

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: P180827

Luminaire Tested: **ICS-E02-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180827
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-E02-LED-E1-SL4-HSS-7030
Description: ICON SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3345.5 lumens
Efficiency: N/A
Efficacy: 64.2 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: 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



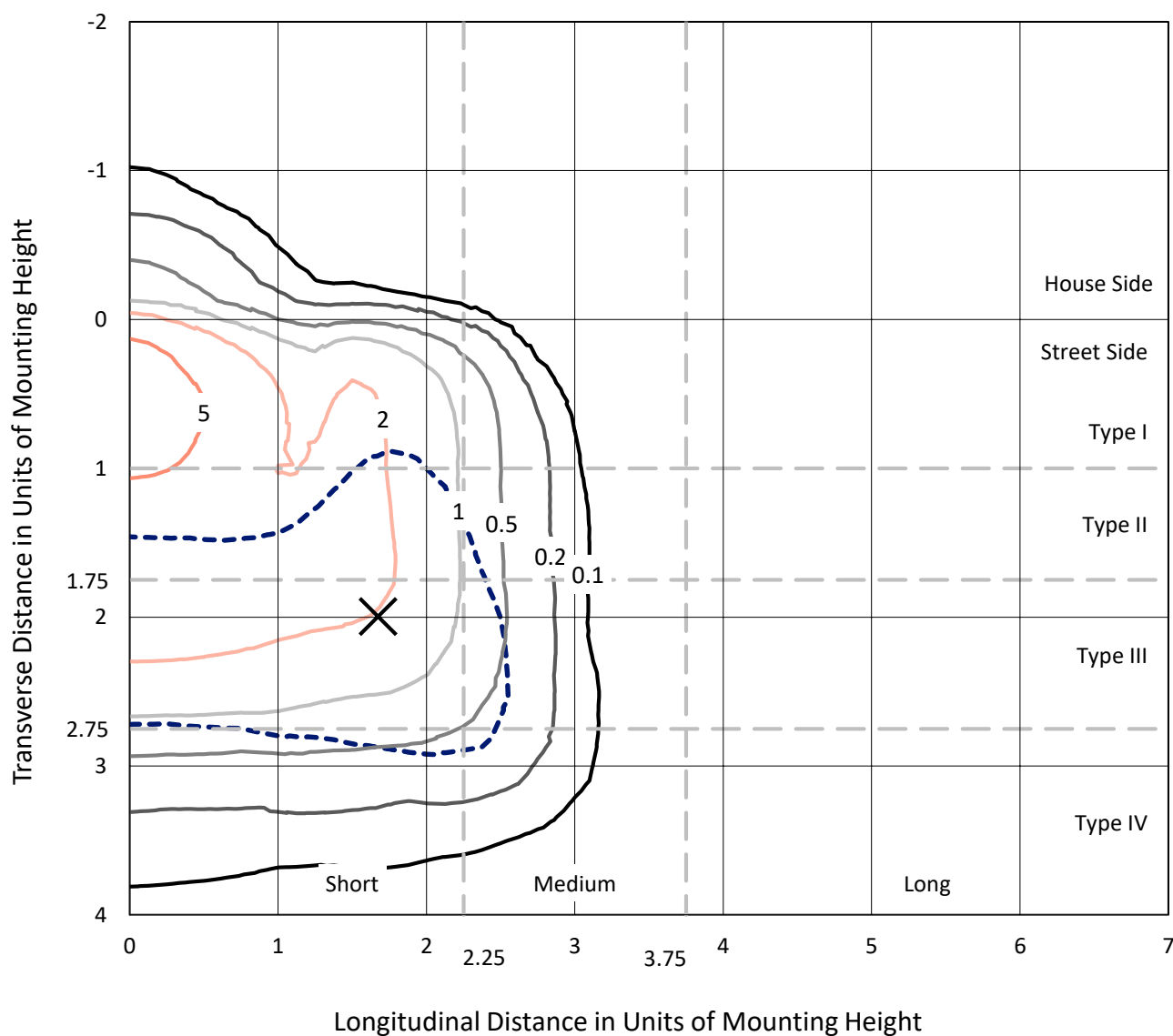
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

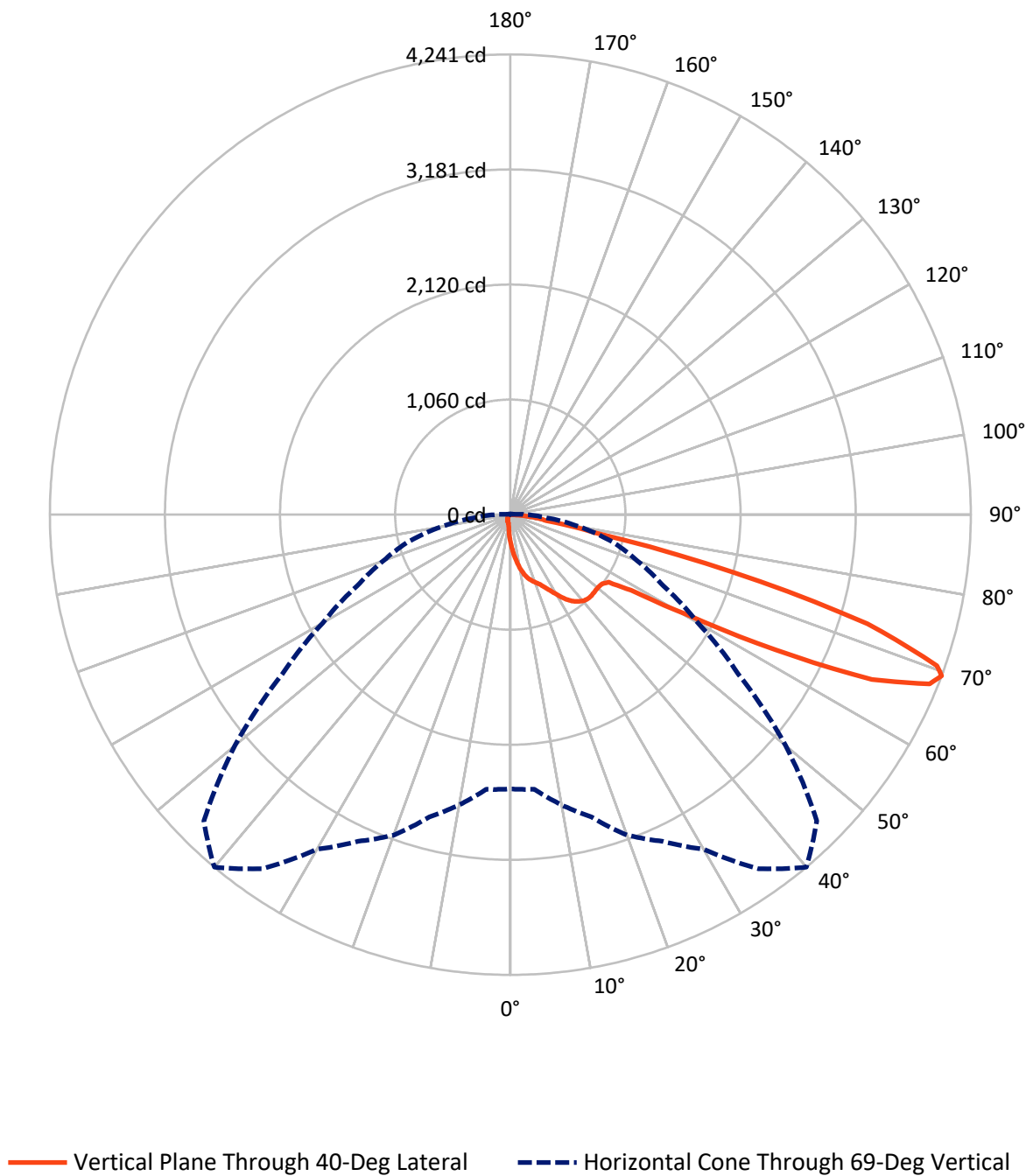


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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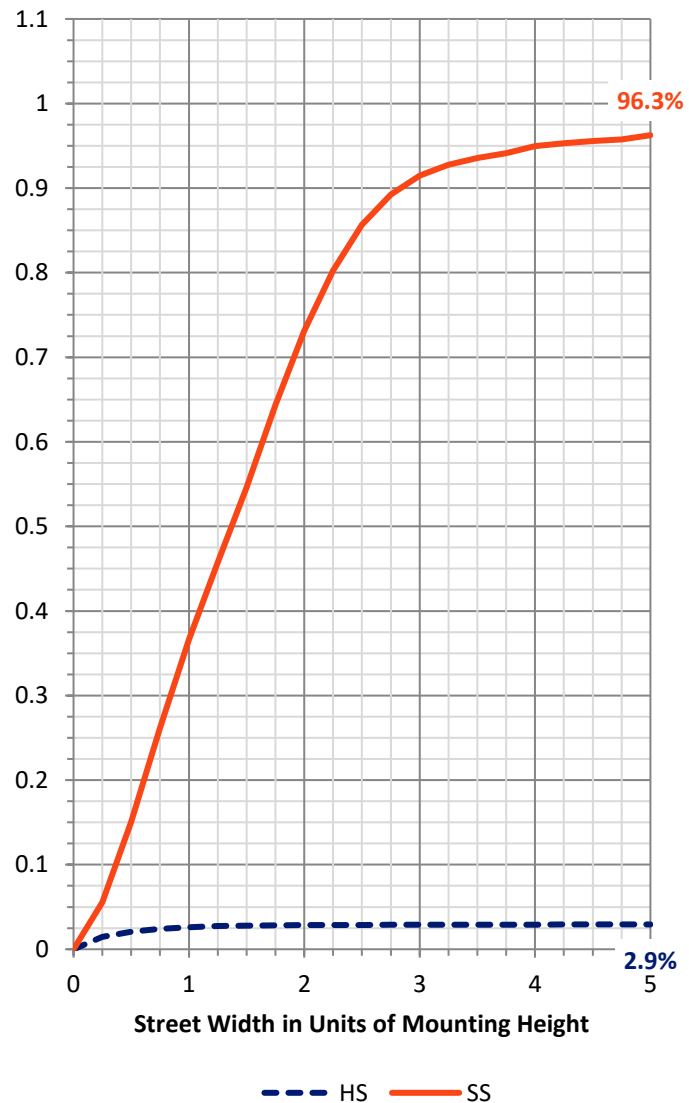
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	99.6	0.0	99.6
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	3245.8	0.0	3245.8
	% Fixture	97.0	0.0	97.0
Total	Lumens	3345.5	0.0	3345.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	0.8
10°-20°	89.5	2.7
20°-30°	171.4	5.1
30°-40°	285.0	8.5
40°-50°	385.6	11.5
50°-60°	603.1	18.0
60°-70°	1239.9	37.1
70°-80°	498.9	14.9
80°-90°	46.1	1.4
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°	3345.5	100.0
0°-180°	3345.5	100.0

Coefficient of Utilization



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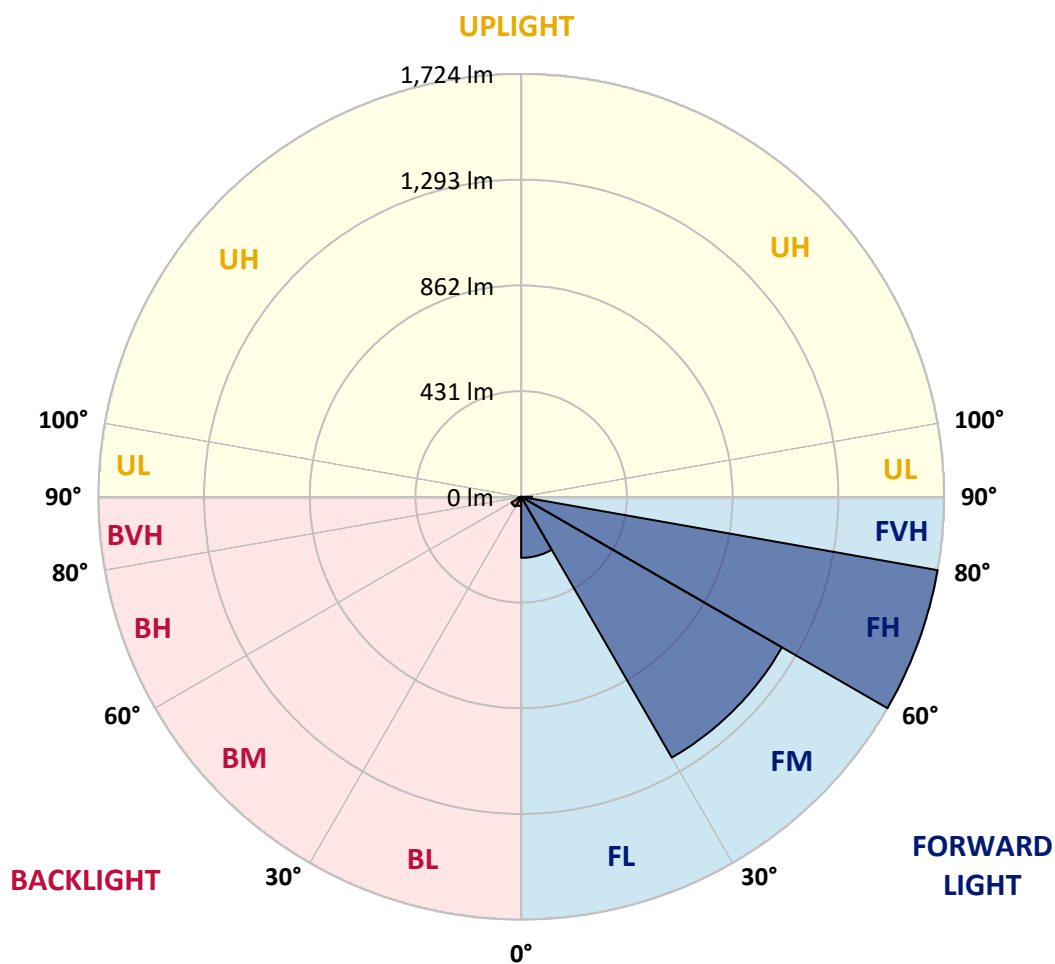
CATALOG NUMBER: ICS-E02-LED-E1-SL4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	249.0	7.4			
