

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: P181632

Luminaire Tested: **ICM-F02-LED-E1-T4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181632
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F02-LED-E1-T4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3917.3 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
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

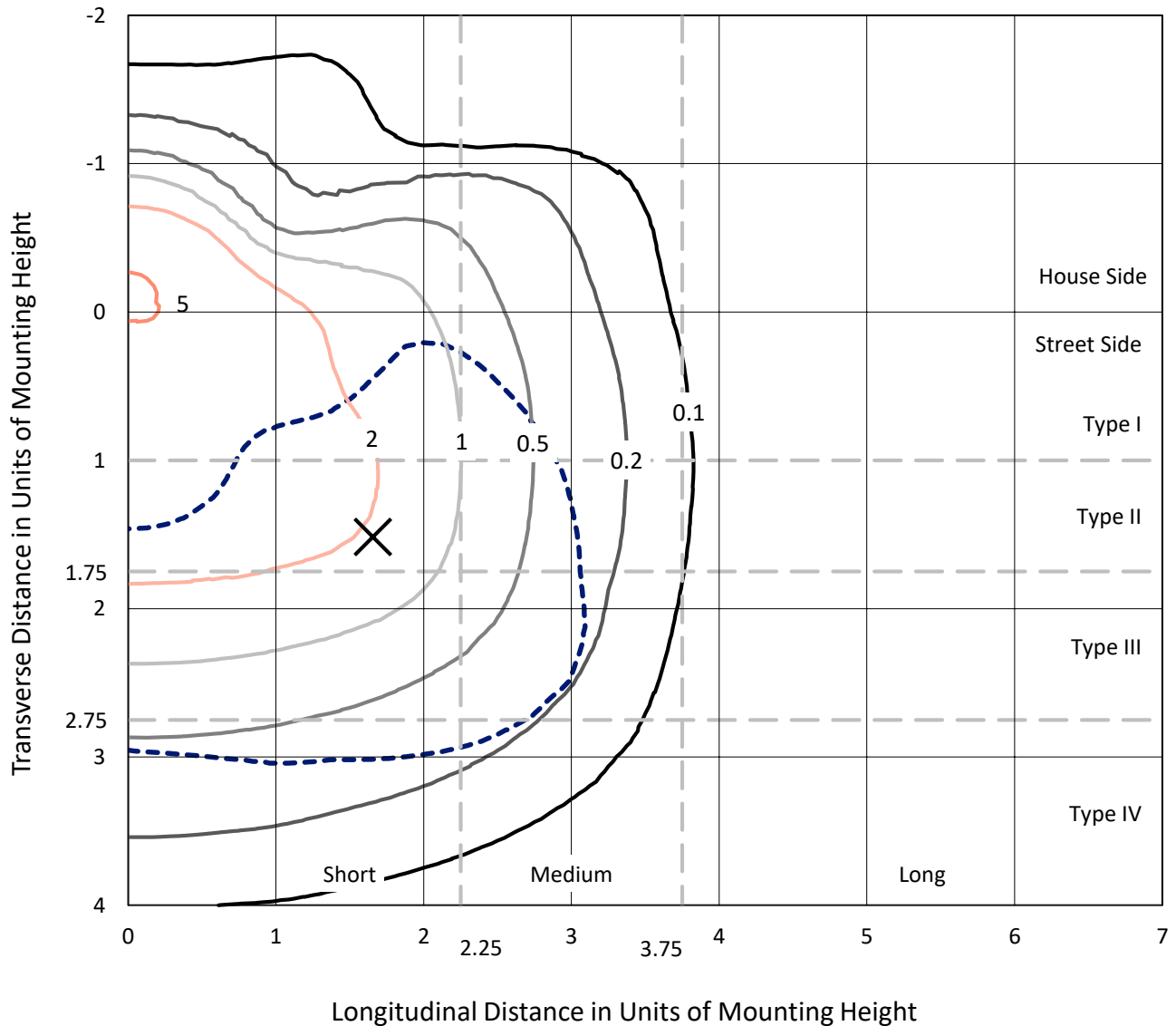


REPORT NUMBER: P181632

CATALOG NUMBER: ICM-F02-LED-E1-T4-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

