

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: P181679

Luminaire Tested: **ICS-E01-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181679
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: ICS-E01-LED-E1-T4
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2719.9 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

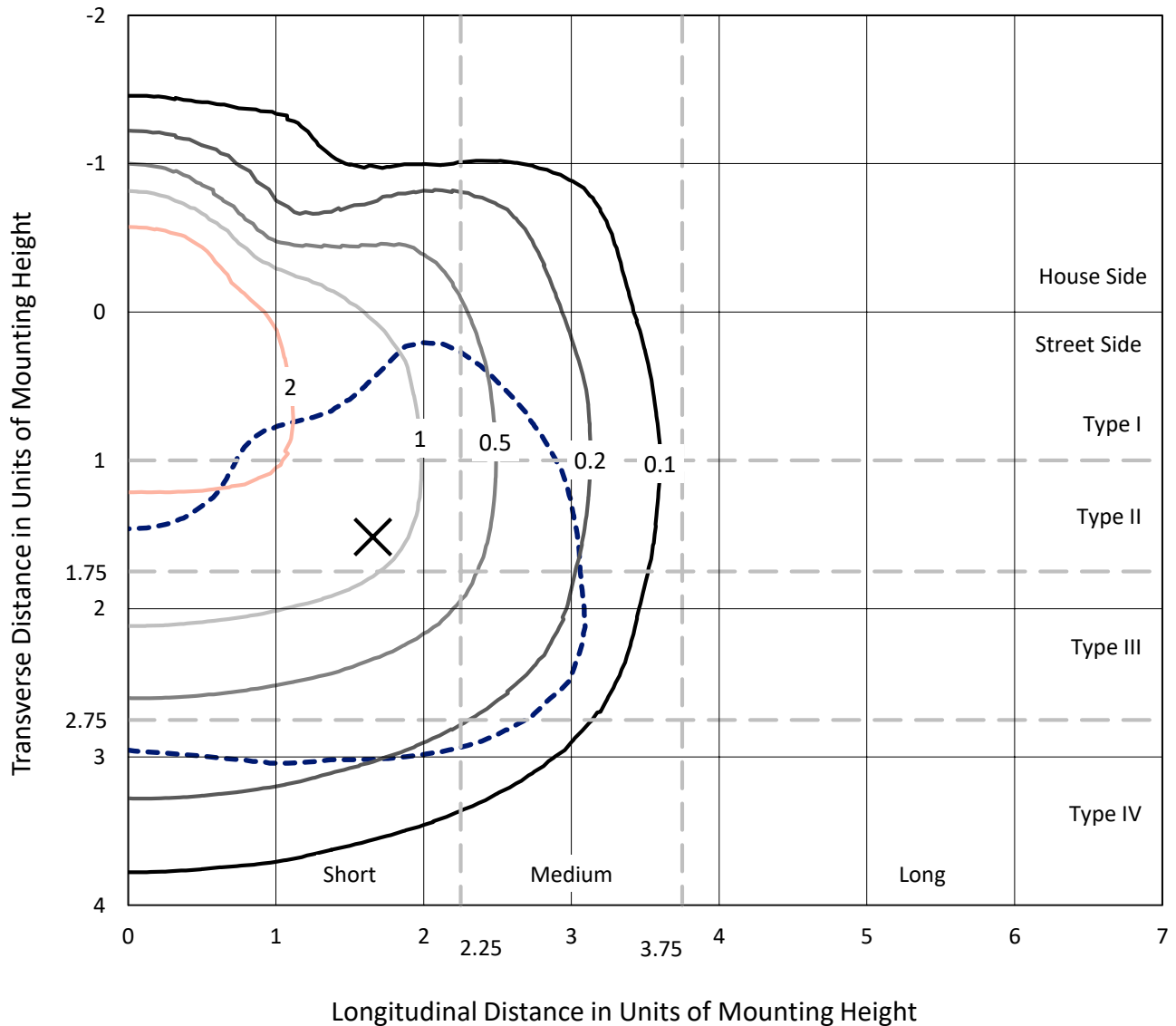
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181679
 CATALOG NUMBER: ICS-E01-LED-E1-T4

Iso-Footcandle Lines of Horizontal Illumination

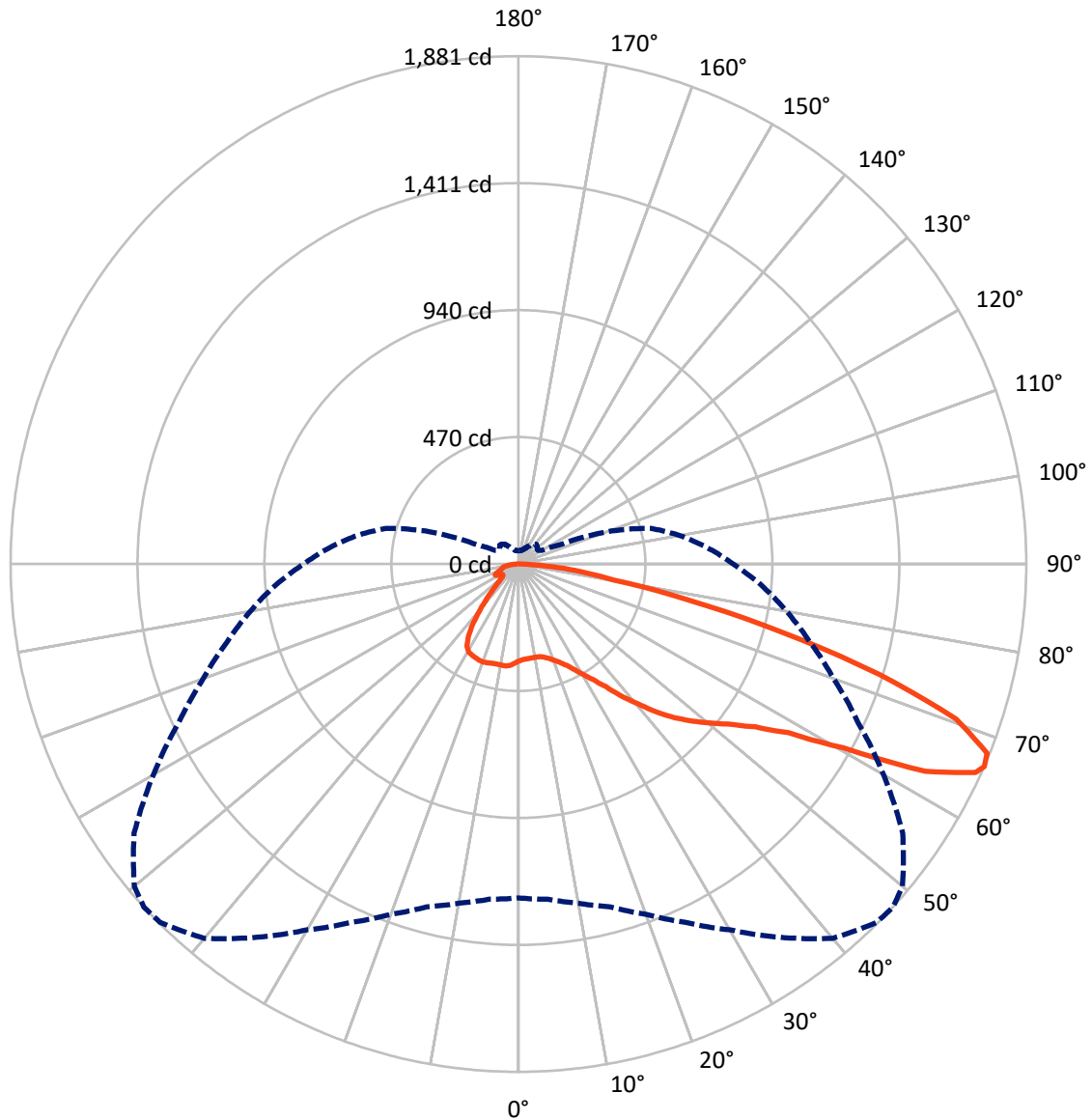
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181679
CATALOG NUMBER: ICS-E01-LED-E1-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P181679

CATALOG NUMBER: ICS-E01-LED-E1-T4

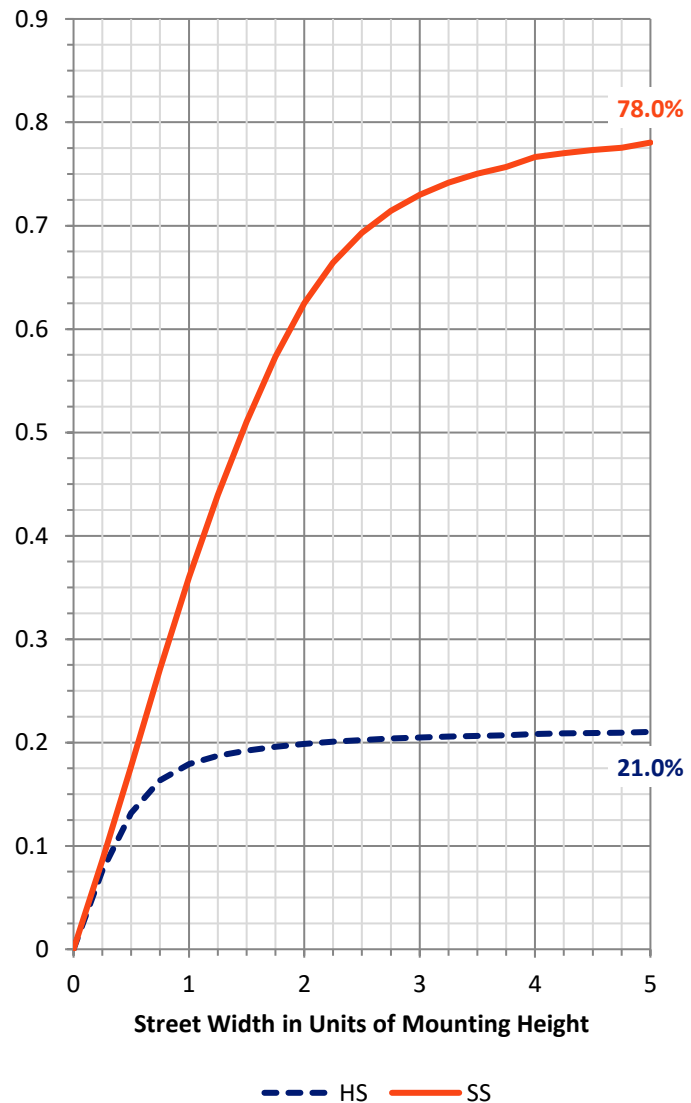
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	580.3	0.0	580.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	2139.6	0.0	2139.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	2719.9	0.0	2719.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.8	1.3
10°-20°	105.7	3.9
20°-30°	182.1	6.7
30°-40°	275.4	10.1
40°-50°	357.0	13.1
50°-60°	492.2	18.1
60°-70°	764.8	28.1
70°-80°	444.7	16.3
80°-90°	63.2	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°	2719.9	100.0
0°-180°	2719.9	100.0



REPORT NUMBER: P181679

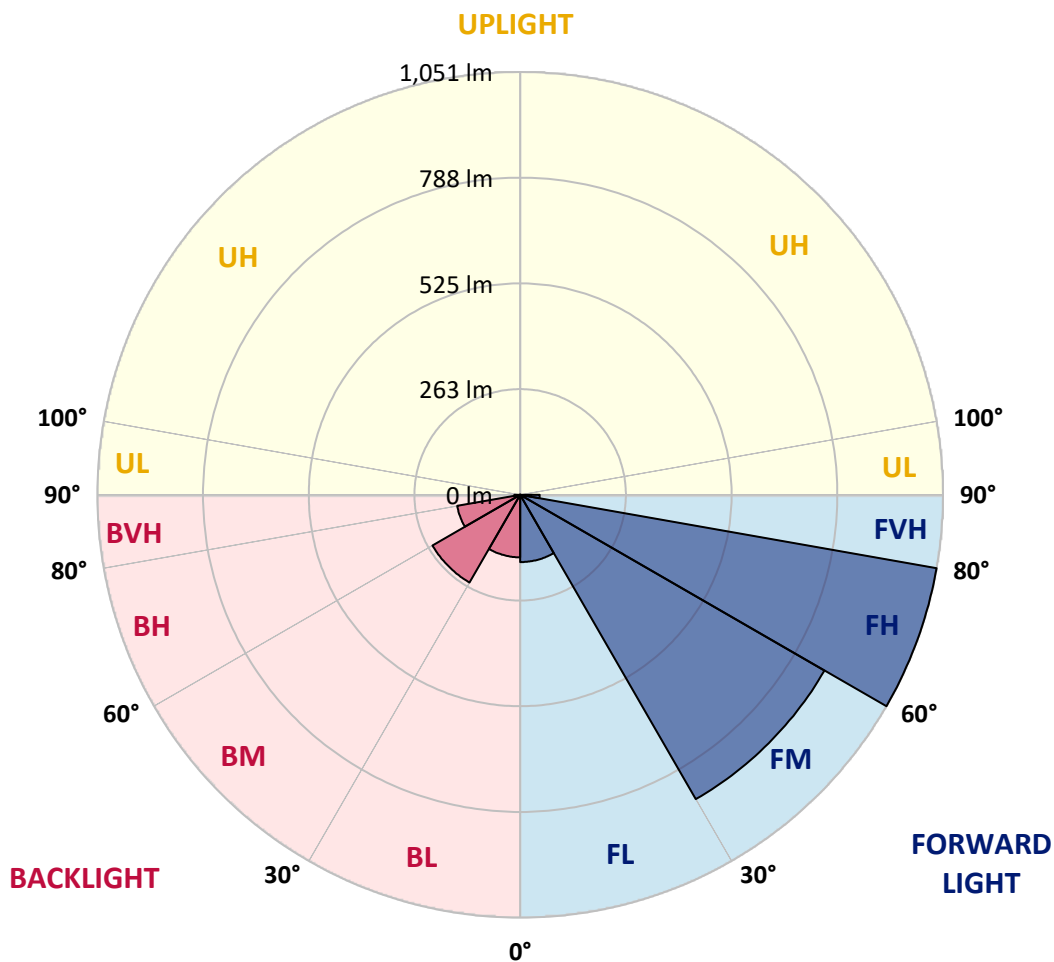
