

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: P181163

Luminaire Tested: **ICM-E02-LED-E1-T2-HSS-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P181163  
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-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2514.4 lumens  
Efficiency: N/A  
Efficacy: 48.3 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

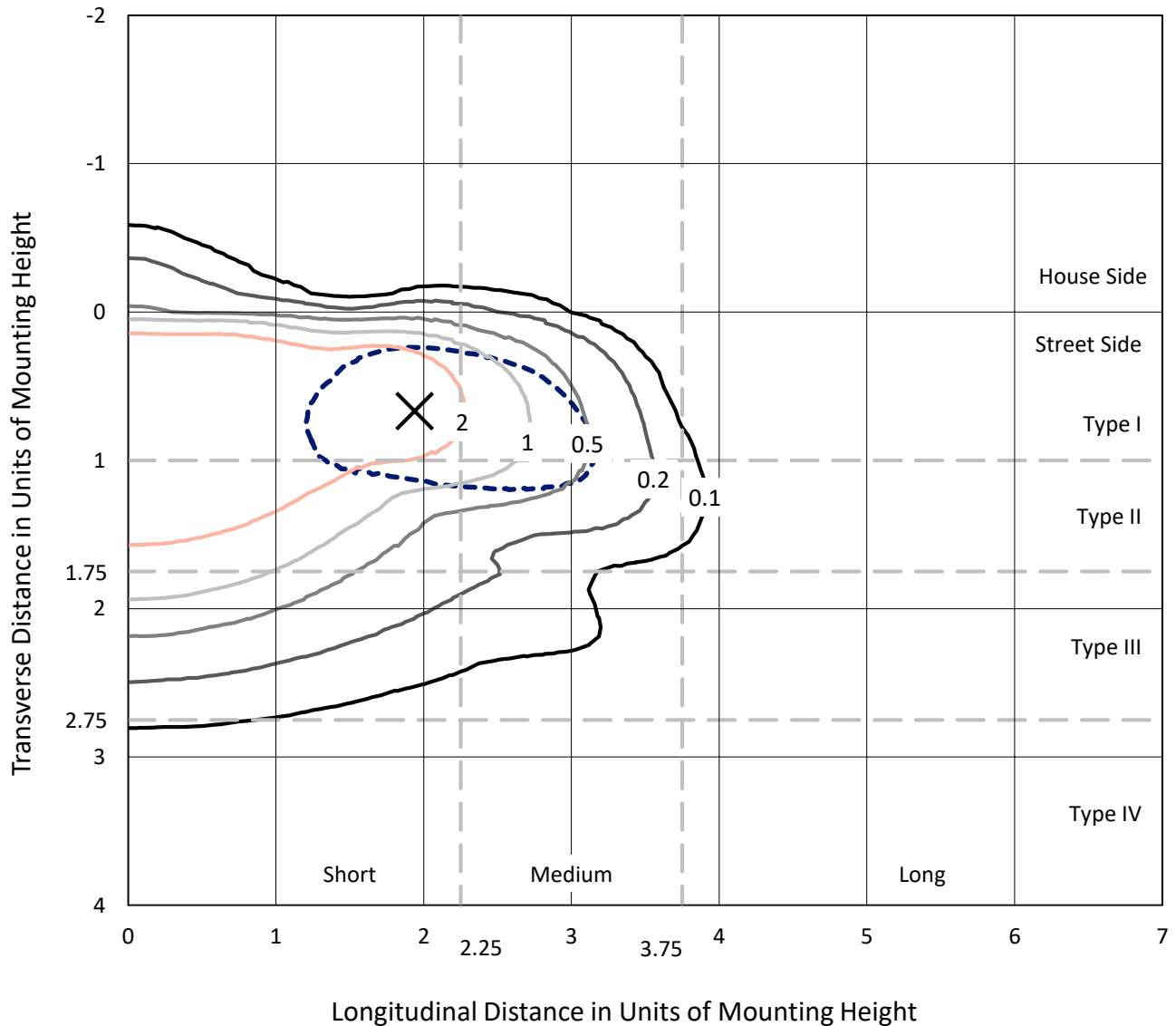
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P181163  
 CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-8030

