

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: P180366

Luminaire Tested: **ICM-E02-LED-E1-SL2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180366
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-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2879.1 lumens
Efficiency: N/A
Efficacy: 55.3 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

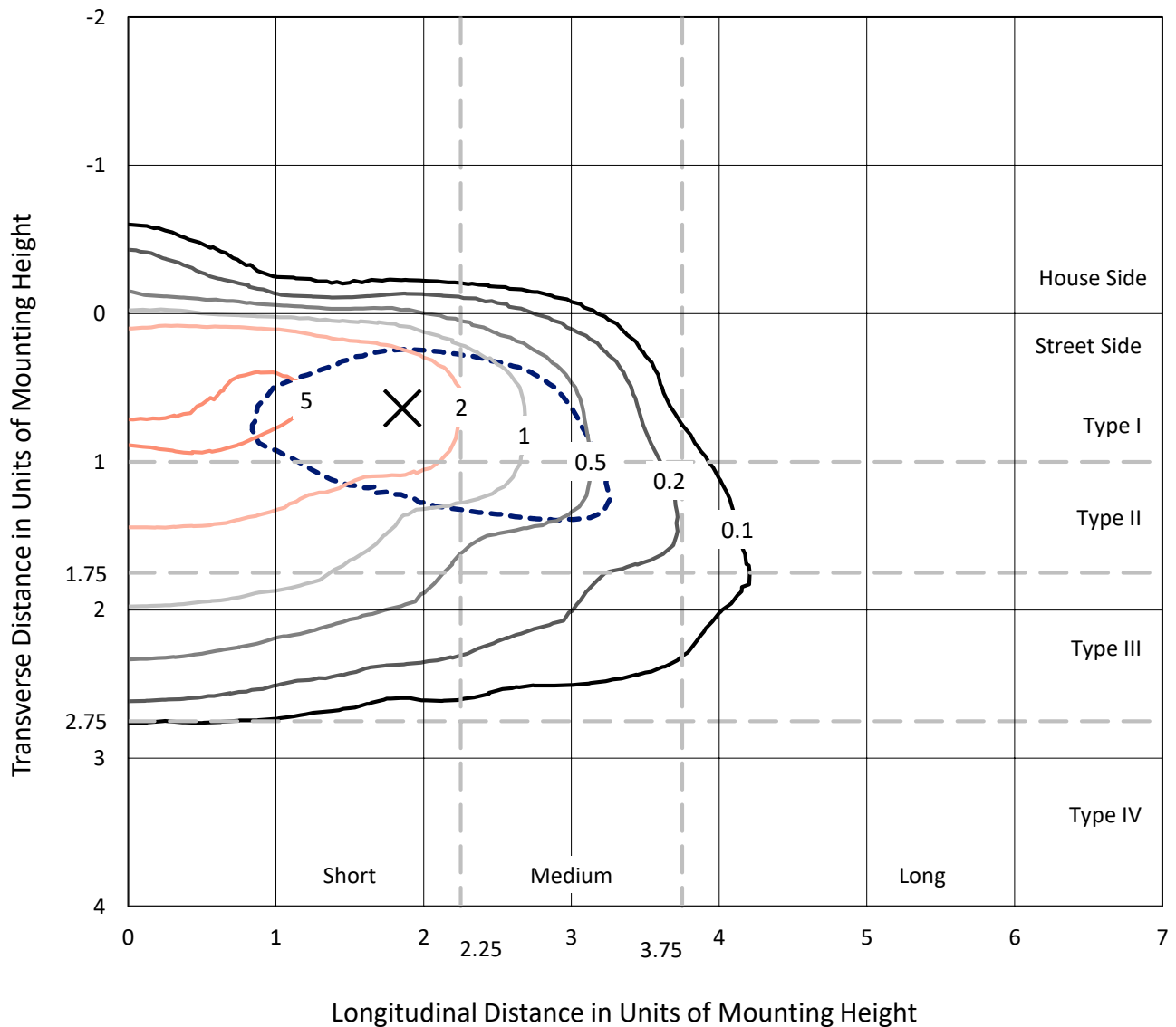


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Iso-Footcandle Lines of Horizontal Illumination

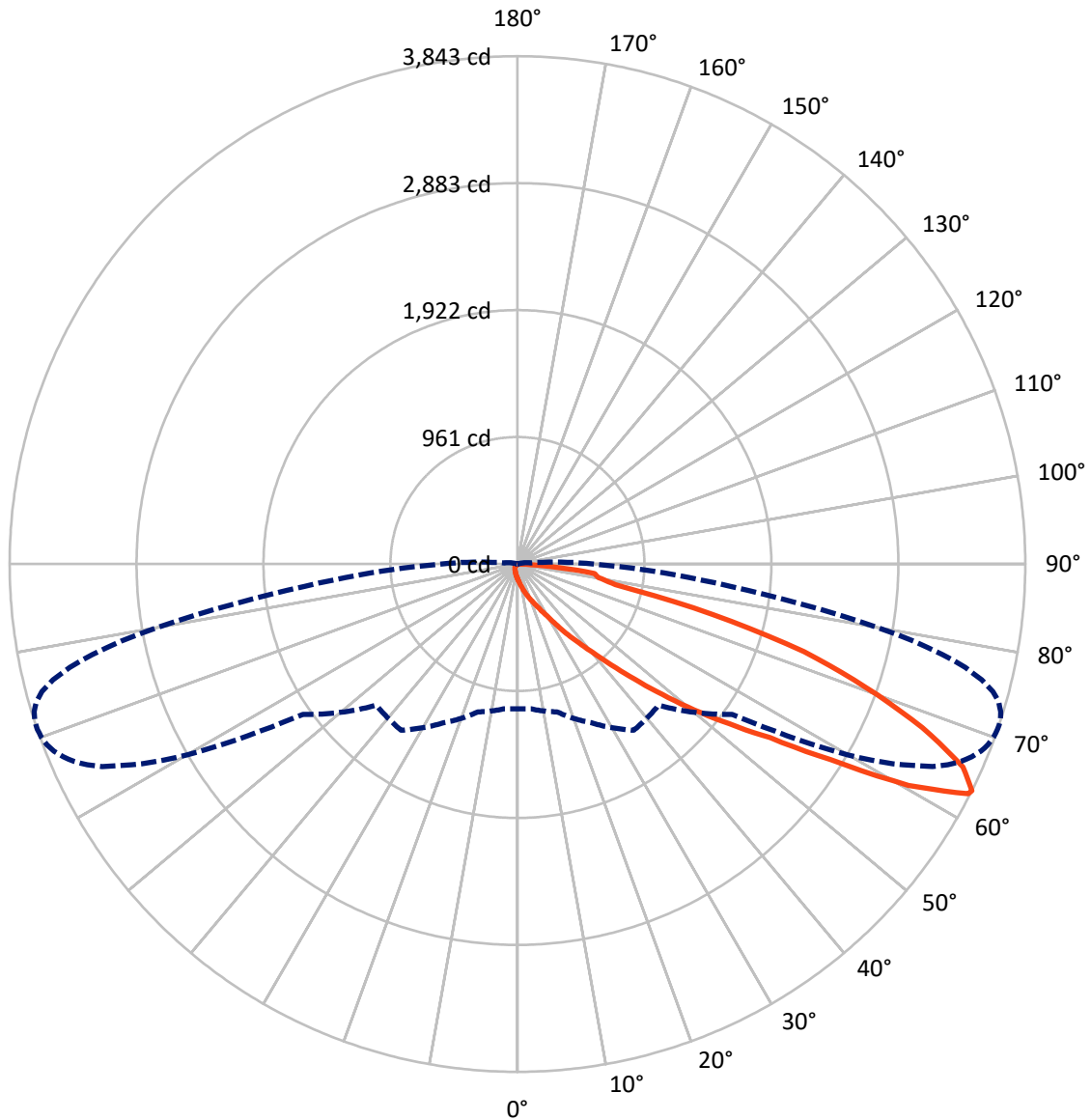
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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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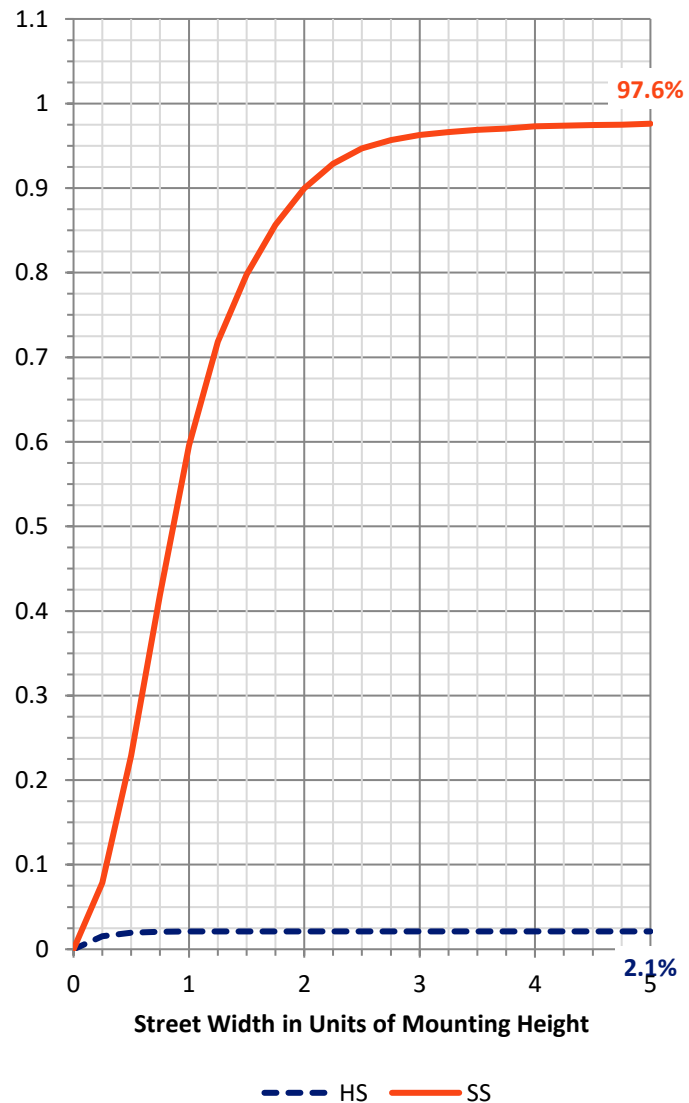
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	61.1	0.0	61.1
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	2818.0	0.0	2818.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	2879.1	0.0	2879.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	0.4
10°-20°	47.3	1.6
20°-30°	96.2	3.3
30°-40°	234.9	8.2
40°-50°	525.4	18.2
50°-60°	738.8	25.7
60°-70°	868.7	30.2
70°-80°	313.7	10.9
80°-90°	41.9	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°	2879.1	100.0
0°-180°	2879.1	100.0



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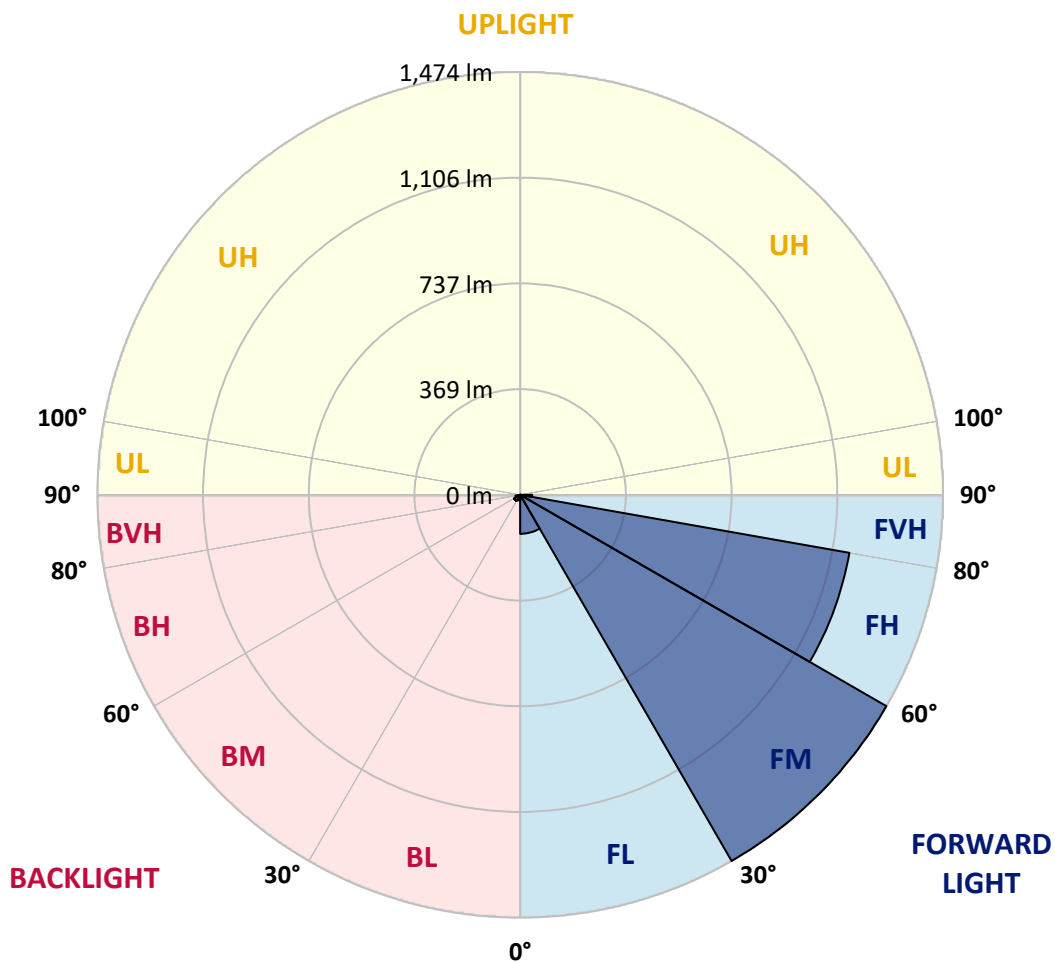
CATALOG NUMBER: ICM-E02-LED-E1-SL2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	136.0	4.7			
FM	(30°-60°)	1474.4	51.2			
FH	(60°-80°)	1165.6	40.5			G1/1800
FVH	(80°-90°)	41.9	1.5			G1/100
BL	(0°-30°)	19.7	0.7	B0/110		
BM	(30°-60°)	24.6	0.9	B0/220		
BH	(60°-80°)	16.8	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°	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4
