

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: P149360

Luminaire Tested: **VWM-E02-LED-E1-SL2-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149360
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-E02-LED-E1-SL2-HSS
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3667.1 lumens
Efficiency: N/A
Efficacy: 70.4 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

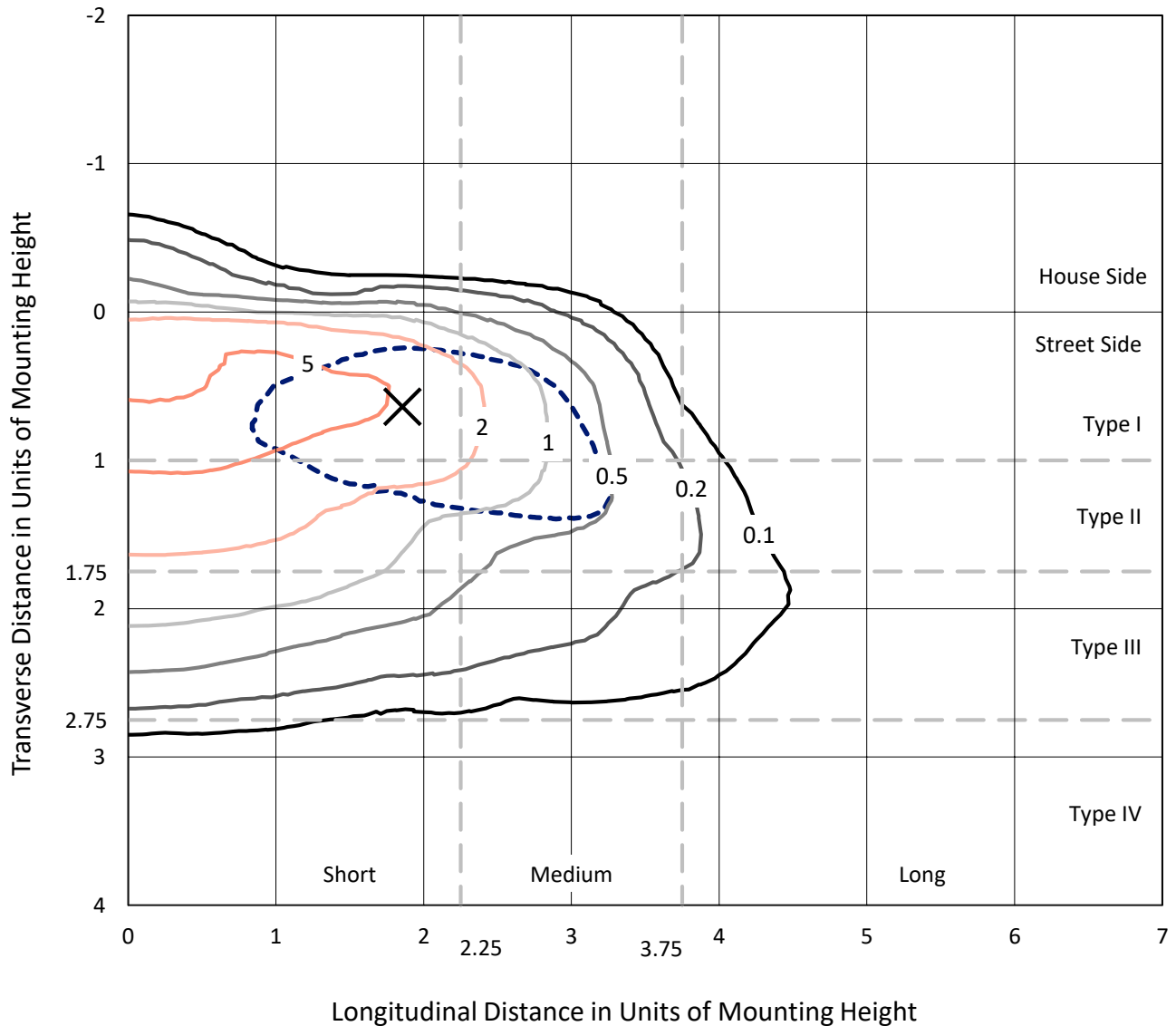
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

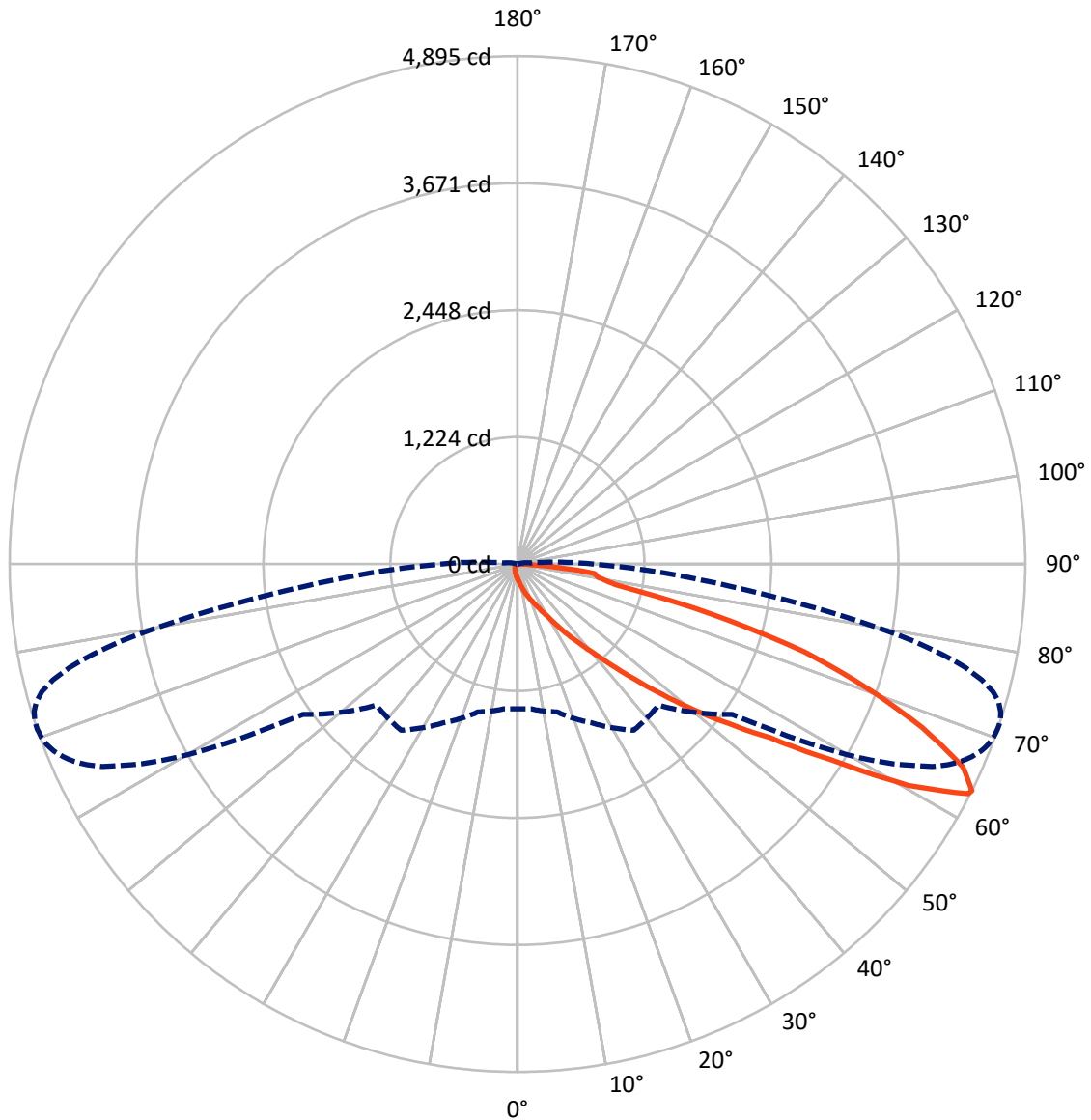
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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	77.9	0.0	77.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3589.3	0.0	3589.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	3667.1	0.0	3667.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.5	0.4
10°-20°	60.3	1.6
20°-30°	122.5	3.3
30°-40°	299.2	8.2
40°-50°	669.2	18.2
50°-60°	941.0	25.7
60°-70°	1106.5	30.2
70°-80°	399.5	10.9
80°-90°	53.4	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°	3667.1	100.0
0°-180°	3667.1	100.0



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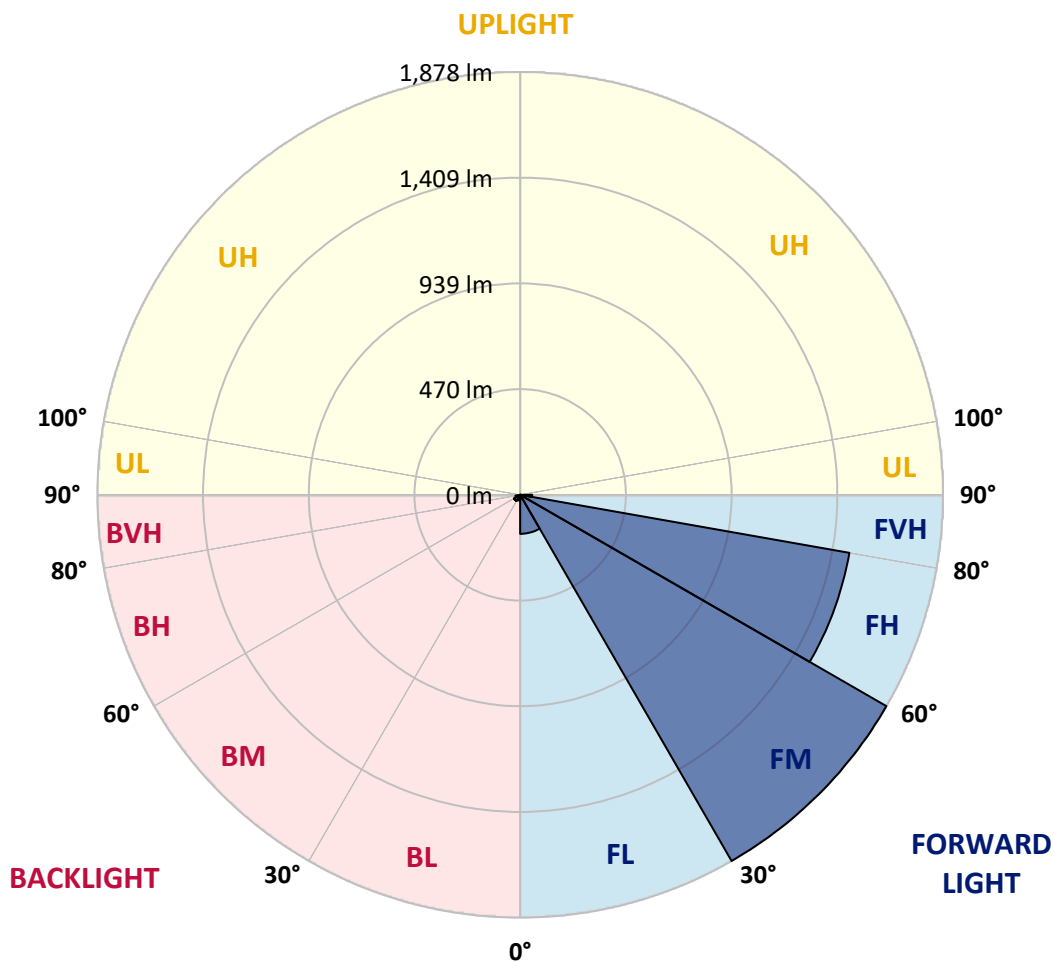
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	173.3	4.7			
FM (30°-60°)	1878.0	51.2			
FH (60°-80°)	1484.7	40.5			G1/1800
FVH (80°-90°)	53.3	1.5			G1/100
BL (0°-30°)	25.0	0.7	B0/110		
BM (30°-60°)	31.4	0.9	B0/220		
BH (60°-80°)	21.3	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°	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7
2.5°	184.0	186.0	184.7	181.3	177.3	172.0	167.3	167.3	166.7	164.7	165.3
5°	241.3	242.0	239.3	231.3	224.0	212.7	200.0	198.7	197.3	195.3	194.7
