

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: P181164

Luminaire Tested: **ICM-E02-LED-E1-T2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181164
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
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-T2-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2721 lumens
Efficiency: N/A
Efficacy: 52.2 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

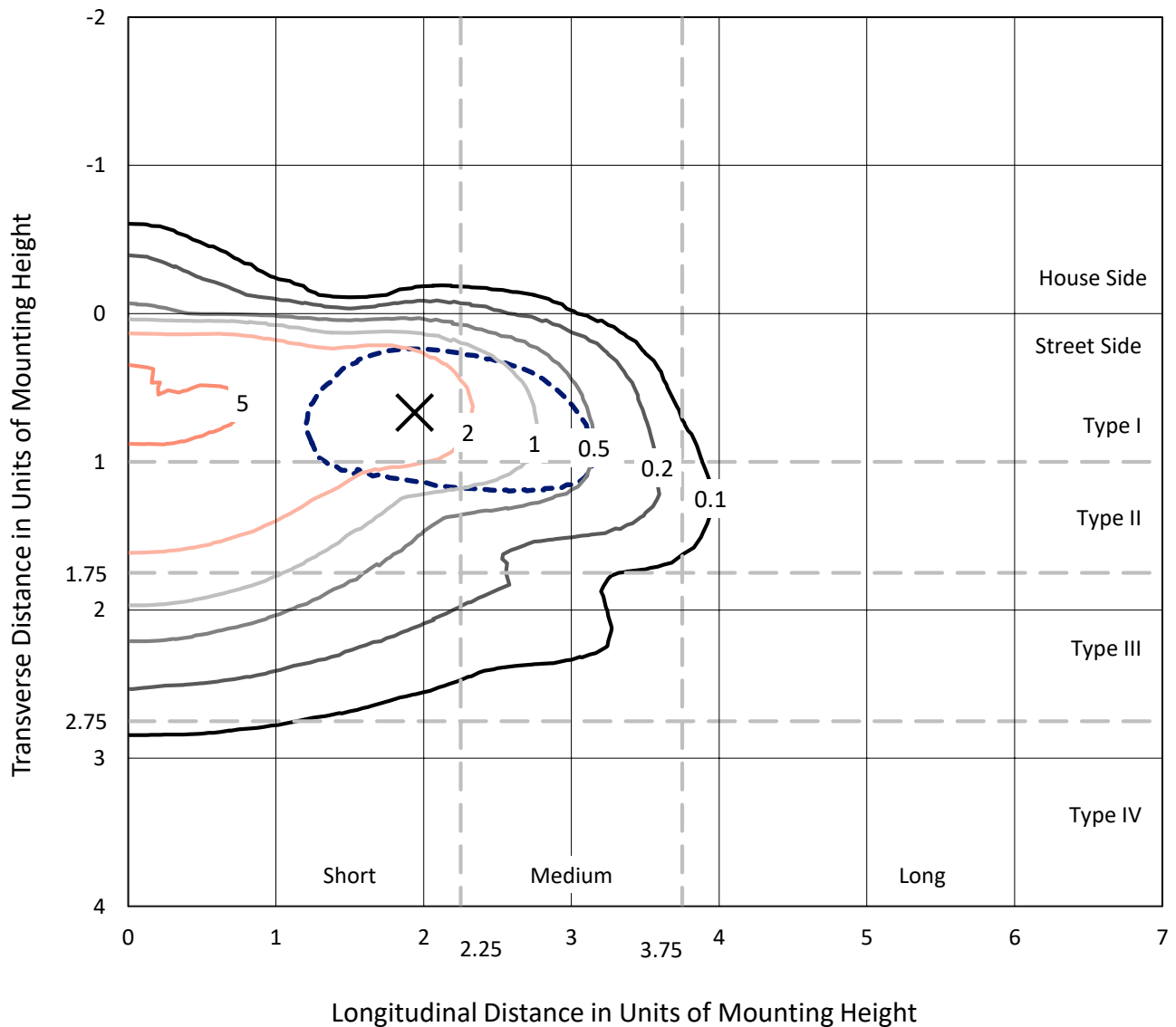
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181164
 CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

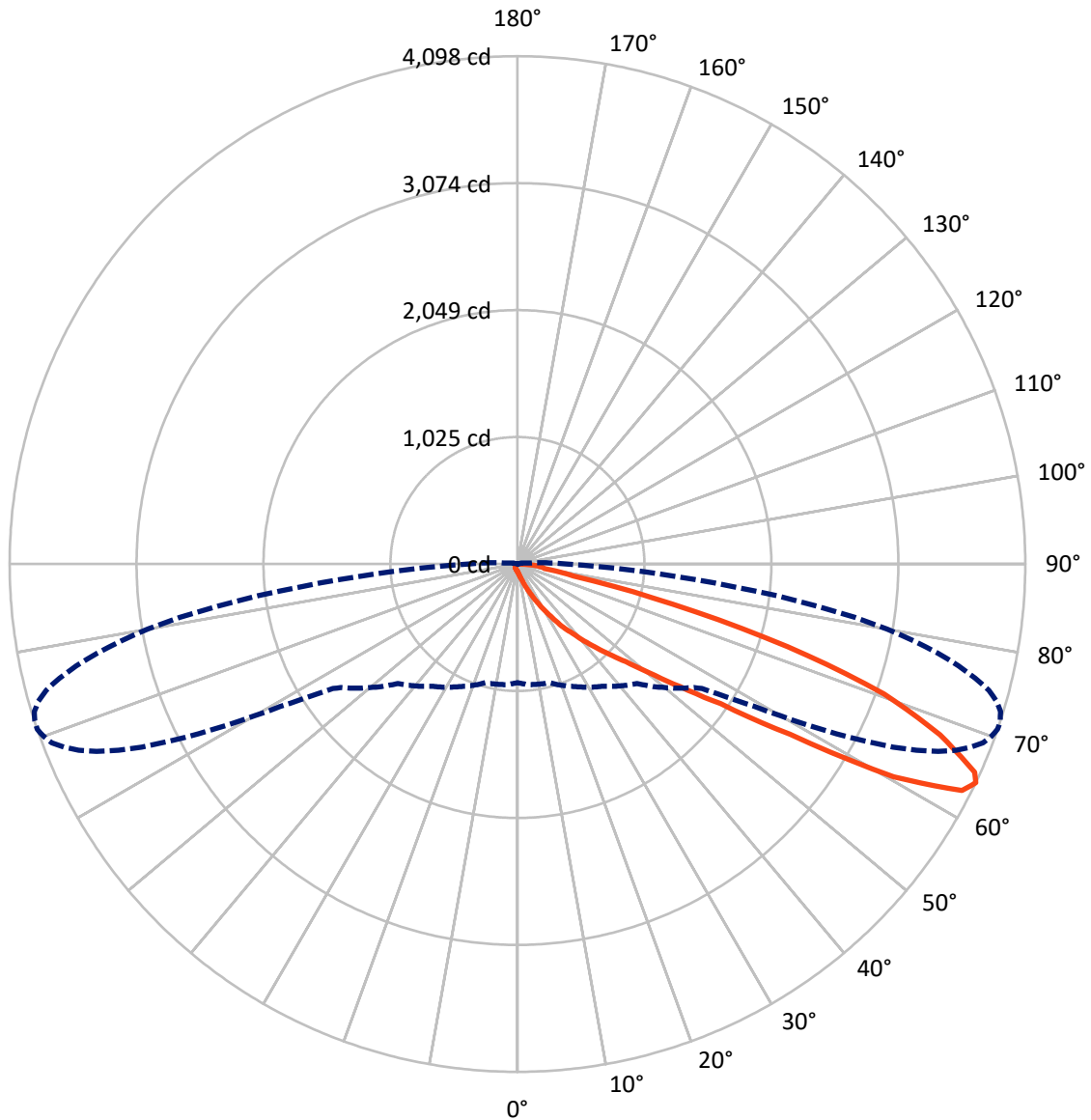
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P181164
CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P181164

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-7030

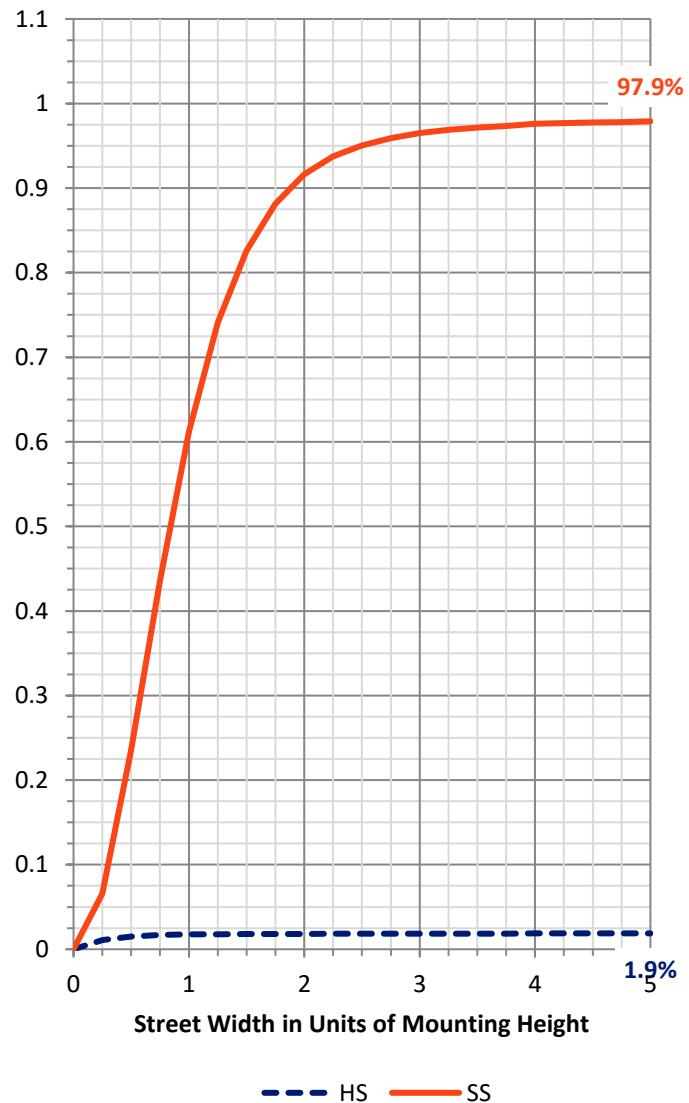
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	52.0	0.0	52.0
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	2668.9	0.0	2668.9
	% Fixture	98.1	0.0	98.1
Total	Lumens	2721.0	0.0	2721.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.3
10°-20°	49.2	1.8
20°-30°	125.7	4.6
30°-40°	254.2	9.3
40°-50°	464.6	17.1
50°-60°	723.8	26.6
60°-70°	804.6	29.6
70°-80°	262.4	9.6
80°-90°	28.2	1.0
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°	2721.0	100.0
0°-180°	2721.0	100.0



REPORT NUMBER: P181164

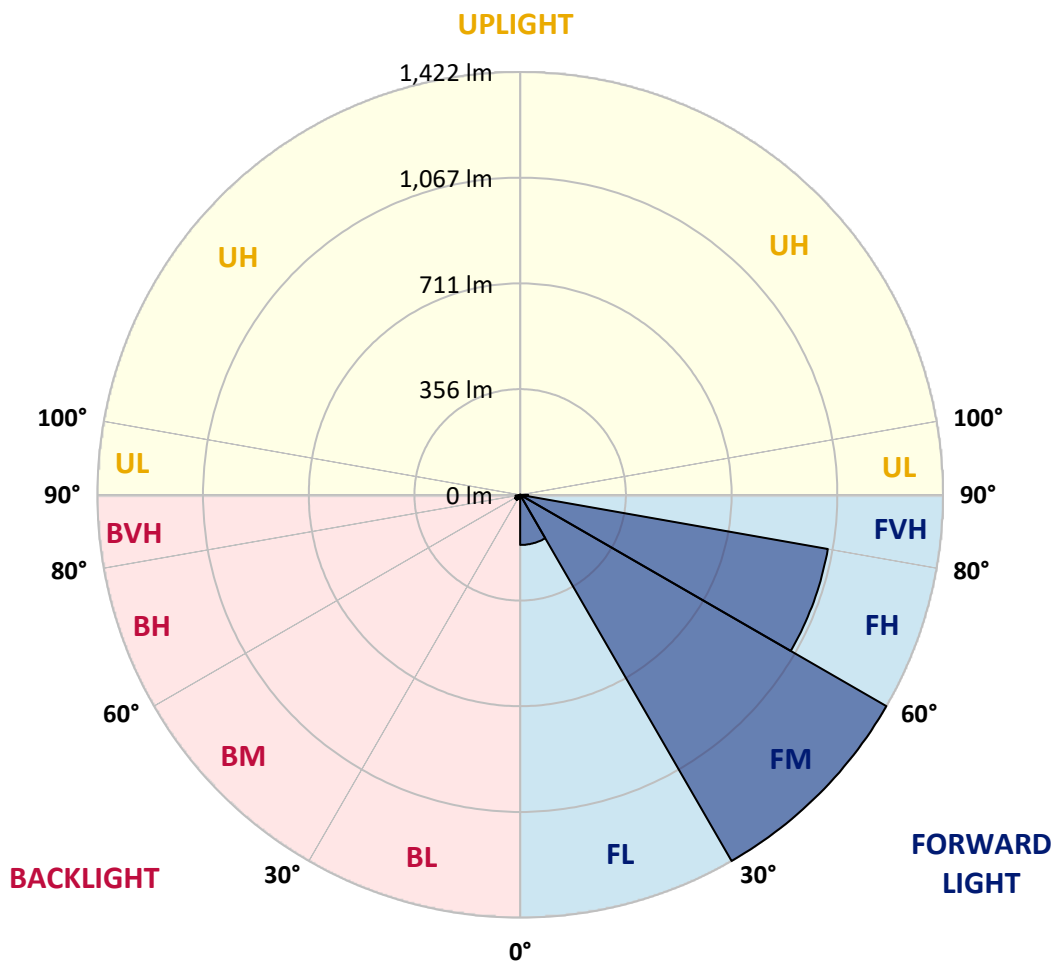
CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.7	6.2			
FM (30°-60°)	1422.5	52.3			
FH (60°-80°)	1050.9	38.6			G1/1800
FVH (80°-90°)	26.9	1.0			G1/100
BL (0°-30°)	14.5	0.5	B0/110		
BM (30°-60°)	20.1	0.7	B0/220		
BH (60°-80°)	16.1	0.6	B0/110		G0/110
BVH (80°-90°)	1.3	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