### Iso-Footcandle Lines of Horizontal Illumination

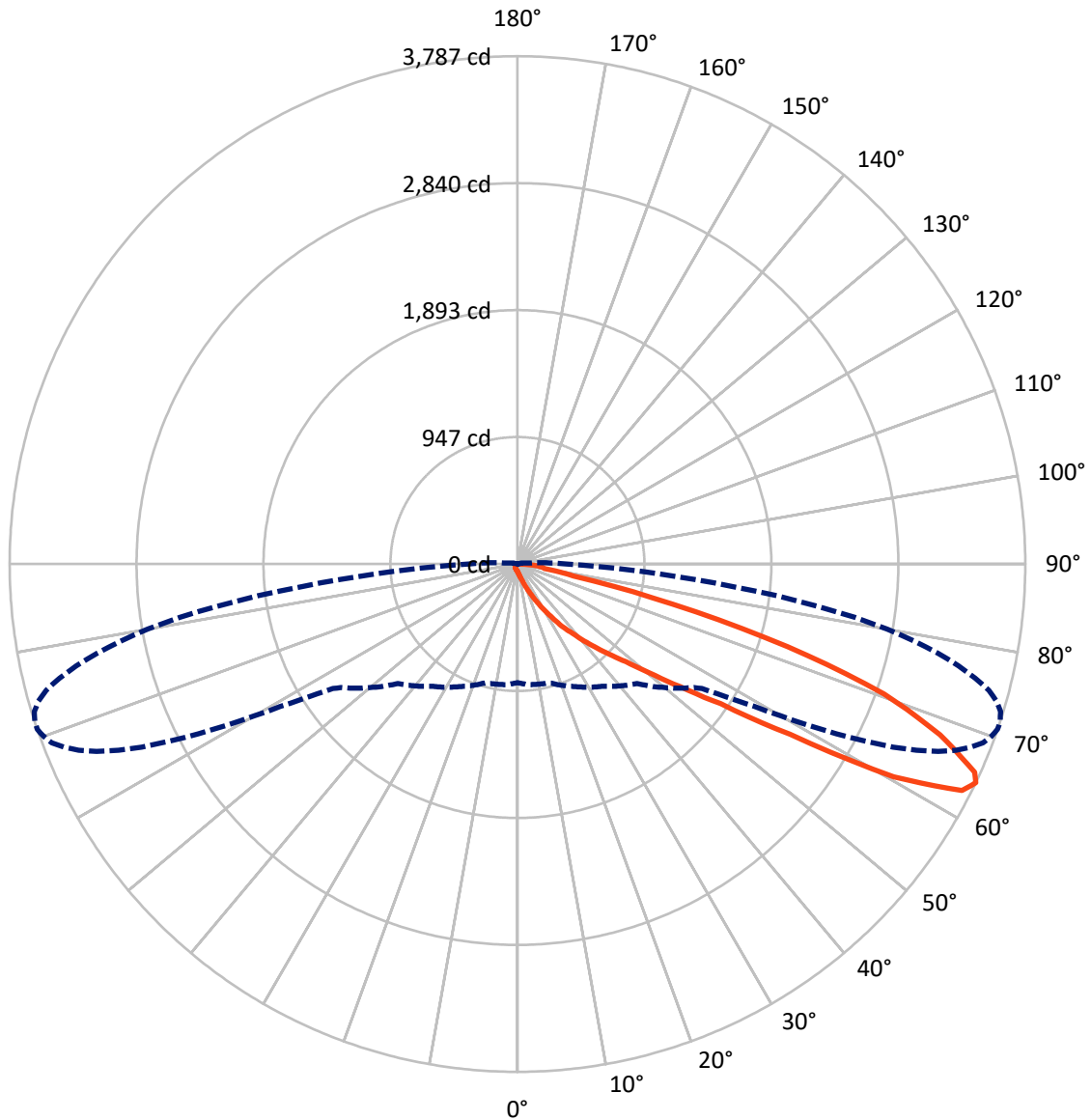
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.9 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P181163  
CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P181163

