

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: P181328

Luminaire Tested: **ICM-E02-LED-E1-T3-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181328
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33724)
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-T3-HSS-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2770.3 lumens
Efficiency: N/A
Efficacy: 53.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

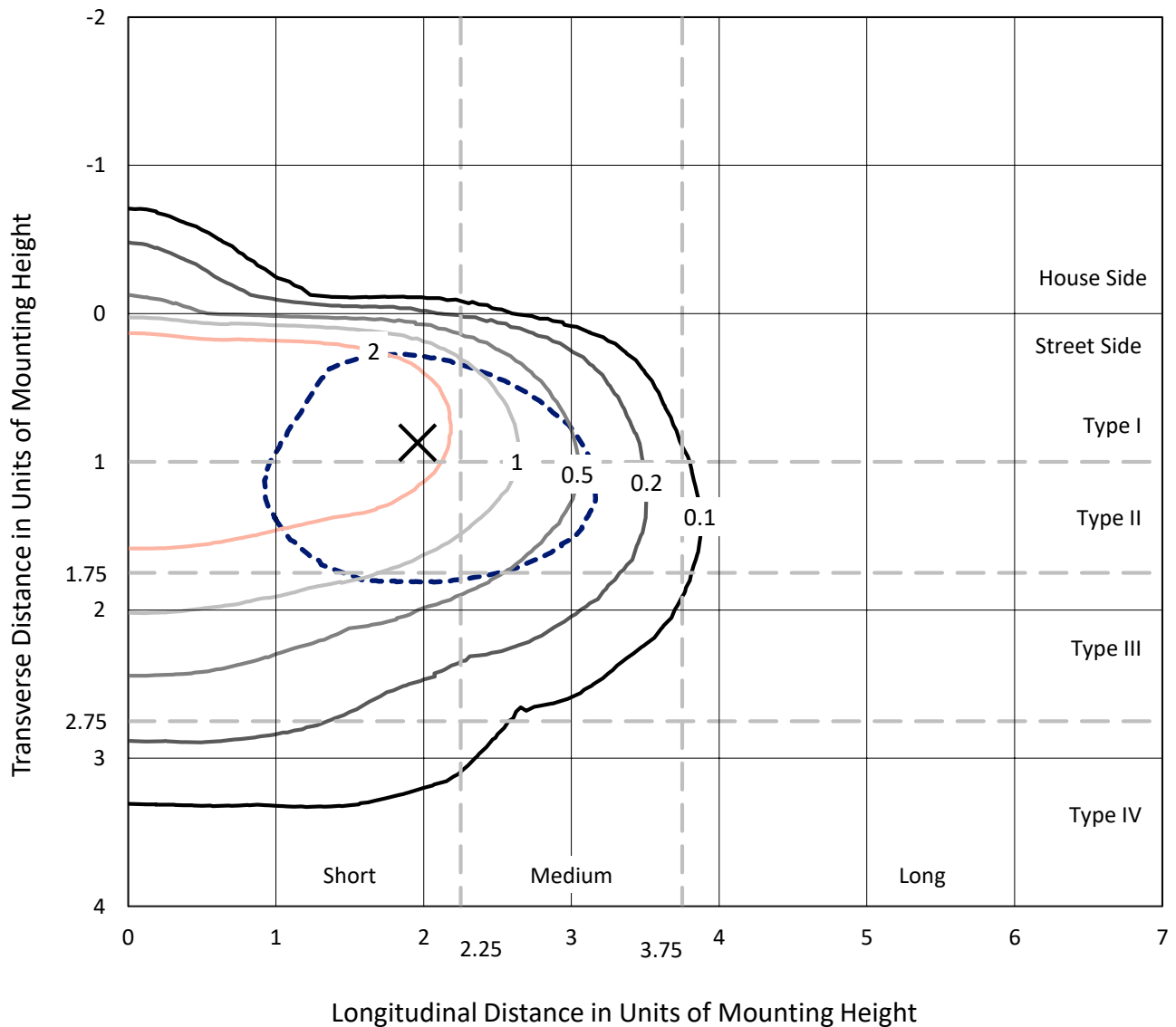
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181328
 CATALOG NUMBER: ICM-E02-LED-E1-T3-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

