

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: P181225

Luminaire Tested: **ICS-E04-LED-E1-T2-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181225
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: ICS-E04-LED-E1-T2-HSS-8030
Description: ICON SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4865.7 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

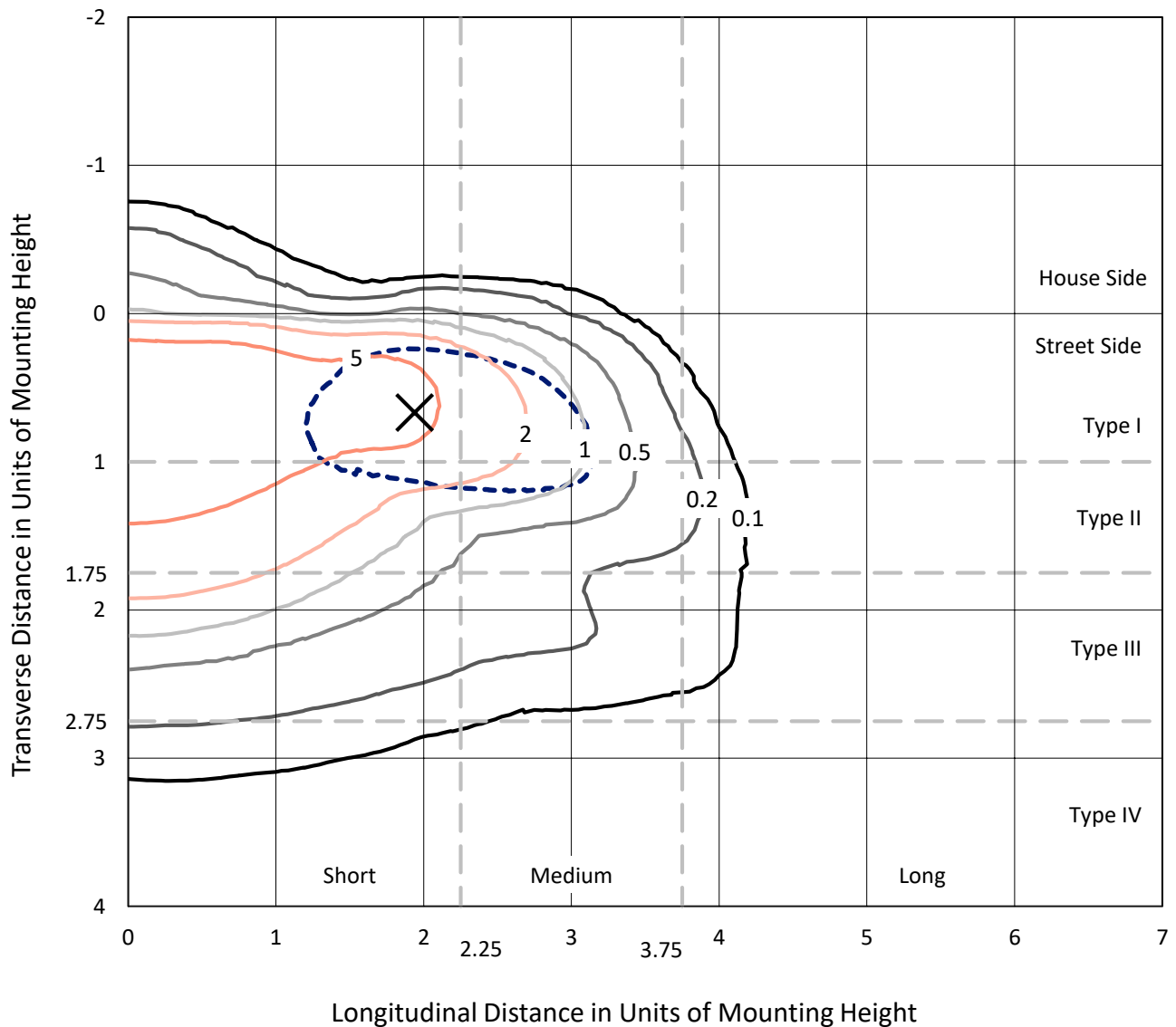
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

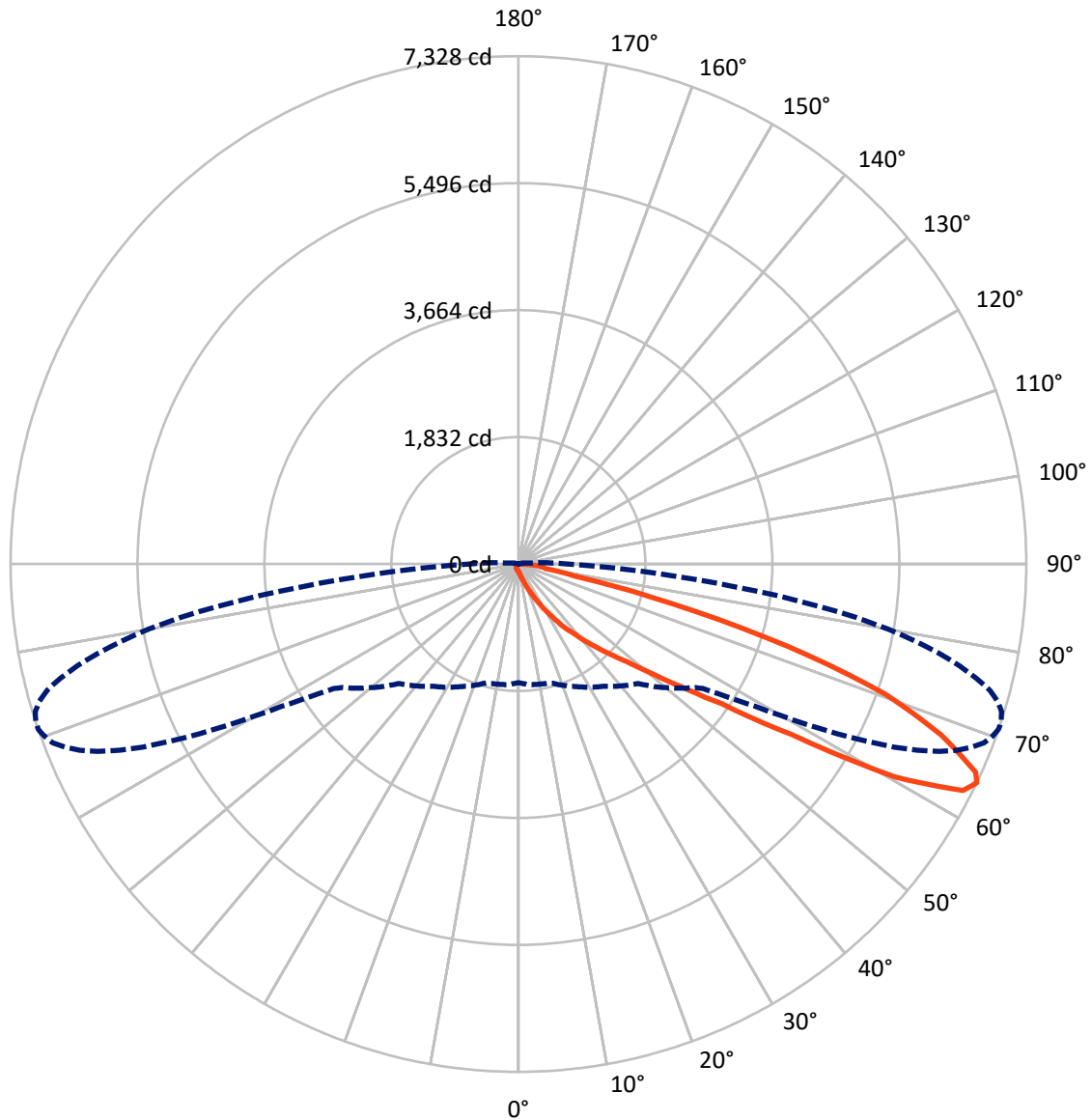
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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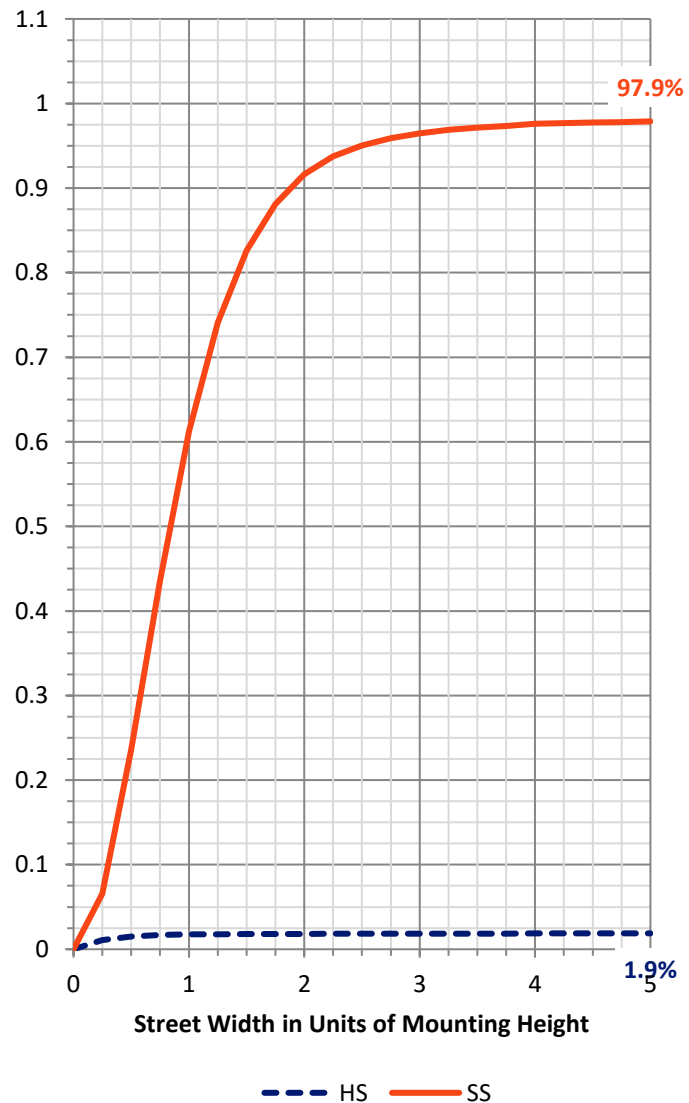
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	93.2	0.0	93.2
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	4772.4	0.0	4772.4
	% Fixture	98.1	0.0	98.1
Total	Lumens	4865.7	0.0	4865.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.9	0.3
10°-20°	88.0	1.8
20°-30°	224.7	4.6
30°-40°	454.5	9.3
40°-50°	830.8	17.1
50°-60°	1294.4	26.6
60°-70°	1438.7	29.6
70°-80°	469.2	9.6
80°-90°	50.5	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°	4865.7	100.0
0°-180°	4865.7	100.0



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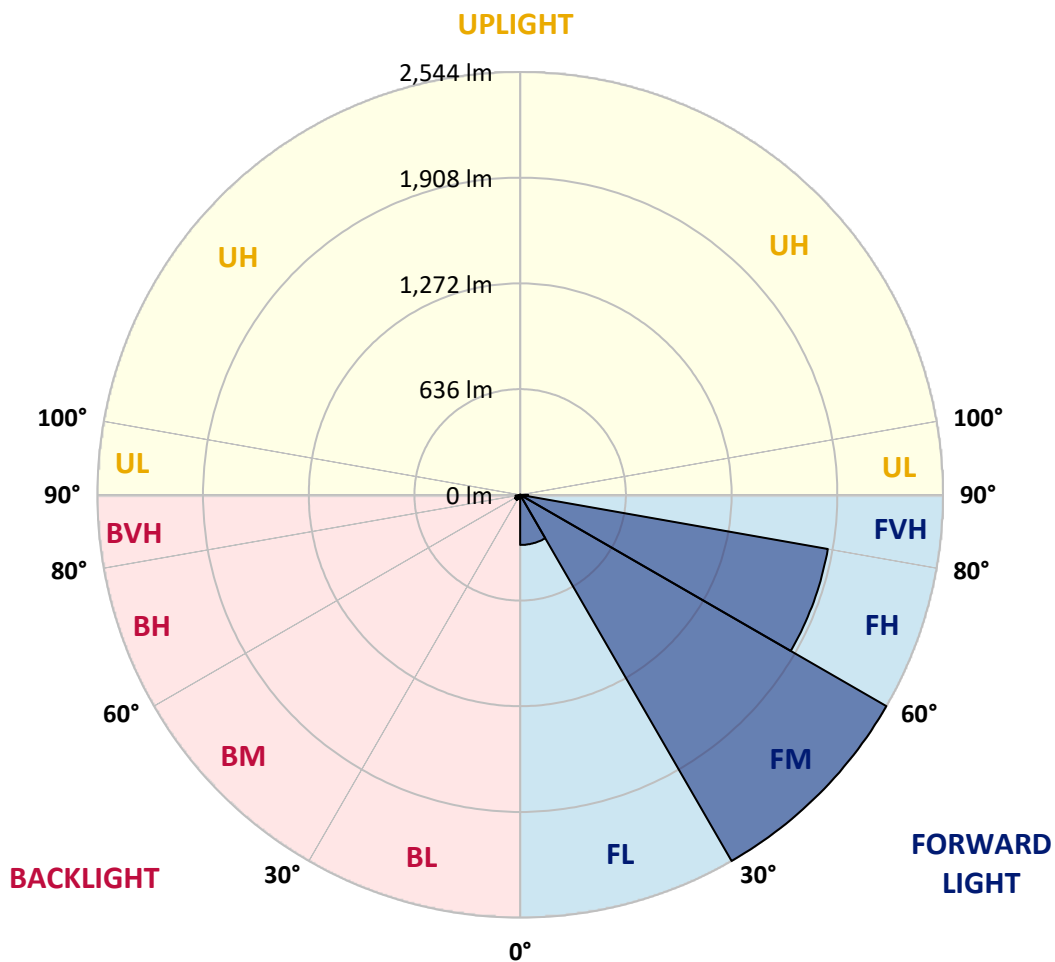
CATALOG NUMBER: ICS-E04-LED-E1-T2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.6	6.2			
FM	(30°-60°)	2543.6	52.3			
FH	(60°-80°)	1879.1	38.6			G2/5000
FVH	(80°-90°)	48.0	1.0			G1/100
BL	(0°-30°)	25.9	0.5	B0/110		
BM	(30°-60°)	36.0	0.7	B0/220		
BH	(60°-80°)	28.8	0.6	B0/110		G0/110
BVH	(80°-90°)	2.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4
2.5°	145.8	143.8	143.8	140.8	136.7	132.7	128.6	127.6	126.6	125.6	125.6
5°	228.9	220.8	217.8	206.6	192.4	175.2	160.0	156.0	156.0	152.9	150.9