REPORT NUMBER: P181164

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2.5°	81.6	80.5	80.5	78.7	76.5	74.2	71.9	71.3	70.8	70.2	70.2
5°	128.0	123.4	121.8	115.5	107.6	98.0	89.5	87.3	87.3	85.5	84.4
7.5°	201.1	198.8	186.9	180.7	162.0	138.8	114.4	112.2	111.6	109.3	106.0
10°	294.5	290.0	281.5	263.4	229.4	189.2	154.6	148.9	145.0	140.5	135.9
12.5°	388.0	382.3	369.9	340.4	306.4	254.9	199.4	194.3	188.1	181.9	174.4
15°	481.5	477.5	458.2	428.7	384.6	322.9	252.7	243.5	238.4	226.0	220.4
17.5°	562.4	557.4	542.0	508.7	462.8	394.8	311.5	300.2	291.7	284.4	270.8
20°	632.7	627.6	612.8	585.1	533.6	466.7	375.0	369.3	354.0	342.7	334.8
22.5°	675.7	674.1	664.4	637.8	591.9	532.5	447.4	438.4	428.2	412.9	403.8
25°	702.3	700.7	695.0	676.3	645.1	601.6	527.4	516.0	507.0	493.4	482.0
27.5°	730.1	729.0	724.5	708.0	691.6	664.4	608.4	602.1	582.2	574.3	563.6
30°	776.0	770.9	774.9	767.0	746.0	729.0	689.9	680.8	672.4	658.8	649.1
32.5°	849.0	840.6	849.0	840.6	831.5	811.1	773.8	770.9	762.4	753.9	740.3
35°	938.5	935.2	942.0	949.3	942.0	914.8	869.5	860.9	857.6	844.0	838.9
37.5°	1028.7	1034.9	1047.4	1063.7	1059.2	1039.4	975.4	967.4	961.2	949.3	940.3
40°	1125.5	1126.1	1152.7	1176.5	1188.4	1176.5	1092.1	1085.9	1077.3	1060.4	1058.1
42.5°	1230.8	1226.3	1246.1	1272.8	1297.1	1313.5	1246.1	1234.2	1222.3	1203.1	1190.1
45°	1324.3	1324.3	1340.2	1365.0	1402.4	1443.8	1408.7	1396.2	1384.9	1369.0	1354.3
47.5°	1393.4	1394.0	1403.6	1439.8	1498.1	1559.9	1561.0	1563.4	1554.8	1536.1	1536.7
50°	1442.1	1435.9	1448.9	1484.0	1551.5	1648.3	1718.0	1722.0	1728.8	1713.4	1718.0
52.5°	1477.8	1475.0	1483.5	1512.9	1580.3	1698.7	1846.5	1863.5	1873.7	1876.0	1894.7
55°	1459.1	1460.8	1481.2	1523.6	1596.2	1732.1	1955.8	1983.6	2007.4	2027.8	2051.0