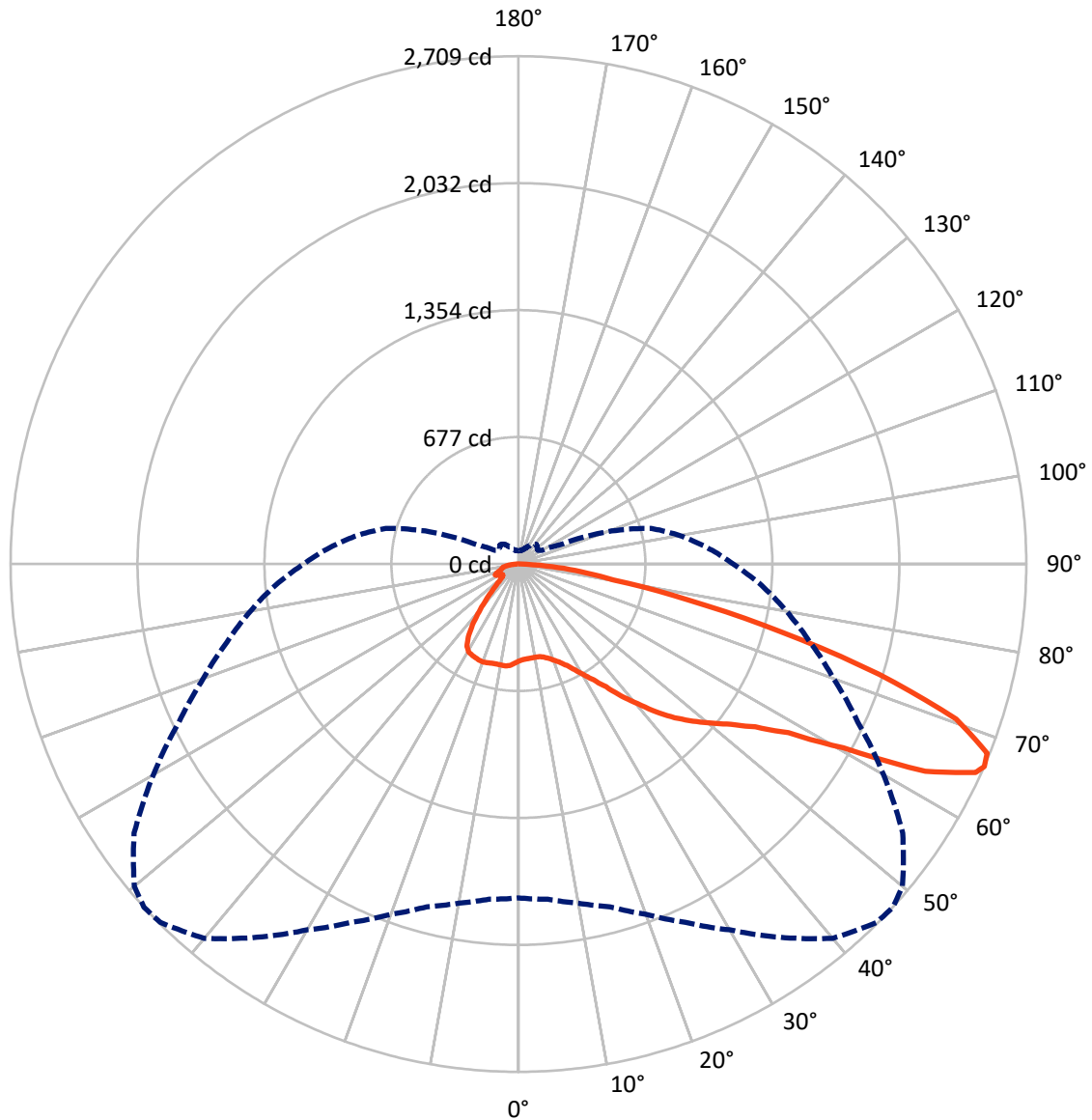


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181632

CATALOG NUMBER: ICM-F02-LED-E1-T4-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P181632