FM	(30°-60°)	1228.2	36.7			
FH	(60°-80°)	1724.3	51.5			G1/1800
FVH	(80°-90°)	44.4	1.3			G1/100
BL	(0°-30°)	37.9	1.1	B0/110		
BM	(30°-60°)	45.5	1.4	B0/220		
BH	(60°-80°)	14.5	0.4	B0/110		G0/110
BVH	(80°-90°)	1.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6
2.5°	337.0	333.2	328.8	328.8	323.3	323.3	320.1	311.3	310.2	305.3	300.3
5°	430.2	426.9	421.4	416.5	412.1	404.5	399.0	388.6	377.1	366.1	356.2
7.5°	521.2	519.5	509.7	508.0	500.9	488.3	477.3	462.0	442.3	426.9	408.8
10°	605.6	601.7	599.6	590.2	579.8	566.1	549.1	530.5	507.5	483.4	457.6
12.5°	672.4	670.3	660.4	656.6	645.6	631.9	610.5	586.4	563.4	532.1	502.0
15°	722.3	718.5	711.9	705.9	692.7	680.7	660.9	634.6	606.7	572.7	536.5
17.5°	764.0	756.8	755.2	745.9	732.2	717.9	696.0	671.9	639.0	605.0	565.6
20°	819.9	810.0	806.7	793.0	777.1	757.4	732.2	702.0	667.5	630.2	589.7
22.5°	885.6	878.5	871.4	859.3	839.0	811.1	774.4	741.5	697.7	656.6	612.7
25°	978.8	972.8	961.3	944.8	919.6	886.2	841.8	793.6	742.0	689.4	637.9
27.5°	1069.2	1063.7	1055.5	1042.9	1014.4	977.7	922.9	861.5	796.3	732.7	675.7
30°	1154.2	1149.2	1141.0	1128.4	1103.2	1067.0	1005.1	939.3	858.2	784.2	715.7
32.5°	1245.7	1244.1	1234.7	1216.6	1194.7	1146.0	1078.5	1007.8	925.6	840.1	760.1
35°	1349.3	1336.7	1327.9	1309.8	1272.5	1220.5	1141.6	1064.3	977.7	890.0	800.7
37.5°	1437.0	1424.9	1413.9	1390.9	1345.4	1279.1	1189.8	1104.8	1015.5	926.2	835.2
40°	1501.1	1495.1	1481.9	1451.8	1400.8	1321.9	1225.4	1132.8	1042.9	953.0	863.2