57.5°	1397.4	1402.4	1438.1	1504.4	1599.5	1759.3	2072.0	2114.4	2159.2	2213.6	2259.5
60°	1298.8	1310.7	1358.9	1451.7	1566.7	1723.6	2106.5	2171.6	2240.2	2322.9	2415.3
62.5°	1154.3	1156.7	1188.4	1278.4	1405.3	1533.9	1947.9	2031.2	2121.8	2241.3	2370.4
64°	956.7	977.1	991.8	1090.9	1204.2	1364.5	1738.3	1796.1	1922.4	2069.1	2231.7
65°	789.6	814.0	825.9	924.9	1054.7	1207.6	1555.9	1617.7	1750.8	1899.8	2102.5
67.5°	465.6	449.2	483.7	542.0	650.8	832.1	1049.6	1096.6	1195.7	1373.0	1535.0
70°	300.2	300.2	331.9	391.4	492.2	631.0	721.0	701.2	722.1	790.7	905.1
72.5°	192.6	202.8	222.0	272.5	365.9	529.0	736.9	643.4	594.7	572.1	571.0
75°	87.8	93.5	114.4	144.5	195.4	344.9	743.2	702.3	657.6	614.6	581.1
77.5°	18.7	21.5	36.3	74.8	95.2	159.2	527.4	588.5	637.2	651.4	651.4
80°	9.7	10.2	15.3	35.2	40.7	53.8	203.4	267.4	329.7	411.8	497.9
82.5°	4.0	4.6	9.0	15.8	17.0	16.5	53.8	68.0	93.5	135.9	202.8
85°	1.1	1.1	4.0	6.2	9.0	7.3	11.9	13.6	17.6	25.5	48.7
87.5°	0.0	0.0	0.6	1.1	1.7	2.8	3.4	3.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181164

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2.5°	69.7	69.7	69.1	68.6	68.6	67.4	67.4	66.9	66.9	66.2	66.2
5°	83.8	82.7	81.6	79.9	79.3	78.1	77.0	75.9	74.8	74.2	73.0
7.5°	104.2	103.1	99.7	97.4	94.6	92.9	90.6	88.9	87.3	86.1	83.8
10°	131.4	127.4	125.8	117.9	116.1	112.2	108.7	106.5	102.0	99.2	96.3
12.5°	170.0	162.6	159.7	146.1	142.1	136.5	132.6	126.9	121.8	118.4	113.3
15°	213.6	207.9	197.1	183.5	176.2	170.0	160.3	155.7	148.9	141.6	134.2
17.5°	265.7	255.4	243.5	226.0	216.9	207.4	198.2	188.7	177.3	170.5	162.6
20°	326.2	315.5	300.7	278.7	267.9	258.3	242.4	235.6	222.0	208.5	198.2
22.5°	392.6	381.8	367.6	342.7	328.6	312.7	299.6	287.7	271.9	258.3	246.4
