.2	309.4	270.3
52.5°	1756.5	1455.5	1180.3	922.5	707.2	581.1	498.2	433.4	374.8	319.1	270.3
55°	1770.4	1476.4	1215.8	963.6	761.5	644.5	551.8	471.7	393.7	323.3	266.2
57.5°	1809.4	1529.3	1280.6	1043.0	854.2	717.6	600.6	498.9	400.6	319.8	257.8
60°	1887.5	1634.5	1391.4	1154.5	952.4	780.3	629.2	503.0	394.4	308.7	244.6
62.5°	2012.2	1755.1	1525.9	1275.7	1039.5	815.2	632.6	492.6	377.6	288.4	225.0
63°	2055.4	1785.0	1554.4	1298.7	1050.7	818.0	629.8	488.4	373.5	282.9	222.3
65°	2175.9	1911.1	1653.4	1379.5	1082.0	818.7	614.5	467.5	353.9	261.3	202.8
67.5°	2401.0	2077.0	1778.1	1442.9	1093.2	796.4	575.5	428.5	312.8	227.8	178.4
70°	2543.1	2169.6	1826.1	1444.3	1060.4	733.0	507.9	365.1	260.6	188.8	153.3
72.5°	2506.2	2078.4	1699.3	1314.0	919.0	612.4	408.3	287.1	203.4	151.2	127.5
75°	2146.6	1730.0	1386.5	1017.9	694.6	450.1	298.9	204.8	150.5	118.4	106.6
77.5°	1545.4	1245.1	994.2	725.3	468.2	291.2	198.6	146.3	114.3	97.5	87.8
80°	984.5	730.2	608.3	436.2	273.8	180.5	136.6	110.8	94.1	81.5	75.2
82.5°	514.2	360.2	292.6	223.0	151.9	119.1	100.3	90.6	77.3	67.6	64.1
85°	320.5	212.5	157.5	110.1	75.9	68.3	62.7	61.3	55.0	48.8	46.7
87.5°	36.2	32.7	34.1	21.6	16.0	17.4	16.7	22.3	21.6	16.0	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	726.0	727.4	727.4	729.5	729.5	730.9	732.3	732.3	733.7	734.4	735.8
5°	717.6	717.6	717.6	720.4	721.1	725.3	726.7	728.1	729.5	734.4	737.1
7.5°	715.5	712.8	714.2	714.2	716.2	719.7	723.2	725.3	727.4	733.7	737.8
10°	719.7	717.6	715.5	715.5	716.2	717.6	720.4	722.5	723.9	730.2	733.7
12.5°	730.9	726.0	721.8	718.3	715.5	714.9	713.5	714.2	715.5	719.0	723.9
15°	733.0	723.9	714.9	705.8	698.8	694.6	691.2	689.8	689.8	691.9	697.4
17.5°	719.0	703.7	690.5	678.6	671.0	663.3	659.8	657.0	655.6	658.4	659.1
20°	689.1	671.0	652.8	638.9	625.0	622.9	617.3	618.7	620.1	624.3	626.4
22.5°	648.0	626.4	604.1	589.4	578.3	568.5	562.3	565.1	567.1	571.3	573.4
25°	597.8	566.4	542.8	528.1	516.3	507.9	501.0	503.7	501.0	505.8	513.5
27.5°	538.6	501.6	476.6	459.8	451.5	444.5	437.5	437.5	444.5	444.5	450.8
30°	466.8	439.6	406.9	389.5	379.0	374.8	374.1	372.8	377.6	380.4	387.4
32.5°	399.2	365.8	334.4	317.7	308.7	303.8	304.5	305.2	307.3	311.4	322.6
35°	330.9	301.7	279.4	260.6	251.5	242.5	242.5	241.1	243.2	248.0	261.3
37.5°	287.1	261.3	243.9	229.2	220.2	214.6	209.7	207.6	207.6	209.7	214.6
40°	262.7	243.9	227.8	215.3	206.9	202.1	199.3	197.2	195.8	195.8	196.5