42.5°	1548.8	1539.4	1524.6	1493.4	1433.1	1343.2	1239.7	1144.3	1055.5	969.5	881.2
45°	1566.3	1558.6	1544.9	1510.9	1445.7	1349.3	1239.1	1141.0	1056.1	974.4	893.3
47.5°	1555.9	1548.2	1536.2	1504.4	1440.2	1342.1	1229.3	1131.7	1050.6	976.1	904.3
50°	1521.4	1517.0	1507.7	1480.8	1423.3	1328.4	1220.5	1126.8	1049.5	984.3	919.6
52.5°	1518.1	1515.3	1503.8	1477.0	1418.3	1324.1	1219.4	1129.5	1058.8	994.7	930.6
55°	1855.1	1816.2	1729.1	1655.1	1533.4	1388.7	1274.7	1173.9	1098.3	1035.8	990.9
57.5°	2636.6	2578.5	2464.0	2323.1	2043.6	1769.1	1549.3	1390.4	1312.0	1283.5	1300.5
60°	3002.7	2992.3	2974.2	2907.4	2764.3	2528.1	2265.0	1980.6	1866.6	1856.8	1891.3
62.5°	3176.4	3169.9	3175.3	3167.1	3122.7	3053.7	2978.0	2855.3	2742.4	2669.5	2515.0
65°	3256.5	3260.8	3292.1	3316.7	3322.2	3340.3	3395.7	3548.6	3660.4	3472.4	3043.3
67.5°	3053.1	3078.9	3150.7	3240.6	3345.8	3447.7	3612.1	3934.4	4164.0	3943.1	3333.7
69°	2527.6	2540.2	2715.5	2884.9	3141.9	3321.7	3560.1	3982.6	4240.7	3991.4	3310.7
70°	1989.9	2001.4	2189.4	2419.6	2854.2	3085.5	3397.3	3900.9	4168.9	3927.3	3192.3
72.5°	897.7	881.2	947.6	1070.9	1543.3	1910.5	2455.8	3160.5	3439.5	3146.3	2388.4
75°	627.0	619.8	627.0	627.5	700.9	904.3	1141.0	1713.2	2118.7	1828.3	1141.0
77.5°	485.6	480.6	475.7	470.2	479.0	536.5	559.5	607.8	789.2	746.4	435.1
80°	384.2	379.8	391.8	388.0	388.0	394.6	390.2	372.1	338.1	313.5	280.6
82.5°	178.7	179.8	179.8	195.1	235.1	274.6	287.2	269.1	238.9	203.3	163.9
85°	17.0	19.2	32.3	49.9	99.2	111.8	112.3	93.2	93.2	73.4	59.2