7.5°	297.3	300.0	297.3	288.7	274.0	256.7	236.7	234.7	230.7	230.7	228.0
10°	354.7	354.7	352.0	342.0	328.7	304.0	278.7	275.3	270.7	269.3	265.3
12.5°	395.3	395.3	394.0	388.7	378.0	356.0	325.3	322.0	316.0	314.0	309.3
15°	411.3	411.3	412.0	416.7	417.3	407.3	375.3	372.7	366.7	361.3	359.3
17.5°	421.3	420.7	420.7	427.3	439.3	446.0	425.3	422.7	416.0	413.3	406.7
20°	443.3	442.0	438.0	438.0	449.3	472.7	472.7	472.0	464.7	462.7	459.3
22.5°	476.0	474.7	462.7	452.7	458.0	487.3	514.7	513.3	510.7	508.0	506.0
25°	529.3	524.7	504.0	474.7	470.0	501.3	546.7	550.0	552.0	552.0	553.3
27.5°	610.0	604.0	567.3	512.7	492.0	524.0	582.0	588.7	594.7	596.0	602.0
30°	722.0	711.3	658.7	578.7	531.3	557.3	634.0	641.3	650.0	652.7	662.0
32.5°	906.0	900.0	849.3	729.3	628.0	622.7	706.7	716.0	727.3	732.0	743.3
35°	1186.0	1187.3	1146.0	1038.0	898.0	824.7	836.7	844.7	848.7	862.7	868.7
37.5°	1376.0	1379.3	1388.7	1346.0	1246.0	1171.3	1077.3	1086.0	1065.3	1067.3	1068.0
40°	1480.0	1490.7	1545.3	1586.7	1578.7	1535.3	1460.0	1464.7	1426.0	1417.3	1375.3
42.5°	1549.3	1563.3	1650.7	1778.7	1844.0	1883.3	1866.0	1864.0	1834.0	1822.7	1787.3
45°	1592.7	1605.3	1715.3	1904.0	2054.7	2169.3	2216.7	2222.0	2196.7	2185.3	2156.0
47.5°	1590.7	1605.3	1723.3	1950.7	2172.7	2356.0	2489.3	2496.0	2511.3	2501.3	2503.3
50°	1502.7	1516.7	1635.3	1871.3	2138.0	2441.3	2685.3	2706.7	2731.3	2748.0	2756.0
52.5°	1396.0	1406.0	1511.3	1735.3	1990.0	2406.0	2801.3	2838.0	2874.7	2906.0	2928.0
55°	1356.7	1368.0	1450.7	1636.7	1871.3	2258.0	2855.3	2909.3	2961.3	3012.7	3054.7
57.5°	1377.3	1388.0	1447.3	1590.0	1800.7	2102.0	2870.7	2954.7	3040.0	3123.3	3206.0
60°	1453.3	1464.7	1515.3	1633.3	1782.0	2012.0	2810.7	2950.0	3092.0	3237.3	3374.0
