

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: P180368

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180368
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: ICM-E02-LED-E1-SL2-HSS
Description: ICON SITE 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: 3411.3 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
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

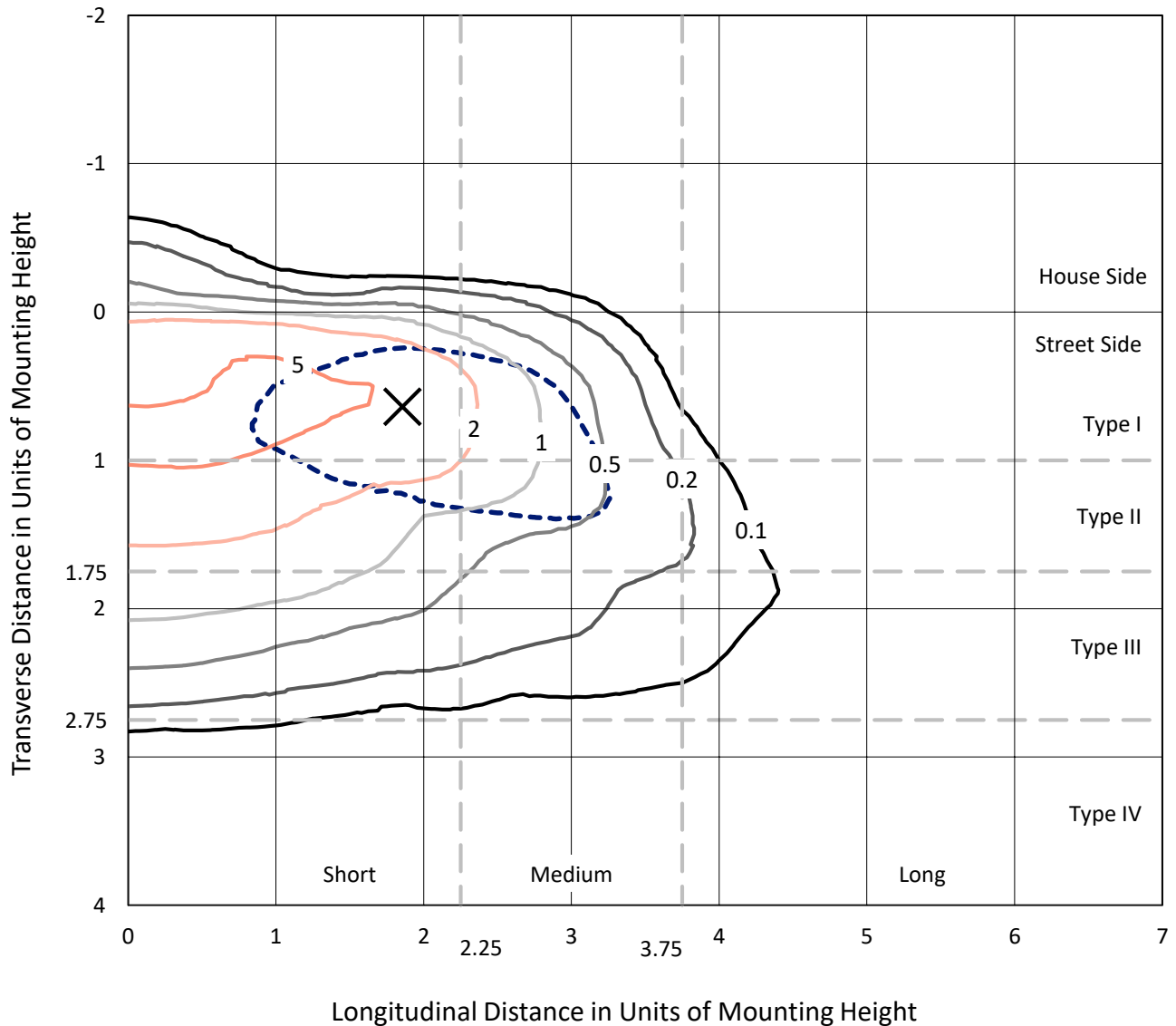


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

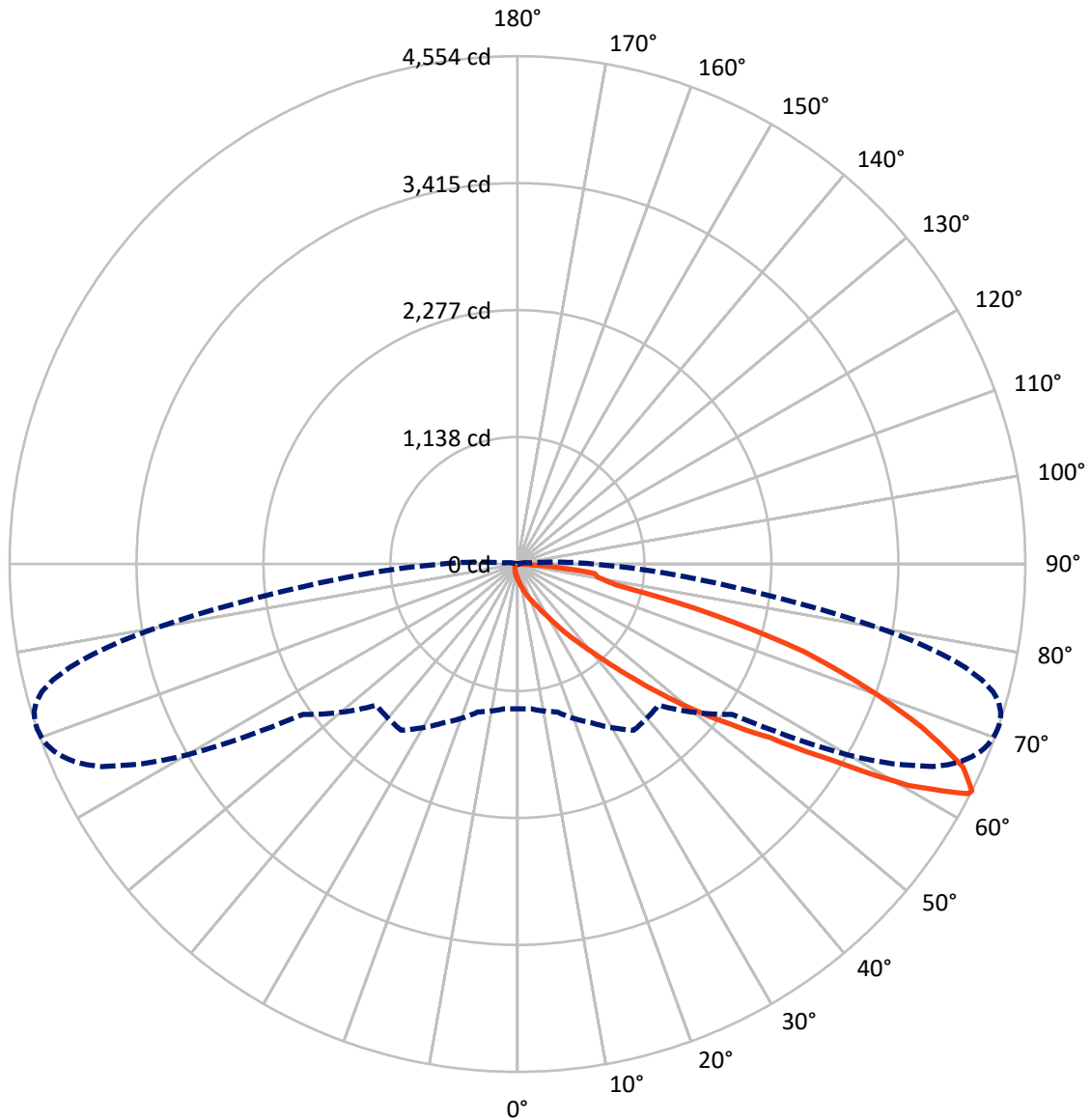


Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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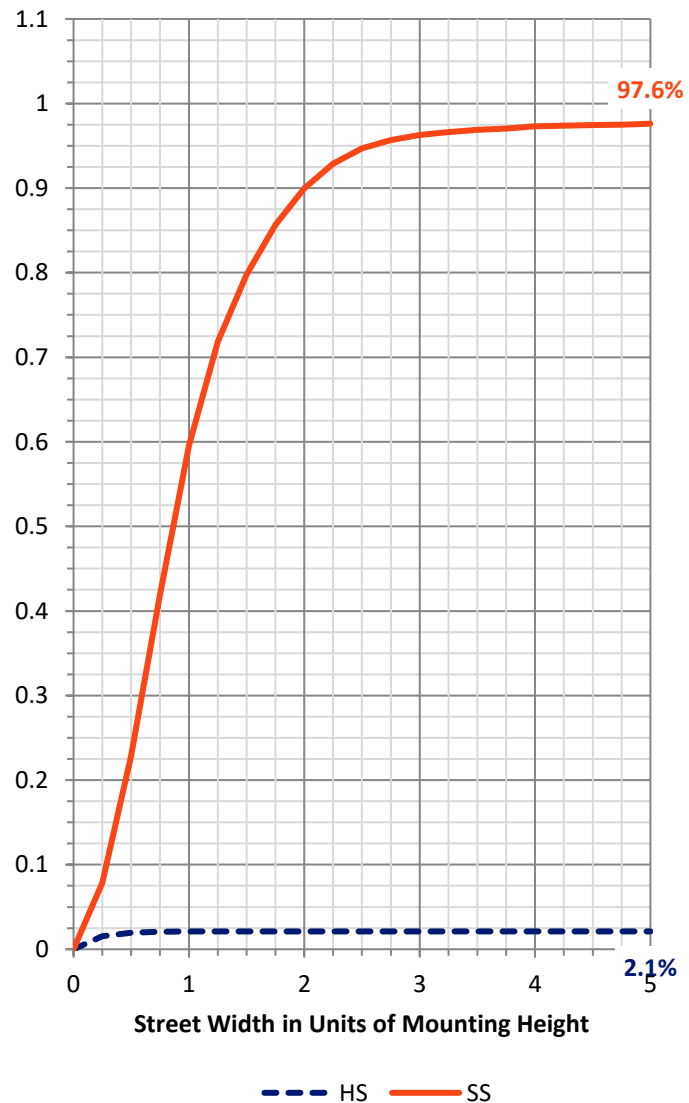
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	72.4	0.0	72.4
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3338.9	0.0	3338.9
	% Fixture	97.9	0.0	97.9
Total	Lumens	3411.3	0.0	3411.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.5	0.4
10°-20°	56.1	1.6
20°-30°	113.9	3.3
30°-40°	278.4	8.2
40°-50°	622.5	18.2
50°-60°	875.3	25.7
60°-70°	1029.3	30.2
70°-80°	371.7	10.9
80°-90°	49.7	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°	3411.3	100.0
0°-180°	3411.3	100.0



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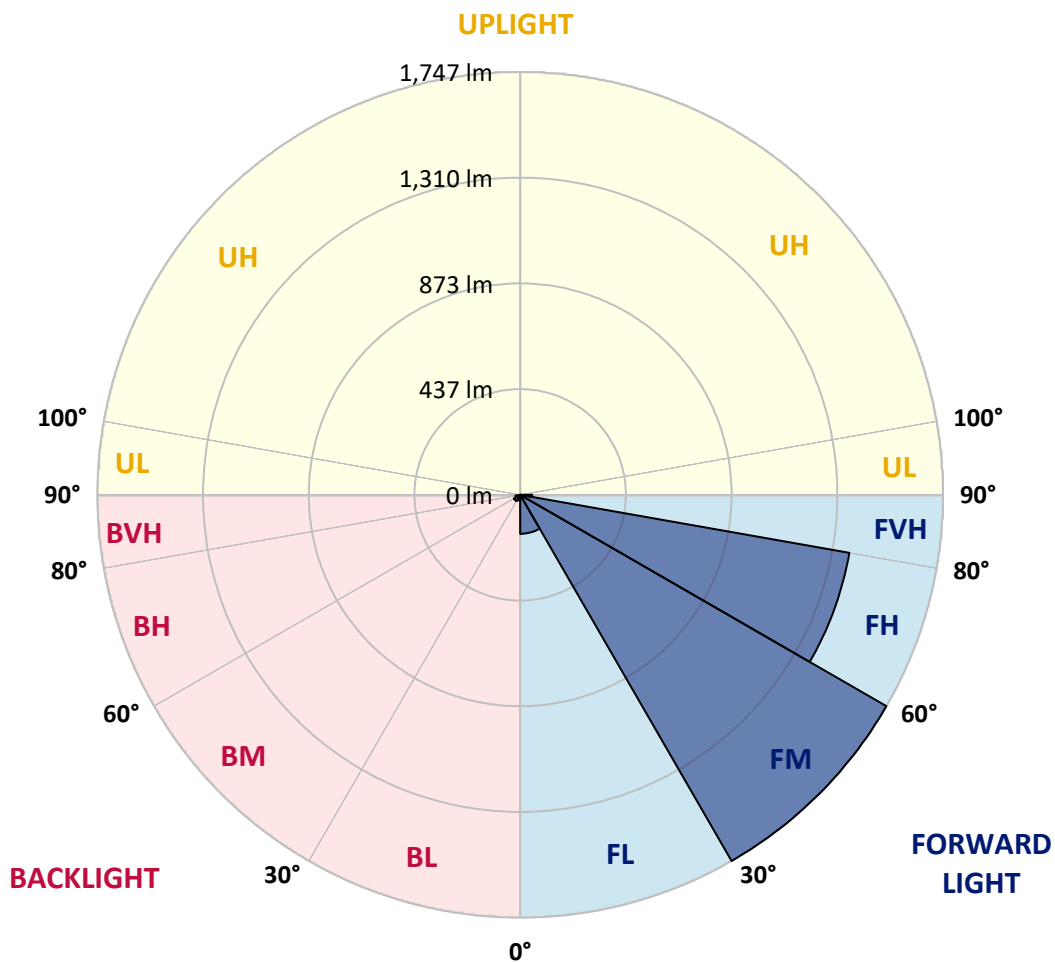
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	161.2	4.7			
FM	(30°-60°)	1747.0	51.2			
FH	(60°-80°)	1381.1	40.5			G1/1800
FVH	(80°-90°)	49.6	1.5			G1/100
BL	(0°-30°)	23.3	0.7	B0/110		
BM	(30°-60°)	29.2	0.9	B0/220		
BH	(60°-80°)	19.9	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°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	171.2	173.0	171.8	168.7	164.9	160.0	155.6	155.6	155.1	153.2	153.8