25°	467.3	454.8	444.1	415.2	397.6	381.2	367.1	346.0	332.5	316.7	300.2
27.5°	552.3	537.5	523.4	491.6	475.3	457.1	440.1	418.0	405.0	379.0	363.6
30°	639.4	621.4	606.6	574.3	559.6	540.9	517.7	497.9	475.8	458.2	433.3
32.5°	731.3	716.6	704.7	670.6	651.9	628.7	607.7	586.8	567.5	539.3	516.6
35°	829.2	816.2	803.2	773.8	757.3	739.7	715.9	690.4	663.8	634.4	614.0
37.5°	932.3	922.1	911.9	876.3	857.0	838.3	811.1	785.6	761.9	730.7	696.1
40°	1040.5	1030.9	1014.4	985.0	964.7	947.6	922.7	898.9	866.6	832.1	801.5
42.5°	1176.5	1155.5	1141.3	1109.0	1087.5	1068.8	1046.7	1011.1	983.9	942.5	913.0
45°	1335.6	1315.8	1292.6	1259.7	1233.1	1202.5	1171.4	1147.0	1113.0	1075.6	1037.7
47.5°	1514.6	1498.8	1471.5	1439.3	1412.7	1382.1	1345.2	1314.1	1272.8	1229.1	1177.6
50°	1711.7	1695.3	1677.2	1640.9	1614.3	1585.4	1556.6	1519.7	1482.3	1430.2	1376.9
52.5°	1894.7	1898.1	1887.4	1870.3	1857.3	1827.3	1800.7	1765.5	1732.7	1685.1	1643.7
55°	2075.4	2104.9	2116.2	2132.6	2138.2	2113.9	2113.3	2061.8	2042.0	2014.2	1990.4
57.5°	2313.9	2379.0	2430.5	2530.2	2572.1	2614.6	2622.5	2586.2	2623.6	2575.6	2591.9
60°	2516.6	2636.1	2764.1	3021.9	3151.0	3248.4	3326.6	3384.4	3421.8	3485.2	3488.6
62.5°	2534.7	2722.8	2917.6	3293.8	3470.4	3618.3	3759.4	3857.9	3936.0	4008.0	4025.6
64°	2448.1	2680.9	2917.6	3372.5	3553.1	3717.4	3846.0	3944.0	4023.8	4068.6	4098.1
65°	2290.6	2551.2	2823.6	3320.4	3506.7	3681.1	3804.1	3902.6	3978.0	4022.7	4053.3
67.5°	1697.0	1949.0	2222.6	2800.9	3094.3	3254.1	3411.6	3549.8	3610.3	3667.0	3677.8
70°	1034.3	1217.2	1405.9	1942.2	2214.7	2501.9	2679.2	2881.4	3023.0	3110.3	3139.1
72.5°	624.2	687.6	800.4	1088.7	1349.8	1551.5	1796.7	1989.9	2148.5	2236.2	2280.4
75°	555.6	547.7	562.4	682.5	775.4	896.7	985.6	1106.8	1204.8	1235.4	1292.6