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-8030

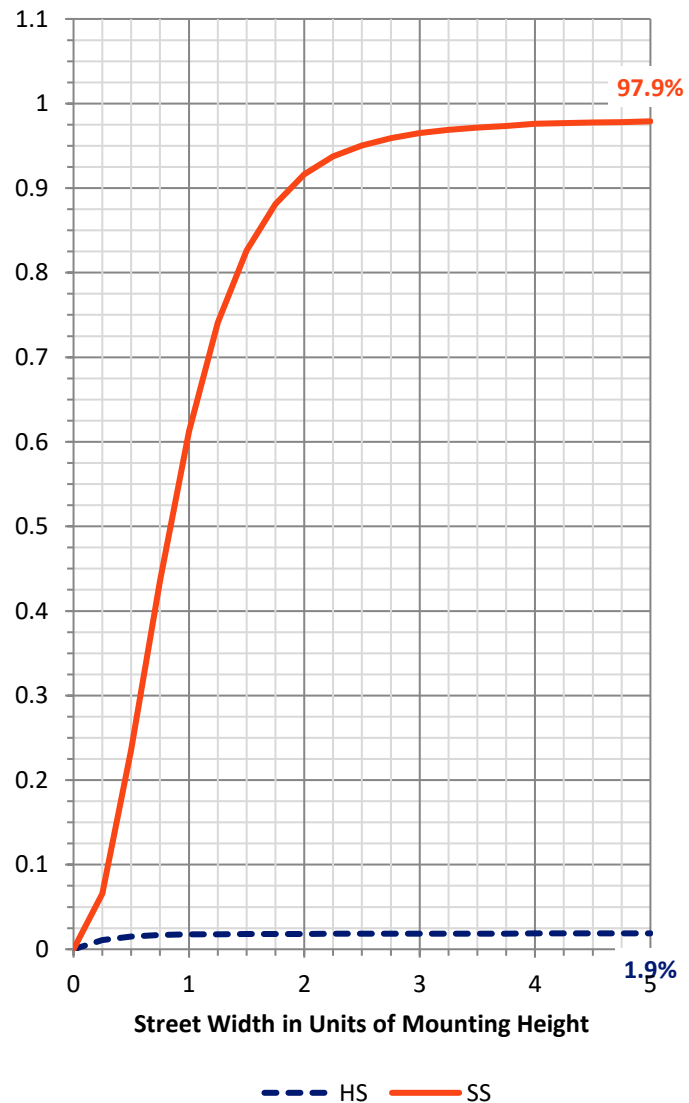
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	48.1	0.0	48.1
	% Fixture	1.9	0.0	1.9
<b>Street Side</b>	Lumens	2466.3	0.0	2466.3
	% Fixture	98.1	0.0	98.1
<b>Total</b>	Lumens	2514.4	0.0	2514.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.7	0.3
10°-20°	45.5	1.8
20°-30°	116.1	4.6
30°-40°	234.9	9.3
40°-50°	429.3	17.1
50°-60°	668.9	26.6
60°-70°	743.5	29.6
70°-80°	242.5	9.6
80°-90°	26.1	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°	2514.4	100.0
0°-180°	2514.4	100.0



REPORT NUMBER: P181163

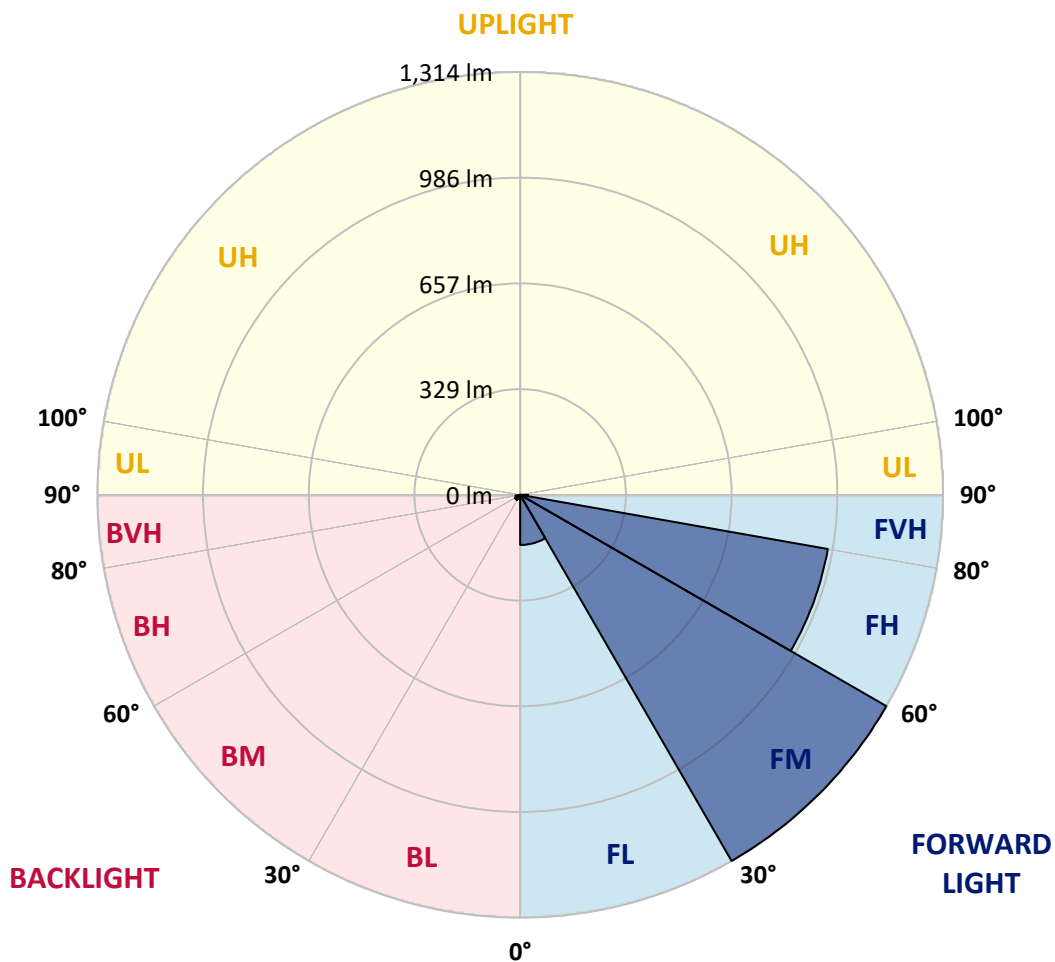
CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.9	6.2			
FM (30°-60°)	1314.5	52.3			
FH (60°-80°)	971.1	38.6			G1/1800
FVH (80°-90°)	24.8	1.0			G1/100
BL (0°-30°)	13.4	0.5	B0/110		
BM (30°-60°)	18.6	0.7	B0/220		
BH (60°-80°)	14.9	0.6	B0/110		G0/110
BVH (80°-90°)	1.3	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 II Short





