

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: P181704

Luminaire Tested: **ICS-F03-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181704
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-F03-LED-E1-T4
Description: ICON SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6736.3 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

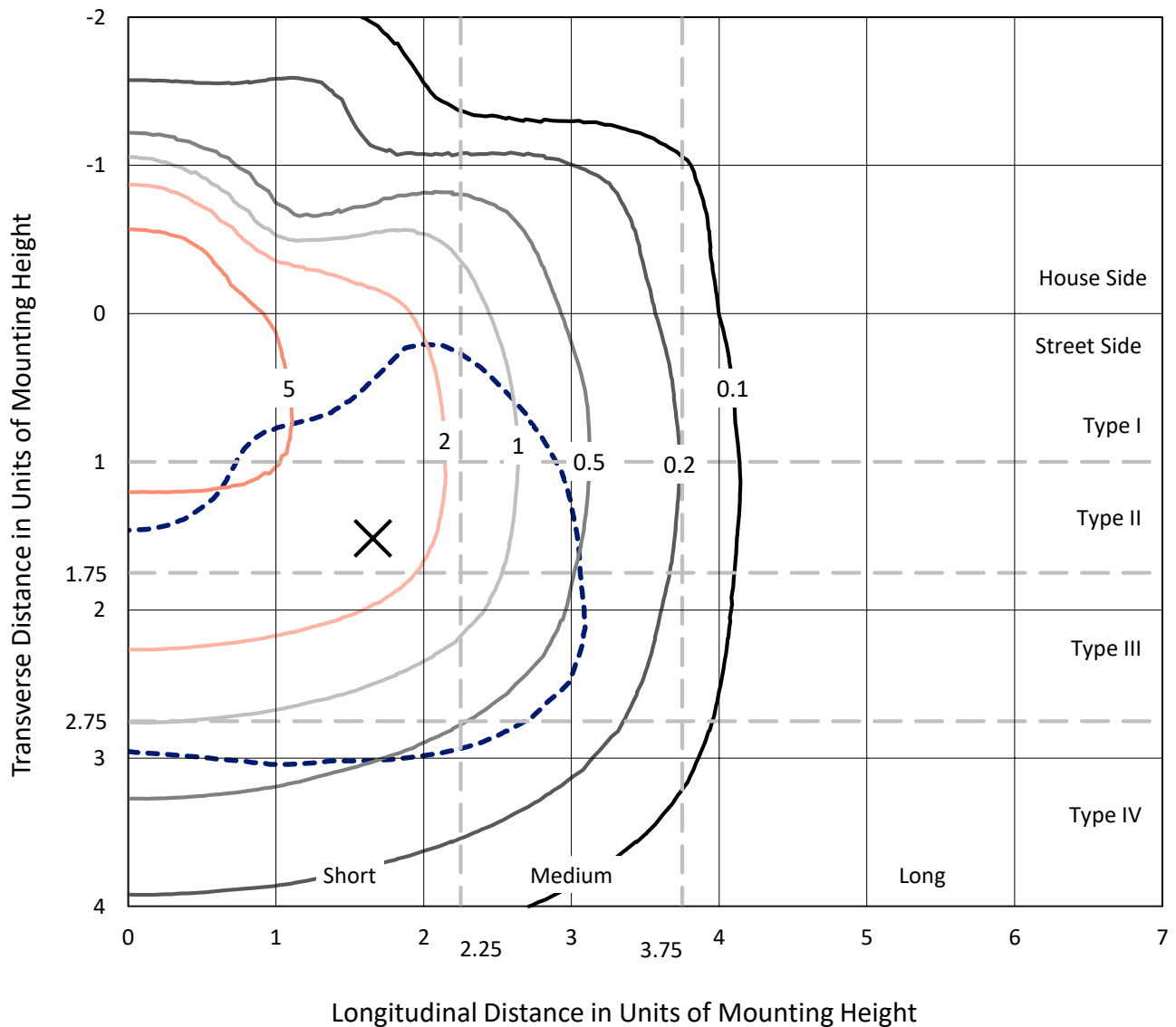
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P181704
 CATALOG NUMBER: ICS-F03-LED-E1-T4