CATALOG NUMBER: ICS-E01-LED-E1-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.2	6.1			
FM	(30°-60°)	873.1	32.1			
FH	(60°-80°)	1050.7	38.6			G1/1800
FVH	(80°-90°)	48.5	1.8			G1/100
BL	(0°-30°)	155.3	5.7	B1/500		
BM	(30°-60°)	251.6	9.2	B1/1000		
BH	(60°-80°)	158.7	5.8	B1/500		G1/500
BVH	(80°-90°)	14.7	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: P181679

CATALOG NUMBER: ICS-E01-LED-E1-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5
2.5°	351.9	353.1	352.2	352.5	352.5	352.8	352.8	353.1	352.8	353.7	354.3
5°	345.6	346.2	345.9	346.5	347.1	348.3	348.0	349.5	349.8	350.7	352.2
7.5°	343.2	342.6	342.9	343.8	344.4	345.0	345.6	346.8	347.7	349.8	351.0
10°	345.6	345.3	345.6	346.2	346.2	346.5	345.9	347.1	347.7	349.5	350.7
12.5°	355.5	355.5	354.9	354.9	354.3	353.7	352.2	351.3	351.0	351.3	351.9
15°	371.4	370.8	369.6	368.7	367.5	365.4	363.3	361.5	360.3	358.5	357.9
17.5°	387.0	386.1	384.9	383.7	382.2	380.1	376.8	374.7	371.4	369.3	368.1
20°	405.0	403.2	401.7	400.2	397.2	396.6	393.3	389.7	385.8	381.0	380.4
22.5°	428.4	425.4	423.6	422.7	419.7	418.8	413.4	408.3	403.5	397.2	395.7
25°	452.1	449.1	448.2	447.0	444.9	443.7	438.6	432.9	426.6	417.9	416.1
27.5°	475.2	475.5	473.1	474.0	473.4	471.3	466.2	460.5	455.7	445.5	443.4
30°	504.0	502.2	501.0	502.8	500.7	501.0	496.5	493.5	485.7	479.7	475.5
32.5°	534.0	533.7	535.5	536.7	536.4	535.8	532.2	529.2	522.3	513.6	511.8
35°	575.1	576.9	578.4	583.8	583.8	587.7	584.1	580.5	572.4	561.9	558.3