7.5°	359.6	355.5	334.2	323.1	289.7	248.1	204.6	200.5	199.5	195.5	189.4
10°	526.7	518.6	503.4	471.0	410.2	338.3	276.5	266.4	259.3	251.2	243.1
12.5°	693.8	683.7	661.4	608.7	547.9	455.8	356.5	347.4	336.3	325.1	312.0
15°	860.9	853.8	819.4	766.7	687.7	577.3	451.7	435.5	426.4	404.1	394.0
17.5°	1005.8	996.6	969.3	909.5	827.5	706.0	557.1	536.8	521.6	508.4	484.1
20°	1131.3	1122.2	1095.9	1046.3	954.1	834.6	670.5	660.4	633.0	612.8	598.6
22.5°	1208.3	1205.3	1188.1	1140.5	1058.4	952.1	800.1	783.9	765.7	738.4	722.2
25°	1255.9	1252.9	1242.8	1209.3	1153.6	1075.6	943.0	922.7	906.5	882.2	861.9
27.5°	1305.6	1303.5	1295.4	1266.1	1236.7	1188.1	1087.8	1076.7	1041.2	1027.0	1007.8
30°	1387.6	1378.5	1385.6	1371.4	1333.9	1303.5	1233.6	1217.4	1202.2	1177.9	1160.7
32.5°	1518.3	1503.1	1518.3	1503.1	1486.9	1450.4	1383.5	1378.5	1363.3	1348.1	1323.8
35°	1678.3	1672.2	1684.4	1697.5	1684.4	1635.7	1554.7	1539.5	1533.4	1509.1	1500.0
37.5°	1839.3	1850.5	1872.7	1902.1	1894.0	1858.6	1744.1	1729.9	1718.8	1697.5	1681.3
40°	2012.5	2013.5	2061.1	2103.7	2124.9	2103.7	1952.8	1941.6	1926.4	1896.0	1892.0
42.5°	2200.9	2192.8	2228.3	2275.9	2319.4	2348.8	2228.3	2207.0	2185.7	2151.3	2128.0
45°	2368.0	2368.0	2396.4	2441.0	2507.8	2581.7	2518.9	2496.7	2476.4	2448.0	2421.7
47.5°	2491.6	2492.6	2509.8	2574.6	2679.0	2789.4	2791.4	2795.5	2780.3	2746.8	2747.8
50°	2578.7	2567.6	2590.9	2653.7	2774.2	2947.4	3072.0	3079.0	3091.2	3063.9	3072.0
52.5°	2642.5	2637.4	2652.6	2705.3	2825.8	3037.5	3301.9	3332.3	3350.5	3354.5	3388.0
55°	2609.1	2612.1	2648.6	2724.6	2854.2	3097.3	3497.4	3547.0	3589.5	3626.0	3667.5
57.5°	2498.7	2507.8	2571.6	2690.1	2860.3	3145.9	3705.0	3780.9	3861.0	3958.2	4040.2
60°	2322.5	2343.7	2429.8	2595.9	2801.5	3082.1	3766.8	3883.2	4005.8	4153.7	4318.8