REPORT NUMBER: P181163

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	75.3	74.3	74.3	72.7	70.7	68.6	66.5	66.0	65.4	64.9	64.9
5°	118.3	114.1	112.6	106.8	99.4	90.5	82.7	80.6	80.6	79.1	78.0
7.5°	185.8	183.7	172.7	167.0	149.7	128.3	105.8	103.6	103.1	101.0	97.9
10°	272.2	268.0	260.1	243.4	212.0	174.8	142.9	137.7	134.0	129.8	125.6
12.5°	358.5	353.3	341.8	314.6	283.2	235.5	184.3	179.5	173.8	168.0	161.2
15°	444.9	441.2	423.4	396.2	355.4	298.3	233.4	225.0	220.4	208.8	203.6
17.5°	519.7	515.1	500.9	470.0	427.6	364.8	287.9	277.4	269.6	262.8	250.2
20°	584.7	579.9	566.3	540.7	493.0	431.3	346.5	341.3	327.2	316.7	309.3
22.5°	624.5	622.9	614.0	589.4	547.0	492.0	413.5	405.1	395.7	381.6	373.2
25°	649.0	647.4	642.2	624.9	596.2	555.8	487.3	476.8	468.5	455.9	445.4
27.5°	674.7	673.6	669.4	654.2	639.1	614.0	562.1	556.4	538.0	530.7	520.7
30°	717.0	712.4	716.0	708.7	689.3	673.6	637.5	629.1	621.3	608.7	599.8
32.5°	784.6	776.7	784.6	776.7	768.4	749.5	715.0	712.4	704.5	696.7	684.1
35°	867.3	864.2	870.4	877.2	870.4	845.3	803.4	795.5	792.5	779.9	775.2
37.5°	950.5	956.3	967.8	983.0	978.8	960.5	901.3	894.0	888.2	877.2	868.8
40°	1040.0	1040.6	1065.1	1087.1	1098.1	1087.1	1009.1	1003.4	995.5	979.8	977.8
42.5°	1137.4	1133.2	1151.5	1176.1	1198.6	1213.8	1151.5	1140.5	1129.5	1111.7	1099.6
45°	1223.7	1223.7	1238.4	1261.4	1295.9	1334.1	1301.7	1290.2	1279.7	1265.1	1251.4
47.5°	1287.5	1288.1	1297.0	1330.5	1384.4	1441.5	1442.5	1444.6	1436.8	1419.5	1420.0
50°	1332.6	1326.8	1338.9	1371.4	1433.6	1523.1	1587.5	1591.2	1597.4	1583.3	1587.5
52.5°	1365.6	1363.0	1370.8	1398.1	1460.3	1569.7	1706.3	1722.1	1731.5	1733.5	1750.8
55°	1348.3	1349.9	1368.8	1408.0	1475.0	1600.6	1807.4	1832.9	1855.0	1873.8	1895.3
57.5°	1291.3	1295.9	1328.9	1390.1	1478.1	1625.7	1914.6	1953.9	1995.3	2045.5	2087.9
60°	1200.2	1211.2	1255.6	1341.5	1447.7	1592.8	1946.5	2006.7	2070.1	2146.5	2231.8
62.5°	1066.7	1068.8	1098.1	1181.3	1298.6	1417.4	1800.0	1876.9	1960.7	2071.1	2190.4
64°	884.0	902.9	916.5	1008.1	1112.8	1260.8	1606.3	1659.7	1776.5	1912.0	2062.2
65°	729.6	752.1	763.2	854.7	974.6	1115.9	1437.8	1494.9	1617.9	1755.5	1942.9
67.5°	430.2	415.1	447.0	500.9	601.4	768.8	969.9	1013.3	1104.9	1268.8	1418.4
70°	277.4	277.4	306.7	361.7	454.9	583.1	666.3	648.0	667.4	730.7	836.4
72.5°	178.0	187.3	205.2	251.7	338.1	488.8	680.9	594.6	549.6	528.7	527.6
75°	81.1	86.3	105.8	133.5	180.6	318.8	686.7	649.0	607.6	567.9	537.0
77.5°	17.3	19.9	33.5	69.1	87.9	147.1	487.3	543.8	588.8	602.0	602.0
80°	8.9	9.4	14.1	32.5	37.7	49.8	187.9	247.1	304.7	380.6	460.1
82.5°	3.6	4.2	8.4	14.7	15.7	15.2	49.8	62.8	86.3	125.6	187.3
85°	1.0	1.0	3.6	5.8	8.4	6.8	11.0	12.6	16.2	23.5	45.0
87.5°	0.0	0.0	0.6	1.0	1.6	2.6	3.2	3.2	3.2	3.2	3.2
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: P181163  
 CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	64.4	64.4	63.8	63.3	63.3	62.3	62.3	61.8	61.8	61.2	61.2
5°	77.5	76.4	75.3	73.8	73.3	72.2	71.2	70.1	69.1	68.6	67.5
7.5°	96.3	95.3	92.1	90.0	87.4	85.9	83.7	82.1	80.6	79.5	77.5
10°	121.4	117.8	116.2	108.8	107.3	103.6	100.5	98.4	94.2	91.6	89.0
12.5°	157.0	150.2	147.6	135.1	131.3	126.1	122.5	117.2	112.6	109.4	104.7
15°	197.3	192.1	182.1	169.6	162.8	157.0	148.1	143.9	137.7	130.9	124.1
17.5°	245.5	236.1	225.0	208.8	200.5	191.5	183.2	174.3	163.8	157.6	150.2
20°	301.5	291.5	278.0	257.5	247.5	238.7	224.0	217.8	205.2	192.7	183.2
22.5°	362.7	352.7	339.7	316.7	303.5	288.9	276.8	265.9	251.3	238.7	227.7
25°	431.8	420.3	410.3	383.6	367.4	352.3	339.2	319.8	307.3	292.6	277.4
27.5°	510.3	496.7	483.6	454.3	439.2	422.4	406.7	386.2	374.2	350.1	336.0
30°	590.9	574.1	560.6	530.7	517.1	499.8	478.4	460.1	439.6	423.4	400.4
32.5°	675.7	662.1	651.1	619.7	602.4	581.0	561.6	542.2	524.5	498.3	477.3
35°	766.2	754.2	742.2	715.0	699.8	683.5	661.6	638.1	613.4	586.2	567.4
37.5°	861.5	852.1	842.7	809.7	791.9	774.6	749.5	726.0	704.0	675.2	643.3
40°	961.5	952.6	937.4	910.2	891.4	875.6	852.7	830.6	800.8	768.8	740.7
42.5°	1087.1	1067.7	1054.7	1024.8	1004.9	987.6	967.3	934.2	909.1	871.0	843.7
45°	1234.2	1215.9	1194.4	1164.1	1139.4	1111.2	1082.4	1059.9	1028.5	994.0	958.9
47.5°	1399.6	1384.9	1359.8	1330.0	1305.4	1277.1	1243.1	1214.3	1176.1	1135.8	1088.2
50°	1581.8	1566.5	1549.8	1516.3	1491.7	1465.0	1438.3	1404.3	1369.8	1321.6	1272.4
52.5°	1750.8	1754.0	1744.0	1728.3	1716.3	1688.5	1663.9	1631.5	1601.1	1557.1	1518.9
55°	1917.8	1944.9	1955.5	1970.6	1975.8	1953.3	1952.8	1905.2	1886.9	1861.2	1839.3
57.5°	2138.2	2198.3	2246.0	2338.1	2376.8	2416.0	2423.4	2389.9	2424.4	2379.9	2395.1
60°	2325.5	2435.9	2554.2	2792.4	2911.7	3001.8	3074.0	3127.4	3161.9	3220.6	3223.6
62.5°	2342.2	2516.0	2696.1	3043.6	3206.9	3343.6	3473.9	3565.0	3637.1	3703.7	3719.8
64°	2262.2	2477.3	2696.1	3116.4	3283.4	3435.1	3554.0	3644.5	3718.3	3759.7	3786.8
65°	2116.7	2357.4	2609.2	3068.2	3240.4	3401.6	3515.2	3606.3	3675.9	3717.2	3745.5
67.5°	1568.1	1801.0	2053.9	2588.3	2859.4	3007.0	3152.5	3280.2	3336.2	3388.6	3398.5
70°	955.7	1124.8	1299.1	1794.8	2046.5	2311.9	2475.7	2662.6	2793.4	2874.1	2900.8
72.5°	576.8	635.4	739.5	1006.0	1247.3	1433.6	1660.3	1838.7	1985.3	2066.4	2107.3
75°	513.5	506.1	519.7	630.7	716.6	828.6	910.7	1022.7	1113.3	1141.6	1194.4
77.5°	593.6	572.7	551.2	530.2	526.0	515.5	498.8	503.0	463.3	425.0	426.0
80°	528.7	578.9	608.7	586.7	537.0	486.8	425.0	348.1	272.2	225.0	205.2
82.5°	265.4	377.4	485.2	592.0	584.7	540.2	472.1	387.8	300.5	230.8	184.3
85°	81.7	145.0	204.1	283.7	329.2	323.0	283.7	275.8	196.8	153.4	118.3
87.5°	3.6	3.6	3.6	3.2	3.6	3.6	3.6	4.2	4.2	4.7	4.7
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: P181163