37.5°	603.0	603.6	609.6	616.8	625.8	634.2	636.6	637.5	634.2	626.4	621.0
40°	628.5	629.7	639.3	650.4	663.6	680.1	690.0	694.5	695.4	691.8	680.1
42.5°	654.0	655.8	665.7	681.9	700.2	721.2	738.6	749.7	756.0	756.0	749.1
45°	683.7	686.1	696.9	714.6	735.9	762.3	786.3	807.6	817.8	818.4	811.8
47.5°	718.8	720.9	733.5	751.5	773.4	800.1	830.4	854.7	873.6	874.8	869.4
50°	764.1	767.1	777.6	793.8	816.3	843.3	873.6	907.5	927.4	932.2	926.5
52.5°	824.1	824.7	833.4	848.4	870.3	896.1	928.3	965.2	991.3	995.2	985.9
55°	906.9	906.0	911.7	928.0	944.5	964.6	997.9	1039.3	1068.4	1074.4	1064.8
57.5°	1019.5	1018.6	1023.4	1027.3	1058.2	1077.7	1110.4	1150.0	1178.2	1195.6	1179.1
60°	1193.8	1192.9	1200.7	1223.5	1246.6	1275.1	1306.9	1354.3	1393.9	1399.0	1382.8
62.5°	1320.1	1324.6	1341.7	1368.4	1415.2	1471.0	1529.2	1591.6	1672.9	1698.7	1690.9
65°	1276.0	1285.0	1308.7	1349.2	1411.6	1488.7	1579.9	1693.0	1801.9	1862.8	1861.0
66°	1236.4	1246.3	1275.4	1314.4	1380.4	1464.7	1564.3	1687.6	1809.4	1876.6	1880.8
67.5°	1164.4	1175.5	1204.0	1250.2	1314.4	1404.1	1511.2	1645.3	1783.0	1861.3	1872.4
70°	1024.3	1036.9	1057.6	1095.7	1159.0	1239.1	1351.9	1471.9	1616.2	1705.9	1719.4
72.5°	856.2	867.3	890.4	921.7	973.6	1024.0	1112.5	1201.0	1304.2	1406.5	1396.6
75°	614.7	619.5	633.3	667.2	695.1	740.4	811.5	884.1	954.7	1001.5	1008.1
77.5°	319.5	332.1	351.6	389.1	419.4	460.2	506.4	561.0	612.6	655.5	643.8