2.5°	144.5	146.0	145.0	142.3	139.3	135.1	131.3	131.3	130.9	129.3	129.8
5°	189.5	190.0	187.9	181.6	175.9	167.0	157.0	156.0	154.9	153.4	152.8
7.5°	233.4	235.5	233.4	226.6	215.2	201.5	185.8	184.3	181.1	181.1	179.0
10°	278.4	278.4	276.4	268.5	258.0	238.7	218.8	216.2	212.5	211.4	208.3
12.5°	310.4	310.4	309.3	305.1	296.7	279.5	255.4	252.8	248.1	246.5	242.9
15°	323.0	323.0	323.4	327.2	327.6	319.8	294.7	292.6	287.9	283.7	282.1
17.5°	330.8	330.2	330.2	335.5	344.9	350.1	334.0	331.8	326.6	324.5	319.3
20°	348.1	347.0	343.9	343.9	352.7	371.1	371.1	370.6	364.8	363.3	360.7
22.5°	373.7	372.7	363.3	355.4	359.5	382.6	404.1	403.0	400.9	398.8	397.3
25°	415.6	411.9	395.7	372.7	369.0	393.6	429.2	431.8	433.4	433.4	434.4
27.5°	478.9	474.2	445.4	402.5	386.2	411.4	456.9	462.1	466.9	467.9	472.7
30°	566.9	558.5	517.1	454.3	417.1	437.6	497.8	503.5	510.3	512.4	519.7
32.5°	711.4	706.6	666.8	572.7	493.0	488.8	554.8	562.1	571.1	574.7	583.6
35°	931.2	932.2	899.7	815.0	705.0	647.4	656.8	663.2	666.3	677.3	682.0
37.5°	1080.3	1082.9	1090.2	1056.8	978.2	919.6	845.9	852.7	836.4	838.0	838.5
40°	1162.0	1170.3	1213.2	1245.7	1239.4	1205.4	1146.2	1150.0	1119.5	1112.8	1079.8
42.5°	1216.4	1227.4	1295.9	1396.5	1447.7	1478.6	1465.0	1463.5	1439.9	1431.0	1403.3
45°	1250.4	1260.4	1346.7	1494.9	1613.1	1703.2	1740.3	1744.5	1724.7	1715.7	1692.7
47.5°	1248.8	1260.4	1353.0	1531.5	1705.8	1849.7	1954.4	1959.6	1971.6	1963.8	1965.4
50°	1179.7	1190.8	1283.9	1469.2	1678.6	1916.8	2108.3	2125.0	2144.4	2157.5	2163.7
52.5°	1096.0	1103.9	1186.6	1362.4	1562.3	1888.9	2199.4	2228.1	2256.9	2281.5	2298.8
55°	1065.1	1074.1	1138.9	1284.9	1469.2	1772.8	2241.8	2284.2	2324.9	2365.3	2398.2