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	61.2	60.7	60.2	59.6	59.6	59.6	59.2	59.2	58.6	58.6	58.1
5°	67.5	66.5	66.0	64.9	64.9	63.8	63.3	62.8	61.8	61.2	60.7
7.5°	75.9	74.9	73.3	71.7	71.2	69.6	68.0	67.0	66.0	64.9	63.8
10°	86.9	84.8	81.7	79.5	78.0	75.9	73.8	72.2	70.1	68.0	67.0
12.5°	101.0	96.8	93.7	90.0	86.9	83.7	80.1	78.0	75.9	72.7	70.7
15°	117.2	113.0	109.4	103.1	97.9	93.7	90.5	85.9	82.1	78.0	74.9
17.5°	145.0	134.0	126.7	120.4	115.2	107.3	101.0	95.8	91.1	85.9	82.1
20°	172.2	162.8	152.8	145.5	134.0	127.2	118.8	111.4	103.1	96.8	90.5
22.5°	212.0	199.9	187.3	176.4	160.7	151.3	140.3	130.9	120.4	110.0	103.1
25°	262.2	244.5	227.7	212.0	197.3	183.2	169.0	153.9	142.9	130.3	118.8
27.5°	315.1	295.2	279.0	258.6	239.7	222.4	204.7	188.5	169.6	153.4	139.7
30°	381.6	354.3	335.5	310.9	292.1	268.0	246.0	224.6	201.5	182.7	163.3
32.5°	449.1	430.8	398.8	377.9	349.7	320.8	297.9	273.2	244.9	220.4	196.8
35°	538.0	506.7	480.0	450.7	419.8	390.0	360.1	325.0	296.3	265.9	237.1
37.5°	616.6	584.7	553.8	515.5	480.5	449.1	412.9	376.4	342.3	306.2	271.6
40°	707.6	667.9	631.3	595.6	552.2	515.1	477.3	431.8	392.6	352.7	311.9
42.5°	807.1	766.8	723.4	682.5	634.9	589.4	542.8	497.2	453.3	405.1	357.5
45°	916.0	873.6	824.9	778.3	726.5	676.3	620.7	568.4	516.6	462.7	407.7
47.5°	1051.0	996.6	951.5	893.5	829.1	776.2	708.2	648.5	589.4	526.5	464.7
50°	1225.9	1164.1	1099.2	1034.8	963.6	896.6	821.2	750.6	671.5	601.4	530.7
52.5°	1457.7	1411.6	1336.3	1262.4	1175.5	1090.2	986.6	895.0	793.5	704.0	617.6
55°	1786.9	1756.6	1691.2	1610.5	1534.6	1410.1	1290.7	1148.4	1016.5	887.7	766.2
57.5°	2383.1	2350.1	2277.3	2258.0	2141.2	2049.7	1909.9	1725.7	1502.1	1305.4	1109.1
60°	3241.5	3177.0	3105.9	3092.9	2955.6	2859.4	2720.7	2524.4	2314.0	1999.9	1732.5
62.5°	3721.0	3701.5	3643.9	3573.3	3454.5	3311.6	3155.6	2965.6	2752.1	2476.8	2158.5
64°	3785.3	3767.5	3717.8	3638.3	3518.9	3377.0	3204.3	3014.8	2800.8	2549.5	2259.0
65°	3745.0	3719.8	3677.5	3604.2	3493.2	3357.1	3183.4	2991.3	2774.1	2532.3	2262.2
67.5°	3419.9	3408.4	3369.7	3301.7	3232.0	3109.6	2956.8	2785.0	2607.6	2367.9	2146.5
70°	2903.8	2895.5	2846.2	2819.1	2703.9	2626.4	2502.9	2367.9	2210.9	2043.9	1855.5
72.5°	2152.8	2124.5	2084.8	2043.4	1965.4	1859.2	1762.8	1618.9	1537.8	1396.9	1290.7
75°	1141.6	1123.7	1062.0	975.6	879.4	829.6	729.6	640.1	568.9	537.0	460.1
77.5°	394.6	359.5	325.0	286.3	227.2	179.0	142.9	114.1	90.0	79.5	66.5
80°	196.8	186.9	175.9	153.9	129.3	104.2	81.7	64.4	52.8	45.0	40.3
82.5°	159.6	141.3	126.1	110.4	88.5	72.7	57.6	47.1	38.7	34.0	29.9
85°	94.2	72.2	55.0	49.8	38.7	33.5	28.7	24.6	20.9	19.9	18.3
87.5°	3.6	4.7	4.7	3.6	4.7	4.2	4.2	3.6	3.6	3.6	3.6
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: P181163