CATALOG NUMBER: ICM-F02-LED-E1-T4-8030

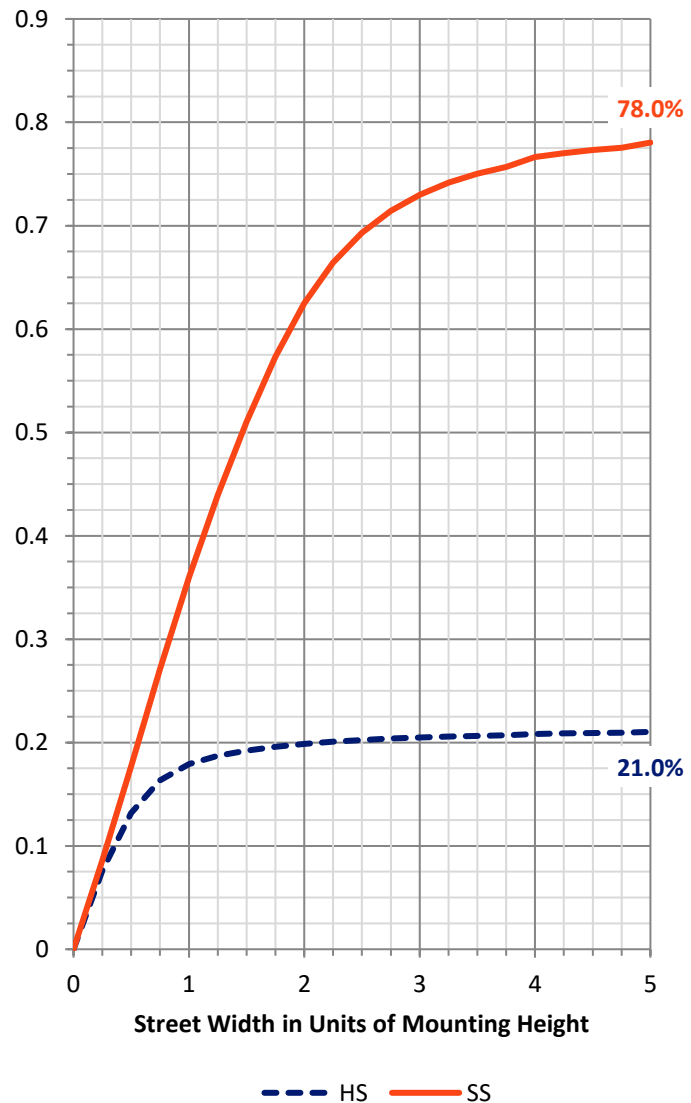
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.9	0.0	835.9
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3081.5	0.0	3081.5
	% Fixture	78.7	0.0	78.7
Total	Lumens	3917.3	0.0	3917.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	1.3
10°-20°	152.2	3.9
20°-30°	262.2	6.7
30°-40°	396.7	10.1
40°-50°	514.2	13.1
50°-60°	708.9	18.1
60°-70°	1101.4	28.1
70°-80°	640.5	16.3
80°-90°	91.1	2.3
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°	3917.3	100.0
0°-180°	3917.3	100.0