Iso-Footcandle Lines of Horizontal Illumination

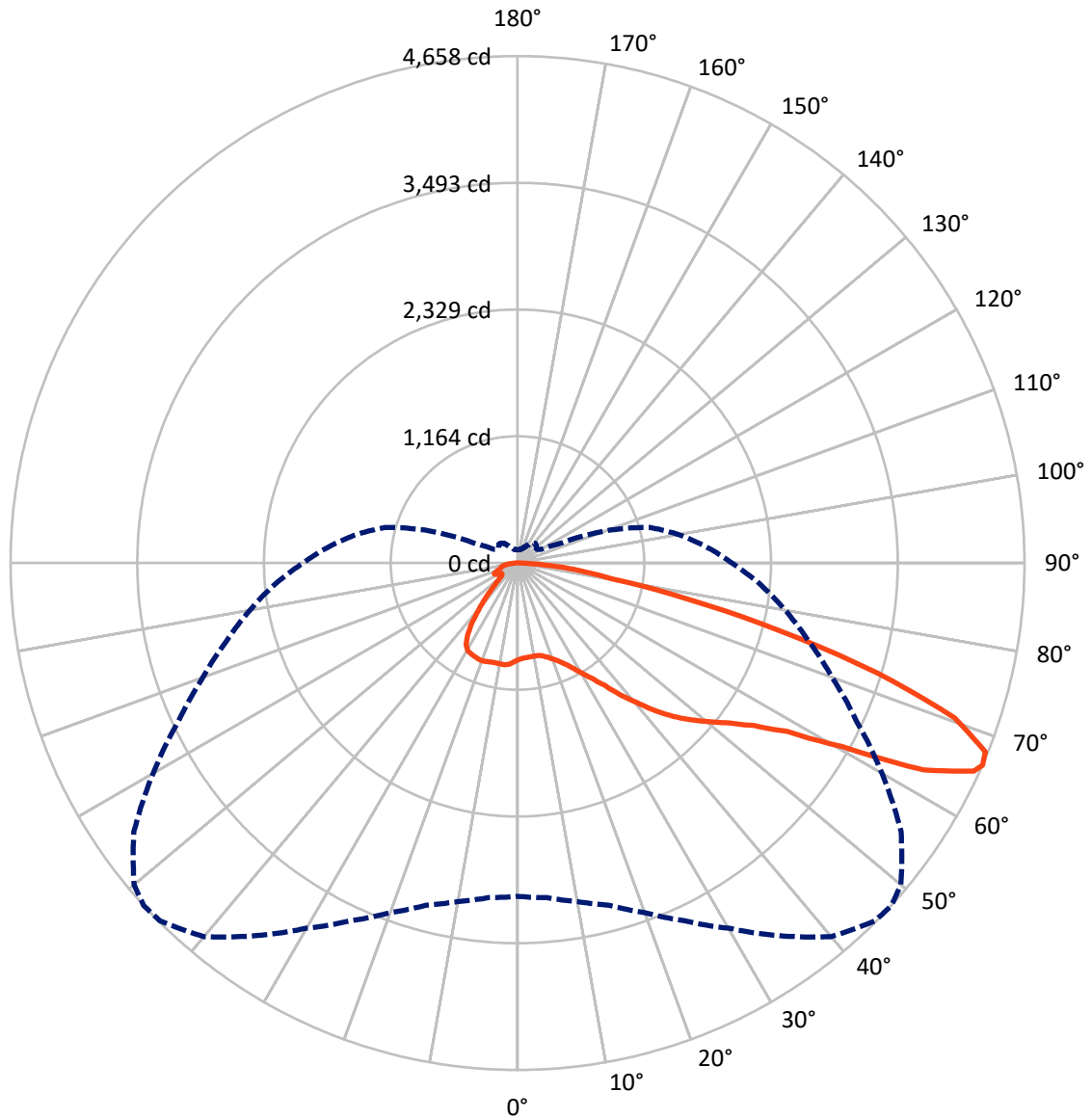
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P181704
CATALOG NUMBER: ICS-F03-LED-E1-T4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P181704