62.5°	2064.2	2068.2	2124.9	2286.0	2512.9	2742.8	3483.2	3632.1	3794.1	4007.8	4238.8
64°	1710.7	1747.2	1773.5	1950.7	2153.3	2439.9	3108.4	3211.7	3437.6	3699.9	3990.6
65°	1411.9	1455.5	1476.7	1654.0	1885.9	2159.4	2782.3	2892.7	3130.7	3397.1	3759.7
67.5°	832.6	803.2	865.0	969.3	1163.8	1487.9	1876.8	1960.9	2138.1	2455.1	2744.8
70°	536.8	536.8	593.5	699.9	880.2	1128.3	1289.4	1253.9	1291.4	1413.9	1618.5
72.5°	344.4	362.6	397.0	487.2	654.3	946.0	1317.7	1150.6	1063.5	1023.0	1020.9
75°	157.0	167.1	204.6	258.3	349.4	616.8	1328.9	1255.9	1175.9	1098.9	1039.2
77.5°	33.4	38.5	64.8	133.7	170.2	284.6	943.0	1052.3	1139.4	1164.8	1164.8
80°	17.2	18.2	27.3	62.8	72.9	96.2	363.6	478.1	589.5	736.3	890.3
82.5°	7.1	8.1	16.2	28.4	30.4	29.4	96.2	121.5	167.1	243.1	362.6
85°	2.0	2.0	7.1	11.1	16.2	13.2	21.3	24.3	31.4	45.6	87.1
87.5°	0.0	0.0	1.0	2.0	3.0	5.1	6.1	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4
2.5°	124.6	124.6	123.6	122.6	122.6	120.5	120.5	119.5	119.5	118.5	118.5
5°	149.9	147.9	145.8	142.8	141.8	139.8	137.7	135.7	133.7	132.7	130.7
7.5°	186.4	184.3	178.3	174.2	169.1	166.1	162.1	159.0	156.0	154.0	149.9
10°	235.0	227.9	224.9	210.7	207.6	200.5	194.5	190.4	182.3	177.2	172.2
12.5°	303.9	290.7	285.6	261.3	254.2	244.1	237.0	226.9	217.8	211.7	202.6
15°	381.8	371.7	352.5	328.2	315.0	303.9	286.6	278.5	266.4	253.2	240.0
17.5°	475.0	456.8	435.5	404.1	387.9	370.7	354.5	337.3	317.0	304.9	290.7
20°	583.4	564.2	537.8	498.3	479.1	461.9	433.5	421.3	397.0	372.7	354.5
22.5°	701.9	682.7	657.3	612.8	587.4	559.1	535.8	514.5	486.2	461.9	440.6
25°	835.6	813.3	794.1	742.4	711.0	681.6	656.3	618.8	594.5	566.2	536.8
27.5°	987.5	961.2	935.9	879.1	849.8	817.4	787.0	747.5	724.2	677.6	650.2
30°	1143.5	1111.1	1084.8	1027.0	1000.7	967.3	925.7	890.3	850.8	819.4	774.8