REPORT NUMBER: P181632

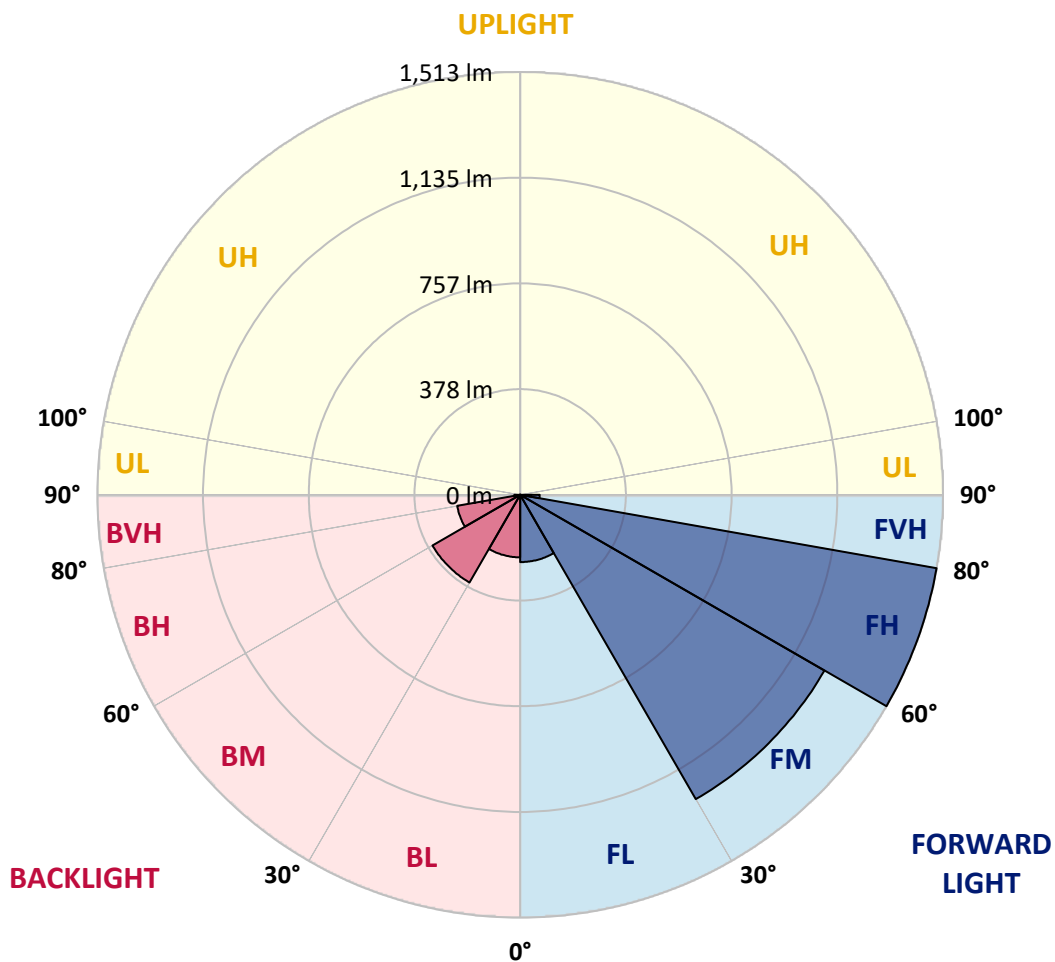
CATALOG NUMBER: ICM-F02-LED-E1-T4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.8	6.1			
FM	(30°-60°)	1257.5	32.1			
FH	(60°-80°)	1513.3	38.6			G1/1800
FVH	(80°-90°)	69.9	1.8			G1/100
BL	(0°-30°)	223.7	5.7	B1/500		
BM	(30°-60°)	362.3	9.2	B1/1000		
BH	(60°-80°)	228.6	5.8	B1/500		G1/500
BVH	(80°-90°)	21.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





