

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: P180766

Luminaire Tested: **ICM-E02-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180766
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: ICM-E02-LED-E1-SL4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3195.1 lumens
Efficiency: N/A
Efficacy: 61.3 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

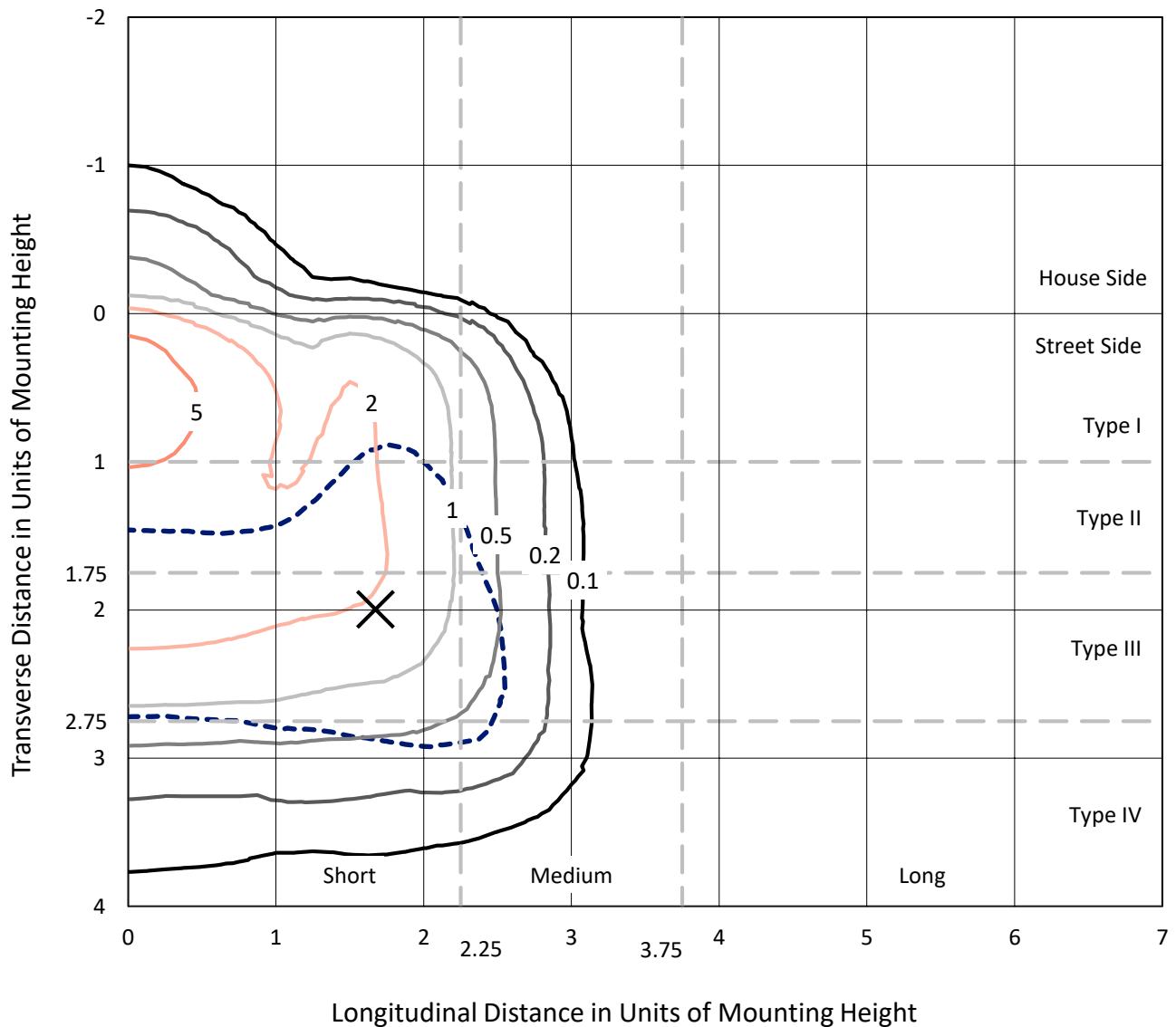


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Iso-Footcandle Lines of Horizontal Illumination

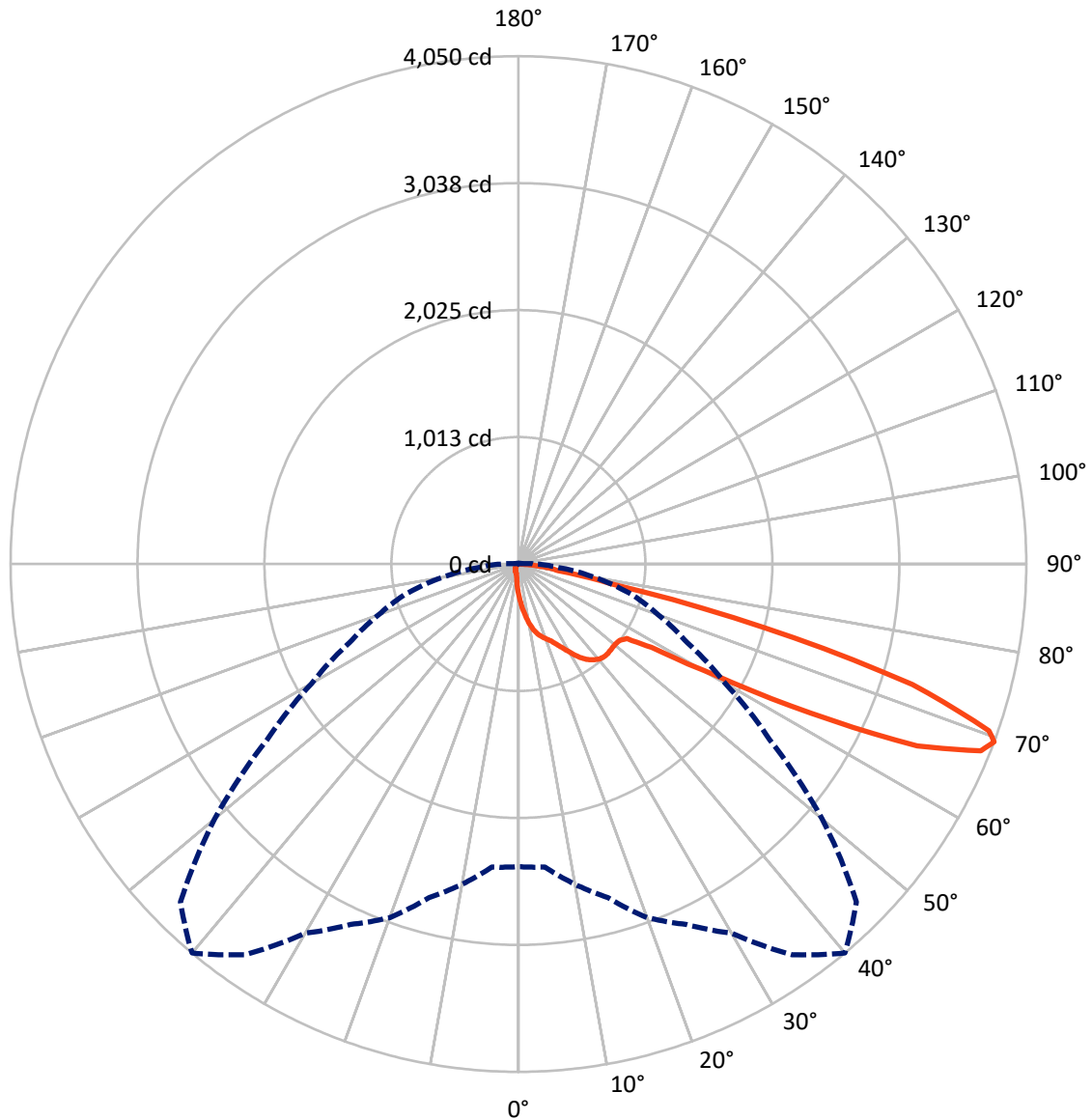
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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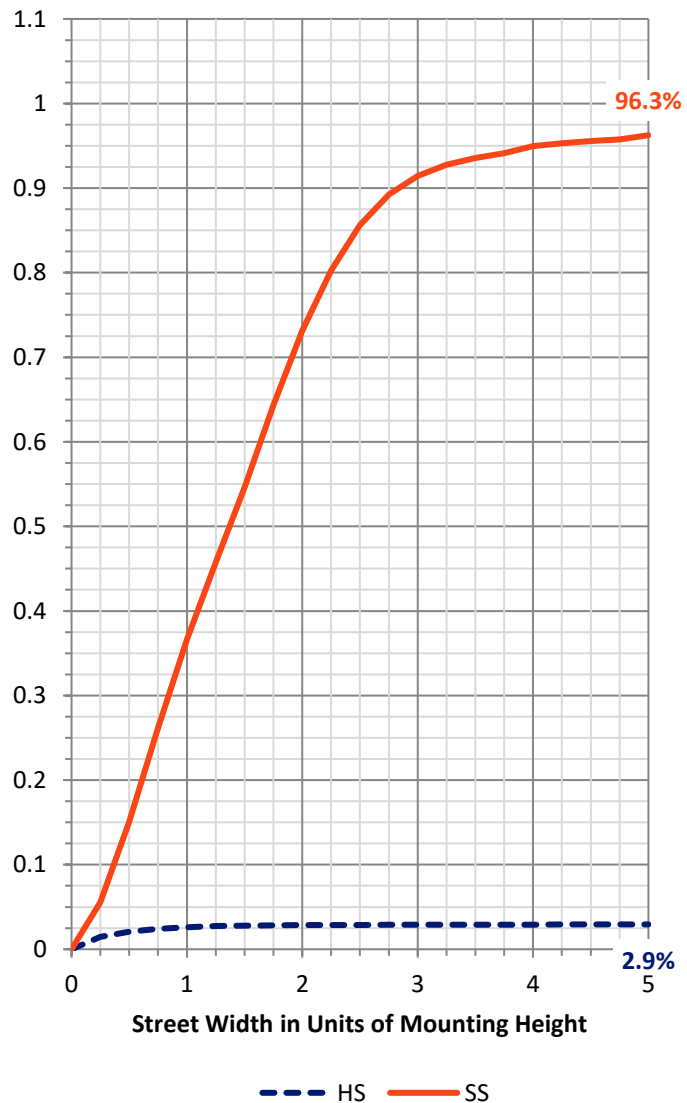
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	95.1	0.0	95.1
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	3100.0	0.0	3100.0
	% Fixture	97.0	0.0	97.0
Total	Lumens	3195.1	0.0	3195.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.8	0.8
10°-20°	85.5	2.7
20°-30°	163.7	5.1
30°-40°	272.2	8.5
40°-50°	368.3	11.5
50°-60°	576.0	18.0
60°-70°	1184.2	37.1
70°-80°	476.5	14.9
80°-90°	44.1	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°	3195.1	100.0
0°-180°	3195.1	100.0



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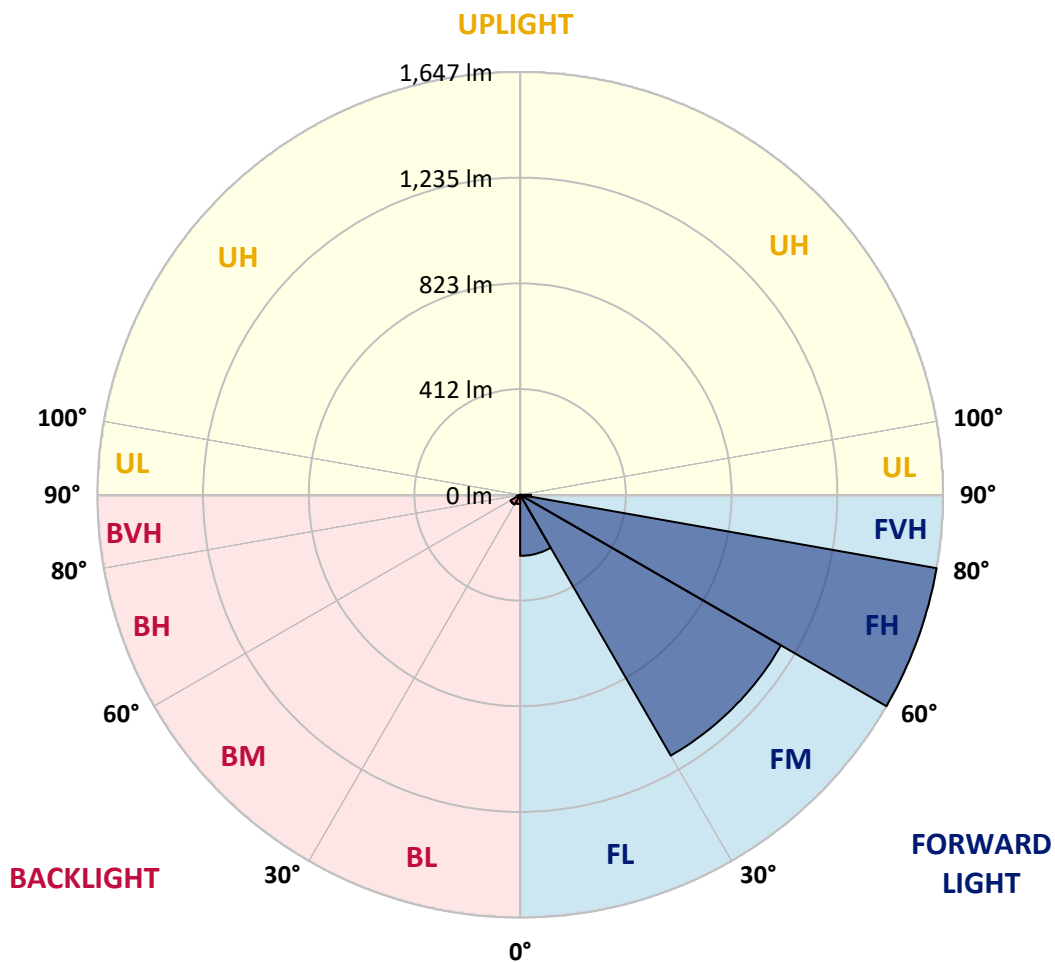
CATALOG NUMBER: ICM-E02-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	237.8	7.4			
FM (30°-60°)	1173.0	36.7			
FH (60°-80°)	1646.8	51.5			G1/1800
FVH (80°-90°)	42.4	1.3			G1/100