62.5°	1423.3	1428.0	1502.7	1709.3	1915.3	1935.3	2592.7	2787.3	3004.0	3228.0	3448.7
63°	1394.7	1400.0	1476.0	1688.7	1956.0	1924.0	2525.3	2730.7	2959.3	3200.7	3440.7
65°	1264.7	1265.3	1323.3	1491.3	1910.7	1944.0	2225.3	2421.3	2684.0	2973.3	3276.7
67.5°	944.0	939.3	995.3	1123.3	1500.0	1944.7	1910.0	2020.0	2202.7	2459.3	2731.3
70°	334.7	327.3	418.0	595.3	934.7	1590.7	1641.3	1648.7	1699.3	1838.0	2008.7
72.5°	108.7	110.7	133.3	218.0	430.7	1070.7	1486.0	1463.3	1450.0	1449.3	1472.0
75°	43.3	44.0	53.3	96.7	193.3	516.0	1301.3	1314.0	1318.7	1325.3	1332.7
77.5°	20.7	22.7	30.0	54.0	96.0	255.3	931.3	1038.7	1100.0	1147.3	1176.0
80°	7.3	8.7	16.7	33.3	44.7	117.3	490.7	592.0	682.0	798.0	898.0
82.5°	0.0	0.0	3.3	23.3	24.7	47.3	201.3	236.0	270.0	350.0	449.3
85°	0.0	0.0	0.0	6.7	7.3	8.0	68.0	82.0	92.0	107.3	124.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.0	4.0	10.0	15.3
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°	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7
2.5°	164.0	163.3	163.3	162.0	161.3	160.0	159.3	157.3	156.7	156.7	156.7
5°	194.0	191.3	190.0	186.7	184.7	184.0	180.7	179.3	177.3	178.0	174.7
7.5°	227.3	222.7	220.7	216.0	214.7	210.0	208.7	205.3	203.3	199.3	198.0
10°	264.0	258.0	254.7	247.3	245.3	242.0	238.0	234.0	230.7	226.7	224.7
12.5°	306.0	300.7	298.0	288.0	283.3	278.7	273.3	268.0	262.7	259.3	254.7
15°	355.3	346.7	344.0	334.7	326.7	320.7	313.3	306.7	302.7	296.0	291.3
17.5°	404.0	395.3	393.3	379.3	370.7	366.7	358.7	350.0	342.7	336.0	328.7
20°	452.7	446.7	441.3	428.0	418.7	412.0	401.3	392.7	386.7	377.3	368.0
22.5°	501.3	495.3	491.3	477.3	468.7	459.3	450.0	440.7	432.0	420.7	410.0
25°	551.3	547.3	545.3	532.7	524.7	516.0	506.7	496.0	485.3	472.7	461.3