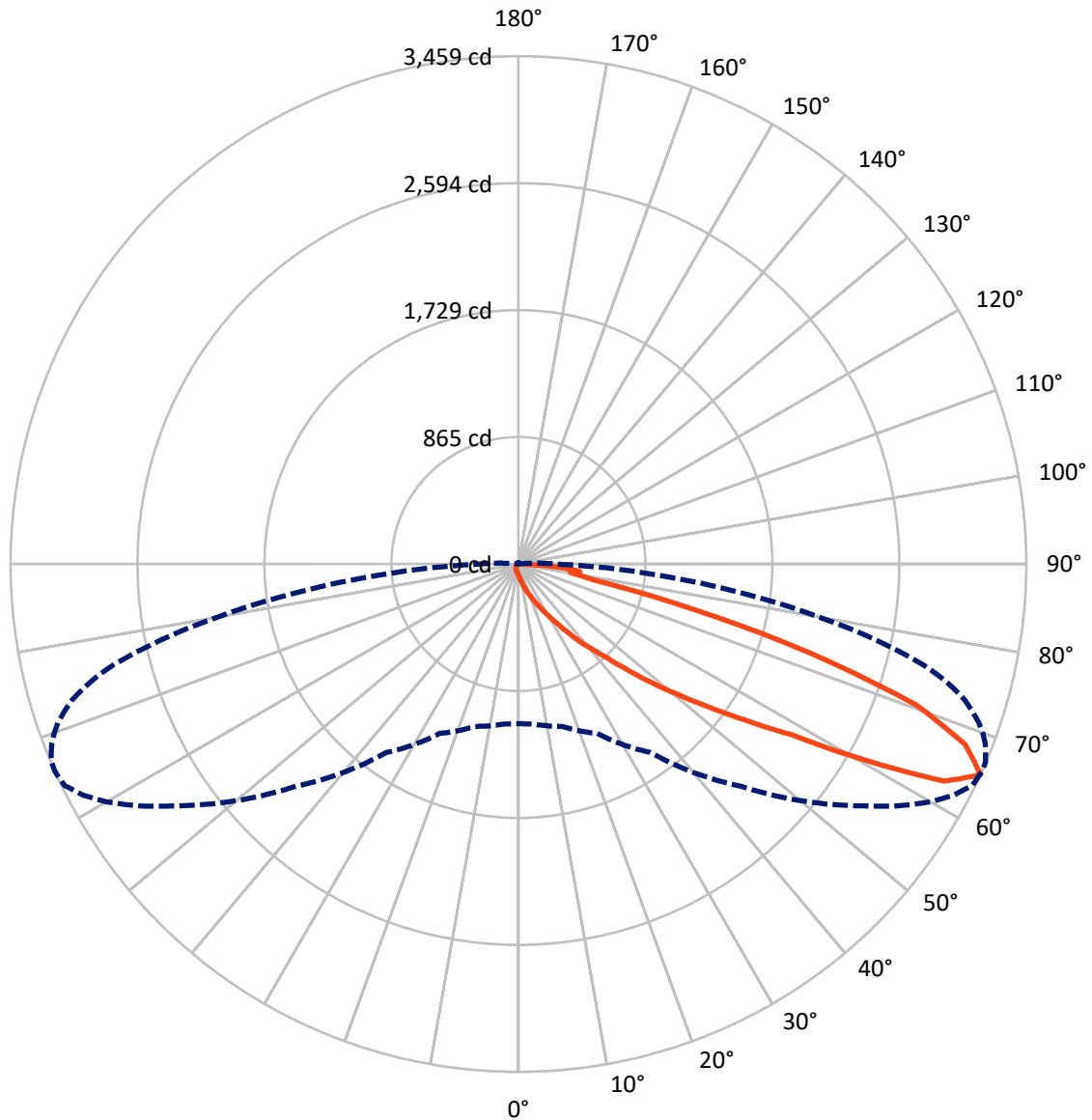
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P181328
CATALOG NUMBER: ICM-E02-LED-E1-T3-HSS-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P181328