5°	224.5	225.1	222.6	215.2	208.4	197.9	186.0	184.8	183.5	181.7	181.1
7.5°	276.6	279.1	276.6	268.6	254.9	238.8	220.2	218.3	214.6	214.6	212.1
10°	330.0	330.0	327.4	318.1	305.8	282.8	259.3	256.1	251.8	250.5	246.8
12.5°	367.7	367.7	366.5	361.6	351.6	331.2	302.6	299.5	294.0	292.1	287.7
15°	382.6	382.6	383.3	387.6	388.2	378.9	349.1	346.7	341.1	336.1	334.2
17.5°	391.9	391.4	391.4	397.5	408.7	414.9	395.6	393.2	387.0	384.5	378.3
20°	412.4	411.2	407.4	407.4	418.0	439.7	439.7	439.1	432.3	430.4	427.3
22.5°	442.8	441.6	430.4	421.1	426.0	453.3	478.8	477.5	475.1	472.6	470.7
25°	492.4	488.1	468.8	441.6	437.2	466.3	508.6	511.6	513.5	513.5	514.7
27.5°	567.4	561.9	527.7	476.9	457.7	487.4	541.4	547.6	553.2	554.4	560.0
30°	671.6	661.7	612.7	538.3	494.2	518.4	589.8	596.6	604.7	607.2	615.8
32.5°	842.8	837.2	790.1	678.4	584.2	579.3	657.4	666.1	676.6	680.9	691.4
35°	1103.3	1104.5	1066.1	965.6	835.4	767.2	778.3	785.8	789.5	802.5	808.1
37.5°	1280.0	1283.1	1291.8	1252.1	1159.1	1089.6	1002.1	1010.2	991.0	992.8	993.5
40°	1376.8	1386.7	1437.5	1476.0	1468.6	1428.2	1358.1	1362.5	1326.5	1318.4	1279.4
42.5°	1441.2	1454.2	1535.5	1654.6	1715.4	1751.9	1735.8	1734.0	1706.1	1695.5	1662.6
45°	1481.6	1493.3	1595.6	1771.2	1911.4	2018.0	2062.1	2067.0	2043.5	2032.8	2005.6
47.5°	1479.7	1493.3	1603.1	1814.6	2021.1	2191.6	2315.6	2321.9	2336.1	2326.8	2328.7
50°	1397.9	1410.9	1521.2	1740.8	1988.8	2271.0	2498.0	2517.9	2540.8	2556.3	2563.7
52.5°	1298.6	1307.9	1405.9	1614.2	1851.2	2238.2	2605.9	2640.0	2674.2	2703.3	2723.7
55°	1262.1	1272.6	1349.5	1522.5	1740.8	2100.5	2656.1	2706.3	2754.7	2802.5	2841.6
57.5°	1281.2	1291.2	1346.3	1479.1	1675.1	1955.4	2670.4	2748.6	2827.9	2905.4	2982.3