27.5°	603.3	604.7	600.7	598.0	589.3	583.3	568.7	561.3	553.3	538.0	524.0
30°	669.3	673.3	672.0	674.0	668.7	664.7	653.3	644.0	634.7	620.0	604.0
32.5°	752.7	758.0	760.7	768.0	765.3	764.0	760.7	747.3	740.7	715.3	708.7
35°	881.3	878.7	890.0	896.0	893.3	892.0	888.0	880.7	872.7	854.7	838.0
37.5°	1048.7	1051.3	1055.3	1043.3	1035.3	1034.7	1022.7	1015.3	1004.0	984.0	964.0
40°	1355.3	1338.7	1320.0	1269.3	1247.3	1234.7	1199.3	1189.3	1170.0	1142.7	1122.0
42.5°	1754.0	1737.3	1681.3	1596.7	1551.3	1488.7	1460.0	1424.7	1397.3	1352.7	1328.7
45°	2150.0	2102.0	2095.3	1996.7	1940.7	1858.0	1806.7	1747.3	1685.3	1626.7	1584.0
47.5°	2484.0	2473.3	2440.7	2380.7	2328.7	2259.3	2193.3	2102.0	2038.0	1954.7	1878.0
50°	2751.3	2750.7	2738.7	2704.0	2660.7	2604.7	2546.7	2469.3	2396.7	2294.7	2212.7
52.5°	2951.3	2962.0	2966.0	2955.3	2938.7	2889.3	2860.0	2795.3	2734.0	2647.3	2558.7
55°	3098.0	3137.3	3157.3	3180.0	3175.3	3158.0	3156.7	3114.7	3086.7	3018.0	2955.3
57.5°	3279.3	3344.0	3406.0	3516.0	3520.0	3558.7	3578.7	3598.7	3604.0	3576.7	3556.0
60°	3510.0	3642.0	3759.3	3989.3	4049.3	4144.0	4205.3	4272.0	4328.7	4333.3	4332.0
62.5°	3672.7	3876.0	4065.3	4406.7	4523.3	4632.7	4714.7	4779.3	4818.7	4858.7	4877.3
63°	3677.3	3900.0	4101.3	4453.3	4576.0	4680.0	4758.0	4818.0	4859.3	4883.3	4895.3
65°	3564.7	3834.7	4074.7	4425.3	4540.7	4645.3	4686.0	4725.3	4745.3	4754.7	4719.3
67.5°	3021.3	3285.3	3565.3	3957.3	4056.0	4181.3	4214.7	4234.7	4244.0	4242.0	4212.0
70°	2259.3	2480.7	2792.0	3240.0	3370.7	3493.3	3569.3	3602.0	3612.7	3609.3	3564.7
72.5°	1577.3	1707.3	1964.0	2462.7	2640.7	2798.0	2892.0	2940.7	2950.7	2930.7	2889.3
75°	1324.7	1331.3	1389.3	1662.0	1828.7	1996.7	2102.7	2133.3	2113.3	2052.7	1947.3
77.5°	1182.7	1197.3	1197.3	1238.0	1270.7	1317.3	1327.3	1252.7	1166.0	1054.0	963.3