80°	209.1	214.5	231.9	251.1	273.3	299.4	330.3	350.7	357.3	354.6	357.3
82.5°	120.6	130.5	153.6	168.3	184.8	193.8	218.4	241.8	255.0	238.5	232.5
85°	15.3	19.8	62.4	78.6	90.0	103.5	111.0	125.1	116.7	104.4	127.2
87.5°	3.3	3.0	4.2	9.0	9.3	7.8	14.7	15.6	9.6	4.8	6.0
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: P181679

CATALOG NUMBER: ICS-E01-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5
2.5°	354.9	355.2	355.8	356.7	357.3	357.9	358.5	359.4	360.0	360.6	361.8
5°	353.4	354.6	355.8	357.0	358.5	360.9	362.4	363.6	364.8	367.2	368.1
7.5°	352.5	354.6	356.4	358.5	360.9	363.0	365.7	367.2	369.0	370.5	372.3
10°	351.9	354.9	356.7	359.7	362.4	364.5	367.5	369.3	371.4	373.2	374.1
12.5°	353.1	354.6	356.4	359.4	362.7	365.7	369.0	370.5	372.3	373.8	374.1
15°	358.2	358.2	358.5	360.9	364.2	366.6	369.3	370.8	371.7	372.6	372.6
17.5°	367.5	365.4	363.9	364.2	366.3	367.8	369.3	369.3	368.7	368.4	367.8
20°	378.3	375.6	372.6	370.5	369.9	368.7	367.8	364.8	362.4	360.3	358.8
22.5°	393.9	389.7	385.5	381.6	378.0	373.5	368.4	362.4	356.7	352.8	350.4
25°	413.1	409.8	404.7	398.7	394.2	385.8	379.2	370.5	363.3	358.2	354.0
27.5°	440.4	436.5	431.7	426.3	419.7	410.4	402.3	392.1	383.4	375.9	370.5
30°	474.3	469.2	465.6	459.0	454.5	444.0	435.9	423.3	406.5	394.5	387.0
32.5°	509.1	503.4	500.4	495.3	490.2	483.9	471.6	452.1	430.5	411.0	398.1
35°	555.6	549.6	544.2	539.7	532.2	520.5	509.7	486.3	456.6	429.3	407.7