CATALOG NUMBER: ICS-F03-LED-E1-T4

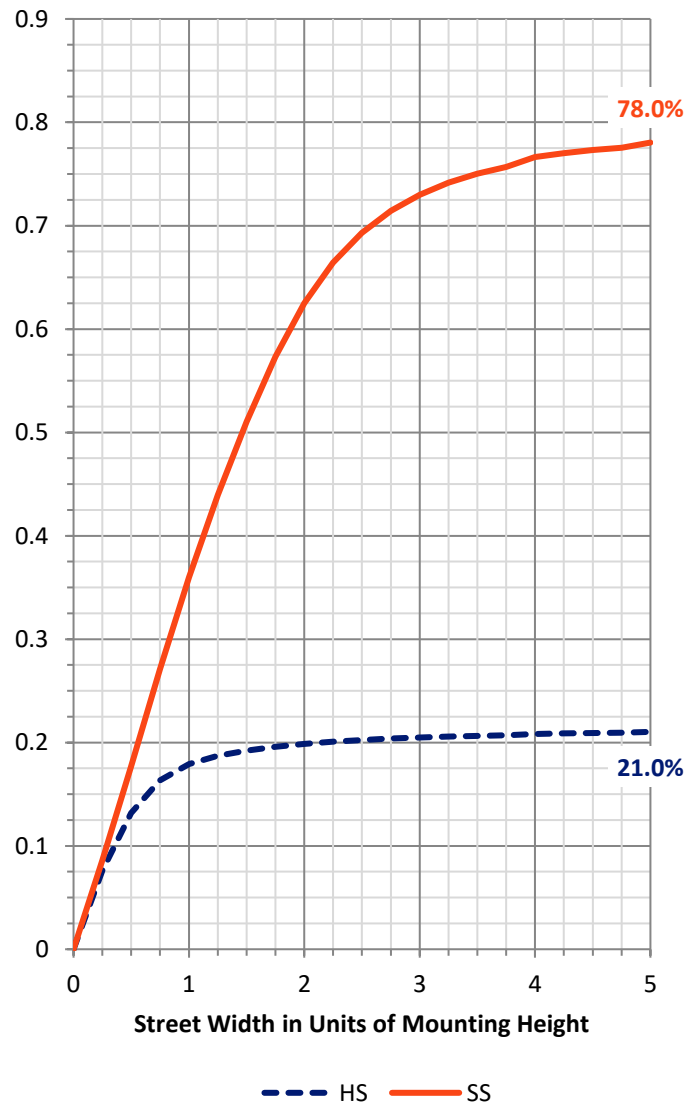
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1437.4	0.0	1437.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	5298.9	0.0	5298.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	6736.3	0.0	6736.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.3
10°-20°	261.8	3.9
20°-30°	450.9	6.7
30°-40°	682.2	10.1
40°-50°	884.2	13.1
50°-60°	1219.0	18.1
60°-70°	1894.0	28.1
70°-80°	1101.4	16.3
80°-90°	156.6	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°	6736.3	100.0
0°-180°	6736.3	100.0