REPORT NUMBER: P181632

CATALOG NUMBER: ICM-F02-LED-E1-T4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4
2.5°	506.8	508.6	507.3	507.7	507.7	508.1	508.1	508.6	508.1	509.4	510.3
5°	497.8	498.6	498.2	499.1	499.9	501.7	501.2	503.4	503.8	505.1	507.3
7.5°	494.3	493.4	493.9	495.2	496.0	496.9	497.8	499.5	500.7	503.8	505.6
10°	497.8	497.3	497.8	498.6	498.6	499.1	498.2	499.9	500.7	503.4	505.1
12.5°	512.0	512.0	511.2	511.2	510.3	509.4	507.3	506.0	505.6	506.0	506.8
15°	534.9	534.0	532.4	531.1	529.3	526.2	523.3	520.7	519.0	516.4	515.4
17.5°	557.4	556.1	554.3	552.7	550.5	547.4	542.7	539.6	534.9	531.9	530.1
20°	583.4	580.7	578.6	576.4	572.1	571.3	566.4	561.3	555.6	548.7	547.9
22.5°	617.0	612.7	610.1	608.8	604.5	603.2	595.4	588.1	581.1	572.1	570.0
25°	651.2	646.8	645.5	643.8	640.7	639.1	631.7	623.5	614.4	601.9	599.3
27.5°	684.5	684.8	681.4	682.7	681.9	678.8	671.4	663.3	656.4	641.7	638.6
30°	725.9	723.4	721.6	724.2	721.1	721.6	715.1	710.8	699.5	690.9	684.8
32.5°	769.1	768.7	771.3	773.0	772.6	771.7	766.5	762.2	752.3	739.7	737.1
35°	828.3	830.9	833.0	840.8	840.8	846.4	841.3	836.1	824.4	809.3	804.1
37.5°	868.5	869.4	878.0	888.4	901.3	913.4	916.8	918.1	913.4	902.2	894.4
40°	905.2	907.0	920.7	936.7	955.8	979.5	993.8	1000.3	1001.6	996.4	979.5
42.5°	942.0	944.6	958.8	982.1	1008.5	1038.7	1063.8	1079.8	1088.8	1088.8	1078.9
45°	984.8	988.2	1003.7	1029.2	1059.9	1098.0	1132.5	1163.2	1177.9	1178.7	1169.2
47.5°	1035.3	1038.3	1056.5	1082.3	1114.0	1152.4	1196.0	1231.0	1258.2	1260.0	1252.2
50°	1100.6	1104.8	1120.0	1143.3	1175.7	1214.6	1258.2	1307.1	1335.5	1342.5	1334.2
52.5°	1187.0	1187.8	1200.4	1222.0	1253.5	1290.6	1336.8	1390.1	1427.6	1433.2	1419.8
55°	1306.2	1304.9	1313.1	1336.5	1360.2	1389.1	1437.1	1496.8	1538.7	1547.3	1533.5
57.5°	1468.2	1466.9	1473.9	1479.5	1524.0	1552.0	1599.2	1656.2	1696.8	1721.9	1698.1
60°	1719.3	1718.0	1729.2	1762.1	1795.4	1836.4	1882.2	1950.4	2007.5	2014.8	1991.5
62.5°	1901.2	1907.6	1932.3	1970.7	2038.2	2118.5	2202.3	2292.2	2409.3	2446.4	2435.3
65°	1837.7	1850.6	1884.8	1943.1	2032.9	2144.0	2275.4	2438.2	2595.1	2682.8	2680.2
66°	1780.7	1794.9	1836.8	1892.9	1988.0	2109.4	2252.9	2430.5	2605.9	2702.7	2708.8
67.5°	1676.9	1692.9	1734.0	1800.5	1892.9	2022.2	2176.4	2369.6	2567.9	2680.7	2696.7
70°	1475.2	1493.3	1523.1	1578.0	1669.1	1784.5	1947.0	2119.8	2327.6	2456.9	2476.3
72.5°	1233.2	1249.1	1282.4	1327.4	1402.1	1474.7	1602.1	1729.7	1878.2	2025.6	2011.4
75°	885.3	892.3	912.1	960.9	1001.1	1066.4	1168.8	1273.4	1374.9	1442.3	1451.8
77.5°	460.2	478.3	506.4	560.4	604.1	662.8	729.4	808.0	882.3	944.1	927.3
80°	301.1	308.9	334.0	361.7	393.7	431.3	475.7	505.1	514.6	510.7	514.6
82.5°	173.7	188.0	221.2	242.4	266.1	279.2	314.5	348.3	367.3	343.5	334.9
85°	22.0	28.6	89.9	113.2	129.6	149.0	159.9	180.2	168.1	150.3	183.2
87.5°	4.7	4.3	6.0	12.9	13.4	11.3	21.2	22.5	13.9	6.9	8.7
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: P181632