37.5°	614.1	604.2	590.7	579.3	566.1	549.3	532.8	508.8	474.9	439.5	410.7
40°	676.5	659.1	639.9	618.6	595.8	571.5	552.6	528.3	490.2	448.2	408.6
42.5°	741.6	714.0	687.3	657.3	625.5	596.7	572.1	545.4	501.6	450.6	400.2
45°	806.1	775.2	734.7	695.4	655.2	619.5	591.9	561.9	512.1	451.5	389.1
47.5°	859.5	827.7	781.5	732.3	684.6	644.1	611.7	579.3	526.2	457.8	386.4
50°	915.9	877.2	825.9	767.7	713.7	668.4	633.9	600.3	546.0	474.0	395.1
52.5°	977.5	933.1	873.0	807.9	748.8	698.1	660.6	626.1	571.2	496.8	411.6
55°	1052.5	998.2	933.1	859.5	796.2	740.1	698.7	657.9	601.2	523.8	432.3
57.5°	1167.1	1100.5	1027.3	943.6	873.3	807.0	757.5	710.4	647.7	564.0	460.5
60°	1374.4	1303.3	1208.2	1106.8	1024.3	946.9	874.2	815.7	738.6	643.2	522.9
62.5°	1671.4	1576.9	1450.0	1308.1	1200.1	1088.5	1006.6	919.6	823.8	720.9	596.4
65°	1836.4	1721.8	1552.0	1387.3	1248.4	1127.2	1023.1	922.3	816.0	717.6	613.5
66°	1856.8	1737.4	1561.0	1387.6	1241.8	1117.3	1007.8	903.3	794.7	700.8	606.3
67.5°	1848.4	1726.3	1544.5	1361.5	1213.3	1079.5	966.4	858.0	749.7	662.1	582.3
70°	1710.7	1594.9	1416.4	1239.1	1098.4	966.4	858.3	751.8	652.5	577.5	518.7
72.5°	1420.6	1321.6	1166.5	1027.3	916.8	807.9	716.4	614.7	530.7	475.2	440.4
75°	1025.5	965.5	824.1	744.3	647.4	575.1	486.3	426.0	365.7	338.7	332.7
77.5°	647.7	567.0	477.3	393.0	323.1	267.9	208.5	177.0	147.6	144.6	174.6
80°	327.9	295.2	227.4	181.2	152.4	123.3	97.5	73.8	51.6	62.1	74.4