Coefficient of Utilization



REPORT NUMBER: P181704

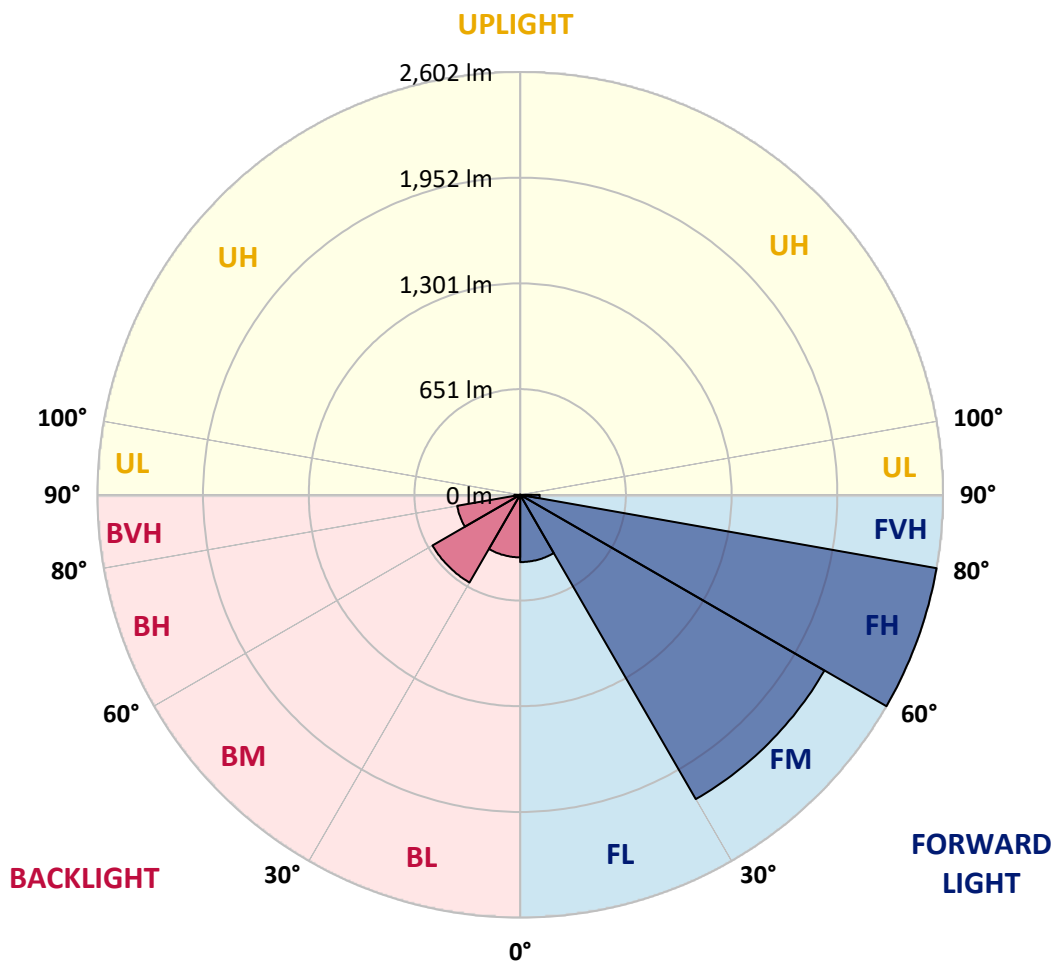
CATALOG NUMBER: ICS-F03-LED-E1-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.2	6.1			
FM	(30°-60°)	2162.3	32.1			
FH	(60°-80°)	2602.2	38.6			G2/5000
FVH	(80°-90°)	120.2	1.8			G2/225
BL	(0°-30°)	384.7	5.7	B1/500		
BM	(30°-60°)	623.1	9.2	B1/1000		
BH	(60°-80°)	393.1	5.8	B1/500		G1/500
BVH	(80°-90°)	36.4	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-G2