CATALOG NUMBER: ICM-F02-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4
2.5°	511.2	511.6	512.5	513.8	514.6	515.4	516.4	517.7	518.5	519.4	521.1
5°	509.0	510.7	512.5	514.1	516.4	519.8	522.0	523.7	525.4	528.8	530.1
7.5°	507.7	510.7	513.3	516.4	519.8	522.8	526.7	528.8	531.4	533.6	536.2
10°	506.8	511.2	513.8	518.0	522.0	525.0	529.3	531.9	534.9	537.5	538.8
12.5°	508.6	510.7	513.3	517.7	522.4	526.7	531.4	533.6	536.2	538.4	538.8
15°	515.9	515.9	516.4	519.8	524.6	528.0	531.9	534.0	535.4	536.7	536.7
17.5°	529.3	526.2	524.1	524.6	527.5	529.8	531.9	531.9	531.1	530.6	529.8
20°	544.8	540.9	536.7	533.6	532.7	531.1	529.8	525.4	522.0	519.0	516.7
22.5°	567.4	561.3	555.3	549.6	544.5	538.0	530.6	522.0	513.8	508.1	504.7
25°	595.0	590.2	582.9	574.2	567.7	555.6	546.1	533.6	523.3	515.9	509.9
27.5°	634.3	628.7	621.8	614.0	604.5	591.1	579.4	564.7	552.2	541.4	533.6
30°	683.2	675.8	670.6	661.1	654.6	639.4	627.8	609.7	585.5	568.2	557.4
32.5°	733.2	725.0	720.7	713.4	706.1	696.9	679.3	651.2	620.0	592.0	573.4
35°	800.2	791.5	783.8	777.3	766.5	749.7	734.1	700.4	657.7	618.3	587.2
37.5°	884.5	870.2	850.8	834.3	815.4	791.2	767.4	732.8	684.0	633.0	591.5
40°	974.3	949.3	921.7	891.0	858.1	823.2	795.9	760.9	706.1	645.5	588.5
42.5°	1068.1	1028.4	989.9	946.7	900.9	859.4	824.0	785.5	722.4	649.0	576.4
45°	1161.0	1116.5	1058.1	1001.6	943.6	892.3	852.5	809.3	737.6	650.3	560.4
47.5°	1238.0	1192.1	1125.6	1054.7	986.1	927.7	881.0	834.3	757.9	659.4	556.6
50°	1319.2	1263.4	1189.5	1105.7	1027.9	962.7	913.0	864.6	786.4	682.7	569.0
52.5°	1407.7	1343.8	1257.4	1163.6	1078.5	1005.5	951.4	901.8	822.7	715.5	592.8
55°	1515.7	1437.6	1343.8	1238.0	1146.8	1066.0	1006.3	947.5	865.9	754.4	622.6
57.5°	1680.8	1584.9	1479.5	1358.9	1257.8	1162.3	1091.0	1023.2	932.8	812.3	663.3
60°	1979.4	1876.9	1740.0	1594.0	1475.2	1363.6	1259.1	1174.8	1063.8	926.4	753.1
62.5°	2407.2	2271.1	2088.3	1883.9	1728.4	1567.6	1449.7	1324.4	1186.5	1038.3	859.0
65°	2644.8	2479.7	2235.2	1998.0	1797.9	1623.4	1473.4	1328.2	1175.3	1033.6	883.6
66°	2674.2	2502.2	2248.1	1998.4	1788.4	1609.1	1451.4	1301.0	1144.6	1009.3	873.2
67.5°	2662.1	2486.2	2224.4	1960.8	1747.4	1554.6	1391.7	1235.7	1079.8	953.6	838.7
70°	2463.7	2296.9	2039.9	1784.5	1581.9	1391.7	1236.2	1082.8	939.8	831.7	747.1
72.5°	2046.0	1903.4	1679.9	1479.5	1320.5	1163.6	1031.8	885.3	764.4	684.5	634.3
75°	1476.8	1390.4	1187.0	1072.0	932.5	828.3	700.4	613.6	526.7	487.8	479.2
77.5°	932.8	816.7	687.4	566.0	465.4	385.9	300.3	254.9	212.6	208.3	251.4
80°	472.3	425.2	327.5	261.0	219.5	177.6	140.5	106.3	74.3	89.4	107.2
82.5°	309.4	258.0	202.2	166.3	144.7	120.1	93.3	64.8	47.5	53.6	73.5
85°	167.3	142.6	115.0	90.7	73.5	65.7	44.1	31.1	30.7	32.8	42.0
87.5°	12.1	12.1	9.5	8.7	10.3	8.7	7.8	7.8	7.3	7.8	10.3
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: P181632

