

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: P180788

Luminaire Tested: **ICM-E04-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180788
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-E04-LED-E1-SL4-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7571.4 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-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

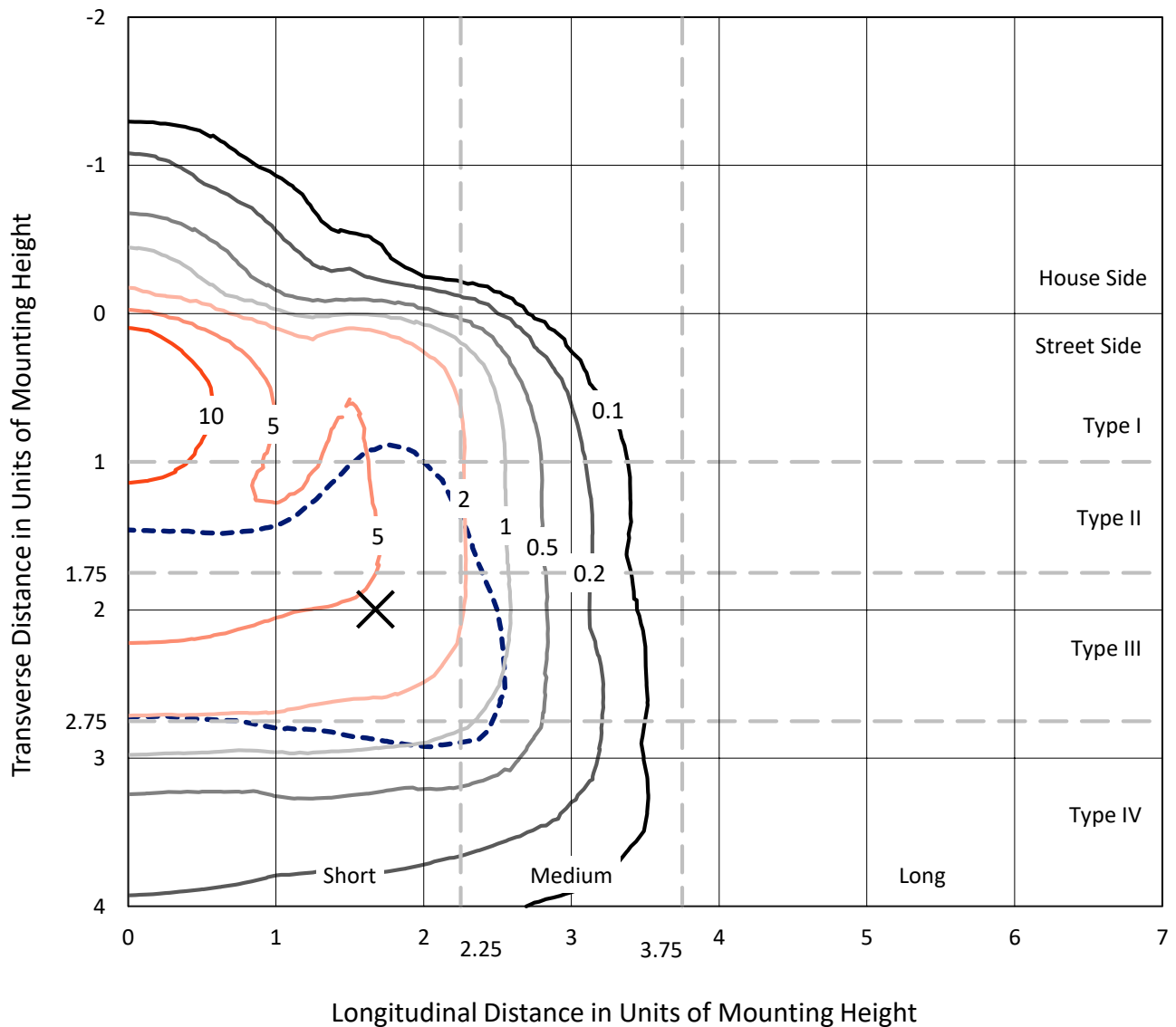


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

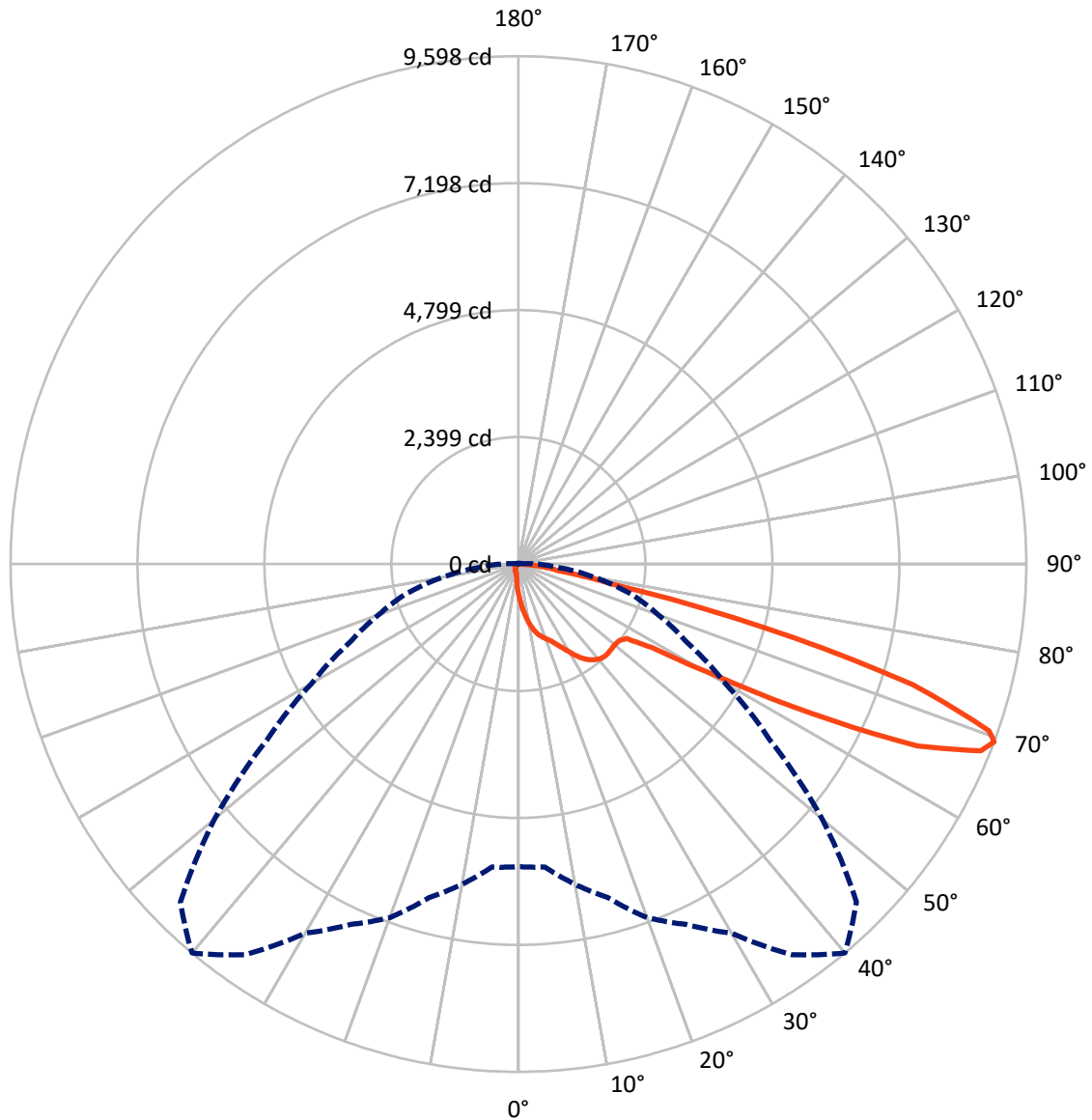


Based on 10 foot mounting height. Maximum calculated value = 16.9 fc
 Type IV - Short - Semi-Cutoff