82.5°	214.8	179.1	140.4	115.5	100.5	83.4	64.8	45.0	33.0	37.2	51.0
85°	116.1	99.0	79.8	63.0	51.0	45.6	30.6	21.6	21.3	22.8	29.1
87.5°	8.4	8.4	6.6	6.0	7.2	6.0	5.4	5.4	5.1	5.4	7.2
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: P181679

CATALOG NUMBER: ICS-E01-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5	358.5
2.5°	362.4	363.3	363.6	365.1	366.0	366.6	367.2	367.2	367.5	368.4	368.7
5°	369.3	370.8	372.6	373.8	374.4	376.2	376.8	376.8	377.4	378.6	379.5
7.5°	373.5	375.6	377.4	378.0	379.2	379.8	380.7	381.3	381.3	382.5	383.1
10°	375.0	376.2	378.0	378.0	379.2	379.2	380.1	380.4	380.4	381.6	382.5
12.5°	375.0	375.6	377.1	377.1	378.0	378.3	379.5	380.4	380.7	382.2	383.4
15°	373.2	373.8	375.0	375.3	377.4	378.6	381.3	383.1	383.1	384.6	385.2
17.5°	368.1	369.6	372.0	374.4	378.3	381.0	384.3	385.8	384.6	383.7	382.8
20°	359.7	362.4	368.1	374.1	381.0	384.6	386.4	384.9	380.7	376.5	373.8
22.5°	351.3	356.7	366.3	375.3	383.1	385.5	384.6	379.2	372.3	367.2	363.6
25°	355.2	361.5	370.8	378.9	384.0	383.4	379.8	372.3	364.8	358.2	352.2
27.5°	371.4	378.3	383.4	386.1	385.5	381.3	375.6	367.2	358.2	349.5	341.1
30°	386.7	390.3	391.5	389.4	384.6	377.7	370.5	360.9	348.9	338.1	328.5
32.5°	393.6	390.0	384.3	378.6	370.8	364.8	354.9	344.4	329.4	316.5	306.9
35°	393.6	379.2	364.8	352.8	341.1	333.6	322.2	308.1	294.3	283.5	276.0
37.5°	384.9	357.3	333.6	314.1	299.4	291.3	274.2	261.6	249.9	246.3	241.5