60°	1351.9	1362.5	1409.6	1519.4	1657.7	1871.6	2614.6	2744.2	2876.3	3011.5	3138.6
62.5°	1324.0	1328.4	1397.9	1590.1	1781.7	1800.3	2411.8	2592.9	2794.4	3002.8	3208.1
63°	1297.4	1302.3	1373.0	1570.9	1819.5	1789.8	2349.1	2540.2	2752.9	2977.4	3200.7
65°	1176.5	1177.0	1231.0	1387.3	1777.4	1808.4	2070.1	2252.4	2496.8	2765.9	3048.1
67.5°	878.1	873.8	925.9	1044.9	1395.4	1809.0	1776.8	1879.1	2049.0	2287.7	2540.8
70°	311.4	304.5	388.8	553.8	869.5	1479.7	1526.8	1533.7	1580.8	1709.8	1868.6
72.5°	101.1	103.0	124.0	202.8	400.7	996.0	1382.3	1361.2	1348.8	1348.2	1369.3
75°	40.3	40.9	49.6	90.0	179.8	480.0	1210.5	1222.3	1226.7	1232.8	1239.7
77.5°	19.3	21.1	27.9	50.2	89.3	237.5	866.3	966.2	1023.3	1067.3	1094.0
80°	6.8	8.1	15.5	31.0	41.6	109.1	456.5	550.7	634.4	742.3	835.4
82.5°	0.0	0.0	3.1	21.7	23.0	44.0	187.3	219.5	251.2	325.6	418.0
85°	0.0	0.0	0.0	6.2	6.8	7.4	63.3	76.3	85.6	99.8	115.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.9	3.7	9.3	14.2
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°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	152.6	151.9	151.9	150.7	150.0	148.8	148.2	146.3	145.8	145.8	145.8
5°	180.5	178.0	176.7	173.7	171.8	171.2	168.1	166.8	164.9	165.6	162.5
7.5°	211.4	207.2	205.3	200.9	199.7	195.4	194.1	191.0	189.1	185.4	184.2
10°	245.6	240.0	236.9	230.0	228.2	225.1	221.4	217.7	214.6	210.9	209.0
12.5°	284.7	279.7	277.2	267.9	263.5	259.3	254.2	249.3	244.4	241.2	236.9
15°	330.5	322.5	320.0	311.4	303.9	298.3	291.4	285.3	281.6	275.4	271.0
17.5°	375.8	367.7	365.9	352.8	344.8	341.1	333.7	325.6	318.8	312.6	305.8
20°	421.1	415.5	410.5	398.1	389.5	383.3	373.3	365.3	359.7	351.0	342.3
22.5°	466.3	460.7	457.0	444.0	436.0	427.3	418.6	410.0	401.9	391.4	381.4
