

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: P180587

Luminaire Tested: **ICM-E04-LED-E1-SL3-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180587
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E04-LED-E1-SL3-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5892.4 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

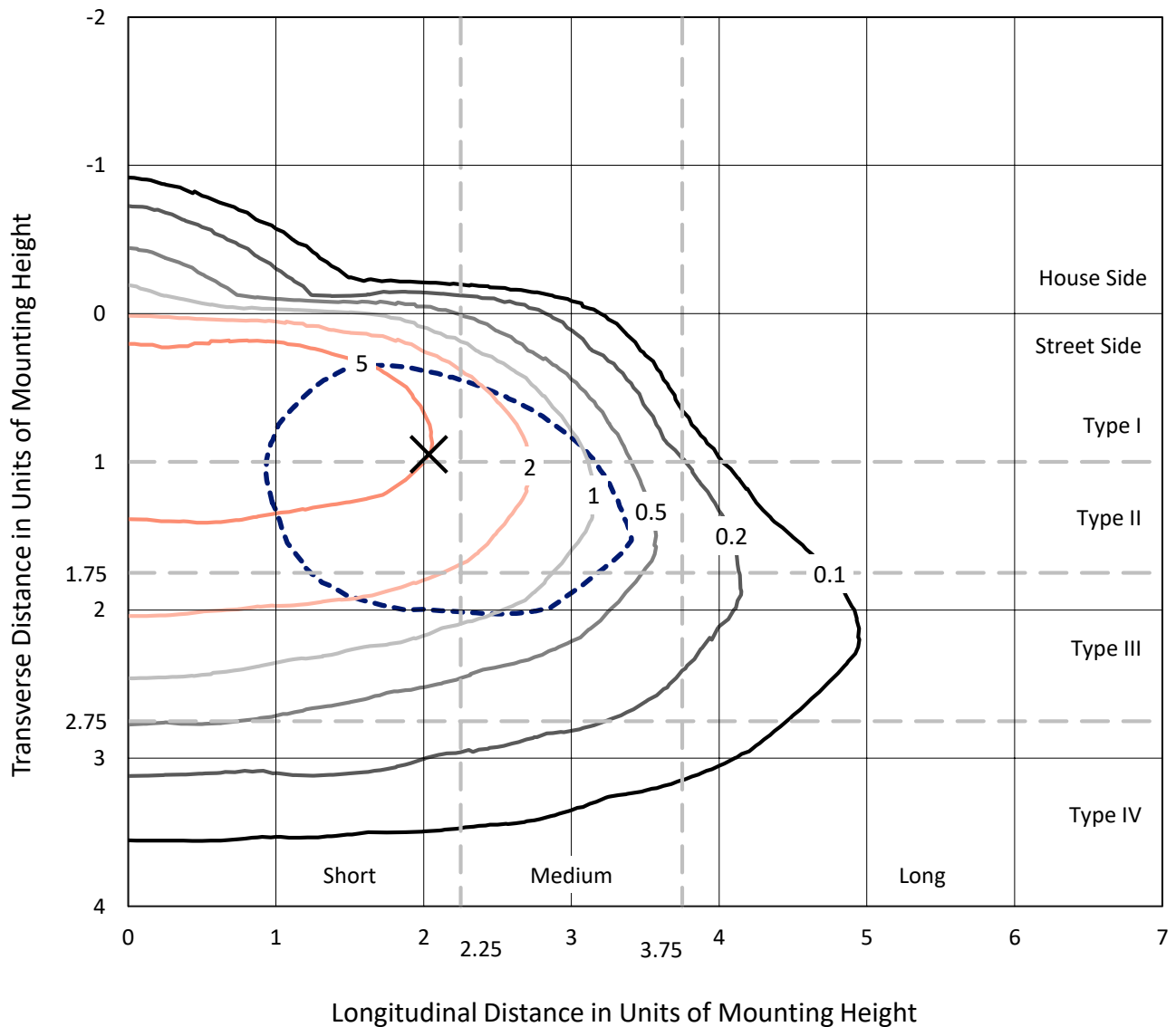
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

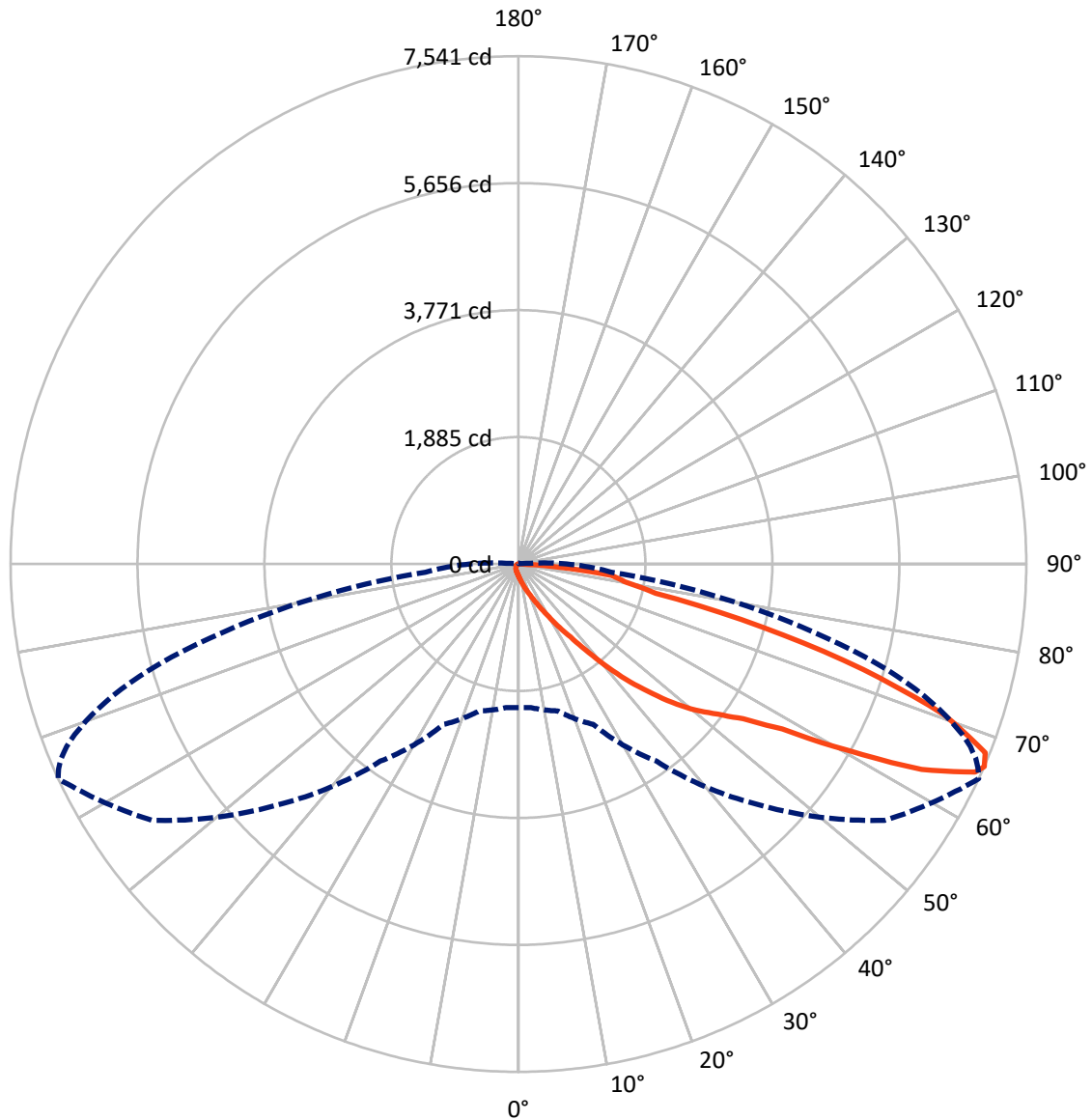
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	127.7	0.0	127.7
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	5764.8	0.0	5764.8
	% Fixture	97.8	0.0	97.8
Total	Lumens	5892.4	0.0	5892.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	0.3
10°-20°	84.4	1.4
20°-30°	182.1	3.1
30°-40°	388.8	6.6
40°-50°	859.9	14.6
50°-60°	1457.3	24.7
60°-70°	1944.7	33.0
70°-80°	856.6	14.5
80°-90°	98.7	1.7
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°	5892.4	100.0
0°-180°	5892.4	100.0



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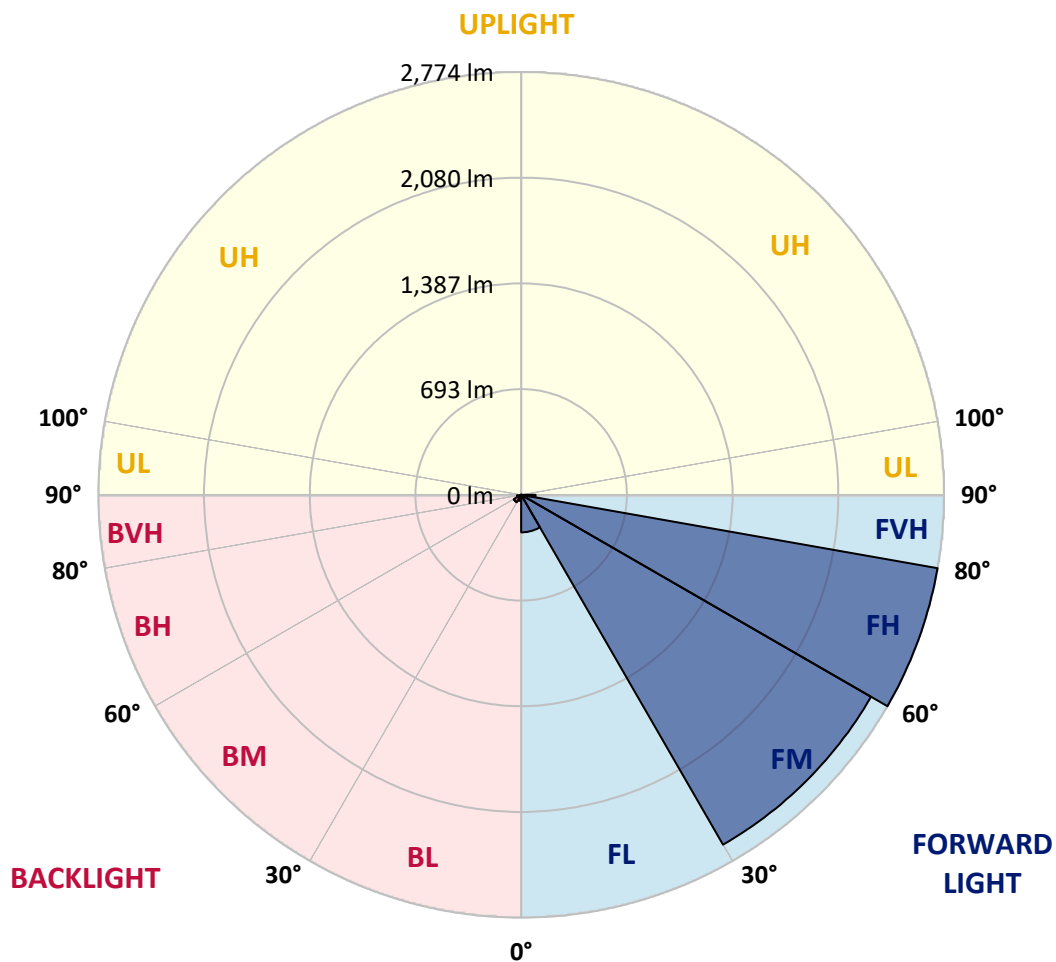
CATALOG NUMBER: ICM-E04-LED-E1-SL3-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	246.1	4.2			
FM	(30°-60°)	2650.0	45.0			
FH	(60°-80°)	2773.9	47.1			G2/5000
FVH	(80°-90°)	94.7	1.6			G1/100
BL	(0°-30°)	40.3	0.7	B0/110		
BM	(30°-60°)	56.1	1.0	B0/220		
BH	(60°-80°)	27.4	0.5	B0/110		G0/110
BVH	(80°-90°)	3.9	0.1			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9
2.5°	224.3	223.2	218.6	218.6	211.8	207.4	201.7	196.0	196.0	194.9	193.7