57.5°	1081.4	1089.8	1136.3	1248.3	1413.7	1650.3	2253.8	2319.7	2386.7	2452.2	2517.0
60°	1141.0	1150.0	1189.7	1282.3	1399.1	1579.6	2206.7	2316.1	2427.5	2541.7	2648.9
62.5°	1117.5	1121.1	1179.7	1342.1	1503.7	1519.5	2035.5	2188.4	2358.4	2534.3	2707.6
63°	1095.0	1099.2	1158.8	1325.8	1535.6	1510.5	1982.7	2143.9	2323.5	2512.9	2701.3
65°	992.9	993.4	1039.0	1170.9	1500.1	1526.2	1747.2	1901.0	2107.3	2334.4	2572.6
67.5°	741.1	737.5	781.5	882.0	1177.7	1526.8	1499.5	1586.0	1729.3	1930.9	2144.4
70°	262.8	257.0	328.2	467.4	733.9	1248.8	1288.7	1294.4	1334.1	1443.1	1577.0
72.5°	85.3	86.9	104.7	171.2	338.1	840.6	1166.7	1148.8	1138.4	1137.9	1155.7
75°	34.0	34.5	41.9	75.9	151.8	405.1	1021.7	1031.6	1035.3	1040.6	1046.3
77.5°	16.2	17.8	23.5	42.4	75.3	200.5	731.2	815.4	863.6	900.7	923.3
80°	5.8	6.8	13.1	26.1	35.1	92.1	385.2	464.7	535.4	626.5	705.0
82.5°	0.0	0.0	2.6	18.3	19.3	37.1	158.0	185.3	212.0	274.8	352.7
85°	0.0	0.0	0.0	5.2	5.8	6.3	53.4	64.4	72.2	84.3	97.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.6	3.2	7.8	12.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4
2.5°	128.7	128.3	128.3	127.2	126.7	125.6	125.1	123.5	123.0	123.0	123.0
5°	152.3	150.2	149.2	146.5	145.0	144.5	141.9	140.8	139.3	139.7	137.1
7.5°	178.5	174.8	173.2	169.6	168.6	164.8	163.8	161.2	159.6	156.5	155.4
10°	207.3	202.5	199.9	194.1	192.7	190.0	186.9	183.7	181.1	178.0	176.4
12.5°	240.3	236.1	234.0	226.1	222.4	218.8	214.6	210.4	206.2	203.6	199.9
15°	279.0	272.2	270.0	262.8	256.5	251.7	246.0	240.7	237.6	232.4	228.7
17.5°	317.2	310.4	308.8	297.9	291.0	287.9	281.6	274.8	269.0	263.8	258.0
20°	355.4	350.7	346.5	336.0	328.7	323.4	315.1	308.3	303.5	296.3	288.9
22.5°	393.6	388.9	385.8	374.8	368.0	360.7	353.3	346.0	339.2	330.2	321.9