77.5°	642.3	619.6	596.5	573.8	569.2	558.0	539.8	544.4	501.3	459.9	461.0
80°	572.1	626.4	658.8	635.0	581.1	526.8	459.9	376.7	294.5	243.5	222.0
82.5°	287.2	408.4	525.1	640.7	632.7	584.6	510.9	419.7	325.1	249.8	199.4
85°	88.4	156.9	220.9	307.0	356.3	349.5	307.0	298.5	212.9	166.0	128.0
87.5°	4.0	4.0	4.0	3.4	4.0	4.0	4.0	4.6	4.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181164

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2.5°	66.2	65.7	65.1	64.6	64.6	64.6	64.0	64.0	63.4	63.4	62.9
5°	73.0	71.9	71.3	70.2	70.2	69.1	68.6	68.0	66.9	66.2	65.7
7.5°	82.1	81.0	79.3	77.6	77.0	75.3	73.7	72.5	71.3	70.2	69.1
10°	94.0	91.7	88.4	86.1	84.4	82.1	79.9	78.1	75.9	73.7	72.5
12.5°	109.3	104.7	101.4	97.4	94.0	90.6	86.7	84.4	82.1	78.7	76.5
15°	126.9	122.3	118.4	111.6	106.0	101.4	98.0	92.9	88.9	84.4	81.0
17.5°	156.9	145.0	137.1	130.2	124.7	116.1	109.3	103.6	98.5	92.9	88.9
20°	186.3	176.2	165.4	157.5	145.0	137.7	128.6	120.7	111.6	104.7	98.0
22.5°	229.4	216.4	202.8	190.9	173.9	163.7	151.8	141.6	130.2	119.0	111.6
25°	283.8	264.6	246.4	229.4	213.6	198.2	183.0	166.5	154.6	141.0	128.6
27.5°	341.0	319.4	301.9	279.8	259.4	240.7	221.5	203.9	183.5	166.0	151.3
30°	412.9	383.4	363.1	336.5	316.1	290.0	266.2	243.0	218.0	197.7	176.7
32.5°	486.0	466.1	431.6	408.9	378.3	347.3	322.3	295.6	265.1	238.4	212.9
35°	582.2	548.3	519.4	487.7	454.2	422.0	389.7	351.7	320.6	287.7	256.6
37.5°	667.3	632.7	599.3	558.0	520.0	486.0	446.9	407.3	370.4	331.4	294.0
40°	765.8	722.8	683.1	644.6	597.6	557.4	516.6	467.3	424.8	381.8	337.6
42.5°	873.4	829.8	782.8	738.6	687.1	637.8	587.4	538.1	490.5	438.4	386.9
45°	991.3	945.4	892.7	842.2	786.2	731.8	671.8	615.2	559.1	500.7	441.2
47.5°	1137.4	1078.4	1029.8	966.9	897.2	840.0	766.3	701.8	637.8	569.9	503.0