80°	992.0	1043.3	1079.3	1109.3	1112.7	1103.3	1078.7	1036.7	970.0	884.7	790.0
82.5°	602.7	704.0	745.3	900.0	976.0	1027.3	1023.3	967.3	916.7	828.0	747.3
85°	152.0	164.0	178.0	231.3	259.3	316.7	352.7	369.3	375.3	344.7	312.0
87.5°	14.7	10.0	16.7	12.7	18.0	13.3	18.0	16.7	20.7	22.0	24.0
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7
2.5°	155.3	154.7	154.0	153.3	152.7	152.0	150.7	150.7	149.3	148.7	148.0
5°	172.7	171.3	170.7	169.3	167.3	166.0	164.0	161.3	159.3	158.7	157.3
7.5°	194.7	191.3	190.0	188.0	185.3	181.3	178.7	176.7	173.3	171.3	167.3
10°	219.3	216.0	212.0	208.0	204.0	199.3	196.0	193.3	188.0	185.3	180.7
12.5°	250.7	244.7	240.0	234.7	229.3	224.0	220.0	212.0	207.3	201.3	197.3
15°	282.7	277.3	272.0	265.3	257.3	248.7	244.7	237.3	231.3	222.0	216.7
17.5°	321.3	311.3	303.3	295.3	288.0	280.0	272.0	260.7	252.0	244.0	233.3
20°	359.3	347.3	338.7	328.0	317.3	304.7	295.3	287.3	275.3	264.7	253.3
22.5°	400.0	388.0	374.0	363.3	348.7	338.7	326.0	312.7	300.7	286.7	272.7
25°	449.3	436.7	420.7	406.7	390.0	376.0	360.7	345.3	330.7	314.7	296.7
27.5°	510.0	496.7	479.3	462.7	440.7	423.3	408.7	388.0	369.3	349.3	328.7
30°	586.7	572.0	550.7	526.7	504.7	485.3	464.7	437.3	416.7	392.7	366.0
32.5°	686.7	669.3	640.7	618.0	590.7	565.3	536.7	509.3	480.0	448.7	418.0
35°	812.7	796.7	763.3	730.0	700.0	670.0	634.0	602.7	561.3	523.3	484.0
37.5°	943.3	914.7	884.0	848.0	810.7	774.7	730.7	687.3	640.0	598.7	549.3
40°	1092.7	1058.0	1032.7	994.0	941.3	890.0	849.3	795.3	736.0	680.7	622.7
42.5°	1297.3	1258.7	1213.3	1154.7	1116.7	1056.7	1004.0	940.0	862.0	800.0	730.0
45°	1534.0	1481.3	1437.3	1380.7	1334.7	1260.0	1198.7	1113.3	1035.3	954.0	868.7