42.5°	251.5	232.0	216.0	204.8	198.6	195.8	195.1	194.4	192.3	191.6	190.9
45°	245.9	223.7	205.5	196.5	191.6	190.2	190.9	190.9	190.2	188.8	186.0
47.5°	241.8	216.0	197.9	189.5	187.4	187.4	187.4	187.4	186.7	186.0	183.9
50°	234.8	204.1	184.6	178.4	177.0	177.0	177.7	177.7	179.1	177.7	176.3
52.5°	227.1	193.0	173.5	167.9	167.2	166.5	166.5	166.5	167.2	167.2	166.5
55°	218.8	184.6	167.9	163.7	164.4	163.7	163.0	162.3	162.3	161.6	160.2
57.5°	210.4	177.7	163.7	160.9	161.6	161.6	160.2	158.9	158.2	156.1	154.7
60°	197.9	167.9	155.4	154.0	156.1	156.1	156.1	155.4	155.4	154.7	151.2
62.5°	181.2	154.0	144.2	144.9	145.6	147.0	147.0	147.0	147.0	145.6	142.1
63°	177.7	151.2	142.1	142.1	144.2	144.2	144.9	144.2	144.9	143.5	139.3
65°	163.7	142.1	135.2	135.9	137.3	137.3	137.3	136.6	136.6	134.5	132.4
67.5°	147.7	131.0	126.8	127.5	128.2	129.6	128.9	128.9	129.6	128.2	126.1
70°	129.6	119.1	116.4	117.1	117.7	117.7	117.1	117.1	117.7	116.4	114.3
72.5°	115.7	111.5	109.4	109.4	108.0	108.0	106.6	105.9	105.2	105.2	103.1
75°	97.5	96.8	97.5	98.9	97.5	96.1	95.5	93.4	92.0	92.0	91.3
77.5°	83.6	83.6	85.0	87.1	87.8	87.8	85.7	82.2	81.5	81.5	81.5
80°	72.5	71.1	71.1	73.2	75.2	74.6	71.1	67.6	67.6	71.1	71.8
82.5°	63.4	63.4	61.3	62.0	61.3	60.6	57.1	55.0	54.3	57.1	59.9
85°	50.2	50.9	50.2	49.5	48.8	46.7	43.9	41.8	41.1	43.9	48.1
87.5°	20.2	19.5	18.8	19.5	18.8	20.2	19.5	18.1	17.4	19.5	23.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	736.4	737.8	739.2	739.2	740.6	739.9	740.6	741.3	741.3	742.0	742.0
5°	740.6	742.7	745.5	748.3	749.0	751.1	753.2	751.8	753.9	756.7	756.7
7.5°	742.0	746.9	749.0	753.2	753.9	756.7	761.5	758.0	762.2	764.3	765.0
10°	739.9	744.8	748.3	753.2	755.3	760.1	765.0	763.6	768.5	772.0	772.7
12.5°	727.4	732.3	739.9	746.9	752.5	760.1	769.2	766.4	773.4	777.6	779.6
15°	703.0	707.9	716.2	727.4	737.8	749.7	761.5	763.6	770.6	775.5	777.6
17.5°	664.7	671.0	680.0	691.9	705.1	725.3	740.6	748.3	758.0	760.8	764.3
20°	629.2	635.4	641.0	648.0	657.7	677.2	697.4	712.8	725.3	735.8	738.5
22.5°	581.8	587.3	594.3	599.9	606.9	620.8	637.5	654.9	674.4	680.7	687.7
25°	524.6	528.1	537.9	541.4	546.2	558.1	571.3	583.9	602.7	615.9	619.4
27.5°	463.3	466.8	475.9	478.0	484.2	495.4	505.1	510.0	527.4	541.4	552.5
30°	392.3	401.3	412.5	413.9	420.8	427.8	436.9	441.7	457.8	472.4	486.3
32.5°	330.9	340.0	349.1	354.6	358.1	363.7	372.8	377.6	393.0	406.2	420.1
35°	268.2	279.4	289.1	296.8	299.6	306.6	313.5	318.4	334.4	346.3	356.0