Type IV Short





REPORT NUMBER: P181704

CATALOG NUMBER: ICS-F03-LED-E1-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9
2.5°	871.6	874.5	872.3	873.0	873.0	873.8	873.8	874.5	873.8	876.0	877.5
5°	856.0	857.4	856.7	858.2	859.7	862.6	861.9	865.6	866.4	868.6	872.3
7.5°	850.0	848.5	849.3	851.5	853.0	854.5	856.0	858.9	861.2	866.4	869.3
10°	856.0	855.2	856.0	857.4	857.4	858.2	856.7	859.7	861.2	865.6	868.6
12.5°	880.5	880.5	879.0	879.0	877.5	876.0	872.3	870.1	869.3	870.1	871.6
15°	919.8	918.4	915.4	913.2	910.2	905.0	899.8	895.3	892.4	887.9	886.4
17.5°	958.5	956.3	953.3	950.3	946.6	941.4	933.2	928.0	919.8	914.6	911.7
20°	1003.1	998.6	994.9	991.2	983.7	982.3	974.1	965.2	955.5	943.6	942.1
22.5°	1061.0	1053.6	1049.1	1046.9	1039.5	1037.2	1023.9	1011.2	999.4	983.7	980.0
25°	1119.7	1112.3	1110.1	1107.1	1101.9	1098.9	1086.3	1072.2	1056.6	1035.0	1030.6
27.5°	1176.9	1177.7	1171.7	1174.0	1172.5	1167.3	1154.6	1140.5	1128.6	1103.4	1098.2
30°	1248.3	1243.8	1240.8	1245.3	1240.1	1240.8	1229.7	1222.3	1202.9	1188.1	1177.7
32.5°	1322.6	1321.8	1326.3	1329.2	1328.5	1327.0	1318.1	1310.7	1293.6	1272.0	1267.6
35°	1424.4	1428.8	1432.5	1445.9	1445.9	1455.6	1446.6	1437.7	1417.7	1391.7	1382.7
37.5°	1493.5	1494.9	1509.8	1527.6	1549.9	1570.7	1576.7	1578.9	1570.7	1551.4	1538.0
40°	1556.6	1559.6	1583.4	1610.9	1643.5	1684.4	1708.9	1720.1	1722.3	1713.4	1684.4
42.5°	1619.8	1624.2	1648.7	1688.9	1734.2	1786.2	1829.3	1856.8	1872.4	1872.4	1855.3
45°	1693.3	1699.3	1726.0	1769.9	1822.6	1888.0	1947.4	2000.2	2025.5	2026.9	2010.6
47.5°	1780.3	1785.5	1816.7	1861.2	1915.5	1981.6	2056.7	2116.8	2163.7	2166.6	2153.3
50°	1892.5	1899.9	1925.9	1966.0	2021.7	2088.6	2163.7	2247.6	2296.7	2308.5	2294.4
52.5°	2041.1	2042.5	2064.1	2101.2	2155.5	2219.4	2298.9	2390.3	2454.9	2464.6	2441.5
55°	2246.1	2243.9	2258.0	2298.1	2339.0	2388.8	2471.3	2573.8	2645.9	2660.7	2637.0
57.5°	2524.8	2522.5	2534.4	2544.1	2620.6	2668.9	2749.9	2848.0	2917.8	2960.9	2920.0
60°	2956.4	2954.2	2973.5	3030.0	3087.2	3157.8	3236.6	3354.0	3452.0	3464.7	3424.5
62.5°	3269.3	3280.4	3322.8	3388.9	3504.8	3643.0	3787.1	3941.7	4143.0	4206.9	4187.6
65°	3160.0	3182.3	3241.0	3341.3	3495.9	3686.8	3912.7	4192.8	4462.5	4613.4	4608.9
66°	3062.0	3086.5	3158.5	3255.1	3418.6	3627.4	3874.1	4179.4	4481.1	4647.5	4657.9
67.5°	2883.6	2911.1	2981.7	3096.1	3255.1	3477.3	3742.6	4074.7	4415.7	4609.7	4637.1
70°	2536.6	2567.9	2619.1	2713.5	2870.3	3068.6	3348.0	3645.2	4002.6	4224.8	4258.2
72.5°	2120.6	2148.1	2205.3	2282.5	2411.1	2535.9	2755.1	2974.3	3229.9	3483.2	3458.7
75°	1522.4	1534.3	1568.5	1652.5	1721.6	1833.8	2009.8	2189.7	2364.3	2480.2	2496.5
77.5°	791.3	822.5	870.8	963.7	1038.7	1139.8	1254.2	1389.4	1517.2	1623.5	1594.5
80°	517.9	531.3	574.3	621.9	676.9	741.5	818.1	868.6	884.9	878.2	884.9
82.5°	298.7	323.2	380.4	416.8	457.7	480.0	540.9	598.9	631.6	590.7	575.8
85°	37.9	49.0	154.5	194.7	222.9	256.3	274.9	309.8	289.0	258.6	315.0
87.5°	8.2	7.4	10.4	22.3	23.0	19.3	36.4	38.6	23.8	11.9	14.9
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: P181704