5°	296.8	290.0	288.8	276.4	266.2	251.5	237.9	219.8	217.5	215.3	214.1
7.5°	377.2	376.1	365.9	351.2	330.8	303.6	276.4	247.0	242.4	240.2	235.6
10°	481.5	475.8	462.2	437.3	406.7	370.4	326.2	279.8	274.1	269.6	267.4
12.5°	581.1	571.0	563.0	531.3	492.7	439.5	386.3	319.4	314.9	309.3	300.2
15°	674.1	664.9	651.4	624.2	581.1	514.3	452.0	370.4	359.1	351.2	344.4
17.5°	746.5	740.8	725.0	694.4	648.0	589.1	514.3	422.5	413.5	403.3	390.8
20°	815.6	807.7	782.8	740.8	691.1	645.7	587.9	490.5	478.0	465.6	452.0
22.5°	881.3	873.4	832.7	763.5	710.3	691.1	670.6	567.5	548.3	538.1	524.5
25°	973.1	956.1	892.7	782.8	711.4	726.1	761.3	667.3	649.1	634.4	612.8
27.5°	1096.6	1074.0	974.2	811.1	715.9	764.7	865.5	788.5	769.2	752.2	728.4
30°	1235.9	1221.2	1102.2	879.1	748.8	821.3	982.1	942.5	919.9	899.4	871.2
32.5°	1376.4	1356.0	1238.2	1008.2	837.2	931.2	1128.3	1121.5	1092.1	1072.8	1042.2
35°	1499.9	1489.7	1402.4	1220.1	1038.8	1123.8	1323.2	1331.1	1305.0	1284.7	1250.7
37.5°	1583.7	1583.7	1566.7	1447.7	1359.5	1422.9	1609.8	1610.9	1584.8	1538.4	1521.4
40°	1626.8	1639.3	1700.4	1723.1	1718.5	1800.1	1985.9	1965.5	1943.9	1920.2	1863.5
42.5°	1715.1	1726.4	1856.8	2013.0	2115.0	2222.6	2350.6	2343.8	2317.8	2274.7	2222.6
45°	1864.7	1879.4	2034.6	2282.7	2492.3	2645.2	2726.7	2695.0	2668.9	2628.2	2601.0
47.5°	2055.0	2083.3	2258.9	2565.9	2818.5	3071.2	3156.1	3072.3	3049.6	3017.9	2973.7
50°	2257.8	2284.9	2471.8	2823.1	3108.5	3409.9	3551.5	3409.9	3377.0	3366.8	3317.0
52.5°	2433.3	2456.0	2636.1	3021.3	3330.5	3684.0	3890.2	3703.3	3679.5	3645.5	3609.2