32.5°	1307.6	1281.2	1260.0	1199.2	1165.8	1124.3	1086.8	1049.3	1014.9	964.2	923.7
35°	1482.8	1459.5	1436.2	1383.5	1354.2	1322.8	1280.2	1234.7	1187.1	1134.4	1097.9
37.5°	1667.1	1648.9	1630.7	1566.9	1532.4	1499.0	1450.4	1404.8	1362.3	1306.6	1244.8
40°	1860.6	1843.4	1814.0	1761.3	1724.9	1694.5	1649.9	1607.4	1549.7	1487.9	1433.2
42.5°	2103.7	2066.2	2040.9	1983.1	1944.7	1911.2	1871.7	1807.9	1759.3	1685.4	1632.7
45°	2388.3	2352.8	2311.3	2252.6	2205.0	2150.3	2094.6	2051.0	1990.2	1923.4	1855.5
47.5°	2708.3	2680.0	2631.4	2573.6	2526.0	2471.3	2405.5	2349.8	2275.9	2197.9	2105.7
50°	3060.8	3031.4	2999.0	2934.2	2886.6	2835.0	2783.3	2717.5	2650.6	2557.4	2462.2
52.5°	3388.0	3394.0	3374.8	3344.4	3321.1	3267.4	3219.8	3157.0	3098.3	3013.2	2939.3
55°	3711.1	3763.7	3784.0	3813.4	3823.5	3779.9	3778.9	3686.8	3651.3	3601.7	3559.1
57.5°	4137.5	4253.9	4346.1	4524.4	4599.3	4675.3	4689.5	4624.6	4691.5	4605.4	4634.8
60°	4500.1	4713.8	4942.7	5403.5	5634.5	5808.7	5948.4	6051.7	6118.6	6232.0	6238.1
62.5°	4532.5	4868.7	5217.2	5889.7	6205.7	6470.0	6722.2	6898.5	7038.3	7166.9	7198.3
64°	4377.5	4793.8	5217.2	6030.5	6353.6	6647.3	6877.2	7052.4	7195.2	7275.3	7327.9
65°	4095.9	4561.9	5049.0	5937.3	6270.5	6582.5	6802.3	6978.5	7113.2	7193.2	7247.9
67.5°	3034.5	3485.2	3974.4	5008.5	5533.2	5818.8	6100.4	6347.5	6455.9	6557.2	6576.4
70°	1849.5	2176.6	2513.9	3473.0	3960.2	4473.7	4790.8	5152.3	5405.5	5561.5	5613.2
72.5°	1116.2	1229.6	1431.1	1946.7	2413.6	2774.2	3212.7	3558.1	3841.7	3998.7	4077.7
75°	993.6	979.4	1005.8	1220.5	1386.6	1603.3	1762.3	1979.1	2154.3	2209.0	2311.3
77.5°	1148.6	1108.1	1066.5	1026.0	1017.9	997.7	965.2	973.3	896.4	822.4	824.5
80°	1023.0	1120.2	1177.9	1135.4	1039.2	941.9	822.4	673.5	526.7	435.5	397.0