25°	512.8	509.1	507.3	495.5	488.1	480.0	471.4	461.4	451.4	439.7	429.1
27.5°	561.2	562.5	558.8	556.3	548.2	542.6	529.0	522.1	514.7	500.5	487.4
30°	622.6	626.3	625.1	627.0	622.1	618.3	607.7	599.1	590.4	576.7	561.9
32.5°	700.2	705.1	707.6	714.4	711.9	710.7	707.6	695.2	689.0	665.4	659.3
35°	819.8	817.4	827.9	833.5	831.0	829.8	826.1	819.3	811.8	795.1	779.5
37.5°	975.5	978.0	981.7	970.5	963.1	962.5	951.4	944.5	934.0	915.4	896.7
40°	1260.8	1245.3	1227.9	1180.8	1160.3	1148.6	1115.6	1106.3	1088.4	1063.0	1043.7
42.5°	1631.6	1616.1	1564.0	1485.3	1443.1	1384.8	1358.1	1325.3	1299.8	1258.3	1236.0
45°	2000.0	1955.4	1949.1	1857.4	1805.3	1728.4	1680.7	1625.4	1567.7	1513.2	1473.5
47.5°	2310.7	2300.8	2270.4	2214.6	2166.2	2101.7	2040.3	1955.4	1895.8	1818.3	1747.0
50°	2559.4	2558.8	2547.6	2515.4	2475.1	2423.0	2369.0	2297.0	2229.5	2134.6	2058.3
52.5°	2745.4	2755.4	2759.1	2749.1	2733.7	2687.7	2660.5	2600.3	2543.3	2462.6	2380.2
55°	2881.9	2918.4	2937.0	2958.2	2953.8	2937.7	2936.5	2897.4	2871.4	2807.5	2749.1
57.5°	3050.5	3110.7	3168.4	3270.7	3274.4	3310.4	3329.0	3347.6	3352.6	3327.2	3307.9
60°	3265.1	3387.9	3497.0	3711.0	3766.8	3854.9	3911.9	3974.0	4026.7	4031.0	4029.8
62.5°	3416.5	3605.6	3781.7	4099.3	4207.7	4309.5	4385.8	4445.9	4482.5	4519.7	4537.1
63°	3420.8	3627.9	3815.2	4142.6	4256.8	4353.5	4426.1	4481.9	4520.3	4542.6	4553.8
65°	3316.0	3567.2	3790.4	4116.6	4223.9	4321.2	4359.1	4395.7	4414.3	4423.0	4390.1
67.5°	2810.5	3056.1	3316.6	3681.2	3773.0	3889.6	3920.7	3939.3	3947.9	3946.1	3918.2
70°	2101.7	2307.6	2597.2	3014.0	3135.6	3249.6	3320.3	3350.7	3360.7	3357.5	3316.0
72.5°	1467.3	1588.2	1827.0	2290.9	2456.5	2602.8	2690.2	2735.6	2744.9	2726.2	2687.7