40°	369.0	328.2	294.0	268.5	249.9	237.9	220.8	212.1	207.6	205.8	204.9
42.5°	347.7	295.8	250.2	218.7	198.6	185.1	173.7	168.3	168.0	167.7	167.7
45°	324.9	261.0	207.6	170.1	152.4	140.4	135.0	132.9	134.7	134.4	134.7
47.5°	310.8	234.6	168.6	128.7	115.2	107.4	104.7	105.6	107.1	106.5	106.5
50°	309.0	221.1	142.5	100.2	90.0	86.1	85.5	85.5	86.4	85.8	85.5
52.5°	315.6	219.0	129.0	86.1	78.0	74.7	74.1	73.8	73.5	71.7	70.2
55°	327.0	223.8	125.1	82.5	74.1	70.5	69.6	69.0	67.8	65.4	62.7
57.5°	349.8	238.8	128.7	84.3	75.3	72.3	71.4	71.4	69.0	65.1	61.2
60°	404.7	276.9	143.4	91.2	81.0	78.0	78.6	78.3	74.7	69.0	63.0
62.5°	475.5	326.7	162.6	100.8	88.2	87.6	90.6	90.0	84.0	75.3	66.6
65°	508.2	350.1	168.0	102.9	89.7	92.4	98.4	97.8	90.3	78.3	67.2
66°	508.8	350.1	165.6	101.1	87.6	90.9	96.9	96.6	89.1	77.1	66.0
67.5°	496.5	340.5	158.7	97.5	83.4	85.8	91.2	90.9	84.0	74.1	63.6
70°	450.3	304.8	141.0	91.2	77.7	76.5	78.3	77.1	72.6	65.7	58.5
72.5°	385.8	255.9	123.0	86.4	73.8	69.0	67.8	66.9	63.3	59.4	54.9
75°	303.9	202.5	108.0	82.8	70.2	63.9	61.8	60.6	58.2	55.5	51.9
77.5°	187.5	144.9	94.2	78.0	67.5	61.2	59.7	57.9	54.3	51.0	48.3
80°	83.7	89.7	77.4	68.1	60.3	54.6	52.2	49.5	45.9	43.8	42.3
82.5°	55.8	57.9	56.1	51.0	45.6	41.1	37.5	37.5	36.9	35.1	34.5
85°	35.7	36.0	34.8	31.5	29.4	26.7	25.2	25.5	26.7	26.4	26.1
87.5°	8.1	8.1	9.6	9.0	10.5	11.1	12.0	12.9	14.7	14.7	15.6
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: P181679