CATALOG NUMBER: ICM-E02-LED-E1-T3-HSS-7030

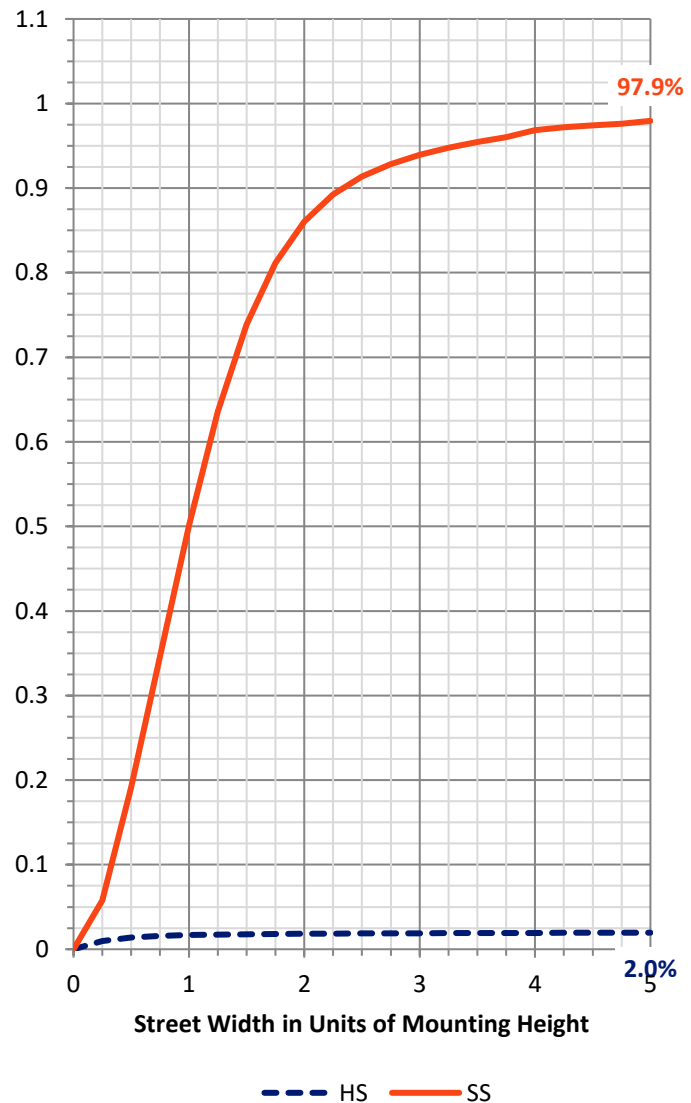
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55.6	0.0	55.6
	% Fixture	2.0	0.0	2.0
Street Side	Lumens	2714.7	0.0	2714.7
	% Fixture	98.0	0.0	98.0
Total	Lumens	2770.3	0.0	2770.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.3
10°-20°	45.0	1.6
20°-30°	102.9	3.7
30°-40°	195.8	7.1
40°-50°	392.9	14.2
50°-60°	695.3	25.1
60°-70°	908.4	32.8
70°-80°	373.5	13.5
80°-90°	47.1	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°	2770.3	100.0
0°-180°	2770.3	100.0



REPORT NUMBER: P181328

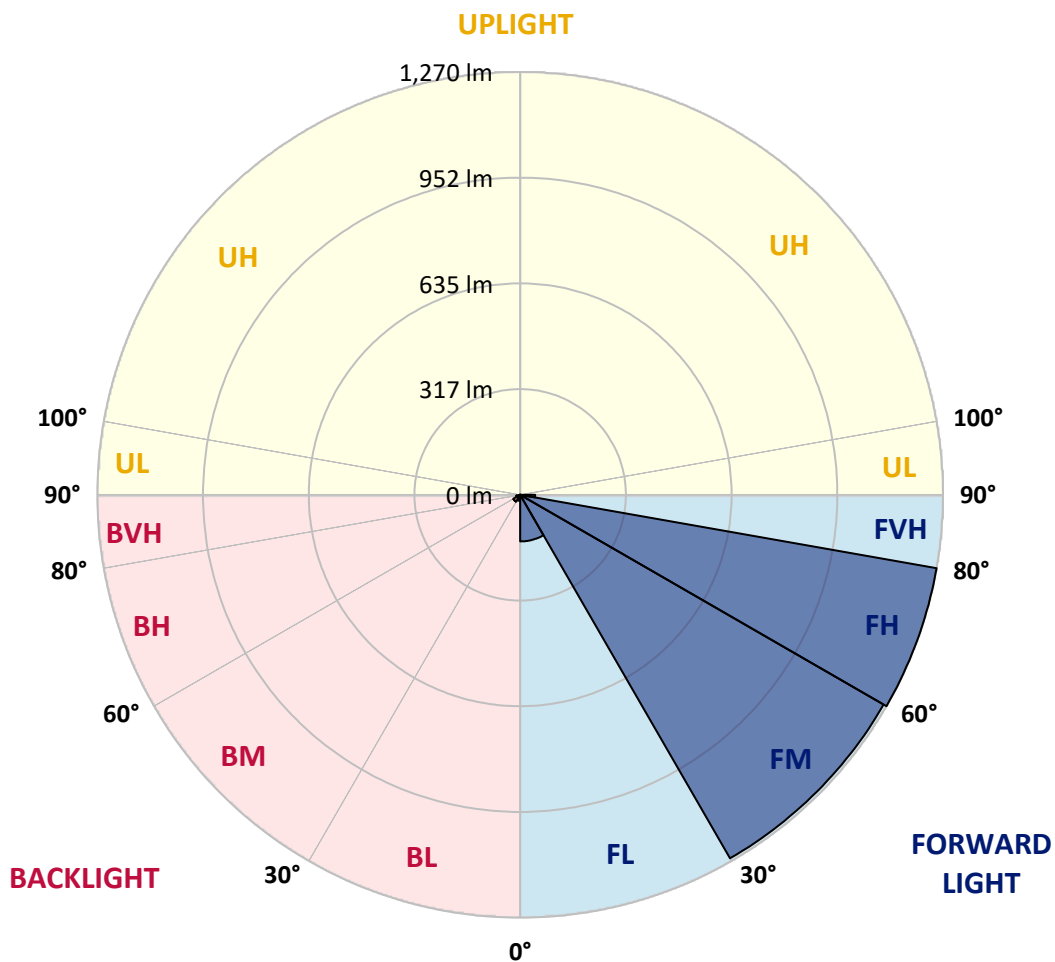
CATALOG NUMBER: ICM-E02-LED-E1-T3-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	140.0	5.1			
FM	(30°-60°)	1260.2	45.5			
FH	(60°-80°)	1269.6	45.8			G1/1800
FVH	(80°-90°)	44.9	1.6			G1/100
BL	(0°-30°)	17.4	0.6	B0/110		
BM	(30°-60°)	23.8	0.9	B0/220		
BH	(60°-80°)	12.3	0.4	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G1