CATALOG NUMBER: ICM-F02-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4	516.4
2.5°	522.0	523.3	523.7	525.9	527.2	528.0	528.8	528.8	529.3	530.6	531.1
5°	531.9	534.0	536.7	538.4	539.3	541.9	542.7	542.7	543.5	545.3	546.6
7.5°	538.0	540.9	543.5	544.5	546.1	547.0	548.3	549.2	549.2	550.9	551.8
10°	540.1	541.9	544.5	544.5	546.1	546.1	547.4	547.9	547.9	549.6	550.9
12.5°	540.1	540.9	543.2	543.2	544.5	544.8	546.6	547.9	548.3	550.5	552.2
15°	537.5	538.4	540.1	540.6	543.5	545.3	549.2	551.8	551.8	554.0	554.8
17.5°	530.1	532.4	535.8	539.3	544.8	548.7	553.5	555.6	554.0	552.7	551.4
20°	518.0	522.0	530.1	538.8	548.7	554.0	556.6	554.3	548.3	542.2	538.4
22.5°	506.0	513.8	527.5	540.6	551.8	555.3	554.0	546.1	536.2	528.8	523.7
25°	511.6	520.7	534.0	545.8	553.0	552.2	547.0	536.2	525.4	515.9	507.3
27.5°	534.9	544.8	552.2	556.1	555.3	549.2	540.9	528.8	515.9	503.4	491.3
30°	556.9	562.1	563.9	560.8	554.0	544.0	533.6	519.8	502.5	487.0	473.1
32.5°	566.9	561.7	553.5	545.3	534.0	525.4	511.2	496.0	474.4	455.8	442.0
35°	566.9	546.1	525.4	508.1	491.3	480.5	464.1	443.7	423.9	408.3	397.5
37.5°	554.3	514.6	480.5	452.4	431.3	419.5	394.9	376.7	359.9	354.7	347.8
40°	531.4	472.7	423.4	386.7	359.9	342.6	318.0	305.5	299.0	296.4	295.1
42.5°	500.7	426.0	360.4	315.0	286.0	266.6	250.1	242.4	242.0	241.6	241.6
45°	467.9	375.9	299.0	245.0	219.5	202.2	194.4	191.4	194.0	193.6	194.0
47.5°	447.6	337.9	242.8	185.4	166.0	154.7	150.8	152.1	154.2	153.4	153.4
50°	445.0	318.4	205.2	144.3	129.6	124.0	123.2	123.2	124.5	123.5	123.2
52.5°	454.5	315.4	185.8	124.0	112.4	107.6	106.7	106.3	105.9	103.3	101.1
55°	471.0	322.3	180.2	118.8	106.7	101.6	100.3	99.3	97.7	94.2	90.3
57.5°	503.8	343.9	185.4	121.4	108.5	104.1	102.8	102.8	99.3	93.8	88.2
60°	582.9	398.8	206.5	131.3	116.7	112.4	113.2	112.7	107.6	99.3	90.7
62.5°	684.8	470.5	234.2	145.2	127.1	126.1	130.5	129.6	121.0	108.5	95.9
65°	731.9	504.3	242.0	148.2	129.2	133.1	141.8	140.8	130.0	112.7	96.7
66°	732.8	504.3	238.5	145.6	126.1	130.9	139.5	139.2	128.4	111.1	95.1
67.5°	715.1	490.4	228.6	140.5	120.1	123.5	131.3	130.9	121.0	106.7	91.6
70°	648.6	439.0	203.1	131.3	111.9	110.1	112.7	111.1	104.6	94.6	84.3
72.5°	555.6	368.6	177.1	124.5	106.3	99.3	97.7	96.4	91.2	85.6	79.1
75°	437.7	291.6	155.5	119.3	101.1	92.0	89.0	87.3	83.8	79.9	74.8
77.5°	270.0	208.7	135.6	112.4	97.2	88.2	86.0	83.3	78.2	73.5	69.6
80°	120.6	129.2	111.4	98.0	86.9	78.6	75.2	71.3	66.1	63.1	60.9
82.5°	80.4	83.3	80.8	73.5	65.7	59.2	54.0	54.0	53.1	50.5	49.7
85°	51.4	51.8	50.1	45.4	42.3	38.4	36.3	36.7	38.4	38.0	37.6
87.5°	11.6	11.6	13.9	12.9	15.2	16.0	17.3	18.6	21.2	21.2	22.5
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: P181632