82.5°	513.5	730.3	938.9	1145.5	1131.3	1045.3	913.6	750.5	581.4	446.7	356.5
85°	158.0	280.6	395.0	549.0	637.1	624.9	549.0	533.8	380.8	296.8	228.9
87.5°	7.1	7.1	7.1	6.1	7.1	7.1	7.1	8.1	8.1	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4
2.5°	118.5	117.5	116.5	115.5	115.5	115.5	114.5	114.5	113.4	113.4	112.4
5°	130.7	128.6	127.6	125.6	125.6	123.6	122.6	121.5	119.5	118.5	117.5
7.5°	146.9	144.8	141.8	138.8	137.7	134.7	131.7	129.6	127.6	125.6	123.6
10°	168.1	164.1	158.0	154.0	150.9	146.9	142.8	139.8	135.7	131.7	129.6
12.5°	195.5	187.4	181.3	174.2	168.1	162.1	155.0	150.9	146.9	140.8	136.7
15°	226.9	218.8	211.7	199.5	189.4	181.3	175.2	166.1	159.0	150.9	144.8
17.5°	280.6	259.3	245.1	233.0	222.8	207.6	195.5	185.4	176.2	166.1	159.0
20°	333.2	315.0	295.8	281.6	259.3	246.1	229.9	215.7	199.5	187.4	175.2
22.5°	410.2	386.9	362.6	341.3	310.9	292.7	271.4	253.2	233.0	212.7	199.5
25°	507.4	473.0	440.6	410.2	381.8	354.5	327.1	297.8	276.5	252.2	229.9
27.5°	609.7	571.2	539.8	500.3	463.9	430.5	396.0	364.6	328.2	296.8	270.4
30°	738.4	685.7	649.2	601.6	565.2	518.6	476.0	434.5	389.9	353.5	316.0
32.5°	869.0	833.6	771.8	731.3	676.6	620.9	576.3	528.7	474.0	426.4	380.8
35°	1041.2	980.4	928.8	872.1	812.3	754.6	696.8	629.0	573.3	514.5	458.8
37.5°	1193.1	1131.3	1071.6	997.7	929.8	869.0	799.1	728.2	662.4	592.5	525.7
40°	1369.4	1292.4	1221.5	1152.6	1068.6	996.6	923.7	835.6	759.6	682.7	603.7
42.5°	1561.8	1483.8	1399.8	1320.7	1228.6	1140.5	1050.3	962.2	877.1	783.9	691.8
45°	1772.5	1690.4	1596.2	1506.1	1405.8	1308.6	1201.2	1099.9	999.7	895.4	789.0
47.5°	2033.8	1928.5	1841.4	1728.9	1604.3	1502.0	1370.4	1254.9	1140.5	1018.9	899.4
50°	2372.1	2252.6	2127.0	2002.4	1864.6	1735.0	1589.2	1452.4	1299.5	1163.8	1027.0
52.5°	2820.8	2731.6	2585.8	2443.0	2274.8	2109.8	1909.2	1732.0	1535.5	1362.3	1195.2