55°	2537.6	2555.7	2724.5	3116.5	3481.2	3931.0	4217.6	4053.3	4018.2	4004.6	3952.5
57.5°	2572.7	2590.8	2742.6	3128.9	3562.8	4156.4	4615.2	4620.9	4578.9	4530.3	4514.4
60°	2572.7	2593.0	2721.1	3098.3	3642.1	4396.6	5145.3	5617.8	5527.1	5518.1	5460.3
62.5°	2466.2	2485.5	2614.6	3004.3	3748.6	4720.6	5884.0	6717.8	6691.7	6632.8	6537.6
65°	2235.1	2246.4	2373.3	2764.1	3707.8	5018.5	6524.0	7449.6	7407.7	7292.1	7169.8
66°	2130.9	2139.9	2258.9	2627.1	3574.2	5059.3	6637.3	7541.3	7472.2	7374.8	7236.6
67.5°	1980.2	1996.1	2079.9	2372.2	3253.5	4917.7	6566.0	7476.8	7416.7	7298.9	7160.7
70°	1322.1	1310.7	1606.3	1820.5	2478.6	4006.9	5890.8	6713.3	6714.4	6658.8	6603.4
72.5°	627.6	634.4	720.5	1120.4	1622.2	2676.9	4688.9	5358.4	5435.4	5335.7	5266.6
75°	450.9	461.0	513.2	685.4	967.4	1606.3	3039.5	3747.5	3749.7	3573.0	3415.6
77.5°	131.4	137.1	192.6	422.5	725.0	1084.1	1745.7	2083.3	2034.6	1907.7	1788.8
80°	54.4	54.4	56.7	134.8	291.2	736.4	1221.2	1604.1	1598.4	1549.8	1479.5
82.5°	20.4	21.5	27.2	55.5	69.1	181.2	814.5	1392.3	1388.8	1319.7	1270.0
85°	2.2	2.2	6.8	23.8	26.0	34.0	163.2	614.0	610.6	614.0	538.1
87.5°	0.0	0.0	1.1	2.2	3.4	4.6	6.8	23.8	26.0	24.9	22.7
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9
2.5°	193.7	191.4	191.4	190.3	190.3	190.3	189.2	188.1	188.1	186.9	185.8
5°	211.8	209.6	208.5	206.1	205.0	203.9	201.7	200.6	198.2	197.1	196.0
7.5°	233.4	228.8	227.7	224.3	220.9	218.6	216.4	212.9	210.7	206.1	205.0
10°	260.6	254.9	250.3	245.9	242.4	236.7	233.4	228.8	224.3	220.9	217.5
12.5°	295.6	287.7	280.9	276.4	268.5	261.7	254.9	251.5	242.4	237.9	232.2