CATALOG NUMBER: ICS-F03-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9
2.5°	879.0	879.7	881.2	883.4	884.9	886.4	887.9	890.1	891.6	893.1	896.1
5°	875.3	878.2	881.2	884.2	887.9	893.8	897.6	900.5	903.5	909.4	911.7
7.5°	873.0	878.2	882.7	887.9	893.8	899.0	905.7	909.4	913.9	917.6	922.1
10°	871.6	879.0	883.4	890.9	897.6	902.8	910.2	914.6	919.8	924.3	926.5
12.5°	874.5	878.2	882.7	890.1	898.3	905.7	913.9	917.6	922.1	925.8	926.5
15°	887.2	887.2	887.9	893.8	902.0	908.0	914.6	918.4	920.6	922.8	922.8
17.5°	910.2	905.0	901.3	902.0	907.2	910.9	914.6	914.6	913.2	912.4	910.9
20°	936.9	930.3	922.8	917.6	916.1	913.2	910.9	903.5	897.6	892.4	888.6
22.5°	975.6	965.2	954.8	945.1	936.2	925.1	912.4	897.6	883.4	873.8	867.8
25°	1023.1	1015.0	1002.3	987.5	976.3	955.5	939.2	917.6	899.8	887.2	876.8
27.5°	1090.7	1081.1	1069.2	1055.8	1039.5	1016.4	996.4	971.1	949.6	931.0	917.6
30°	1174.7	1162.1	1153.2	1136.8	1125.7	1099.7	1079.6	1048.4	1006.8	977.1	958.5
32.5°	1260.9	1246.8	1239.3	1226.7	1214.1	1198.5	1168.0	1119.7	1066.2	1017.9	986.0
35°	1376.1	1361.2	1347.8	1336.7	1318.1	1289.1	1262.4	1204.4	1130.9	1063.3	1009.8
37.5°	1520.9	1496.4	1463.0	1434.8	1402.1	1360.5	1319.6	1260.1	1176.2	1088.5	1017.2
40°	1675.5	1632.4	1584.8	1532.1	1475.6	1415.4	1368.6	1308.4	1214.1	1110.1	1012.0
42.5°	1836.7	1768.4	1702.2	1627.9	1549.2	1477.9	1416.9	1350.8	1242.3	1116.0	991.2
45°	1996.5	1919.9	1819.6	1722.3	1622.7	1534.3	1466.0	1391.7	1268.3	1118.2	963.7
47.5°	2128.7	2050.0	1935.5	1813.7	1695.6	1595.2	1515.0	1434.8	1303.2	1133.8	957.0
50°	2268.4	2172.6	2045.5	1901.4	1767.6	1655.4	1570.0	1486.8	1352.3	1174.0	978.5
52.5°	2420.7	2310.8	2162.2	2000.9	1854.6	1729.0	1636.1	1550.7	1414.7	1230.4	1019.4
55°	2606.5	2472.0	2310.8	2128.7	1972.0	1833.0	1730.5	1629.4	1489.0	1297.3	1070.7
57.5°	2890.3	2725.4	2544.1	2336.8	2162.9	1998.7	1876.1	1759.5	1604.2	1396.9	1140.5
60°	3403.7	3227.6	2992.1	2741.0	2536.6	2344.9	2165.1	2020.3	1829.3	1593.0	1295.1
62.5°	4139.3	3905.3	3591.0	3239.5	2972.1	2695.7	2492.8	2277.3	2040.3	1785.5	1477.1
65°	4548.0	4264.2	3843.6	3435.7	3091.7	2791.5	2533.7	2284.0	2021.0	1777.3	1519.5
66°	4598.5	4302.8	3865.9	3436.4	3075.3	2767.0	2495.8	2237.2	1968.2	1735.7	1501.6
67.5°	4577.7	4275.3	3825.0	3371.8	3004.7	2673.4	2393.2	2125.0	1856.8	1639.8	1442.2
70°	4236.7	3949.9	3507.8	3068.6	2720.2	2393.2	2125.8	1862.0	1616.1	1430.3	1284.7
72.5°	3518.2	3273.0	2888.8	2544.1	2270.6	2000.9	1774.3	1522.4	1314.4	1176.9	1090.7
75°	2539.6	2391.0	2041.1	1843.4	1603.4	1424.4	1204.4	1055.1	905.7	838.9	824.0
77.5°	1604.2	1404.3	1182.1	973.3	800.2	663.5	516.4	438.4	365.6	358.1	432.4
80°	812.1	731.1	563.2	448.8	377.5	305.4	241.5	182.8	127.8	153.8	184.3
82.5°	532.0	443.6	347.7	286.1	248.9	206.6	160.5	111.5	81.7	92.1	126.3
85°	287.5	245.2	197.6	156.0	126.3	112.9	75.8	53.5	52.8	56.5	72.1
87.5°	20.8	20.8	16.3	14.9	17.8	14.9	13.4	13.4	12.6	13.4	17.8
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: P181704