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	58.1	57.6	57.6	57.0	56.6	56.6	56.6	56.0	55.0	52.8	51.3
5°	60.2	59.6	59.2	58.1	57.6	57.0	56.6	56.6	54.0	50.2	47.6
7.5°	62.8	61.8	60.7	59.6	59.2	58.1	57.0	56.6	52.8	48.2	45.6
10°	65.4	63.8	62.3	61.8	60.2	59.2	57.6	56.6	52.4	46.6	42.9
12.5°	68.6	66.5	64.4	62.8	60.7	59.6	58.1	56.6	51.3	45.0	40.8
15°	72.2	69.1	66.5	64.9	62.8	60.2	58.1	56.6	50.2	43.4	38.7
17.5°	76.9	73.3	70.1	67.0	63.8	61.2	59.2	57.0	48.7	41.4	36.1
20°	84.3	79.5	74.3	70.7	66.5	63.3	59.6	57.0	47.6	39.3	34.0
22.5°	94.2	86.9	81.1	74.9	69.6	65.4	61.2	58.1	46.0	37.1	31.4
25°	108.4	98.9	89.5	81.7	74.9	69.1	63.8	59.6	45.0	35.6	29.9
27.5°	124.1	113.0	100.5	91.1	81.7	73.3	67.5	62.3	45.0	34.5	28.3
30°	146.0	130.3	115.2	103.1	90.5	81.1	72.7	66.0	45.0	34.0	26.7
32.5°	172.7	154.9	135.5	118.3	103.6	90.0	79.5	70.7	46.0	32.9	25.7
35°	209.9	183.7	160.7	139.3	119.8	104.2	90.5	78.5	47.6	32.5	24.1
37.5°	239.2	207.8	178.5	153.9	131.3	112.0	94.7	81.7	46.0	30.3	22.5
40°	274.2	238.7	203.1	172.2	146.5	121.4	101.6	85.9	45.0	27.7	20.4
42.5°	316.7	272.2	230.8	195.7	163.8	134.0	110.4	91.1	45.0	26.1	18.9
45°	356.5	307.7	261.7	217.8	180.6	147.6	118.8	96.8	44.5	24.6	16.7
47.5°	405.7	348.1	294.1	243.4	200.5	160.2	127.7	102.0	44.0	23.1	15.2
50°	463.7	393.6	332.9	272.2	219.8	175.3	138.1	107.8	42.9	21.5	13.6
52.5°	528.1	452.7	375.3	305.1	243.9	191.5	148.1	113.0	41.4	19.9	12.0
55°	642.2	538.6	447.0	360.1	280.6	215.6	162.8	120.9	39.8	18.3	10.5
57.5°	916.0	744.3	614.5	483.6	369.5	276.8	202.5	143.4	37.7	16.2	8.4
60°	1438.3	1155.2	934.8	733.3	559.0	425.0	298.3	212.0	40.3	13.6	7.3
62.5°	1845.0	1519.5	1238.9	986.1	765.8	582.1	434.4	316.7	58.1	12.0	5.8
64°	1951.3	1621.5	1322.1	1057.3	828.0	638.5	484.7	358.0	74.9	12.0	5.2
65°	1967.0	1652.9	1352.0	1083.4	849.5	653.8	499.4	371.6	81.7	12.6	4.7
67.5°	1902.1	1634.6	1360.8	1094.4	865.7	674.7	519.3	393.1	92.1	12.0	3.6
70°	1661.3	1464.5	1239.4	1023.8	816.6	641.2	499.4	381.0	96.3	11.5	3.2
72.5°	1130.5	995.0	862.1	709.2	568.4	468.5	364.3	268.5	67.5	9.4	2.6
75°	376.8	367.4	328.7	249.1	209.4	170.1	136.1	104.7	25.7	5.8	2.6
77.5°	62.8	54.0	47.1	45.0	37.7	36.7	31.9	25.7	11.0	3.6	2.6
80°	36.7	33.5	29.3	26.1	23.1	20.4	17.3	14.7	6.8	2.6	3.2
82.5°	27.3	24.1	21.5	18.9	16.2	14.1	12.0	10.0	3.6	2.6	3.2
85°	15.7	13.6	12.0	10.5	8.4	7.3	6.3	5.2	2.6	2.6	2.6
87.5°	3.2	3.2	2.6	2.6	2.6	2.6	2.6	2.1	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