37.5°	220.9	229.2	239.7	247.3	255.0	259.9	268.2	275.2	285.0	291.2	301.7
40°	197.9	202.1	207.6	213.9	220.2	225.7	232.0	237.6	243.9	252.2	259.2
42.5°	190.2	190.9	190.9	193.0	196.5	199.3	204.8	209.0	213.2	219.5	223.0
45°	184.6	183.9	182.5	181.2	181.8	183.2	186.7	189.5	194.4	197.2	197.9
47.5°	181.8	179.1	176.3	174.2	173.5	174.2	177.0	179.8	182.5	184.6	185.3
50°	172.8	170.7	166.5	163.7	162.3	163.7	167.2	168.6	171.4	173.5	174.2
52.5°	163.7	160.9	158.2	155.4	155.4	156.1	158.9	161.6	164.4	165.1	166.5
55°	158.2	154.0	151.2	149.1	147.7	149.8	151.9	155.4	158.9	159.6	160.9
57.5°	152.6	148.4	145.6	143.5	142.1	144.2	146.3	151.2	155.4	155.4	155.4
60°	149.1	145.6	141.4	139.3	137.3	139.3	142.1	147.0	151.2	150.5	149.8
62.5°	139.3	135.9	133.8	133.8	131.7	135.2	138.0	143.5	144.2	142.8	141.4
63°	136.6	133.8	132.4	132.4	131.0	134.5	137.3	142.1	142.1	140.7	139.3
65°	129.6	127.5	126.1	127.5	127.5	131.0	131.7	135.2	134.5	132.4	131.7
67.5°	124.0	122.6	121.2	121.2	121.2	121.9	122.6	124.0	123.3	122.6	123.3
70°	115.0	114.3	112.9	112.9	112.2	112.2	112.2	112.9	112.9	113.6	114.3
72.5°	103.8	102.4	102.4	103.1	101.7	102.4	103.1	102.4	103.8	103.8	104.5
75°	91.3	90.6	92.0	93.4	92.7	92.7	93.4	93.4	94.1	94.1	94.8
77.5°	81.5	82.2	82.9	84.3	85.0	85.0	85.0	84.3	85.0	85.0	85.7
80°	72.5	73.9	75.2	76.6	77.3	77.3	77.3	76.6	76.6	76.6	76.6
82.5°	65.5	67.6	69.0	69.7	69.7	69.7	69.7	69.7	69.7	68.3	66.9
85°	55.0	59.2	59.2	59.9	57.8	56.4	55.0	55.7	56.4	53.6	53.0
87.5°	27.9	27.9	29.3	30.7	31.4	31.4	35.5	33.4	32.7	32.0	30.7
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	742.7	742.0	743.4	742.0	742.7	743.4	742.0	744.1	745.5	743.4	741.3
5°	758.0	758.0	761.5	762.9	763.6	767.8	765.7	767.1	768.5	767.8	768.5
7.5°	767.8	770.6	774.1	777.6	778.3	781.7	781.0	783.1	784.5	788.0	788.0
10°	776.2	779.6	784.5	788.0	791.5	794.3	795.7	799.9	800.5	803.3	803.3
12.5°	783.8	788.0	792.9	798.5	801.9	807.5	808.2	814.5	816.6	817.3	815.2
15°	782.4	787.3	792.9	799.2	805.4	812.4	816.6	822.8	826.3	827.7	824.2
17.5°	769.2	773.4	780.3	788.7	796.4	805.4	813.1	822.1	827.7	829.1	828.4
20°	743.4	746.2	755.3	766.4	775.5	789.4	800.5	814.5	823.5	830.5	832.6
22.5°	692.6	699.5	708.6	721.1	734.4	751.8	767.8	788.0	807.5	824.2	841.0
25°	631.2	643.8	657.7	674.4	690.5	708.6	726.7	749.7	778.3	813.1	852.8
27.5°	569.2	590.8	608.3	629.8	648.7	666.8	687.0	712.1	743.4	785.2	836.1