25°	432.8	429.7	428.2	418.2	411.9	405.1	397.8	389.4	381.0	371.1	362.2
27.5°	473.7	474.7	471.6	469.5	462.7	458.0	446.4	440.7	434.4	422.4	411.4
30°	525.5	528.7	527.6	529.1	524.9	521.9	512.9	505.6	498.3	486.8	474.2
32.5°	590.9	595.1	597.2	603.0	600.8	599.8	597.2	586.7	581.5	561.6	556.4
35°	691.9	689.9	698.8	703.4	701.4	700.3	697.2	691.4	685.1	671.0	658.0
37.5°	823.4	825.4	828.6	819.2	812.8	812.3	802.9	797.1	788.3	772.6	756.8
40°	1064.1	1051.0	1036.4	996.6	979.3	969.3	941.6	933.8	918.6	897.1	880.9
42.5°	1377.1	1364.0	1320.0	1253.6	1218.0	1168.8	1146.2	1118.5	1097.0	1062.0	1043.2
45°	1688.0	1650.3	1645.0	1567.6	1523.6	1458.7	1418.4	1371.8	1323.2	1277.1	1243.6
47.5°	1950.2	1941.9	1916.2	1869.1	1828.3	1773.9	1722.1	1650.3	1600.1	1534.6	1474.4
50°	2160.1	2159.5	2150.2	2123.0	2088.9	2044.9	1999.5	1938.7	1881.7	1801.6	1737.2
52.5°	2317.1	2325.5	2328.7	2320.3	2307.2	2268.5	2245.4	2194.6	2146.5	2078.4	2008.8
55°	2432.3	2463.2	2478.9	2496.7	2493.0	2479.4	2478.3	2445.4	2423.4	2369.5	2320.3
57.5°	2574.6	2625.4	2674.1	2760.5	2763.6	2794.0	2809.7	2825.3	2829.5	2808.1	2791.8
60°	2755.7	2859.4	2951.5	3132.1	3179.2	3253.5	3301.7	3354.0	3398.5	3402.2	3401.1
62.5°	2883.5	3043.1	3191.7	3459.7	3551.4	3637.1	3701.5	3752.3	3783.2	3814.6	3829.2
63°	2887.1	3062.0	3220.0	3496.4	3592.7	3674.3	3735.6	3782.6	3815.1	3834.0	3843.4
65°	2798.6	3010.6	3199.1	3474.3	3565.0	3647.1	3679.0	3709.9	3725.6	3733.0	3705.2
67.5°	2372.1	2579.4	2799.2	3107.0	3184.4	3282.8	3309.0	3324.7	3332.0	3330.4	3306.9
70°	1773.9	1947.6	2192.0	2543.7	2646.3	2742.6	2802.3	2828.0	2836.4	2833.7	2798.6
72.5°	1238.4	1340.5	1542.0	1933.5	2073.2	2196.8	2270.5	2308.8	2316.6	2300.9	2268.5
75°	1040.0	1045.2	1090.8	1304.8	1435.7	1567.6	1650.8	1674.9	1659.2	1611.5	1528.8