Type III Short





REPORT NUMBER: P181328

CATALOG NUMBER: ICM-E02-LED-E1-T3-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2.5°	102.0	100.3	100.8	97.4	95.2	92.4	90.0	89.5	88.9	87.8	88.4
5°	146.7	145.0	141.0	134.2	128.0	118.4	108.7	108.2	106.5	104.7	103.6
7.5°	203.9	201.1	196.6	185.2	170.0	152.9	133.7	132.0	129.7	127.4	125.2
10°	270.1	268.5	260.0	247.0	223.7	196.0	163.7	162.0	156.9	154.0	151.8
12.5°	339.8	332.5	329.1	306.4	279.8	241.9	200.6	194.3	190.3	186.3	180.7
15°	392.6	393.7	385.8	367.6	336.5	292.3	240.7	234.0	228.3	220.9	214.1
17.5°	440.1	437.9	429.3	418.0	388.6	343.8	283.8	274.7	265.7	261.7	252.1
20°	478.6	477.5	470.7	459.9	437.3	394.2	329.1	321.8	311.5	304.7	294.0
22.5°	509.2	509.2	505.2	499.0	476.9	442.4	377.2	369.3	359.1	350.6	338.7
25°	533.6	533.0	533.6	530.7	516.0	484.3	426.5	417.5	408.9	398.8	387.4
27.5°	561.3	562.4	561.3	559.6	553.4	527.9	476.4	470.1	460.5	449.8	438.4
30°	604.4	600.9	600.4	599.3	591.9	576.1	527.9	520.6	513.2	505.8	497.9
32.5°	649.7	644.0	642.3	642.3	637.2	623.1	587.4	583.4	572.7	567.0	560.2
35°	701.2	699.0	696.7	697.3	695.0	680.3	650.8	651.9	648.6	637.2	630.4
37.5°	776.6	777.1	773.1	765.8	765.8	752.7	735.8	733.5	725.0	722.1	718.2
40°	884.2	881.3	878.0	867.2	863.3	841.1	825.3	819.6	812.8	812.3	807.7
42.5°	1008.8	1005.4	1005.4	997.5	989.5	962.9	932.9	928.9	921.6	923.8	922.1
45°	1124.4	1127.2	1131.2	1136.8	1138.0	1126.6	1083.0	1077.9	1074.0	1071.6	1070.0
47.5°	1224.0	1229.1	1242.1	1266.5	1297.7	1301.7	1267.1	1253.5	1250.7	1246.7	1243.3
50°	1295.4	1302.8	1332.2	1379.8	1440.4	1477.8	1459.1	1447.7	1447.2	1436.5	1435.4
52.5°	1336.2	1344.1	1392.3	1464.2	1558.2	1631.3	1654.5	1654.0	1652.8	1643.2	1639.3
55°	1345.2	1353.8	1411.5	1509.5	1643.7	1770.1	1859.0	1861.2	1866.3	1863.5	1863.5
57.5°	1320.3	1331.1	1394.0	1515.2	1688.5	1879.9	2074.2	2087.3	2093.5	2115.5	2141.0
60°	1274.4	1282.4	1345.2	1480.7	1696.5	1980.2	2354.1	2395.4	2427.6	2471.3	2512.7
62.5°	1189.5	1205.3	1265.4	1412.7	1672.7	2095.7	2688.2	2764.7	2827.6	2893.9	2973.7
65°	1086.4	1093.2	1144.2	1272.8	1566.1	2139.9	2872.9	2947.6	3028.1	3098.9	3170.3
67.5°	957.2	962.9	1007.1	1062.1	1292.6	1933.2	2691.1	2773.8	2846.2	2904.6	2998.1
70°	627.1	639.4	747.6	802.1	903.4	1429.1	2200.6	2280.4	2335.9	2375.5	2483.7
72.5°	459.4	467.3	510.9	623.1	648.0	844.6	1548.6	1635.3	1655.6	1730.4	1780.8
75°	280.4	300.2	398.8	533.6	631.5	578.3	927.8	969.7	1016.8	1071.1	1119.3
77.5°	56.7	64.6	130.2	367.6	555.6	618.0	554.0	561.9	585.1	590.2	608.4
80°	9.0	9.7	17.0	158.6	321.8	499.5	554.0	546.6	533.6	524.5	515.4
82.5°	4.0	4.6	7.3	40.2	68.6	166.5	479.2	516.6	559.6	583.4	589.7
85°	1.7	1.7	2.8	7.9	10.2	11.3	81.0	107.1	190.9	253.8	292.3
87.5°	1.1	1.1	1.7	1.7	2.2	2.8	4.0	4.0	4.6	5.1	7.3
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: P181328