75°	1232.3	1238.4	1292.4	1546.1	1701.1	1857.4	1956.0	1984.5	1965.9	1909.5	1811.5
77.5°	1100.2	1113.8	1113.8	1151.6	1182.1	1225.4	1234.7	1165.3	1084.7	980.5	896.1
80°	922.8	970.5	1004.0	1031.9	1035.1	1026.3	1003.4	964.4	902.3	823.0	734.9
82.5°	560.7	654.9	693.3	837.2	907.9	955.6	951.9	899.8	852.7	770.2	695.2
85°	141.4	152.6	165.6	215.2	241.2	294.6	328.1	343.5	349.1	320.7	290.2
87.5°	13.7	9.3	15.5	11.8	16.7	12.4	16.7	15.5	19.3	20.5	22.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	144.5	143.9	143.3	142.6	142.0	141.4	140.2	140.2	138.9	138.3	137.7
5°	160.7	159.3	158.8	157.5	155.6	154.4	152.6	150.0	148.2	147.6	146.3
7.5°	181.1	178.0	176.7	174.9	172.4	168.7	166.2	164.4	161.2	159.3	155.6
10°	204.0	200.9	197.2	193.5	189.8	185.4	182.3	179.8	174.9	172.4	168.1
12.5°	233.2	227.6	223.3	218.3	213.3	208.4	204.7	197.2	192.8	187.3	183.5
15°	263.0	258.0	253.0	246.8	239.4	231.4	227.6	220.7	215.2	206.5	201.6
17.5°	298.9	289.6	282.1	274.7	267.9	260.5	253.0	242.5	234.4	227.0	217.0
20°	334.2	323.1	315.1	305.1	295.2	283.4	274.7	267.3	256.1	246.2	235.6
22.5°	372.1	360.9	347.9	338.0	324.4	315.1	303.3	290.9	279.7	266.7	253.7
25°	418.0	406.2	391.4	378.3	362.8	349.8	335.5	321.2	307.6	292.7	276.0
27.5°	474.4	462.0	445.9	430.4	410.0	393.8	380.2	360.9	343.5	324.9	305.8
30°	545.8	532.1	512.3	490.0	469.5	451.4	432.3	406.8	387.6	365.3	340.5
32.5°	638.8	622.6	596.0	574.9	549.5	525.9	499.3	473.8	446.5	417.4	388.8
35°	756.0	741.1	710.1	679.1	651.2	623.3	589.8	560.7	522.1	486.8	450.2
37.5°	877.5	850.9	822.3	788.8	754.1	720.7	679.7	639.4	595.4	556.9	511.0
40°	1016.5	984.2	960.7	924.7	875.6	827.9	790.1	739.8	684.7	633.2	579.3
42.5°	1206.8	1170.9	1128.7	1074.1	1038.8	983.0	934.0	874.4	801.9	744.2	679.1