77.5°	928.6	940.0	940.0	972.0	997.6	1034.2	1042.1	983.4	915.4	827.5	756.3
80°	778.8	819.2	847.4	871.0	873.6	866.2	846.9	813.9	761.6	694.6	620.3
82.5°	473.1	552.7	585.2	706.6	766.2	806.6	803.4	759.4	719.7	650.1	586.7
85°	119.3	128.7	139.7	181.6	203.6	248.7	276.8	290.0	294.7	270.6	244.9
87.5°	11.5	7.8	13.1	10.0	14.1	10.5	14.1	13.1	16.2	17.3	18.9
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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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4
2.5°	122.0	121.4	120.9	120.4	119.8	119.3	118.3	118.3	117.2	116.7	116.2
5°	135.5	134.5	134.0	132.9	131.3	130.3	128.7	126.7	125.1	124.6	123.5
7.5°	152.8	150.2	149.2	147.6	145.5	142.3	140.3	138.7	136.1	134.5	131.3
10°	172.2	169.6	166.4	163.3	160.2	156.5	153.9	151.8	147.6	145.5	141.9
12.5°	196.8	192.1	188.5	184.3	180.1	175.9	172.7	166.4	162.8	158.0	154.9
15°	222.0	217.8	213.6	208.3	202.0	195.3	192.1	186.3	181.6	174.3	170.1
17.5°	252.3	244.5	238.1	231.9	226.1	219.8	213.6	204.7	197.9	191.5	183.2
20°	282.1	272.7	265.9	257.5	249.1	239.2	231.9	225.6	216.2	207.8	198.9
22.5°	314.0	304.7	293.7	285.3	273.8	265.9	255.9	245.5	236.1	225.0	214.0
25°	352.7	342.8	330.2	319.3	306.2	295.2	283.2	271.2	259.6	247.1	232.9
27.5°	400.4	390.0	376.4	363.3	346.0	332.4	320.8	304.7	290.0	274.2	258.0
30°	460.6	449.1	432.4	413.5	396.2	381.0	364.8	343.4	327.2	308.3	287.4
32.5°	539.1	525.5	503.0	485.2	463.7	443.8	421.3	399.9	376.8	352.3	328.2
35°	638.1	625.5	599.3	573.1	549.6	526.0	497.8	473.1	440.7	410.9	380.0
37.5°	740.7	718.1	694.1	665.8	636.5	608.2	573.7	539.6	502.5	470.0	431.3
40°	857.9	830.6	810.8	780.4	739.1	698.8	666.8	624.5	577.9	534.4	488.8
42.5°	1018.5	988.2	952.6	906.5	876.7	829.6	788.3	738.1	676.7	628.1	573.1