BL (0°-30°)	36.2	1.1	B0/110		
BM (30°-60°)	43.4	1.4	B0/220		
BH (60°-80°)	13.9	0.4	B0/110		G0/110
BVH (80°-90°)	1.6	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°	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3
2.5°	321.9	318.2	314.0	314.0	308.8	308.8	305.7	297.3	296.3	291.5	286.8
5°	410.9	407.7	402.5	397.8	393.6	386.2	381.0	371.1	360.1	349.7	340.2
7.5°	497.8	496.2	486.8	485.2	478.4	466.3	455.9	441.2	422.4	407.7	390.4
10°	578.3	574.7	572.7	563.7	553.8	540.7	524.5	506.7	484.7	461.7	437.0
12.5°	642.2	640.1	630.7	627.1	616.6	603.4	583.1	560.0	538.0	508.2	479.4
15°	689.9	686.1	679.9	674.1	661.6	650.1	631.3	606.1	579.4	547.0	512.4
17.5°	729.6	722.8	721.2	712.4	699.3	685.7	664.7	641.7	610.3	577.9	540.2
20°	783.0	773.6	770.4	757.4	742.2	723.4	699.3	670.5	637.5	602.0	563.2
22.5°	845.9	839.0	832.2	820.7	801.3	774.6	739.5	708.2	666.3	627.1	585.2
25°	934.8	929.0	918.1	902.3	878.2	846.3	803.9	757.9	708.7	658.4	609.2
27.5°	1021.2	1015.9	1008.1	996.0	968.8	933.8	881.4	822.8	760.5	699.8	645.4
30°	1102.3	1097.6	1089.8	1077.7	1053.6	1019.1	959.9	897.1	819.6	749.0	683.5
32.5°	1189.7	1188.1	1179.3	1162.0	1141.0	1094.4	1030.1	962.5	884.0	802.4	726.0
35°	1288.7	1276.6	1268.2	1251.0	1215.4	1165.6	1090.2	1016.5	933.8	850.1	764.7
37.5°	1372.4	1360.8	1350.4	1328.4	1284.9	1221.6	1136.3	1055.2	969.9	884.6	797.7
40°	1433.6	1427.8	1415.3	1386.5	1337.9	1262.4	1170.3	1081.9	996.0	910.2	824.4
42.5°	1479.2	1470.2	1456.1	1426.3	1368.8	1282.9	1183.9	1092.8	1008.1	925.9	841.7