50°	1326.5	1259.7	1189.5	1119.8	1042.8	970.2	888.7	812.3	726.7	650.8	574.3
52.5°	1577.5	1527.6	1446.1	1366.2	1272.2	1179.8	1067.7	968.6	858.7	761.9	668.4
55°	1933.8	1900.9	1830.2	1742.9	1660.8	1526.0	1396.8	1242.7	1100.0	960.7	829.2
57.5°	2578.9	2543.3	2464.5	2443.5	2317.2	2218.2	2066.9	1867.5	1625.6	1412.7	1200.3
60°	3507.8	3438.2	3361.1	3347.0	3198.6	3094.3	2944.3	2731.8	2504.1	2164.3	1874.9
62.5°	4026.7	4005.7	3943.5	3867.0	3738.3	3583.7	3415.0	3209.3	2978.3	2680.3	2335.9
64°	4096.4	4077.1	4023.3	3937.2	3808.0	3654.5	3467.6	3262.6	3030.9	2759.1	2444.7
65°	4052.8	4025.6	3979.7	3900.4	3780.3	3633.0	3445.0	3237.1	3002.1	2740.4	2448.1
67.5°	3701.0	3688.6	3646.6	3573.0	3497.7	3365.1	3199.7	3014.0	2821.9	2562.5	2322.9
70°	3142.5	3133.4	3080.2	3050.7	2926.2	2842.3	2708.7	2562.5	2392.6	2211.9	2008.0
72.5°	2329.7	2299.1	2256.0	2211.3	2126.9	2011.9	1907.7	1751.9	1664.1	1511.8	1396.8
75°	1235.4	1216.1	1149.3	1055.8	951.6	897.8	789.6	692.7	615.7	581.1	497.9
77.5°	427.1	389.1	351.7	309.9	245.9	193.7	154.6	123.4	97.4	86.1	71.9
80°	212.9	202.2	190.3	166.5	139.9	112.7	88.4	69.7	57.2	48.7	43.6
82.5°	172.7	152.9	136.5	119.5	95.7	78.7	62.3	51.0	42.0	36.8	32.3
85°	102.0	78.1	59.4	53.8	42.0	36.3	31.2	26.6	22.7	21.5	19.8
87.5°	4.0	5.1	5.1	4.0	5.1	4.6	4.6	4.0	4.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181164

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2.5°	62.9	62.3	62.3	61.8	61.2	61.2	61.2	60.7	59.4	57.2	55.5
5°	65.1	64.6	64.0	62.9	62.3	61.8	61.2	61.2	58.3	54.4	51.5
7.5°	68.0	66.9	65.7	64.6	64.0	62.9	61.8	61.2	57.2	52.1	49.3
10°	70.8	69.1	67.4	66.9	65.1	64.0	62.3	61.2	56.7	50.4	46.4
12.5°	74.2	71.9	69.7	68.0	65.7	64.6	62.9	61.2	55.5	48.7	44.2
15°	78.1	74.8	71.9	70.2	68.0	65.1	62.9	61.2	54.4	47.0	42.0