15°	334.2	325.1	317.2	308.1	302.5	291.2	282.0	271.9	267.4	259.4	250.3
17.5°	384.0	369.3	356.8	347.8	336.5	325.1	314.9	304.7	291.2	282.0	270.8
20°	437.3	424.8	407.8	392.0	378.3	364.7	350.0	336.5	324.0	309.3	295.6
22.5°	505.2	487.2	466.7	450.9	432.7	418.0	397.6	379.5	359.1	339.8	324.0
25°	591.4	567.5	548.3	525.7	504.1	481.5	456.6	433.9	407.8	389.7	362.5
27.5°	697.9	675.2	649.1	619.6	598.1	564.2	531.3	503.0	472.4	444.1	413.5
30°	833.8	800.9	773.8	745.4	702.3	669.5	631.0	592.5	550.6	522.2	475.8
32.5°	996.9	961.8	921.0	880.2	840.6	794.1	746.5	699.0	652.6	600.4	552.8
35°	1196.3	1154.3	1107.9	1063.7	1002.6	952.8	892.7	827.0	774.9	714.8	654.8
37.5°	1460.2	1391.2	1350.3	1303.9	1221.2	1153.2	1086.4	1020.7	928.9	865.5	780.6
40°	1791.0	1750.2	1683.5	1608.7	1533.9	1444.4	1353.8	1266.5	1160.0	1071.6	973.1
42.5°	2179.5	2119.5	2051.5	1943.9	1868.1	1762.7	1659.6	1544.1	1413.8	1300.5	1184.9
45°	2544.4	2473.0	2420.9	2313.2	2234.0	2109.3	1984.8	1862.4	1711.7	1565.6	1431.9
47.5°	2938.6	2879.6	2793.6	2706.3	2626.0	2485.5	2350.6	2202.2	2043.6	1870.3	1697.0
50°	3285.2	3238.8	3179.9	3074.5	2985.0	2867.3	2708.7	2546.6	2346.2	2174.0	1976.8
52.5°	3579.7	3543.6	3460.9	3386.1	3305.6	3194.6	3053.0	2897.8	2681.4	2492.3	2267.9
55°	3927.6	3901.5	3829.0	3782.5	3711.2	3604.7	3472.2	3328.3	3099.5	2893.3	2639.6
57.5°	4497.4	4477.0	4413.6	4394.3	4324.0	4231.2	4068.0	3914.0	3646.6	3390.6	3100.6
60°	5441.1	5400.3	5307.4	5259.8	5111.4	4986.8	4774.9	4563.1	4240.2	3914.0	3565.0
62.5°	6451.6	6337.2	6160.4	6008.6	5797.9	5581.5	5298.4	4974.4	4595.9	4208.5	3807.5