47.5°	1804.0	1738.7	1674.7	1618.7	1545.3	1472.0	1394.0	1303.3	1203.3	1114.0	1012.7
50°	2114.0	2021.3	1932.7	1860.7	1760.0	1675.3	1590.7	1488.7	1378.0	1275.3	1160.0
52.5°	2458.7	2351.3	2234.0	2123.3	2006.7	1898.0	1796.0	1678.7	1555.3	1430.0	1301.3
55°	2874.7	2794.0	2656.0	2515.3	2359.3	2214.0	2082.7	1937.3	1787.3	1622.7	1487.3
57.5°	3526.0	3486.7	3371.3	3230.7	3027.3	2850.7	2628.0	2450.0	2232.7	2006.0	1831.3
60°	4408.7	4360.0	4295.3	4181.3	4020.0	3780.0	3534.7	3258.0	2927.3	2613.3	2315.3
62.5°	4879.3	4862.0	4809.3	4730.7	4580.0	4390.7	4143.3	3839.3	3466.0	3084.7	2704.7
63°	4893.3	4871.3	4826.0	4746.0	4613.3	4430.0	4187.3	3892.0	3526.7	3138.0	2750.0
65°	4704.0	4695.3	4649.3	4562.0	4471.3	4331.3	4143.3	3889.3	3582.7	3215.3	2829.3
67.5°	4172.0	4146.0	4075.3	4048.7	3985.3	3888.0	3744.7	3570.0	3350.7	3062.0	2728.7
70°	3528.7	3490.0	3401.3	3354.0	3276.7	3215.3	3128.0	3003.3	2868.0	2666.7	2418.0
72.5°	2846.7	2766.7	2685.3	2562.0	2454.0	2344.7	2248.0	2160.0	2011.3	1930.0	1741.3
75°	1848.7	1703.3	1564.0	1377.3	1209.3	1060.7	916.0	842.7	690.0	628.0	539.3
77.5°	877.3	796.0	686.7	602.0	494.0	403.3	329.3	247.3	194.0	152.0	116.0
80°	708.0	639.3	573.3	496.7	415.3	331.3	254.0	190.0	134.7	93.3	66.0
82.5°	631.3	556.7	475.3	422.7	367.3	300.7	246.7	201.3	148.7	108.7	74.0
85°	245.3	206.7	159.3	130.0	101.3	83.3	75.3	52.0	40.7	32.0	24.7
87.5°	21.3	17.3	14.0	9.3	10.0	5.3	6.0	4.0	3.3	3.3	2.7
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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CATALOG NUMBER: VWM-E02-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7	140.7
2.5°	147.3	146.7	146.0	144.7	144.7	143.3	142.7	142.0	138.7	131.3	125.3
5°	154.7	153.3	152.0	150.0	148.7	146.7	145.3	143.3	136.0	122.0	110.0