17.5°	83.3	79.3	75.9	72.5	69.1	66.2	64.0	61.8	52.7	44.7	39.1
20°	91.2	86.1	80.5	76.5	71.9	68.6	64.6	61.8	51.5	42.5	36.8
22.5°	102.0	94.0	87.8	81.0	75.3	70.8	66.2	62.9	49.9	40.2	34.0
25°	117.2	107.1	96.8	88.4	81.0	74.8	69.1	64.6	48.7	38.5	32.3
27.5°	134.2	122.3	108.7	98.5	88.4	79.3	73.0	67.4	48.7	37.4	30.6
30°	158.0	141.0	124.7	111.6	98.0	87.8	78.7	71.3	48.7	36.8	28.9
32.5°	186.9	167.6	146.7	128.0	112.2	97.4	86.1	76.5	49.9	35.7	27.7
35°	227.2	198.8	173.9	150.7	129.7	112.7	98.0	84.9	51.5	35.2	26.0
37.5°	258.9	224.8	193.1	166.5	142.1	121.2	102.5	88.4	49.9	32.8	24.4
40°	296.8	258.3	219.8	186.3	158.6	131.4	109.9	92.9	48.7	30.0	22.0
42.5°	342.7	294.5	249.8	211.8	177.3	145.0	119.5	98.5	48.7	28.3	20.4
45°	385.8	333.0	283.3	235.6	195.4	159.7	128.6	104.7	48.2	26.6	18.1
47.5°	439.0	376.7	318.3	263.4	216.9	173.3	138.2	110.4	47.5	24.9	16.5
50°	501.9	426.0	360.3	294.5	237.9	189.8	149.5	116.7	46.4	23.3	14.7
52.5°	571.5	490.0	406.1	330.2	263.9	207.4	160.3	122.3	44.7	21.5	13.0
55°	695.0	582.9	483.7	389.7	303.6	233.4	176.2	130.9	43.1	19.8	11.3
57.5°	991.3	805.5	664.9	523.4	399.9	299.6	219.2	155.2	40.7	17.6	9.0
60°	1556.6	1250.1	1011.6	793.6	604.9	459.9	322.9	229.4	43.6	14.7	7.9
62.5°	1996.7	1644.3	1340.8	1067.2	828.7	629.9	470.1	342.7	62.9	13.0	6.2
64°	2111.6	1754.8	1430.8	1144.2	896.1	691.1	524.5	387.4	81.0	13.0	5.7
65°	2128.6	1788.8	1463.1	1172.5	919.3	707.4	540.4	402.1	88.4	13.6	5.1
67.5°	2058.3	1768.9	1472.7	1184.4	936.8	730.1	561.9	425.4	99.7	13.0	4.0
70°	1797.8	1584.8	1341.3	1107.9	883.6	693.9	540.4	412.4	104.2	12.5	3.4
72.5°	1223.4	1076.8	932.9	767.5	615.2	507.0	394.2	290.6	73.0	10.2	2.8
75°	407.8	397.6	355.7	269.6	226.6	184.1	147.3	113.3	27.7	6.2	2.8
77.5°	68.0	58.3	51.0	48.7	40.7	39.6	34.5	27.7	11.9	4.0	2.8