45°	1204.4	1163.0	1128.5	1084.0	1047.8	989.2	941.1	874.1	812.8	749.0	682.0
47.5°	1416.4	1365.0	1314.8	1270.8	1213.2	1155.7	1094.4	1023.3	944.7	874.6	795.1
50°	1659.7	1587.0	1517.4	1460.8	1381.8	1315.4	1248.8	1168.8	1081.9	1001.3	910.7
52.5°	1930.3	1846.1	1754.0	1667.1	1575.5	1490.1	1410.1	1318.0	1221.1	1122.7	1021.7
55°	2256.9	2193.6	2085.2	1974.8	1852.4	1738.2	1635.2	1521.0	1403.3	1274.0	1167.7
57.5°	2768.3	2737.4	2646.9	2536.5	2376.8	2238.1	2063.3	1923.5	1752.9	1574.9	1437.8
60°	3461.3	3423.1	3372.3	3282.8	3156.1	2967.7	2775.1	2557.9	2298.2	2051.7	1817.8
62.5°	3830.8	3817.2	3775.8	3714.1	3595.8	3447.2	3253.0	3014.3	2721.2	2421.8	2123.5
63°	3841.8	3824.6	3789.0	3726.2	3622.0	3478.1	3287.6	3055.6	2768.9	2463.6	2159.1
65°	3693.1	3686.3	3650.3	3581.7	3510.5	3400.6	3253.0	3053.6	2812.8	2524.4	2221.3
67.5°	3275.5	3255.1	3199.6	3178.6	3128.9	3052.5	2940.0	2802.8	2630.6	2404.0	2142.3
70°	2770.4	2740.0	2670.4	2633.2	2572.6	2524.4	2455.8	2358.0	2251.7	2093.6	1898.4
72.5°	2235.0	2172.1	2108.3	2011.5	1926.7	1840.8	1764.9	1695.8	1579.1	1515.3	1367.2
75°	1451.5	1337.3	1227.9	1081.4	949.5	832.7	719.2	661.6	541.8	493.0	423.4
77.5°	688.8	624.9	539.1	472.7	387.8	316.7	258.6	194.1	152.3	119.3	91.1
80°	555.8	502.0	450.1	390.0	326.0	260.1	199.4	149.2	105.8	73.3	51.8
82.5°	495.6	437.0	373.2	331.8	288.4	236.1	193.7	158.0	116.7	85.3	58.1
85°	192.7	162.2	125.1	102.0	79.5	65.4	59.2	40.8	31.9	25.1	19.3
87.5°	16.7	13.6	11.0	7.3	7.8	4.2	4.7	3.2	2.6	2.6	2.1
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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CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4
2.5°	115.6	115.2	114.6	113.6	113.6	112.6	112.0	111.4	108.8	103.1	98.4