7.5°	165.3	162.7	160.7	156.7	154.7	152.0	150.0	146.7	134.7	113.3	96.7
10°	178.0	173.3	170.0	165.3	161.3	158.0	154.7	150.0	133.3	104.0	84.7
12.5°	193.3	188.0	181.3	176.0	170.7	166.0	161.3	155.3	131.3	96.0	75.3
15°	208.7	200.7	196.0	188.7	181.3	174.7	168.0	162.7	132.0	87.3	67.3
17.5°	226.0	218.0	208.0	200.0	192.0	183.3	175.3	164.7	128.7	80.7	61.3
20°	242.7	231.3	222.0	212.0	200.7	190.0	180.0	170.7	126.0	74.0	56.0
22.5°	260.7	247.3	235.3	222.7	208.7	196.7	184.7	172.7	121.3	68.0	51.3
25°	282.7	267.3	250.0	234.7	220.0	205.3	190.0	175.3	116.7	62.7	48.0
27.5°	309.3	289.3	272.0	252.7	232.0	213.3	196.7	180.7	112.0	58.7	44.7
30°	343.3	320.0	295.3	270.7	248.7	227.3	204.0	184.0	107.3	54.7	41.3
32.5°	388.7	359.3	329.3	300.7	271.3	244.0	219.3	193.3	104.7	51.3	38.0
35°	448.7	410.7	374.0	338.0	302.7	269.3	237.3	208.0	104.7	47.3	34.0
37.5°	505.3	461.3	414.7	370.0	328.0	289.3	251.3	216.0	99.3	44.0	30.7
40°	566.7	514.0	459.3	406.7	356.0	308.0	264.7	224.0	94.7	40.0	27.3
42.5°	660.7	594.0	522.7	461.3	400.7	341.3	287.3	239.3	88.7	36.0	24.0
45°	784.0	699.3	615.3	540.7	463.3	390.7	326.7	267.3	87.3	32.7	20.7
47.5°	916.0	816.0	717.3	622.0	531.3	446.7	370.0	298.7	87.3	29.3	18.0
50°	1047.3	922.0	816.7	706.0	604.0	504.0	412.7	331.3	88.0	26.7	14.7
52.5°	1166.0	1032.0	914.0	786.0	673.3	557.3	458.0	363.3	86.7	23.3	12.0
55°	1330.7	1173.3	1036.7	895.3	763.3	632.7	520.0	411.3	87.3	20.7	10.0
57.5°	1634.0	1449.3	1284.7	1099.3	947.3	778.7	642.0	510.0	95.3	17.3	7.3
60°	2069.3	1829.3	1598.0	1372.0	1178.7	978.0	800.7	645.3	112.0	14.0	5.3
62.5°	2362.0	2048.0	1772.0	1522.7	1298.0	1088.0	894.7	718.0	123.3	11.3	3.3
63°	2392.0	2067.3	1790.0	1532.7	1303.3	1093.3	898.7	723.3	124.0	10.7	3.3