87.5°	0.0	0.5	0.5	0.5	4.9	13.7	11.5	3.3	1.6	1.6	2.7
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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CATALOG NUMBER: ICS-E02-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6
2.5°	291.6	289.9	283.3	276.8	270.7	264.2	258.1	252.1	245.5	240.6	234.6
5°	340.9	328.8	315.1	302.0	288.8	275.1	260.9	248.3	235.1	223.1	211.5
7.5°	390.8	367.2	348.6	325.0	303.6	282.2	262.5	242.2	223.6	206.1	189.6
10°	433.0	404.5	375.4	345.3	314.6	286.1	258.7	234.6	209.9	188.5	168.2
12.5°	467.5	431.3	395.7	357.9	323.3	287.2	253.2	224.1	195.1	171.0	150.2
15°	498.7	457.1	414.3	370.5	326.6	285.5	247.7	211.5	181.9	154.5	131.0
17.5°	523.9	476.2	428.0	378.7	331.6	283.3	240.6	202.8	168.2	139.8	116.7
20°	545.8	496.0	443.9	388.6	334.9	282.8	234.6	191.8	156.2	126.0	103.6
22.5°	566.1	516.3	460.4	401.2	339.8	282.2	229.1	183.6	145.8	115.6	93.2
25°	589.1	536.5	477.9	414.3	348.6	284.4	225.8	177.0	136.5	105.8	84.9
27.5°	614.9	559.5	498.7	430.8	360.1	288.8	224.7	169.9	128.2	96.5	78.4
30°	651.1	587.0	519.5	447.2	370.5	293.7	223.6	165.5	120.0	89.3	71.8
32.5°	682.9	613.8	542.6	464.2	382.0	298.7	223.1	159.5	112.3	82.2	66.9
35°	716.3	638.5	562.3	480.6	391.8	304.2	222.5	155.1	105.2	75.1	61.9
37.5°	745.3	659.3	577.6	494.9	402.8	309.1	223.1	151.3	98.6	69.1	57.5
40°	770.0	680.7	594.6	508.0	414.3	316.8	223.6	147.4	92.1	63.6	53.7
42.5°	791.9	700.9	612.7	522.8	427.5	325.5	226.9	144.1	86.6	58.6	49.9
45°	808.9	719.6	632.4	543.7	448.8	339.8	232.9	141.9	81.1	54.3	46.6