5°	121.4	120.4	119.3	117.8	116.7	115.2	114.1	112.6	106.8	95.8	86.3
7.5°	129.8	127.7	126.1	123.0	121.4	119.3	117.8	115.2	105.8	89.0	75.9
10°	139.7	136.1	133.5	129.8	126.7	124.1	121.4	117.8	104.7	81.7	66.5
12.5°	151.8	147.6	142.3	138.1	134.0	130.3	126.7	122.0	103.1	75.3	59.2
15°	163.8	157.6	153.9	148.1	142.3	137.1	131.9	127.7	103.6	68.6	52.8
17.5°	177.4	171.2	163.3	157.0	150.7	143.9	137.7	129.3	101.0	63.3	48.2
20°	190.5	181.6	174.3	166.4	157.6	149.2	141.3	134.0	98.9	58.1	44.0
22.5°	204.7	194.1	184.7	174.8	163.8	154.4	145.0	135.5	95.3	53.4	40.3
25°	222.0	209.9	196.3	184.3	172.7	161.2	149.2	137.7	91.6	49.2	37.7
27.5°	242.9	227.2	213.6	198.3	182.1	167.5	154.4	141.9	87.9	46.0	35.1
30°	269.6	251.3	231.9	212.5	195.3	178.5	160.2	144.5	84.3	42.9	32.5
32.5°	305.1	282.1	258.6	236.1	213.0	191.5	172.2	151.8	82.1	40.3	29.9
35°	352.3	322.4	293.7	265.4	237.6	211.4	186.3	163.3	82.1	37.1	26.7
37.5°	396.7	362.2	325.6	290.5	257.5	227.2	197.3	169.6	78.0	34.5	24.1
40°	444.9	403.5	360.7	319.3	279.5	241.8	207.8	175.9	74.3	31.4	21.5
42.5°	518.7	466.3	410.3	362.2	314.6	268.0	225.6	187.9	69.6	28.3	18.9
45°	615.5	549.0	483.1	424.5	363.7	306.7	256.5	209.9	68.6	25.7	16.2
47.5°	719.2	640.7	563.2	488.4	417.1	350.7	290.5	234.5	68.6	23.1	14.1
50°	822.2	723.9	641.2	554.3	474.2	395.7	324.0	260.1	69.1	20.9	11.5
52.5°	915.4	810.2	717.6	617.1	528.7	437.6	359.5	285.3	68.0	18.3	9.4
55°	1044.8	921.2	813.9	703.0	599.3	496.7	408.3	323.0	68.6	16.2	7.8
57.5°	1282.9	1137.9	1008.6	863.1	743.7	611.4	504.0	400.4	74.9	13.6	5.8
60°	1624.7	1436.2	1254.6	1077.2	925.4	767.8	628.7	506.7	87.9	11.0	4.2
62.5°	1854.4	1607.9	1391.3	1195.4	1019.1	854.2	702.4	563.7	96.8	8.9	2.6
63°	1878.0	1623.1	1405.3	1203.4	1023.3	858.4	705.6	567.9	97.4	8.4	2.6