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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	225.5	0.0	225.5
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	7345.9	0.0	7345.9
	% Fixture	97.0	0.0	97.0
Total	Lumens	7571.4	0.0	7571.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.8	0.8
10°-20°	202.6	2.7
20°-30°	387.8	5.1
30°-40°	645.0	8.5
40°-50°	872.7	11.5
50°-60°	1364.8	18.0
60°-70°	2806.1	37.1
70°-80°	1129.1	14.9
80°-90°	104.4	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°	7571.4	100.0
0°-180°	7571.4	100.0



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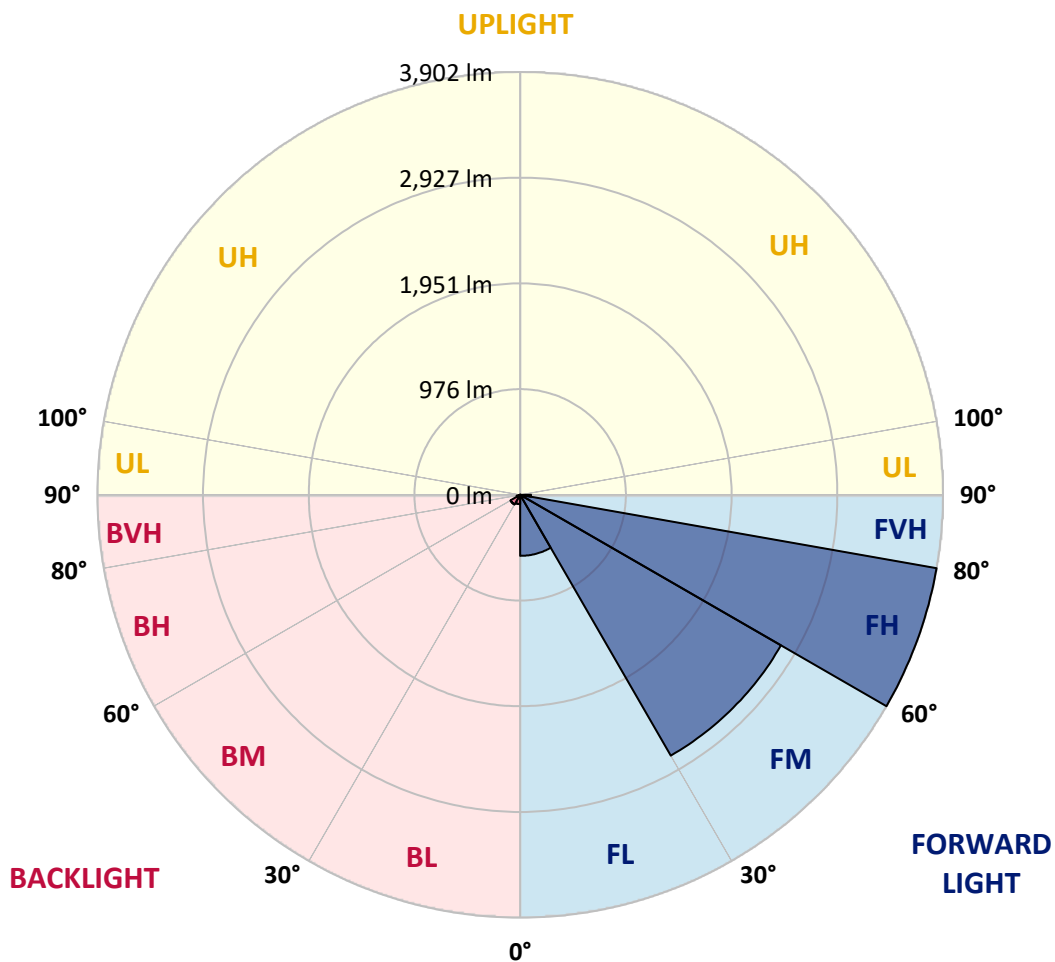
CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	563.5	7.4			
FM (30°-60°)	2779.6	36.7			
FH (60°-80°)	3902.3	51.5			G2/5000
FVH (80°-90°)	100.6	1.3			G2/225
BL (0°-30°)	85.8	1.1	B0/110		
BM (30°-60°)	102.9	1.4	B0/220		
BH (60°-80°)	32.9	0.4	B0/110		G0/110
BVH (80°-90°)	3.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8
2.5°	762.8	754.1	744.2	744.2	731.8	731.8	724.4	704.5	702.1	690.9	679.7
5°	973.7	966.2	953.8	942.6	932.7	915.4	903.0	879.4	853.3	828.6	806.2
7.5°	1179.5	1175.8	1153.5	1149.8	1133.7	1105.1	1080.3	1045.6	1000.9	966.2	925.3
10°	1370.5	1361.9	1356.9	1335.8	1312.3	1281.2	1242.8	1200.7	1148.6	1094.0	1035.6
12.5°	1521.9	1516.9	1494.6	1485.9	1461.1	1430.1	1381.7	1327.2	1275.1	1204.4	1136.1
15°	1634.7	1626.1	1611.2	1597.5	1567.7	1540.5	1495.8	1436.3	1373.0	1296.1	1214.2
17.5°	1729.0	1712.8	1709.1	1688.1	1657.0	1624.8	1575.2	1520.7	1446.2	1369.3	1280.0