45°	1495.9	1488.6	1475.5	1443.1	1380.8	1288.7	1183.4	1089.8	1008.6	930.6	853.1
47.5°	1486.0	1478.6	1467.1	1436.8	1375.5	1281.9	1174.0	1080.8	1003.4	932.2	863.6
50°	1452.9	1448.8	1439.9	1414.2	1359.3	1268.8	1165.6	1076.1	1002.3	940.0	878.2
52.5°	1449.9	1447.3	1436.2	1410.6	1354.6	1264.6	1164.6	1078.7	1011.3	950.0	888.7
55°	1771.7	1734.6	1651.4	1580.7	1464.5	1326.3	1217.4	1121.1	1048.9	989.2	946.3
57.5°	2518.2	2462.6	2353.2	2218.7	1951.8	1689.6	1479.6	1327.9	1253.0	1225.9	1242.1
60°	2867.7	2857.8	2840.6	2776.7	2640.1	2414.5	2163.3	1891.6	1782.7	1773.3	1806.2
62.5°	3033.7	3027.4	3032.7	3024.8	2982.3	2916.4	2844.2	2727.0	2619.2	2549.5	2401.9
65°	3110.1	3114.3	3144.1	3167.6	3172.9	3190.2	3243.0	3389.0	3495.8	3316.3	2906.5
67.5°	2915.9	2940.5	3009.0	3094.9	3195.4	3292.8	3449.8	3757.5	3976.9	3765.9	3183.9
69°	2414.0	2426.0	2593.5	2755.2	3000.7	3172.4	3400.0	3803.7	4050.2	3812.0	3161.9
70°	1900.5	1911.5	2091.0	2310.8	2725.9	2946.8	3244.6	3725.6	3981.6	3750.7	3048.9
72.5°	857.3	841.7	904.9	1022.7	1474.0	1824.6	2345.4	3018.5	3285.0	3004.9	2281.0
75°	598.8	592.0	598.8	599.3	669.4	863.6	1089.8	1636.2	2023.5	1746.1	1089.8
77.5°	463.7	459.1	454.3	449.1	457.5	512.4	534.4	580.5	753.7	712.8	415.6
80°	366.9	362.7	374.2	370.6	370.6	376.8	372.7	355.4	323.0	299.4	268.0
82.5°	170.6	171.7	171.7	186.3	224.6	262.2	274.2	257.0	228.2	194.1	156.5
85°	16.2	18.3	30.9	47.6	94.7	106.8	107.3	89.0	89.0	70.1	56.6
87.5°	0.0	0.6	0.6	0.6	4.7	13.1	11.0	3.2	1.6	1.6	2.6