65°	1922.5	1649.2	1413.2	1204.8	1019.1	852.7	703.4	567.4	98.4	6.8	2.1
67.5°	1871.7	1608.9	1367.6	1159.9	982.4	818.6	677.3	546.4	97.9	4.7	1.6
70°	1673.9	1456.1	1244.1	1050.5	889.3	741.1	616.6	498.3	90.0	3.2	1.0
72.5°	1228.9	1080.8	916.5	776.7	670.0	556.4	474.7	374.2	69.6	2.1	0.6
75°	364.3	331.8	279.0	246.0	217.2	179.5	159.6	124.6	35.6	1.0	0.0
77.5°	72.7	66.0	59.2	54.0	50.8	43.4	41.4	34.0	14.7	0.6	0.0
80°	38.2	31.4	26.7	23.5	20.4	16.7	14.1	11.5	2.6	0.0	0.0
82.5°	36.7	24.6	17.8	14.7	12.6	10.0	7.8	5.8	1.6	0.0	0.0
85°	13.6	10.5	7.8	6.3	5.2	4.7	3.6	3.2	0.0	0.0	0.0
87.5°	2.1	1.6	1.6	1.0	1.0	0.6	0.6	0.6	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-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	110.4	110.4	110.4	110.4	110.4	110.4	110.4
2.5°	93.7	89.5	87.4	84.8	84.8	84.3	85.3
5°	78.0	72.2	68.0	64.9	65.4	63.8	64.4
7.5°	66.0	60.2	56.6	54.4	54.0	53.4	53.4
10°	57.0	51.8	48.7	47.1	46.6	46.6	46.6
12.5°	50.8	45.6	42.9	41.9	41.9	41.4	41.4
15°	45.6	41.4	38.7	37.7	37.7	37.1	37.7
17.5°	41.4	37.1	35.1	34.0	34.0	33.5	33.5
20°	37.7	34.0	31.9	30.3	30.3	29.9	30.3
22.5°	34.5	30.9	28.3	27.3	26.7	26.1	26.7
25°	31.4	27.7	25.1	23.5	23.1	23.1	22.5
27.5°	28.7	25.1	22.0	20.4	19.9	19.9	19.3
30°	26.1	22.0	18.9	17.3	16.7	16.7	16.7
32.5°	23.5	18.9	16.2	14.7	14.1	14.1	14.1
35°	20.9	16.2	13.6	12.0	11.5	11.5	11.5
37.5°	17.8	13.6	10.5	9.4	8.9	8.4	8.4
40°	15.2	10.5	7.8	6.8	5.8	5.8	5.8
42.5°	12.6	8.4	5.8	4.2	3.6	3.2	3.6
45°	10.5	6.3	3.6	2.1	1.6	1.6	1.6
47.5°	8.4	4.2	1.6	0.6	0.6	0.6	0.6
50°	6.3	2.6	0.6	0.0	0.0	0.6	0.6
52.5°	4.7	1.6	0.0	0.0	0.0	0.0	0.0
55°	2.6	0.6	0.0	0.0	0.0	0.0	0.0
57.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.6	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)