80°	39.6	36.3	31.7	28.3	24.9	22.0	18.7	15.8	7.3	2.8	3.4
82.5°	29.5	26.0	23.3	20.4	17.6	15.3	13.0	10.8	4.0	2.8	3.4
85°	17.0	14.7	13.0	11.3	9.0	7.9	6.8	5.7	2.8	2.8	2.8
87.5°	3.4	3.4	2.8	2.8	2.8	2.8	2.8	2.2	2.8	2.8	2.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P181164

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	60.7	60.7	60.7	60.7	60.7	60.7	60.7
2.5°	54.4	52.7	52.1	52.1	52.1	52.1	52.1
5°	49.9	48.2	47.0	46.4	46.4	46.4	46.4
7.5°	46.4	44.2	43.1	42.0	42.0	41.3	41.3
10°	43.1	40.7	39.1	38.0	37.4	37.4	37.4
12.5°	40.2	38.0	35.7	34.5	34.5	34.0	34.0
15°	38.0	34.5	32.8	31.7	31.7	31.2	31.2
17.5°	35.2	32.3	30.6	29.5	28.9	28.9	28.9
20°	32.3	29.5	27.7	27.2	26.6	26.6	26.0
22.5°	30.0	27.2	25.5	24.9	24.4	24.4	23.8
25°	27.7	24.9	23.3	22.7	22.0	21.5	21.5
27.5°	26.0	23.3	21.5	20.4	19.8	19.3	19.3
30°	24.4	20.9	19.3	18.1	17.6	17.0	17.0
32.5°	22.7	19.3	17.0	15.8	15.3	14.7	14.7
35°	20.4	17.0	14.7	14.1	13.6	13.0	12.5
37.5°	18.7	14.7	13.0	11.9	11.3	10.8	10.8
40°	16.5	13.0	11.3	10.2	9.0	8.5	8.5
42.5°	14.7	11.3	9.7	7.9	7.3	6.8	6.8
45°	13.0	10.2	7.9	6.2	5.7	5.1	5.1
47.5°	11.3	8.5	6.2	5.1	4.6	4.0	4.0
50°	9.7	6.8	4.6	3.4	4.0	3.4	3.4
52.5°	8.5	5.1	3.4	3.4	3.4	3.4	3.4
55°	6.8	4.0	2.8	2.8	3.4	3.4	3.4
57.5°	5.7	2.8	2.2	2.8	2.8	2.8	2.8
60°	4.0	2.2	2.2	2.8	2.8	2.8	2.8
62.5°	3.4	2.2	2.2	2.2	2.8	2.8	2.8
64°	2.8	2.2	2.2	2.2	2.8	2.8	2.8
65°	2.8	2.2	2.2	2.2	2.8	2.8	2.8
67.5°	2.8	2.2	2.2	2.2	2.8	2.8	2.8
70°	2.2	2.2	2.2	2.2	2.8	2.8	2.8
72.5°	2.2	2.2	2.2	2.2	2.8	2.8	2.8
75°	2.2	2.2	2.2	2.2	2.8	2.8	2.8
77.5°	2.2	2.2	2.2	2.8	2.8	2.8	2.8
80°	2.2	2.2	2.2	2.8	2.8	2.8	2.8
82.5°	2.2	2.2	2.2	2.8	2.8	2.8	2.8
85°	2.2	2.2	2.2	2.8	2.8	2.8	2.8
87.5°	2.2	2.2	2.2	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)