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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CATALOG NUMBER: ICM-E02-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3
2.5°	278.4	276.8	270.6	264.3	258.6	252.3	246.5	240.7	234.5	229.8	224.0
5°	325.6	314.0	300.9	288.4	275.8	262.8	249.1	237.1	224.6	213.0	202.0
7.5°	373.2	350.7	332.9	310.4	290.0	269.6	250.7	231.4	213.6	196.8	181.1
10°	413.5	386.2	358.5	329.8	300.5	273.2	247.1	224.0	200.5	180.1	160.7
12.5°	446.4	411.9	377.9	341.8	308.8	274.2	241.8	214.0	186.3	163.3	143.4
15°	476.3	436.6	395.7	353.9	311.9	272.7	236.6	202.0	173.8	147.6	125.1
17.5°	500.4	454.9	408.7	361.7	316.7	270.6	229.8	193.7	160.7	133.5	111.4
20°	521.3	473.7	424.0	371.1	319.8	270.0	224.0	183.2	149.2	120.4	98.9
22.5°	540.7	493.0	439.6	383.2	324.5	269.6	218.8	175.3	139.3	110.4	89.0
25°	562.7	512.4	456.4	395.7	332.9	271.6	215.6	169.0	130.3	101.0	81.1
27.5°	587.3	534.4	476.3	411.4	343.9	275.8	214.6	162.2	122.5	92.1	74.9
30°	621.8	560.6	496.2	427.1	353.9	280.6	213.6	158.0	114.6	85.3	68.6
32.5°	652.2	586.2	518.1	443.4	364.8	285.3	213.0	152.3	107.3	78.5	63.8
35°	684.1	609.8	537.0	459.1	374.2	290.5	212.5	148.1	100.5	71.7	59.2
37.5°	711.8	629.7	551.6	472.7	384.7	295.2	213.0	144.5	94.2	66.0	55.0
40°	735.4	650.1	567.9	485.2	395.7	302.5	213.6	140.8	87.9	60.7	51.3
42.5°	756.3	669.4	585.2	499.4	408.3	310.9	216.7	137.7	82.7	56.0	47.6
45°	772.6	687.3	604.0	519.3	428.7	324.5	222.4	135.5	77.5	51.8	44.5
47.5°	789.3	713.4	635.9	550.6	458.5	346.0	232.4	135.1	73.3	48.7	41.9