55°	3457.9	3399.1	3272.5	3116.5	2969.7	2728.6	2497.7	2222.2	1966.9	1717.8	1482.8
57.5°	4611.5	4547.7	4406.9	4369.4	4143.5	3966.3	3695.9	3339.3	2906.9	2526.0	2146.2
60°	6272.5	6148.0	6010.2	5984.9	5719.5	5533.2	5264.8	4884.9	4477.8	3870.1	3352.5
62.5°	7200.3	7162.8	7051.4	6914.7	6684.8	6408.3	6106.4	5738.8	5325.5	4792.8	4177.0
64°	7324.9	7290.5	7194.2	7040.3	6809.4	6534.9	6200.6	5834.0	5419.7	4933.6	4371.4
65°	7246.9	7198.3	7116.2	6974.4	6759.7	6496.4	6160.1	5788.4	5368.1	4900.1	4377.5
67.5°	6617.9	6595.6	6520.7	6389.0	6254.3	6017.3	5721.6	5389.3	5046.0	4582.1	4153.7
70°	5619.3	5603.1	5507.8	5455.2	5232.4	5082.5	4843.4	4582.1	4278.3	3955.2	3590.5
72.5°	4165.8	4111.1	4034.2	3954.1	3803.2	3597.6	3411.3	3132.7	2975.7	2703.3	2497.7
75°	2209.0	2174.6	2055.1	1887.9	1701.6	1605.4	1411.9	1238.7	1101.0	1039.2	890.3
77.5°	763.7	695.8	629.0	554.0	439.6	346.4	276.5	220.8	174.2	154.0	128.6
80°	380.8	361.6	340.3	297.8	250.2	201.6	158.0	124.6	102.3	87.1	78.0
82.5°	308.9	273.5	244.1	213.7	171.2	140.8	111.4	91.2	75.0	65.8	57.7
85°	182.3	139.8	106.3	96.2	75.0	64.8	55.7	47.6	40.5	38.5	35.4
87.5°	7.1	9.1	9.1	7.1	9.1	8.1	8.1	7.1	7.1	7.1	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4	108.4
2.5°	112.4	111.4	111.4	110.4	109.4	109.4	109.4	108.4	106.3	102.3	99.3
5°	116.5	115.5	114.5	112.4	111.4	110.4	109.4	109.4	104.3	97.2	92.2
7.5°	121.5	119.5	117.5	115.5	114.5	112.4	110.4	109.4	102.3	93.2	88.1
10°	126.6	123.6	120.5	119.5	116.5	114.5	111.4	109.4	101.3	90.1	83.1
12.5°	132.7	128.6	124.6	121.5	117.5	115.5	112.4	109.4	99.3	87.1	79.0
15°	139.8	133.7	128.6	125.6	121.5	116.5	112.4	109.4	97.2	84.1	75.0
17.5°	148.9	141.8	135.7	129.6	123.6	118.5	114.5	110.4	94.2	80.0	69.9
20°	163.1	154.0	143.8	136.7	128.6	122.6	115.5	110.4	92.2	76.0	65.8