REPORT NUMBER: P181163

CATALOG NUMBER: ICM-E02-LED-E1-T2-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	56.0	56.0	56.0	56.0	56.0	56.0	56.0
2.5°	50.2	48.7	48.2	48.2	48.2	48.2	48.2
5°	46.0	44.5	43.4	42.9	42.9	42.9	42.9
7.5°	42.9	40.8	39.8	38.7	38.7	38.2	38.2
10°	39.8	37.7	36.1	35.1	34.5	34.5	34.5
12.5°	37.1	35.1	32.9	31.9	31.9	31.4	31.4
15°	35.1	31.9	30.3	29.3	29.3	28.7	28.7
17.5°	32.5	29.9	28.3	27.3	26.7	26.7	26.7
20°	29.9	27.3	25.7	25.1	24.6	24.6	24.1
22.5°	27.7	25.1	23.5	23.1	22.5	22.5	22.0
25°	25.7	23.1	21.5	20.9	20.4	19.9	19.9
27.5°	24.1	21.5	19.9	18.9	18.3	17.8	17.8
30°	22.5	19.3	17.8	16.7	16.2	15.7	15.7
32.5°	20.9	17.8	15.7	14.7	14.1	13.6	13.6
35°	18.9	15.7	13.6	13.1	12.6	12.0	11.5
37.5°	17.3	13.6	12.0	11.0	10.5	10.0	10.0
40°	15.2	12.0	10.5	9.4	8.4	7.8	7.8
42.5°	13.6	10.5	8.9	7.3	6.8	6.3	6.3
45°	12.0	9.4	7.3	5.8	5.2	4.7	4.7
47.5°	10.5	7.8	5.8	4.7	4.2	3.6	3.6
50°	8.9	6.3	4.2	3.2	3.6	3.2	3.2
52.5°	7.8	4.7	3.2	3.2	3.2	3.2	3.2
55°	6.3	3.6	2.6	2.6	3.2	3.2	3.2
57.5°	5.2	2.6	2.1	2.6	2.6	2.6	2.6
60°	3.6	2.1	2.1	2.6	2.6	2.6	2.6
62.5°	3.2	2.1	2.1	2.1	2.6	2.6	2.6
64°	2.6	2.1	2.1	2.1	2.6	2.6	2.6
65°	2.6	2.1	2.1	2.1	2.6	2.6	2.6
67.5°	2.6	2.1	2.1	2.1	2.6	2.6	2.6
70°	2.1	2.1	2.1	2.1	2.6	2.6	2.6
72.5°	2.1	2.1	2.1	2.1	2.6	2.6	2.6
75°	2.1	2.1	2.1	2.1	2.6	2.6	2.6
77.5°	2.1	2.1	2.1	2.6	2.6	2.6	2.6
80°	2.1	2.1	2.1	2.6	2.6	2.6	2.6
82.5°	2.1	2.1	2.1	2.6	2.6	2.6	2.6
85°	2.1	2.1	2.1	2.6	2.6	2.6	2.6
87.5°	2.1	2.1	2.1	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)