30°	506.5	530.9	549.7	574.8	599.9	624.3	644.5	671.0	701.6	744.1	799.9
32.5°	439.6	464.0	486.3	509.3	537.2	566.4	590.8	623.6	656.3	700.2	756.7
35°	370.7	392.3	411.1	435.5	466.1	497.5	529.5	567.1	602.7	648.7	708.6
37.5°	310.7	326.1	344.2	365.8	389.5	422.9	459.1	503.7	544.2	594.3	655.6
40°	261.3	269.6	280.1	298.2	319.8	352.5	388.1	435.5	484.2	539.3	598.5
42.5°	223.0	227.1	229.9	241.8	259.2	291.2	325.4	371.4	425.0	484.9	544.8
45°	197.9	200.0	200.7	206.9	219.5	247.3	282.9	321.9	373.5	432.0	494.7
47.5°	186.0	188.1	189.5	190.9	198.6	220.2	252.2	289.1	336.5	390.2	454.3
50°	176.3	178.4	180.5	179.8	183.2	197.2	224.3	258.5	303.1	352.5	416.0
52.5°	166.5	167.9	167.9	167.9	170.0	179.1	198.6	229.9	271.0	317.7	380.4
55°	160.9	162.3	163.0	163.7	164.4	169.3	183.9	209.0	244.6	287.8	344.2
57.5°	155.4	156.1	157.5	158.2	159.6	162.3	171.4	189.5	219.5	255.7	303.1
60°	150.5	151.9	154.7	155.4	156.8	157.5	161.6	172.8	192.3	220.2	258.5
62.5°	142.8	144.9	147.7	148.4	149.8	150.5	151.2	157.5	166.5	183.2	211.8
63°	140.7	142.8	146.3	147.0	147.7	147.7	148.4	152.6	160.9	175.6	196.5
65°	133.1	135.9	138.0	138.7	139.3	139.3	138.7	140.0	140.7	147.0	159.6
67.5°	124.7	126.8	128.2	128.9	128.2	128.9	128.2	126.8	125.4	126.8	132.4
70°	116.4	117.7	117.7	118.4	119.1	119.8	118.4	117.1	115.7	115.0	118.4
72.5°	106.6	108.0	108.0	108.7	108.7	110.1	110.1	109.4	109.4	110.1	110.8
75°	96.8	98.2	97.5	98.9	98.9	101.0	101.0	101.7	103.1	102.4	101.7
77.5°	87.8	88.5	88.5	89.2	89.9	93.4	95.5	96.1	96.1	94.8	93.4
80°	78.0	78.0	76.6	75.9	76.6	80.1	84.3	85.0	87.1	86.4	87.1
82.5°	65.5	62.7	60.6	60.6	62.0	64.1	65.5	66.9	68.3	68.3	69.7
85°	50.2	47.4	45.3	46.0	48.1	48.8	48.1	48.1	50.9	53.0	50.9
87.5°	30.0	27.2	25.8	23.7	24.4	26.5	25.8	23.7	24.4	19.5	18.1
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-F03-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	742.7	742.0	740.6	738.5	737.8	736.4	737.1	735.1	733.7	732.3	730.2
5°	768.5	768.5	764.3	764.3	762.2	761.5	756.7	754.6	750.4	751.8	746.9
7.5°	786.6	788.7	783.8	783.1	780.3	779.6	773.4	771.3	767.8	766.4	762.2
10°	799.9	799.9	793.6	788.7	785.2	781.7	775.5	772.7	769.9	770.6	767.8
12.5°	810.3	805.4	796.4	789.4	784.5	781.0	776.2	774.1	773.4	778.3	779.0
15°	818.7	811.7	800.5	795.7	791.5	790.8	790.8	792.9	797.8	806.8	813.8
17.5°	823.5	819.4	813.8	812.4	819.4	823.5	829.1	835.4	842.4	854.9	862.6
20°	832.6	835.4	839.6	845.1	856.3	866.7	873.7	882.8	891.1	906.5	919.0