CATALOG NUMBER: ICS-E01-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	358.5	358.5	358.5	358.5	358.5
2.5°	369.0	369.6	370.2	369.3	369.6
5°	379.5	379.2	380.7	379.8	380.4
7.5°	382.8	383.1	384.3	384.3	384.6
10°	383.1	383.7	385.2	386.1	386.7
12.5°	384.6	385.8	388.2	388.8	388.8
15°	385.8	386.4	387.9	388.5	389.1
17.5°	381.6	380.4	381.0	381.3	381.0
20°	371.1	369.9	369.6	368.4	369.0
22.5°	359.7	356.4	354.3	351.9	351.9
25°	345.9	340.8	336.6	332.4	333.3
27.5°	333.0	326.4	322.2	319.5	318.9
30°	320.4	313.5	309.6	306.3	306.3
32.5°	299.4	294.6	289.5	287.4	287.1
35°	270.3	267.3	263.1	262.2	260.7
37.5°	237.6	236.7	233.1	232.8	231.3
40°	203.4	204.0	202.8	202.2	201.3
42.5°	169.2	172.2	171.6	171.3	170.7
45°	136.5	138.6	138.9	139.8	141.3
47.5°	107.4	108.0	108.6	108.3	108.6
50°	84.0	82.5	82.2	81.3	82.2
52.5°	67.8	65.4	64.2	63.0	62.4
55°	59.7	57.3	56.1	55.5	54.9
57.5°	57.6	55.2	53.4	52.2	51.9
60°	58.2	54.6	52.2	50.7	50.4
62.5°	59.7	54.9	51.6	50.1	49.8
65°	59.4	54.3	51.3	49.5	49.2
66°	58.5	53.7	50.7	49.2	48.9
67.5°	57.0	52.8	50.1	48.9	48.3
70°	54.3	51.6	49.5	48.0	47.4
72.5°	51.9	49.8	48.0	46.5	46.2
75°	49.2	47.4	45.6	44.4	44.1
77.5°	45.9	44.1	42.9	42.0	41.7
80°	40.5	39.3	38.1	36.9	36.9
82.5°	33.6	32.7	31.5	30.6	30.3
85°	25.8	25.8	24.9	24.0	23.7
87.5°	15.3	15.0	15.0	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

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