45°	1427.0	1378.0	1337.0	1284.4	1241.6	1172.1	1115.1	1035.6	963.1	887.4	808.1
47.5°	1678.1	1617.4	1557.9	1505.8	1437.5	1369.3	1296.8	1212.4	1119.4	1036.3	942.1
50°	1966.5	1880.3	1797.9	1730.9	1637.2	1558.4	1479.7	1384.8	1281.9	1186.3	1079.1
52.5°	2287.2	2187.3	2078.2	1975.2	1866.7	1765.6	1670.7	1561.6	1446.8	1330.2	1210.5
55°	2674.2	2599.1	2470.7	2339.8	2194.7	2059.5	1937.4	1802.2	1662.6	1509.5	1383.5
57.5°	3280.0	3243.5	3136.1	3005.3	2816.1	2651.8	2444.7	2279.1	2076.9	1866.1	1703.5
60°	4101.1	4055.8	3995.7	3889.6	3739.6	3516.3	3288.1	3030.7	2723.1	2431.0	2153.8
62.5°	4538.9	4522.8	4473.8	4400.7	4260.5	4084.4	3854.3	3571.5	3224.2	2869.5	2516.0
63°	4551.9	4531.5	4489.3	4414.9	4291.5	4121.0	3895.2	3620.5	3280.7	2919.1	2558.2
65°	4375.8	4367.7	4325.0	4243.7	4159.4	4029.1	3854.3	3618.0	3332.8	2991.0	2631.9
67.5°	3881.0	3856.8	3791.0	3766.3	3707.3	3616.8	3483.5	3321.0	3116.9	2848.4	2538.3
70°	3282.5	3246.5	3164.0	3120.0	3048.1	2991.0	2909.8	2793.8	2667.9	2480.7	2249.3
72.5°	2648.1	2573.7	2498.0	2383.3	2282.8	2181.1	2091.2	2009.3	1871.0	1795.4	1619.8
75°	1719.7	1584.5	1454.9	1281.2	1124.9	986.7	852.1	783.9	641.9	584.2	501.7
77.5°	816.1	740.5	638.8	560.0	459.5	375.2	306.3	230.0	180.5	141.4	107.9
80°	658.6	594.7	533.3	462.0	386.3	308.2	236.3	176.7	125.3	86.8	61.4
82.5°	587.3	517.9	442.1	393.2	341.7	279.7	229.5	187.3	138.3	101.1	68.8
85°	228.2	192.3	148.2	120.9	94.2	77.5	70.0	48.4	37.9	29.8	23.0
87.5°	19.8	16.1	13.0	8.7	9.3	4.9	5.6	3.7	3.1	3.1	2.5
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°	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	137.0	136.5	135.8	134.6	134.6	133.3	132.7	132.1	129.0	122.1	116.6
5°	143.9	142.6	141.4	139.5	138.3	136.5	135.2	133.3	126.5	113.5	102.3