22.5°	856.3	872.3	885.6	896.7	913.4	928.1	937.1	949.7	955.9	966.4	985.9
25°	886.9	919.7	947.6	971.2	997.0	1012.4	1024.9	1040.9	1050.7	1068.1	1085.5
27.5°	877.9	924.6	966.4	1010.3	1045.8	1085.5	1113.4	1139.9	1156.6	1182.4	1205.4
30°	850.0	905.8	962.2	1020.0	1076.5	1133.6	1186.5	1234.6	1271.5	1308.5	1346.1
32.5°	812.4	876.5	945.5	1016.5	1090.4	1169.8	1243.0	1315.4	1376.7	1430.4	1482.7
35°	769.2	841.7	913.4	1001.2	1092.5	1193.5	1295.2	1395.6	1488.9	1583.7	1647.8
37.5°	717.6	791.5	871.6	972.6	1079.9	1204.7	1334.2	1465.2	1597.6	1725.1	1835.9
40°	662.6	737.8	822.1	931.5	1052.8	1197.7	1359.3	1535.6	1717.5	1902.1	2049.1
42.5°	613.8	691.2	783.1	893.9	1025.6	1188.6	1379.5	1596.2	1818.5	2047.0	2263.0
45°	566.4	651.4	748.3	867.4	1013.8	1195.6	1409.5	1652.7	1909.1	2186.4	2449.7
47.5°	523.9	610.3	704.4	834.7	996.3	1199.1	1438.8	1709.1	1994.8	2295.0	2607.9
50°	485.6	569.2	661.9	792.9	969.2	1197.0	1465.2	1760.0	2068.6	2380.7	2729.8
52.5°	448.0	533.0	627.8	752.5	935.7	1185.1	1477.8	1801.8	2136.9	2467.1	2828.0
55°	411.1	494.7	590.1	714.2	891.8	1154.5	1476.4	1828.9	2191.2	2548.7	2922.8
57.5°	367.9	447.3	540.7	671.7	845.1	1107.1	1455.5	1841.5	2237.9	2629.5	3036.4
60°	314.2	388.8	478.7	609.6	783.8	1046.5	1411.6	1834.5	2265.1	2689.4	3133.2
62.5°	248.0	312.8	395.0	523.2	707.2	959.4	1329.4	1771.1	2221.9	2681.0	3178.5
63°	234.1	295.4	375.5	502.3	674.4	935.7	1305.0	1746.0	2201.0	2663.6	3172.2
65°	188.1	227.8	291.9	405.5	564.4	819.4	1183.8	1617.1	2088.8	2541.0	3081.7
67.5°	144.2	164.4	198.6	278.0	399.2	644.5	958.7	1370.5	1812.9	2237.9	2789.7
70°	123.3	132.4	147.0	184.6	253.6	406.9	673.0	1022.1	1405.3	1773.9	2270.0
72.5°	112.2	116.4	124.0	140.0	174.2	243.9	429.2	665.4	955.9	1264.6	1647.8
75°	103.1	106.6	112.9	121.2	133.8	162.3	244.6	406.9	621.5	830.5	1112.0
77.5°	94.1	96.1	103.1	110.8	119.1	133.8	161.6	234.1	357.4	489.8	670.3
80°	86.4	85.0	89.9	102.4	110.8	119.1	127.5	151.9	203.4	268.2	362.3
82.5°	69.0	70.4	74.6	87.1	90.6	88.5	89.9	94.1	113.6	124.0	185.3
85°	46.7	43.2	42.5	43.9	43.9	41.8	41.8	41.1	45.3	51.6	88.5
87.5°	12.5	6.3	0.0	0.0	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	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: VWM-F03-LED-E1-SLR-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	0°
2.5°	728.8	728.1	728.8	725.3	725.3	724.6	723.9	722.5	722.5	719.7	721.8	2.5°
5°	742.7	741.3	738.5	734.4	732.3	729.5	729.5	726.7	724.6	721.8	722.5	5°