22.5°	182.3	168.1	157.0	144.8	134.7	126.6	118.5	112.4	89.1	71.9	60.8
25°	209.7	191.4	173.2	158.0	144.8	133.7	123.6	115.5	87.1	68.9	57.7
27.5°	240.0	218.8	194.5	176.2	158.0	141.8	130.7	120.5	87.1	66.8	54.7
30°	282.6	252.2	222.8	199.5	175.2	157.0	140.8	127.6	87.1	65.8	51.7
32.5°	334.2	299.8	262.3	228.9	200.5	174.2	154.0	136.7	89.1	63.8	49.6
35°	406.2	355.5	310.9	269.4	231.9	201.6	175.2	151.9	92.2	62.8	46.6
37.5°	462.9	402.1	345.4	297.8	254.2	216.7	183.3	158.0	89.1	58.7	43.6
40°	530.7	461.9	393.0	333.2	283.6	235.0	196.5	166.1	87.1	53.7	39.5
42.5°	612.8	526.7	446.7	378.8	317.0	259.3	213.7	176.2	87.1	50.6	36.5
45°	689.7	595.6	506.4	421.3	349.4	285.6	229.9	187.4	86.1	47.6	32.4
47.5°	785.0	673.5	569.2	471.0	387.9	309.9	247.1	197.5	85.1	44.6	29.4
50°	897.4	761.7	644.2	526.7	425.4	339.3	267.4	208.6	83.1	41.5	26.3
52.5°	1022.0	876.1	726.2	590.5	472.0	370.7	286.6	218.8	80.0	38.5	23.3
55°	1242.8	1042.2	865.0	696.8	542.9	417.3	315.0	234.0	77.0	35.4	20.3
57.5°	1772.5	1440.3	1189.1	935.9	715.1	535.8	392.0	277.5	72.9	31.4	16.2
60°	2783.3	2235.3	1808.9	1419.0	1081.7	822.4	577.3	410.2	78.0	26.3	14.2
62.5°	3570.3	2940.3	2397.4	1908.2	1481.8	1126.3	840.7	612.8	112.4	23.3	11.1
64°	3775.9	3137.8	2558.4	2045.9	1602.3	1235.7	937.9	692.8	144.8	23.3	10.1
65°	3806.3	3198.6	2616.2	2096.6	1643.8	1265.0	966.3	719.1	158.0	24.3	9.1
67.5°	3680.7	3163.1	2633.4	2117.9	1675.2	1305.6	1004.7	760.6	178.3	23.3	7.1
70°	3214.8	2833.9	2398.4	1981.1	1580.0	1240.7	966.3	737.4	186.4	22.3	6.1
72.5°	2187.7	1925.4	1668.2	1372.4	1099.9	906.5	704.9	519.6	130.7	18.2	5.1
75°	729.2	711.0	636.1	482.1	405.1	329.2	263.3	202.6	49.6	11.1	5.1
77.5°	121.5	104.3	91.2	87.1	72.9	70.9	61.8	49.6	21.3	7.1	5.1
80°	70.9	64.8	56.7	50.6	44.6	39.5	33.4	28.4	13.2	5.1	6.1