47.5°	826.4	747.0	665.9	576.5	480.1	362.3	243.3	141.4	76.7	51.0	43.8
50°	850.6	774.4	695.5	610.0	508.6	385.3	255.9	141.9	71.2	47.7	41.1
52.5°	868.1	802.3	733.8	668.1	576.5	455.4	304.7	151.8	68.5	44.9	37.8
55°	971.7	960.2	961.8	972.8	902.1	774.9	509.7	219.2	80.6	51.0	37.3
57.5°	1370.1	1410.7	1434.2	1433.7	1316.9	1092.2	684.5	281.7	89.9	59.2	44.4
60°	1894.0	1863.3	1820.0	1713.2	1558.1	1246.8	765.6	303.1	77.8	47.1	40.6
62.5°	2357.1	2177.4	2017.9	1844.7	1641.4	1300.5	782.1	301.4	68.0	35.6	28.5
65°	2645.9	2322.6	2065.0	1848.0	1608.5	1255.6	739.9	276.8	57.5	29.0	23.6
67.5°	2715.0	2244.2	1879.8	1603.0	1343.8	977.2	543.1	208.3	44.9	24.1	20.8
69°	2564.3	1994.9	1557.5	1243.5	977.7	648.3	335.9	131.5	34.5	21.9	19.2
70°	2358.8	1735.1	1268.7	998.0	724.0	455.4	235.1	92.6	28.0	20.3	17.5
72.5°	1517.5	911.4	623.7	434.0	298.7	181.4	92.1	41.7	21.4	17.0	14.2
75°	588.6	337.0	244.4	185.8	145.2	100.8	55.9	26.9	18.1	14.2	11.0
77.5°	289.9	222.0	181.4	124.4	72.3	44.9	30.1	20.8	14.8	10.4	7.1
80°	229.1	152.4	91.0	56.4	42.7	32.3	23.0	17.0	11.0	6.6	4.9
82.5°	117.3	64.1	47.1	38.4	31.8	25.2	18.6	12.1	7.1	4.4	3.8
85°	36.7	26.9	24.1	23.6	21.9	18.1	13.2	7.7	4.4	2.7	2.7
87.5°	2.7	3.8	4.9	3.8	4.4	3.8	4.9	3.3	2.2	2.2	1.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6	252.6
2.5°	230.2	223.6	217.6	213.7	206.6	203.9	201.1	200.0	195.1	196.2	191.8
5°	201.1	189.6	180.9	172.1	163.9	157.8	152.9	146.9	141.9	139.8	135.4
7.5°	174.8	160.0	148.5	139.2	129.3	121.7	115.1	110.7	106.3	101.9	99.7