65°	6996.4	6801.6	6578.5	6337.2	6064.1	5745.8	5389.0	5000.4	4593.7	4184.8	3761.0
66°	7058.7	6839.0	6602.2	6333.7	6030.2	5691.4	5328.9	4921.1	4498.5	4099.7	3676.1
67.5°	6980.6	6750.6	6500.2	6202.4	5873.8	5522.6	5142.0	4718.3	4311.6	3907.2	3494.8
70°	6433.4	6204.6	5981.4	5667.7	5317.6	4964.1	4603.8	4130.4	3745.1	3373.6	3006.5
72.5°	5137.4	4982.3	4761.3	4492.9	4151.8	3737.2	3437.0	3013.3	2679.2	2318.9	2034.6
75°	3210.4	2991.8	2718.8	2376.7	2116.2	1779.7	1604.1	1282.4	1092.1	925.5	764.7
77.5°	1641.5	1477.2	1285.8	1093.2	908.6	725.0	560.7	396.5	267.4	185.8	138.2
80°	1356.0	1211.0	1052.4	876.8	713.7	554.0	398.8	271.9	173.3	113.3	88.4
82.5°	1120.4	998.1	856.5	693.3	551.7	435.0	302.5	197.1	122.3	79.3	62.3
85°	476.9	432.7	334.2	265.1	199.4	147.3	103.1	69.1	48.7	39.6	36.3
87.5°	20.4	22.7	21.5	17.0	12.5	12.5	11.3	9.0	9.0	9.0	9.0
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9	177.9
2.5°	185.8	184.7	183.5	183.5	182.4	181.2	174.4	168.8	162.0	157.5	152.9
5°	193.7	192.6	190.3	189.2	186.9	185.8	171.1	158.6	148.4	140.5	134.8
7.5°	201.7	200.6	197.1	193.7	192.6	190.3	166.5	150.7	137.1	128.0	122.3
10°	211.8	208.5	205.0	200.6	197.1	193.7	162.0	141.6	126.9	119.0	113.3
12.5°	226.6	220.9	215.3	209.6	205.0	199.4	159.7	133.7	119.0	109.9	104.2
15°	243.5	235.6	228.8	222.0	214.1	208.5	155.2	126.9	112.2	103.1	96.3
17.5°	259.4	250.3	240.2	230.0	222.0	214.1	150.7	120.1	105.4	96.3	89.5
20°	282.0	268.5	256.0	243.5	232.2	222.0	143.9	113.3	99.7	89.5	82.7
22.5°	307.0	291.2	275.3	258.3	243.5	230.0	138.2	107.6	94.0	83.8	75.9