65°	2448.7	2100.7	1800.0	1534.7	1298.0	1086.0	896.0	722.7	125.3	8.7	2.7
67.5°	2384.0	2049.3	1742.0	1477.3	1251.3	1042.7	862.7	696.0	124.7	6.0	2.0
70°	2132.0	1854.7	1584.7	1338.0	1132.7	944.0	785.3	634.7	114.7	4.0	1.3
72.5°	1565.3	1376.7	1167.3	989.3	853.3	708.7	604.7	476.7	88.7	2.7	0.7
75°	464.0	422.7	355.3	313.3	276.7	228.7	203.3	158.7	45.3	1.3	0.0
77.5°	92.7	84.0	75.3	68.7	64.7	55.3	52.7	43.3	18.7	0.7	0.0
80°	48.7	40.0	34.0	30.0	26.0	21.3	18.0	14.7	3.3	0.0	0.0
82.5°	46.7	31.3	22.7	18.7	16.0	12.7	10.0	7.3	2.0	0.0	0.0
85°	17.3	13.3	10.0	8.0	6.7	6.0	4.7	4.0	0.0	0.0	0.0
87.5°	2.7	2.0	2.0	1.3	1.3	0.7	0.7	0.7	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-E02-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	140.7	140.7	140.7	140.7	140.7	140.7	140.7
2.5°	119.3	114.0	111.3	108.0	108.0	107.3	108.7
5°	99.3	92.0	86.7	82.7	83.3	81.3	82.0
7.5°	84.0	76.7	72.0	69.3	68.7	68.0	68.0
10°	72.7	66.0	62.0	60.0	59.3	59.3	59.3
12.5°	64.7	58.0	54.7	53.3	53.3	52.7	52.7
15°	58.0	52.7	49.3	48.0	48.0	47.3	48.0
17.5°	52.7	47.3	44.7	43.3	43.3	42.7	42.7
20°	48.0	43.3	40.7	38.7	38.7	38.0	38.7
22.5°	44.0	39.3	36.0	34.7	34.0	33.3	34.0
25°	40.0	35.3	32.0	30.0	29.3	29.3	28.7
27.5°	36.7	32.0	28.0	26.0	25.3	25.3	24.7
30°	33.3	28.0	24.0	22.0	21.3	21.3	21.3
32.5°	30.0	24.0	20.7	18.7	18.0	18.0	18.0
35°	26.7	20.7	17.3	15.3	14.7	14.7	14.7
37.5°	22.7	17.3	13.3	12.0	11.3	10.7	10.7
40°	19.3	13.3	10.0	8.7	7.3	7.3	7.3
42.5°	16.0	10.7	7.3	5.3	4.7	4.0	4.7
45°	13.3	8.0	4.7	2.7	2.0	2.0	2.0
47.5°	10.7	5.3	2.0	0.7	0.7	0.7	0.7
50°	8.0	3.3	0.7	0.0	0.0	0.7	0.7
52.5°	6.0	2.0	0.0	0.0	0.0	0.0	0.0
55°	3.3	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	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)