CATALOG NUMBER: ICM-E02-LED-E1-T3-HSS-7030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2.5°	88.4	87.8	87.8	86.1	86.1	85.5	85.5	84.9	84.9	83.8	84.4
5°	103.1	102.0	100.8	99.2	98.5	97.4	96.3	94.6	94.0	92.9	92.4
7.5°	122.9	121.8	119.5	116.1	113.9	111.6	109.3	107.1	105.4	103.6	102.5
10°	147.3	143.9	142.7	135.9	133.1	128.6	125.8	123.4	120.1	117.2	115.5
12.5°	176.7	173.9	168.2	159.2	154.6	150.7	145.6	141.0	137.7	132.6	129.1
15°	207.4	205.0	197.1	186.9	181.2	173.9	168.8	164.3	156.9	153.5	147.3
17.5°	245.9	239.1	231.1	216.4	209.0	202.8	193.7	186.9	182.4	172.2	166.5
20°	285.5	278.1	267.9	251.5	241.3	231.6	224.3	215.3	205.6	198.8	189.2
22.5°	330.8	318.9	311.0	290.6	278.7	268.5	256.0	246.4	236.7	226.0	215.3
25°	379.0	367.1	357.4	334.2	321.8	311.5	296.8	283.3	271.4	259.4	247.0
27.5°	429.3	418.6	407.8	384.0	373.3	359.1	345.5	329.7	314.3	303.6	286.6
30°	487.7	478.6	466.7	441.2	429.3	414.6	400.5	381.8	367.1	352.3	335.9
32.5°	550.6	543.2	530.7	508.1	494.0	481.5	466.1	448.0	427.1	411.8	392.6
35°	627.1	614.6	607.2	585.7	574.9	561.3	545.5	529.6	507.5	486.0	469.6
37.5°	714.2	708.6	699.0	678.6	670.6	656.5	646.3	630.4	613.4	586.2	568.7
40°	803.7	799.8	791.3	770.9	763.0	753.3	741.5	726.1	705.8	691.6	665.6
42.5°	917.6	911.4	904.6	885.3	870.1	858.1	853.0	840.0	818.5	800.4	780.0
45°	1062.1	1059.2	1050.1	1030.9	1015.6	1007.6	999.7	977.7	963.4	945.4	931.2
47.5°	1236.5	1227.4	1222.9	1201.4	1196.3	1190.1	1169.7	1157.2	1136.8	1122.6	1105.1
50°	1425.1	1415.5	1416.1	1390.0	1391.2	1386.6	1371.3	1356.6	1339.0	1326.5	1315.8
52.5°	1627.9	1632.5	1621.1	1629.0	1620.0	1609.8	1606.9	1588.8	1573.5	1572.9	1558.2
55°	1877.1	1869.8	1872.6	1880.5	1868.1	1879.4	1873.7	1850.5	1851.1	1855.6	1838.6
57.5°	2145.0	2155.8	2179.0	2184.1	2205.7	2190.9	2229.4	2201.7	2218.7	2218.7	2207.4
60°	2538.2	2581.2	2637.2	2680.9	2721.1	2708.1	2758.4	2726.7	2749.4	2730.2	2720.5
62.5°	3011.6	3068.9	3135.2	3206.0	3246.7	3257.0	3249.6	3263.7	3241.6	3227.5	3190.6
65°	3239.4	3296.0	3353.8	3438.7	3450.1	3458.5	3455.2	3431.4	3404.2	3364.0	3315.8
67.5°	3050.2	3129.5	3161.8	3259.7	3292.6	3280.8	3284.7	3254.1	3211.6	3171.9	3101.1
70°	2529.0	2619.7	2636.7	2777.1	2816.3	2872.9	2852.5	2843.5	2796.9	2763.6	2685.4
72.5°	1841.4	1912.2	1906.6	2064.6	2057.8	2081.0	2136.0	2133.7	2085.0	2074.2	2008.6
75°	1133.4	1175.9	1173.6	1285.8	1238.8	1232.0	1247.3	1240.5	1194.6	1147.0	1106.2
77.5°	600.4	619.6	599.3	565.9	562.4	524.5	513.8	513.2	478.0	435.0	403.3
80°	505.8	486.0	462.2	413.5	385.2	359.7	335.9	313.8	290.0	258.3	219.8
82.5°	590.8	581.1	564.2	503.0	473.5	422.5	384.6	348.9	305.3	272.5	223.2
85°	287.7	287.2	300.7	294.5	283.8	281.5	244.1	236.2	218.6	200.6	167.6
87.5°	7.9	5.7	6.8	5.7	6.8	7.3	5.1	11.9	7.3	6.8	7.9
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: P181328