7.5°	758.7	759.4	754.6	751.1	749.7	746.9	747.6	743.4	744.1	742.0	740.6	7.5°
10°	767.8	767.8	769.2	768.5	769.9	769.9	772.0	769.2	767.8	765.7	765.7	10°
12.5°	782.4	785.2	790.8	790.8	795.0	796.4	797.1	798.5	795.7	794.3	789.4	12.5°
15°	818.7	825.6	830.5	837.5	845.8	848.6	848.6	845.8	844.4	842.4	833.3	15°
17.5°	878.6	893.9	898.1	909.2	910.6	914.1	923.9	918.3	914.8	900.2	897.4	17.5°
20°	939.9	959.4	978.9	992.8	999.8	1013.8	1015.8	1013.1	999.1	985.2	978.9	20°
22.5°	1013.8	1043.0	1065.3	1086.9	1097.4	1104.3	1119.7	1116.2	1105.0	1084.1	1075.8	22.5°
25°	1118.3	1154.5	1178.2	1204.7	1218.6	1225.6	1240.9	1240.9	1229.0	1222.8	1222.1	25°
27.5°	1249.9	1294.5	1333.6	1342.6	1378.8	1387.2	1401.8	1401.8	1390.7	1383.0	1419.9	27.5°
30°	1396.3	1442.9	1510.5	1555.8	1599.7	1642.9	1642.2	1645.0	1658.2	1665.2	1681.2	30°
32.5°	1542.6	1600.4	1672.2	1770.4	1864.5	1944.6	2048.4	2114.6	2094.4	2038.0	2015.7	32.5°
35°	1720.2	1784.3	1871.4	1970.4	2142.5	2246.3	2296.4	2332.0	2336.2	2343.8	2359.8	35°
37.5°	1918.1	2025.4	2126.4	2238.6	2334.1	2460.2	2576.5	2669.9	2691.5	2735.4	2710.3	37.5°
40°	2168.2	2288.1	2394.0	2538.9	2667.1	2819.0	2985.5	3113.7	3165.3	3148.5	3023.1	40°
42.5°	2430.2	2578.6	2702.6	2873.3	3039.9	3240.5	3412.6	3591.7	3623.7	3494.8	3307.4	42.5°
45°	2671.3	2855.2	3009.2	3186.9	3390.3	3630.7	3860.6	4044.5	4038.3	3817.4	3566.6	45°
47.5°	2888.0	3113.7	3301.8	3533.1	3751.9	4038.3	4302.3	4438.2	4358.1	4096.8	3789.5	47.5°
50°	3067.0	3348.5	3580.5	3814.6	4092.6	4437.5	4691.8	4768.5	4613.8	4329.5	4006.2	50°
52.5°	3211.3	3564.5	3825.1	4094.7	4445.9	4808.9	5027.6	4999.1	4799.1	4507.2	4185.3	52.5°
55°	3333.2	3729.6	4040.4	4358.8	4794.2	5128.7	5274.3	5197.6	4918.3	4622.1	4307.9	55°
57.5°	3459.3	3889.9	4238.2	4607.5	5092.4	5379.5	5460.3	5302.9	4974.7	4666.0	4360.9	57.5°
60°	3585.4	4023.6	4413.1	4824.9	5318.2	5584.3	5562.0	5326.5	4958.0	4634.0	4325.3	60°
62.5°	3670.4	4103.1	4514.8	4958.7	5487.5	5688.8	5552.3	5242.2	4861.1	4507.9	4219.4	62.5°
63°	3672.5	4105.9	4521.1	4967.7	5506.3	5692.3	5533.5	5212.3	4830.5	4482.1	4188.1	63°
65°	3628.6	4053.6	4465.4	4926.6	5490.3	5612.2	5371.1	5035.3	4655.6	4303.7	4025.0	65°
67.5°	3404.2	3837.6	4201.3	4636.1	5203.2	5238.1	4936.4	4665.3	4323.9	3959.5	3668.3	67.5°
70°	2952.1	3312.3	3669.0	4032.0	4507.9	4501.6	4218.0	4080.1	3781.2	3365.9	3132.5	70°
72.5°	2348.0	2671.3	2922.1	3165.3	3478.8	3415.4	3232.9	3271.2	3077.5	2767.4	2628.8	72.5°