82.5°	52.7	46.6	41.5	36.5	31.4	27.3	23.3	19.2	7.1	5.1	6.1
85°	30.4	26.3	23.3	20.3	16.2	14.2	12.2	10.1	5.1	5.1	5.1
87.5°	6.1	6.1	5.1	5.1	5.1	5.1	5.1	4.1	5.1	5.1	4.1
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: P181225

CATALOG NUMBER: ICS-E04-LED-E1-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	108.4	108.4	108.4	108.4	108.4	108.4	108.4
2.5°	97.2	94.2	93.2	93.2	93.2	93.2	93.2
5°	89.1	86.1	84.1	83.1	83.1	83.1	83.1
7.5°	83.1	79.0	77.0	75.0	75.0	73.9	73.9
10°	77.0	72.9	69.9	67.9	66.8	66.8	66.8
12.5°	71.9	67.9	63.8	61.8	61.8	60.8	60.8
15°	67.9	61.8	58.7	56.7	56.7	55.7	55.7
17.5°	62.8	57.7	54.7	52.7	51.7	51.7	51.7
20°	57.7	52.7	49.6	48.6	47.6	47.6	46.6
22.5°	53.7	48.6	45.6	44.6	43.6	43.6	42.5
25°	49.6	44.6	41.5	40.5	39.5	38.5	38.5
27.5°	46.6	41.5	38.5	36.5	35.4	34.4	34.4
30°	43.6	37.5	34.4	32.4	31.4	30.4	30.4
32.5°	40.5	34.4	30.4	28.4	27.3	26.3	26.3
35°	36.5	30.4	26.3	25.3	24.3	23.3	22.3
37.5°	33.4	26.3	23.3	21.3	20.3	19.2	19.2
40°	29.4	23.3	20.3	18.2	16.2	15.2	15.2
42.5°	26.3	20.3	17.2	14.2	13.2	12.2	12.2
45°	23.3	18.2	14.2	11.1	10.1	9.1	9.1
47.5°	20.3	15.2	11.1	9.1	8.1	7.1	7.1
50°	17.2	12.2	8.1	6.1	7.1	6.1	6.1
52.5°	15.2	9.1	6.1	6.1	6.1	6.1	6.1
55°	12.2	7.1	5.1	5.1	6.1	6.1	6.1
57.5°	10.1	5.1	4.1	5.1	5.1	5.1	5.1
60°	7.1	4.1	4.1	5.1	5.1	5.1	5.1
62.5°	6.1	4.1	4.1	4.1	5.1	5.1	5.1
64°	5.1	4.1	4.1	4.1	5.1	5.1	5.1
65°	5.1	4.1	4.1	4.1	5.1	5.1	5.1
67.5°	5.1	4.1	4.1	4.1	5.1	5.1	5.1
70°	4.1	4.1	4.1	4.1	5.1	5.1	5.1
72.5°	4.1	4.1	4.1	4.1	5.1	5.1	5.1
75°	4.1	4.1	4.1	4.1	5.1	5.1	5.1
77.5°	4.1	4.1	4.1	5.1	5.1	5.1	5.1
80°	4.1	4.1	4.1	5.1	5.1	5.1	5.1
82.5°	4.1	4.1	4.1	5.1	5.1	5.1	5.1
85°	4.1	4.1	4.1	5.1	5.1	5.1	5.1
87.5°	4.1	4.1	4.1	5.1	5.1	5.1	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)