CATALOG NUMBER: ICM-E02-LED-E1-T3-HSS-7030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2.5°	83.8	83.3	82.7	82.7	82.1	82.1	81.6	81.0	81.0	80.5	80.5
5°	91.2	90.0	89.5	88.9	87.8	87.3	86.1	85.5	84.4	83.8	82.7
7.5°	100.3	99.2	96.8	95.7	94.0	93.5	90.6	89.5	88.4	87.3	85.5
10°	111.6	108.7	106.5	104.2	101.4	99.2	96.8	95.2	92.9	90.0	88.9
12.5°	125.8	121.8	118.4	114.4	111.0	107.6	103.6	100.8	97.4	94.6	91.7
15°	141.6	135.9	131.4	125.8	120.1	116.1	112.2	108.2	103.6	99.7	96.3
17.5°	159.7	152.4	146.1	139.3	133.1	127.4	120.7	115.5	110.4	104.7	100.3
20°	179.0	171.6	163.2	155.7	146.7	140.5	132.0	125.2	117.9	112.2	106.0
22.5°	204.5	194.9	184.1	173.9	164.3	154.6	145.6	137.1	128.0	119.5	113.3
25°	234.5	222.6	209.0	198.8	185.2	174.4	163.2	152.4	142.7	132.0	121.8
27.5°	271.9	256.0	241.3	227.2	212.4	198.8	184.1	171.6	158.6	146.1	134.8
30°	315.5	300.2	278.1	262.2	247.5	228.8	214.1	197.7	183.0	164.8	152.4
32.5°	373.3	353.5	330.2	309.3	290.0	269.0	248.7	227.7	208.5	192.0	173.3
35°	448.6	425.4	397.6	371.0	349.5	324.0	298.0	274.1	252.1	228.3	205.0
37.5°	543.7	522.2	492.2	459.9	431.1	400.5	373.3	339.8	310.4	281.5	252.1
40°	638.3	618.5	587.4	552.8	515.4	480.3	445.8	407.8	370.4	334.2	303.6
42.5°	755.1	725.6	692.2	653.1	616.8	574.9	531.9	488.3	443.5	399.9	356.3
45°	901.8	879.1	832.1	790.1	747.1	697.9	644.6	594.7	537.5	486.0	428.2
47.5°	1080.2	1039.4	1004.8	966.3	912.5	864.9	796.9	738.1	666.7	598.1	529.0
50°	1290.9	1268.2	1222.3	1174.2	1115.8	1059.2	992.9	908.0	822.4	749.4	654.8
52.5°	1537.3	1504.9	1476.1	1426.2	1366.8	1294.2	1219.0	1126.6	1021.9	918.7	818.0
55°	1829.5	1806.9	1779.2	1739.5	1663.5	1581.4	1490.8	1380.4	1256.3	1117.6	1000.3
57.5°	2206.8	2183.0	2156.4	2074.8	2023.3	1922.4	1791.0	1676.6	1542.9	1365.0	1219.5
60°	2721.7	2689.4	2652.0	2585.7	2478.1	2347.3	2206.2	2036.8	1873.1	1678.9	1488.0
62.5°	3161.8	3110.3	3030.3	2944.9	2815.6	2665.6	2488.3	2288.9	2102.5	1883.9	1671.5
65°	3252.4	3181.6	3087.6	2976.0	2842.9	2673.5	2488.3	2297.4	2078.2	1872.6	1659.1
67.5°	3016.8	2934.6	2838.3	2713.7	2586.8	2412.4	2252.7	2058.3	1852.2	1674.3	1483.5
70°	2629.3	2507.6	2409.0	2276.5	2147.8	2010.8	1842.6	1697.0	1529.3	1365.7	1219.5
72.5°	1974.5	1854.4	1764.9	1659.1	1582.6	1437.6	1314.1	1205.3	1106.2	983.9	875.7
75°	1064.3	974.2	914.2	866.1	797.5	701.8	642.9	568.1	526.2	475.3	426.0
77.5°	347.3	305.9	261.1	217.5	186.9	140.5	135.9	108.2	102.0	99.2	76.5
80°	177.9	137.1	99.2	71.3	54.4	48.2	45.9	43.6	41.3	39.6	36.8
82.5°	178.4	129.1	88.9	61.8	44.7	37.4	35.2	34.0	32.3	30.6	28.3
85°	130.2	96.3	66.2	45.3	31.2	24.9	23.8	22.0	20.9	20.4	18.1
87.5°	8.5	6.2	5.7	5.1	5.1	5.1	5.7	5.1	5.7	5.7	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: P181328