10°	151.8	135.9	122.8	113.4	104.1	97.6	92.6	89.3	86.6	84.9	84.4
12.5°	130.4	115.1	103.0	94.8	87.7	84.4	82.2	80.6	80.0	79.5	79.5
15°	114.0	98.6	89.3	83.3	80.0	78.4	77.8	76.7	75.6	75.1	75.1
17.5°	98.6	87.1	80.6	77.3	75.6	74.5	73.4	72.3	71.2	70.7	70.7
20°	88.2	78.9	75.6	73.4	71.8	70.7	69.1	68.0	67.4	66.9	66.3
22.5°	80.0	74.0	71.8	70.1	68.0	66.3	65.2	64.1	63.0	62.5	61.9
25°	74.0	70.1	68.5	66.3	64.1	62.5	60.8	59.2	58.1	57.5	56.4
27.5°	69.6	66.9	64.7	61.9	59.7	58.1	56.4	54.8	53.7	52.6	52.1
30°	65.8	63.0	60.3	58.1	55.4	53.7	51.5	49.9	49.3	48.2	47.1
32.5°	61.9	59.2	56.4	53.7	51.0	48.8	47.7	45.5	44.4	43.8	42.7
35°	57.5	54.8	51.5	49.3	46.6	44.4	42.7	41.1	40.0	38.9	38.4
37.5°	53.7	50.4	47.1	44.4	42.2	40.0	38.4	36.7	35.6	34.5	34.0
40°	49.3	46.0	42.7	40.0	37.8	36.2	34.5	32.9	31.8	31.2	31.2
42.5°	45.5	41.7	38.4	36.2	34.5	32.3	30.7	29.0	28.5	28.0	28.5
45°	41.7	37.8	35.1	32.9	31.2	29.0	27.4	26.3	25.8	26.3	26.9
47.5°	38.4	34.5	31.8	30.1	28.5	26.9	25.2	24.1	24.1	25.2	26.3
50°	35.1	31.2	29.0	28.0	26.3	24.7	22.5	21.9	22.5	23.6	24.7
52.5°	31.8	27.4	25.8	25.2	23.6	21.9	20.3	19.7	20.3	21.4	20.8
55°	28.5	24.1	23.6	23.0	21.4	19.2	17.5	17.5	17.5	17.0	15.9
57.5°	27.4	21.4	20.8	20.3	18.6	16.4	15.3	14.2	13.7	12.1	11.5
60°	28.5	19.2	19.2	18.1	16.4	14.2	12.6	11.0	9.9	8.8	8.8
62.5°	23.0	17.5	17.0	15.9	13.7	11.5	9.9	8.2	7.7	7.1	7.1
65°	18.6	15.9	14.8	13.2	11.5	9.3	7.7	6.6	6.0	6.0	6.6
67.5°	17.0	14.2	12.6	11.0	9.3	7.1	6.0	5.5	5.5	6.0	6.0