CATALOG NUMBER: ICM-F02-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	516.4	516.4	516.4	516.4	516.4
2.5°	531.4	532.4	533.2	531.9	532.4
5°	546.6	546.1	548.3	547.0	547.9
7.5°	551.4	551.8	553.5	553.5	554.0
10°	551.8	552.7	554.8	556.1	556.9
12.5°	554.0	555.6	559.2	560.0	560.0
15°	555.6	556.6	558.7	559.5	560.4
17.5°	549.6	547.9	548.7	549.2	548.7
20°	534.5	532.7	532.4	530.6	531.4
22.5°	518.0	513.3	510.3	506.8	506.8
25°	498.2	490.9	484.8	478.8	480.0
27.5°	479.6	470.1	464.1	460.2	459.4
30°	461.5	451.5	446.0	441.1	441.1
32.5°	431.3	424.3	416.9	414.0	413.5
35°	389.3	385.0	379.0	377.7	375.4
37.5°	342.2	340.9	335.7	335.3	333.1
40°	292.9	293.9	292.1	291.3	290.0
42.5°	243.7	248.0	247.2	246.7	245.9
45°	196.6	199.6	200.1	201.4	203.5
47.5°	154.7	155.5	156.4	156.0	156.4
50°	121.0	118.8	118.4	117.1	118.4
52.5°	97.7	94.2	92.5	90.7	89.9
55°	86.0	82.5	80.8	79.9	79.1
57.5°	83.0	79.5	76.9	75.2	74.8
60°	83.8	78.6	75.2	73.0	72.6
62.5°	86.0	79.1	74.3	72.2	71.7
65°	85.6	78.2	73.9	71.3	70.9
66°	84.3	77.3	73.0	70.9	70.4
67.5°	82.1	76.1	72.2	70.4	69.6
70°	78.2	74.3	71.3	69.1	68.3
72.5°	74.8	71.7	69.1	67.0	66.5
75°	70.9	68.3	65.7	63.9	63.5
77.5°	66.1	63.5	61.8	60.5	60.1
80°	58.3	56.6	54.9	53.1	53.1
82.5°	48.4	47.1	45.4	44.1	43.6
85°	37.1	37.1	35.9	34.6	34.1
87.5°	22.0	21.6	21.6	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0

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