7.5°	153.8	151.3	149.5	145.8	143.9	141.4	139.5	136.5	125.3	105.4	90.0
10°	165.6	161.2	158.1	153.8	150.0	147.0	143.9	139.5	124.0	96.7	78.8
12.5°	179.8	174.9	168.7	163.7	158.8	154.4	150.0	144.5	122.1	89.3	70.0
15°	194.1	186.7	182.3	175.5	168.7	162.5	156.3	151.3	122.8	81.2	62.6
17.5°	210.2	202.8	193.5	186.0	178.6	170.5	163.1	153.2	119.7	75.1	57.0
20°	225.8	215.2	206.5	197.2	186.7	176.7	167.4	158.8	117.2	68.8	52.1
22.5°	242.5	230.0	218.9	207.2	194.1	183.0	171.8	160.7	112.8	63.3	47.7
25°	263.0	248.7	232.6	218.3	204.7	191.0	176.7	163.1	108.6	58.3	44.7
27.5°	287.7	269.1	253.0	235.1	215.8	198.4	183.0	168.1	104.2	54.6	41.6
30°	319.4	297.7	274.7	251.8	231.4	211.4	189.8	171.2	99.8	50.9	38.4
32.5°	361.6	334.2	306.3	279.7	252.4	227.0	204.0	179.8	97.4	47.7	35.3
35°	417.4	382.0	347.9	314.4	281.6	250.5	220.7	193.5	97.4	44.0	31.6
37.5°	470.0	429.1	385.8	344.2	305.1	269.1	233.8	200.9	92.4	40.9	28.6
40°	527.2	478.1	427.3	378.3	331.2	286.5	246.2	208.4	88.1	37.2	25.4
42.5°	614.6	552.6	486.2	429.1	372.7	317.5	267.3	222.6	82.5	33.5	22.3
45°	729.3	650.5	572.4	503.0	431.0	363.4	303.9	248.7	81.2	30.4	19.3
47.5°	852.1	759.1	667.3	578.6	494.2	415.5	344.2	277.9	81.2	27.3	16.7
50°	974.2	857.7	759.7	656.7	561.9	468.8	383.9	308.2	81.9	24.8	13.7
52.5°	1084.7	960.0	850.2	731.2	626.3	518.4	426.0	338.0	80.7	21.7	11.2
55°	1237.9	1091.4	964.4	832.8	710.1	588.6	483.7	382.6	81.2	19.3	9.3
57.5°	1520.0	1348.2	1195.1	1022.6	881.2	724.4	597.2	474.4	88.7	16.1	6.8
60°	1924.9	1701.7	1486.5	1276.3	1096.5	909.8	744.8	600.3	104.2	13.0	4.9
62.5°	2197.2	1905.1	1648.4	1416.5	1207.4	1012.1	832.3	667.9	114.7	10.5	3.1
63°	2225.1	1923.1	1665.1	1425.8	1212.4	1017.0	836.0	672.8	115.3	10.0	3.1