50°	812.3	739.5	664.2	582.5	485.7	368.0	244.5	135.5	68.0	45.6	39.3
52.5°	829.1	766.2	700.8	638.1	550.6	435.0	291.0	145.0	65.4	42.9	36.1
55°	928.0	917.0	918.6	929.0	861.5	740.1	486.8	209.4	76.9	48.7	35.6
57.5°	1308.6	1347.3	1369.8	1369.2	1257.8	1043.2	653.8	269.0	85.9	56.6	42.4
60°	1808.9	1779.5	1738.2	1636.2	1488.0	1190.8	731.2	289.5	74.3	45.0	38.7
62.5°	2251.2	2079.5	1927.2	1761.8	1567.6	1242.1	746.9	287.9	64.9	34.0	27.3
65°	2527.0	2218.2	1972.2	1764.9	1536.2	1199.2	706.6	264.3	55.0	27.7	22.5
67.5°	2592.9	2143.4	1795.3	1531.0	1283.4	933.2	518.7	198.9	42.9	23.1	19.9
69°	2449.0	1905.2	1487.5	1187.6	933.8	619.2	320.8	125.6	32.9	20.9	18.3
70°	2252.8	1657.1	1211.7	953.1	691.4	435.0	224.6	88.5	26.7	19.3	16.7
72.5°	1449.3	870.4	595.6	414.5	285.3	173.2	87.9	39.8	20.4	16.2	13.6
75°	562.1	321.9	233.4	177.4	138.7	96.3	53.4	25.7	17.3	13.6	10.5
77.5°	276.8	212.0	173.2	118.8	69.1	42.9	28.7	19.9	14.1	10.0	6.8
80°	218.8	145.5	86.9	54.0	40.8	30.9	22.0	16.2	10.5	6.3	4.7
82.5°	112.0	61.2	45.0	36.7	30.3	24.1	17.8	11.5	6.8	4.2	3.6
85°	35.1	25.7	23.1	22.5	20.9	17.3	12.6	7.3	4.2	2.6	2.6
87.5°	2.6	3.6	4.7	3.6	4.2	3.6	4.7	3.2	2.1	2.1	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°	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3	241.3
2.5°	219.8	213.6	207.8	204.1	197.3	194.7	192.1	191.1	186.3	187.3	183.2
5°	192.1	181.1	172.7	164.4	156.5	150.7	146.0	140.3	135.5	133.5	129.3
7.5°	167.0	152.8	141.9	132.9	123.5	116.2	110.0	105.8	101.6	97.4	95.3