75°	1743.2	2098.6	2221.2	2320.1	2452.5	2453.2	2503.4	2612.1	2609.3	2437.2	2262.3	75°
77.5°	1143.3	1532.1	1573.2	1652.7	1811.5	2027.5	2250.5	2490.1	2550.1	2414.2	2155.7	77.5°
80°	637.5	1041.6	994.2	1062.5	1233.9	1527.2	1856.1	2120.9	2276.9	2201.0	1927.2	80°
82.5°	326.1	600.6	574.1	668.9	807.5	1062.5	1279.9	1483.3	1667.3	1656.8	1553.0	82.5°
85°	169.3	328.9	374.1	423.6	493.3	584.6	666.8	726.0	802.6	937.8	983.8	85°
87.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	50.2	36.2	99.6	142.1	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
730.9	730.9	730.9	730.9	730.9	730.9	730.9
722.5	723.2	721.8	721.8	722.5	722.5	721.1
721.1	721.1	719.7	718.3	716.9	716.9	715.5
737.1	737.1	732.3	730.2	726.7	723.9	722.5
760.8	756.7	751.1	746.9	741.3	735.1	731.6
784.5	778.3	771.3	765.0	758.0	751.1	747.6
823.5	815.2	806.1	798.5	788.7	778.3	774.1
883.5	870.2	858.4	847.2	829.8	822.1	813.8
962.9	943.4	928.1	909.2	887.6	880.7	870.2
1059.0	1042.3	1011.7	997.7	976.1	965.7	967.8
1205.4	1183.8	1148.2	1135.0	1132.9	1109.9	1098.8
1396.3	1397.7	1364.9	1329.4	1309.9	1273.6	1227.6
1668.0	1649.2	1610.9	1574.6	1528.6	1460.4	1383.7
1996.8	1955.0	1891.6	1824.1	1742.5	1637.3	1530.0
2318.0	2244.9	2143.9	2031.0	1913.2	1782.2	1630.4
2600.2	2486.6	2335.5	2205.9	2039.3	1875.6	1690.3
2858.0	2717.3	2522.2	2354.3	2157.8	1947.4	1727.9
3107.4	2929.1	2690.1	2463.0	2240.7	1995.5	1746.0
3345.0	3115.1	2831.5	2561.2	2301.3	2026.8	1748.8
3527.6	3276.7	2958.3	2632.3	2343.1	2050.5	1748.8
3696.9	3413.3	3055.2	2688.0	2382.1	2066.5	1750.2
3828.6	3509.5	3117.9	2727.7	2412.8	2078.4	1756.5
3924.0	3572.2	3159.7	2752.1	2435.1	2095.1	1770.4
3990.9	3613.3	3182.7	2773.7	2462.3	2124.3	1809.4
4023.0	3689.2	3221.0	2816.9	2508.9	2186.4	1887.5
3998.6	3807.0	3330.4	2890.1	2573.7	2283.2	2012.2
3988.1	3828.6	3360.4	2906.1	2588.4	2304.1	2055.4
3906.6	3850.2	3483.7	2986.9	2658.0	2396.8	2175.9
3653.7	3765.2	3587.5	3123.5	2807.8	2621.8	2401.0
3326.2	3639.0	3568.7	3140.9	2903.3	2806.5	2543.1
2934.0	3257.9	3192.4	2908.9	2798.1	2808.5	2506.2
2309.0	2552.1	2508.9	2409.3	2431.6	2508.2	2146.6
1849.8	1817.1	1717.5	1724.4	1853.3	1943.2	1545.4
1511.2	1223.5	1093.9	1097.4	1322.4	1415.8	984.5
1438.1	1157.3	942.7	823.5	962.2	926.7	514.2
1024.2	1026.3	851.4	691.9	670.3	569.9	320.5
242.5	194.4	138.7	103.1	108.7	71.8	36.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)