69°	15.9	13.2	11.5	9.9	8.2	6.6	5.5	5.5	5.5	5.5	6.0
70°	14.8	12.6	11.0	9.3	7.1	5.5	4.9	4.9	5.5	5.5	6.0
72.5°	11.5	9.9	9.3	7.7	5.5	4.9	4.4	4.9	4.9	5.5	5.5
75°	8.8	7.1	7.1	6.0	4.4	3.8	3.8	4.4	4.4	4.9	4.9
77.5°	6.0	4.9	4.9	4.4	3.8	3.3	3.3	3.8	4.4	4.4	4.9
80°	4.4	3.8	3.3	3.8	3.3	2.7	3.3	3.8	3.8	4.4	4.4
82.5°	3.3	3.3	3.3	3.3	2.7	2.7	3.3	3.3	3.8	4.4	4.4
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	3.3	3.8	3.8
87.5°	1.6	1.6	1.6	2.2	2.2	2.7	2.7	2.7	2.7	3.3	3.3
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):

	165°	170°	175°	180°
0°	252.6	252.6	252.6	252.6
2.5°	190.7	190.2	188.0	188.5
5°	133.7	130.4	132.6	132.1
7.5°	98.1	97.6	97.0	98.1
10°	83.9	83.9	83.3	83.9
12.5°	78.9	78.9	78.9	78.9
15°	75.1	75.1	74.5	74.5
17.5°	70.7	70.7	70.7	70.1
20°	66.3	65.8	65.8	65.8
22.5°	61.4	60.8	60.8	60.8
25°	56.4	55.9	55.9	55.9
27.5°	51.5	51.0	50.4	50.4
30°	46.6	46.0	45.5	45.5
32.5°	41.7	41.1	40.6	40.6
35°	37.3	37.3	36.7	36.2
37.5°	33.4	33.4	33.4	33.4
40°	30.7	31.2	31.2	31.2
42.5°	29.0	29.6	30.1	30.7
45°	28.0	29.0	29.6	29.6
47.5°	27.4	28.0	28.5	28.5
50°	25.2	24.7	24.7	24.7
52.5°	20.3	19.2	18.6	18.1
55°	14.8	14.2	13.2	13.2
57.5°	10.4	10.4	9.9	9.9
60°	8.2	8.2	7.7	8.2
62.5°	7.1	7.1	7.1	7.1
65°	6.6	6.6	6.6	6.6
67.5°	6.6	6.6	6.6	6.6
69°	6.0	6.0	6.0	6.0
70°	6.0	6.0	6.0	6.0
72.5°	5.5	5.5	5.5	5.5
75°	4.9	5.5	5.5	5.5
77.5°	4.9	4.9	4.9	4.9
80°	4.4	4.4	4.9	4.9
82.5°	4.4	4.4	4.4	4.4
85°	3.8	3.8	4.4	4.4
87.5°	3.3	3.3	3.8	3.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)