10°	145.0	129.8	117.2	108.4	99.4	93.2	88.5	85.3	82.7	81.1	80.6
12.5°	124.6	110.0	98.4	90.5	83.7	80.6	78.5	76.9	76.4	75.9	75.9
15°	108.8	94.2	85.3	79.5	76.4	74.9	74.3	73.3	72.2	71.7	71.7
17.5°	94.2	83.3	76.9	73.8	72.2	71.2	70.1	69.1	68.0	67.5	67.5
20°	84.3	75.3	72.2	70.1	68.6	67.5	66.0	64.9	64.4	63.8	63.3
22.5°	76.4	70.7	68.6	67.0	64.9	63.3	62.3	61.2	60.2	59.6	59.2
25°	70.7	67.0	65.4	63.3	61.2	59.6	58.1	56.6	55.4	55.0	54.0
27.5°	66.5	63.8	61.8	59.2	57.0	55.4	54.0	52.4	51.3	50.2	49.8
30°	62.8	60.2	57.6	55.4	52.8	51.3	49.2	47.6	47.1	46.0	45.0
32.5°	59.2	56.6	54.0	51.3	48.7	46.6	45.6	43.4	42.4	41.9	40.8
35°	55.0	52.4	49.2	47.1	44.5	42.4	40.8	39.3	38.2	37.1	36.7
37.5°	51.3	48.2	45.0	42.4	40.3	38.2	36.7	35.1	34.0	32.9	32.5
40°	47.1	44.0	40.8	38.2	36.1	34.5	32.9	31.4	30.3	29.9	29.9
42.5°	43.4	39.8	36.7	34.5	32.9	30.9	29.3	27.7	27.3	26.7	27.3
45°	39.8	36.1	33.5	31.4	29.9	27.7	26.1	25.1	24.6	25.1	25.7
47.5°	36.7	32.9	30.3	28.7	27.3	25.7	24.1	23.1	23.1	24.1	25.1
50°	33.5	29.9	27.7	26.7	25.1	23.5	21.5	20.9	21.5	22.5	23.5
52.5°	30.3	26.1	24.6	24.1	22.5	20.9	19.3	18.9	19.3	20.4	19.9
55°	27.3	23.1	22.5	22.0	20.4	18.3	16.7	16.7	16.7	16.2	15.2
57.5°	26.1	20.4	19.9	19.3	17.8	15.7	14.7	13.6	13.1	11.5	11.0
60°	27.3	18.3	18.3	17.3	15.7	13.6	12.0	10.5	9.4	8.4	8.4
62.5°	22.0	16.7	16.2	15.2	13.1	11.0	9.4	7.8	7.3	6.8	6.8
65°	17.8	15.2	14.1	12.6	11.0	8.9	7.3	6.3	5.8	5.8	6.3
67.5°	16.2	13.6	12.0	10.5	8.9	6.8	5.8	5.2	5.2	5.8	5.8
69°	15.2	12.6	11.0	9.4	7.8	6.3	5.2	5.2	5.2	5.2	5.8