CATALOG NUMBER: ICM-E02-LED-E1-T3-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2.5°	79.9	79.3	79.3	78.7	78.1	78.1	77.6	77.6	75.9	73.0	70.8
5°	82.1	81.0	80.5	79.9	79.3	78.1	77.6	77.0	74.2	68.6	64.0
7.5°	83.8	82.7	82.1	81.0	79.3	78.7	77.6	76.5	71.9	64.0	58.9
10°	86.7	84.9	83.3	81.6	79.9	78.7	77.0	75.9	69.1	60.0	55.0
12.5°	89.5	87.3	84.9	82.1	80.5	78.7	77.0	74.8	66.9	56.7	51.0
15°	92.9	89.5	86.7	83.8	81.0	78.7	75.9	74.2	64.6	53.8	48.7
17.5°	96.3	92.4	88.4	84.4	81.6	78.1	75.9	73.0	62.3	51.5	45.9
20°	100.3	94.6	90.6	86.1	82.1	78.1	74.8	71.9	60.0	48.7	43.1
22.5°	106.0	99.2	92.9	87.8	82.7	78.7	74.8	70.8	57.8	46.4	40.7
25°	113.3	104.7	97.4	91.2	84.9	79.9	75.3	71.3	56.1	44.7	38.0
27.5°	124.0	113.3	105.4	96.8	88.9	82.7	77.0	72.5	55.0	43.1	36.3
30°	137.1	126.3	113.9	103.6	95.2	86.7	80.5	73.7	53.8	41.3	34.0
32.5°	156.4	141.0	126.3	113.9	102.0	92.4	83.3	76.5	53.2	38.5	31.7
35°	184.1	163.2	145.6	129.1	112.7	100.8	90.0	81.0	52.7	36.3	29.5
37.5°	223.7	198.8	176.2	152.9	132.6	115.5	100.8	88.9	52.7	34.5	27.2
40°	266.2	234.0	205.0	176.2	150.1	128.6	108.7	94.0	51.5	32.3	24.9
42.5°	314.3	274.7	235.1	199.4	167.1	139.3	116.1	98.0	48.7	30.0	22.7
45°	379.0	326.8	279.3	233.4	191.4	155.2	125.8	102.5	45.9	28.3	20.4
47.5°	459.9	399.4	337.6	279.8	224.8	179.0	139.9	109.9	44.2	26.0	18.7
50°	580.6	494.5	412.9	339.3	269.6	209.6	160.8	120.7	42.5	24.4	17.0
52.5°	713.1	607.2	511.4	416.9	330.2	250.9	185.2	134.8	40.7	22.7	15.3
55°	874.5	744.3	627.6	504.7	393.7	299.1	215.3	150.7	38.5	20.9	14.1
57.5°	1074.0	909.1	770.9	620.8	481.5	361.4	255.4	177.3	36.3	18.7	12.5
60°	1296.6	1110.1	936.3	760.1	591.4	444.1	314.9	215.3	34.0	16.5	10.8
62.5°	1456.8	1252.4	1053.6	855.8	670.6	505.8	363.1	244.7	30.6	14.1	9.7
65°	1455.2	1247.8	1047.9	853.0	672.9	508.1	364.7	250.3	27.2	12.5	8.5
67.5°	1296.6	1122.1	943.6	768.7	611.2	462.2	337.6	232.2	23.3	11.3	7.3
70°	1066.6	927.8	786.8	648.0	521.7	395.9	291.7	202.2	19.8	10.2	6.2
72.5°	778.8	677.4	591.4	493.4	407.3	312.7	232.8	158.6	15.8	8.5	5.7
75°	386.9	346.0	296.8	266.2	227.2	185.8	144.5	92.4	13.0	6.8	5.1
77.5°	73.7	65.7	62.9	54.4	49.9	44.2	39.1	27.7	10.2	5.1	4.6
80°	34.0	31.2	28.3	25.5	22.7	19.3	17.0	14.7	7.9	4.0	5.1
82.5°	26.6	24.4	21.5	19.3	17.0	14.7	12.5	10.8	5.1	3.4	5.1
85°	17.6	15.3	13.6	11.9	10.2	9.0	7.9	6.8	3.4	3.4	3.4
87.5°	5.1	5.1	4.6	4.6	4.0	4.0	3.4	3.4	2.8	2.8	2.8
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: P181328