25°	338.7	319.4	298.0	276.4	259.4	241.3	132.6	102.0	88.4	78.1	70.2
27.5°	382.9	355.7	331.9	304.7	278.7	258.3	128.0	97.4	82.7	72.5	64.6
30°	443.0	403.3	365.9	336.5	305.9	276.4	123.4	91.7	78.1	66.9	57.8
32.5°	509.8	463.4	420.3	376.1	337.6	303.6	119.0	87.3	72.5	61.2	53.2
35°	592.5	533.6	475.8	424.8	378.3	333.0	114.4	82.7	68.0	55.5	47.5
37.5°	711.4	637.8	561.9	496.2	436.2	376.1	111.0	78.1	62.3	49.9	42.0
40°	874.5	779.4	686.5	597.0	518.9	444.1	106.5	73.7	57.8	45.3	37.4
42.5°	1051.3	935.7	813.4	712.6	604.9	510.9	102.0	69.1	53.2	40.7	32.8
45°	1271.1	1127.2	978.8	841.7	710.3	589.1	97.4	64.6	47.5	36.3	28.3
47.5°	1511.2	1327.7	1160.0	987.8	831.5	686.5	91.7	61.2	43.1	31.7	24.9
50°	1758.2	1564.5	1352.7	1156.7	970.9	783.9	86.1	55.5	38.5	28.3	20.4
52.5°	2024.4	1795.5	1579.2	1335.6	1119.3	911.9	80.5	51.0	35.2	24.9	17.0
55°	2363.1	2107.1	1853.3	1580.3	1319.7	1060.4	74.8	45.3	30.6	21.5	13.6
57.5°	2789.0	2485.5	2174.0	1865.8	1549.8	1255.2	70.2	39.6	26.0	18.1	11.3
60°	3191.2	2836.7	2459.4	2104.9	1748.0	1404.8	63.4	35.2	22.7	14.7	11.3
62.5°	3399.6	2995.3	2588.6	2197.7	1817.1	1458.0	56.7	29.5	19.3	12.5	10.2
65°	3348.7	2936.3	2542.1	2147.8	1775.2	1424.0	49.9	26.0	17.0	11.3	10.2
66°	3275.1	2867.3	2470.7	2095.7	1740.0	1387.7	46.4	24.9	15.8	11.3	9.0
67.5°	3114.2	2719.9	2341.6	1992.7	1643.7	1318.6	42.0	22.7	14.7	10.2	9.0
70°	2659.9	2302.0	1999.5	1689.0	1404.8	1111.4	34.0	19.3	12.5	9.0	9.0
72.5°	1760.5	1516.8	1315.3	1131.7	946.0	734.1	28.3	15.8	10.2	9.0	7.9
75°	663.8	600.4	515.4	463.4	404.5	354.6	22.7	10.2	7.9	7.9	7.9