CATALOG NUMBER: ICS-F03-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9	887.9
2.5°	897.6	899.8	900.5	904.2	906.5	908.0	909.4	909.4	910.2	912.4	913.2
5°	914.6	918.4	922.8	925.8	927.3	931.7	933.2	933.2	934.7	937.7	939.9
7.5°	925.1	930.3	934.7	936.2	939.2	940.7	942.9	944.4	944.4	947.3	948.8
10°	928.8	931.7	936.2	936.2	939.2	939.2	941.4	942.1	942.1	945.1	947.3
12.5°	928.8	930.3	934.0	934.0	936.2	936.9	939.9	942.1	942.9	946.6	949.6
15°	924.3	925.8	928.8	929.5	934.7	937.7	944.4	948.8	948.8	952.5	954.0
17.5°	911.7	915.4	921.3	927.3	936.9	943.6	951.8	955.5	952.5	950.3	948.1
20°	890.9	897.6	911.7	926.5	943.6	952.5	957.0	953.3	942.9	932.5	925.8
22.5°	870.1	883.4	907.2	929.5	948.8	954.8	952.5	939.2	922.1	909.4	900.5
25°	879.7	895.3	918.4	938.4	951.1	949.6	940.7	922.1	903.5	887.2	872.3
27.5°	919.8	936.9	949.6	956.3	954.8	944.4	930.3	909.4	887.2	865.6	844.8
30°	957.7	966.7	969.6	964.4	952.5	935.5	917.6	893.8	864.1	837.4	813.6
32.5°	974.8	965.9	951.8	937.7	918.4	903.5	879.0	853.0	815.8	783.9	760.1
35°	974.8	939.2	903.5	873.8	844.8	826.2	798.0	763.1	728.9	702.1	683.6
37.5°	953.3	884.9	826.2	777.9	741.5	721.5	679.1	647.9	618.9	610.0	598.1
40°	913.9	812.9	728.2	665.0	618.9	589.2	546.9	525.3	514.2	509.7	507.5
42.5°	861.2	732.6	619.7	541.7	491.9	458.4	430.2	416.8	416.1	415.3	415.3
45°	804.7	646.4	514.2	421.3	377.5	347.7	334.4	329.2	333.6	332.9	333.6
47.5°	769.8	581.0	417.6	318.8	285.3	266.0	259.3	261.5	265.3	263.8	263.8
50°	765.3	547.6	352.9	248.2	222.9	213.2	211.8	211.8	214.0	212.5	211.8
52.5°	781.6	542.4	319.5	213.2	193.2	185.0	183.5	182.8	182.0	177.6	173.9
55°	809.9	554.3	309.8	204.3	183.5	174.6	172.4	170.9	167.9	162.0	155.3
57.5°	866.4	591.4	318.8	208.8	186.5	179.1	176.8	176.8	170.9	161.2	151.6
60°	1002.3	685.8	355.2	225.9	200.6	193.2	194.7	193.9	185.0	170.9	156.0
62.5°	1177.7	809.1	402.7	249.7	218.4	217.0	224.4	222.9	208.0	186.5	164.9
65°	1258.7	867.1	416.1	254.9	222.2	228.8	243.7	242.2	223.6	193.9	166.4
66°	1260.1	867.1	410.1	250.4	217.0	225.1	240.0	239.3	220.7	191.0	163.5
67.5°	1229.7	843.3	393.1	241.5	206.6	212.5	225.9	225.1	208.0	183.5	157.5
70°	1115.3	754.9	349.2	225.9	192.4	189.5	193.9	191.0	179.8	162.7	144.9
72.5°	955.5	633.8	304.6	214.0	182.8	170.9	167.9	165.7	156.8	147.1	136.0
75°	752.7	501.5	267.5	205.1	173.9	158.3	153.1	150.1	144.1	137.5	128.5
77.5°	464.4	358.9	233.3	193.2	167.2	151.6	147.9	143.4	134.5	126.3	119.6
80°	207.3	222.2	191.7	168.7	149.3	135.2	129.3	122.6	113.7	108.5	104.8
82.5°	138.2	143.4	138.9	126.3	112.9	101.8	92.9	92.9	91.4	86.9	85.4
85°	88.4	89.2	86.2	78.0	72.8	66.1	62.4	63.2	66.1	65.4	64.6
87.5°	20.1	20.1	23.8	22.3	26.0	27.5	29.7	31.9	36.4	36.4	38.6
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: P181704