CATALOG NUMBER: ICM-E02-LED-E1-T3-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	77.0	77.0	77.0	77.0	77.0	77.0	77.0
2.5°	68.6	65.7	64.6	64.0	64.0	64.6	64.0
5°	60.7	57.8	56.7	55.5	55.5	55.5	56.1
7.5°	55.5	52.7	51.0	50.4	49.9	50.4	50.4
10°	51.0	48.7	46.4	45.3	45.3	45.3	45.3
12.5°	47.5	44.7	42.5	42.0	41.3	41.3	41.3
15°	44.7	41.3	39.6	38.5	38.0	38.0	38.5
17.5°	41.3	38.5	36.3	35.7	35.7	35.7	35.7
20°	39.1	35.7	34.0	32.8	32.8	32.8	32.8
22.5°	36.3	33.4	31.2	30.0	30.0	30.0	30.0
25°	34.0	31.2	28.9	27.7	27.7	27.7	27.7
27.5°	31.7	28.9	26.6	25.5	25.5	25.5	25.5
30°	29.5	26.6	24.4	23.3	23.3	23.3	23.3
32.5°	27.7	24.4	22.0	20.9	20.9	21.5	20.9
35°	24.9	22.0	19.8	18.7	18.7	18.7	18.7
37.5°	22.7	19.8	17.6	16.5	16.5	16.5	15.8
40°	20.9	17.6	15.3	14.1	13.6	13.6	13.6
42.5°	18.1	14.7	13.0	11.9	11.3	11.3	11.3
45°	16.5	13.0	10.8	9.7	9.7	9.7	9.7
47.5°	14.7	11.3	9.0	7.9	7.9	8.5	8.5
50°	13.0	9.7	7.3	7.3	7.3	7.9	7.9
52.5°	11.3	8.5	6.8	6.8	7.3	7.9	7.9
55°	10.2	7.3	6.2	6.8	7.3	7.9	7.9
57.5°	9.0	6.2	6.2	6.8	7.3	7.9	7.9
60°	7.9	5.7	5.7	6.2	7.3	7.9	7.9
62.5°	6.8	5.7	5.7	6.2	7.3	7.9	7.9
65°	6.2	5.7	5.7	6.2	7.3	7.9	7.9
67.5°	5.7	5.1	5.7	6.2	6.8	7.3	7.3
70°	5.1	5.1	5.7	6.2	6.8	7.3	7.3
72.5°	5.1	5.1	5.1	5.7	6.2	6.8	6.8
75°	5.1	5.1	5.1	5.7	6.2	6.8	6.8
77.5°	5.1	4.6	4.6	5.1	6.2	6.8	6.8
80°	5.1	4.6	4.6	5.1	5.7	6.8	6.8
82.5°	4.0	4.0	4.6	5.1	5.7	6.2	6.2
85°	3.4	4.0	4.0	4.6	5.1	6.2	6.2
87.5°	2.8	2.8	3.4	4.0	4.6	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)