65°	2277.9	1954.2	1674.4	1427.6	1207.4	1010.2	833.5	672.3	116.6	8.1	2.5
67.5°	2217.7	1906.3	1620.5	1374.2	1164.0	970.0	802.5	647.4	116.0	5.6	1.9
70°	1983.3	1725.3	1474.1	1244.7	1053.7	878.1	730.5	590.4	106.7	3.7	1.2
72.5°	1456.1	1280.7	1085.9	920.3	793.8	659.3	562.5	443.4	82.5	2.5	0.7
75°	431.6	393.2	330.5	291.4	257.4	212.7	189.1	147.6	42.1	1.2	0.0
77.5°	86.2	78.1	70.0	63.9	60.2	51.4	49.0	40.3	17.4	0.7	0.0
80°	45.3	37.2	31.6	27.9	24.2	19.8	16.7	13.7	3.1	0.0	0.0
82.5°	43.4	29.1	21.1	17.4	14.9	11.8	9.3	6.8	1.9	0.0	0.0
85°	16.1	12.4	9.3	7.4	6.2	5.6	4.4	3.7	0.0	0.0	0.0
87.5°	2.5	1.9	1.9	1.2	1.2	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: ICM-E02-LED-E1-SL2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	130.9	130.9	130.9	130.9	130.9	130.9	130.9
2.5°	111.0	106.0	103.5	100.5	100.5	99.8	101.1
5°	92.4	85.6	80.7	76.9	77.5	75.6	76.3
7.5°	78.1	71.3	67.0	64.5	63.9	63.3	63.3
10°	67.6	61.4	57.7	55.8	55.2	55.2	55.2
12.5°	60.2	54.0	50.9	49.6	49.6	49.0	49.0
15°	54.0	49.0	45.9	44.7	44.7	44.0	44.7
17.5°	49.0	44.0	41.6	40.3	40.3	39.7	39.7
20°	44.7	40.3	37.9	36.0	36.0	35.3	36.0
22.5°	40.9	36.6	33.5	32.3	31.6	31.0	31.6
25°	37.2	32.8	29.8	27.9	27.3	27.3	26.7
27.5°	34.1	29.8	26.0	24.2	23.5	23.5	23.0
30°	31.0	26.0	22.3	20.5	19.8	19.8	19.8
32.5°	27.9	22.3	19.3	17.4	16.7	16.7	16.7
35°	24.8	19.3	16.1	14.2	13.7	13.7	13.7
37.5°	21.1	16.1	12.4	11.2	10.5	10.0	10.0
40°	18.0	12.4	9.3	8.1	6.8	6.8	6.8
42.5°	14.9	10.0	6.8	4.9	4.4	3.7	4.4
45°	12.4	7.4	4.4	2.5	1.9	1.9	1.9
47.5°	10.0	4.9	1.9	0.7	0.7	0.7	0.7
50°	7.4	3.1	0.7	0.0	0.0	0.7	0.7
52.5°	5.6	1.9	0.0	0.0	0.0	0.0	0.0
55°	3.1	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.2	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)