70°	14.1	12.0	10.5	8.9	6.8	5.2	4.7	4.7	5.2	5.2	5.8
72.5°	11.0	9.4	8.9	7.3	5.2	4.7	4.2	4.7	4.7	5.2	5.2
75°	8.4	6.8	6.8	5.8	4.2	3.6	3.6	4.2	4.2	4.7	4.7
77.5°	5.8	4.7	4.7	4.2	3.6	3.2	3.2	3.6	4.2	4.2	4.7
80°	4.2	3.6	3.2	3.6	3.2	2.6	3.2	3.6	3.6	4.2	4.2
82.5°	3.2	3.2	3.2	3.2	2.6	2.6	3.2	3.2	3.6	4.2	4.2
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.2	3.2	3.6	3.6
87.5°	1.6	1.6	1.6	2.1	2.1	2.6	2.6	2.6	2.6	3.2	3.2
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: ICM-E02-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	241.3	241.3	241.3	241.3
2.5°	182.1	181.6	179.5	180.1
5°	127.7	124.6	126.7	126.1
7.5°	93.7	93.2	92.7	93.7
10°	80.1	80.1	79.5	80.1
12.5°	75.3	75.3	75.3	75.3
15°	71.7	71.7	71.2	71.2
17.5°	67.5	67.5	67.5	67.0
20°	63.3	62.8	62.8	62.8
22.5°	58.6	58.1	58.1	58.1
25°	54.0	53.4	53.4	53.4
27.5°	49.2	48.7	48.2	48.2
30°	44.5	44.0	43.4	43.4
32.5°	39.8	39.3	38.7	38.7
35°	35.6	35.6	35.1	34.5
37.5°	31.9	31.9	31.9	31.9
40°	29.3	29.9	29.9	29.9
42.5°	27.7	28.3	28.7	29.3
45°	26.7	27.7	28.3	28.3
47.5°	26.1	26.7	27.3	27.3
50°	24.1	23.5	23.5	23.5
52.5°	19.3	18.3	17.8	17.3
55°	14.1	13.6	12.6	12.6
57.5°	10.0	10.0	9.4	9.4
60°	7.8	7.8	7.3	7.8
62.5°	6.8	6.8	6.8	6.8
65°	6.3	6.3	6.3	6.3
67.5°	6.3	6.3	6.3	6.3
69°	5.8	5.8	5.8	5.8
70°	5.8	5.8	5.8	5.8
72.5°	5.2	5.2	5.2	5.2
75°	4.7	5.2	5.2	5.2
77.5°	4.7	4.7	4.7	4.7
80°	4.2	4.2	4.7	4.7
82.5°	4.2	4.2	4.2	4.2
85°	3.6	3.6	4.2	4.2
87.5°	3.2	3.2	3.6	3.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)