77.5°	117.9	108.7	96.3	88.4	81.6	74.8	18.1	6.8	6.8	7.9	7.9
80°	79.3	73.7	66.9	61.2	56.7	51.0	12.5	5.7	6.8	6.8	7.9
82.5°	56.7	53.2	49.9	45.3	42.0	37.4	7.9	5.7	6.8	6.8	6.8
85°	34.0	31.7	29.5	27.2	23.8	22.7	5.7	5.7	5.7	6.8	6.8
87.5°	9.0	7.9	9.0	9.0	6.8	7.9	4.6	4.6	4.6	5.7	5.7
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: ICM-E04-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	177.9	177.9	177.9	177.9	177.9
2.5°	150.7	150.7	148.4	151.8	151.8
5°	130.2	130.2	129.1	130.2	130.2
7.5°	119.0	117.9	117.9	117.9	119.0
10°	108.7	107.6	107.6	107.6	107.6
12.5°	99.7	98.5	97.4	98.5	98.5
15°	91.7	89.5	89.5	89.5	89.5
17.5°	84.9	82.7	81.6	81.6	81.6
20°	78.1	74.8	74.8	74.8	74.8
22.5°	71.3	68.0	68.0	68.0	68.0
25°	64.6	61.2	61.2	61.2	61.2
27.5°	58.9	55.5	55.5	55.5	55.5
30°	52.1	49.9	49.9	51.0	49.9
32.5°	47.5	44.2	44.2	45.3	45.3
35°	42.0	39.6	39.6	39.6	39.6
37.5°	36.3	34.0	34.0	34.0	34.0
40°	31.7	29.5	28.3	29.5	29.5
42.5°	27.2	24.9	23.8	23.8	23.8
45°	23.8	20.4	19.3	20.4	20.4
47.5°	19.3	17.0	17.0	18.1	18.1
50°	14.7	14.7	15.8	18.1	18.1
52.5°	13.6	13.6	15.8	18.1	18.1
55°	12.5	13.6	15.8	17.0	18.1
57.5°	11.3	13.6	15.8	17.0	17.0
60°	11.3	12.5	14.7	17.0	17.0
62.5°	10.2	11.3	13.6	15.8	15.8
65°	10.2	11.3	13.6	15.8	15.8
66°	10.2	11.3	13.6	15.8	15.8
67.5°	10.2	11.3	13.6	15.8	15.8
70°	10.2	11.3	13.6	14.7	14.7
72.5°	9.0	10.2	12.5	14.7	14.7
75°	9.0	10.2	12.5	14.7	14.7
77.5°	9.0	10.2	12.5	14.7	14.7
80°	9.0	10.2	12.5	13.6	14.7
82.5°	7.9	10.2	11.3	13.6	13.6
85°	7.9	9.0	11.3	12.5	13.6
87.5°	6.8	7.9	9.0	11.3	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)