CATALOG NUMBER: ICS-F03-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	887.9	887.9	887.9	887.9	887.9
2.5°	913.9	915.4	916.9	914.6	915.4
5°	939.9	939.2	942.9	940.7	942.1
7.5°	948.1	948.8	951.8	951.8	952.5
10°	948.8	950.3	954.0	956.3	957.7
12.5°	952.5	955.5	961.5	962.9	962.9
15°	955.5	957.0	960.7	962.2	963.7
17.5°	945.1	942.1	943.6	944.4	943.6
20°	919.1	916.1	915.4	912.4	913.9
22.5°	890.9	882.7	877.5	871.6	871.6
25°	856.7	844.1	833.7	823.3	825.5
27.5°	824.7	808.4	798.0	791.3	789.8
30°	793.5	776.4	766.8	758.6	758.6
32.5°	741.5	729.6	717.0	711.8	711.1
35°	669.5	662.0	651.6	649.4	645.7
37.5°	588.5	586.2	577.3	576.6	572.9
40°	503.8	505.2	502.3	500.8	498.6
42.5°	419.1	426.5	425.0	424.3	422.8
45°	338.1	343.3	344.0	346.2	350.0
47.5°	266.0	267.5	269.0	268.2	269.0
50°	208.0	204.3	203.6	201.4	203.6
52.5°	167.9	162.0	159.0	156.0	154.5
55°	147.9	141.9	138.9	137.5	136.0
57.5°	142.7	136.7	132.3	129.3	128.5
60°	144.1	135.2	129.3	125.6	124.8
62.5°	147.9	136.0	127.8	124.1	123.3
65°	147.1	134.5	127.1	122.6	121.9
66°	144.9	133.0	125.6	121.9	121.1
67.5°	141.2	130.8	124.1	121.1	119.6
70°	134.5	127.8	122.6	118.9	117.4
72.5°	128.5	123.3	118.9	115.2	114.4
75°	121.9	117.4	112.9	110.0	109.2
77.5°	113.7	109.2	106.3	104.0	103.3
80°	100.3	97.3	94.4	91.4	91.4
82.5°	83.2	81.0	78.0	75.8	75.0
85°	63.9	63.9	61.7	59.4	58.7
87.5°	37.9	37.2	37.2	34.9	34.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)