20°	1855.5	1833.2	1825.8	1794.7	1758.8	1714.2	1657.0	1588.8	1510.7	1426.3	1334.6
22.5°	2004.4	1988.2	1972.1	1944.8	1898.9	1835.6	1752.6	1678.1	1578.9	1485.9	1386.7
25°	2215.2	2201.6	2175.5	2138.3	2081.2	2005.6	1905.1	1796.0	1679.4	1560.3	1443.7
27.5°	2419.8	2407.5	2388.9	2360.3	2295.8	2212.8	2088.7	1949.8	1802.2	1658.3	1529.3
30°	2612.1	2600.9	2582.3	2553.8	2496.8	2414.9	2274.7	2125.9	1942.3	1774.9	1619.8
32.5°	2819.3	2815.6	2794.4	2753.5	2703.9	2593.5	2440.9	2280.9	2094.9	1901.4	1720.3
35°	3053.7	3025.1	3005.3	2964.4	2880.0	2762.2	2583.6	2408.7	2212.8	2014.2	1812.1
37.5°	3252.1	3224.9	3200.0	3147.9	3044.9	2894.9	2692.8	2500.5	2298.3	2096.1	1890.2
40°	3397.2	3383.6	3353.8	3285.6	3170.3	2991.6	2773.3	2563.7	2360.3	2156.9	1953.5
42.5°	3505.1	3484.0	3450.5	3379.8	3243.5	3040.0	2805.6	2589.8	2388.9	2194.2	1994.4
45°	3544.9	3527.5	3496.5	3419.6	3271.9	3053.7	2804.4	2582.3	2390.1	2205.3	2021.7
47.5°	3521.2	3503.9	3476.6	3404.7	3259.6	3037.5	2782.1	2561.2	2377.7	2209.0	2046.5
50°	3443.1	3433.2	3412.1	3351.4	3221.1	3006.5	2762.2	2550.1	2375.2	2227.6	2081.2
52.5°	3435.6	3429.5	3403.5	3342.6	3210.0	2996.6	2759.7	2556.3	2396.3	2251.2	2106.1
55°	4198.4	4110.4	3913.2	3745.8	3470.4	3143.0	2884.9	2656.8	2485.6	2344.2	2242.5
57.5°	5967.2	5835.7	5576.5	5257.7	4625.1	4003.7	3506.3	3146.7	2969.3	2904.9	2943.3
60°	6795.7	6772.1	6731.2	6579.9	6256.1	5721.6	5126.3	4482.5	4224.5	4202.2	4280.3
62.5°	7188.9	7174.0	7186.4	7167.8	7067.3	6911.0	6739.9	6462.1	6206.5	6041.6	5691.8
65°	7370.0	7379.9	7450.6	7506.4	7518.8	7559.8	7685.0	8031.0	8284.1	7858.7	6887.5
67.5°	6909.8	6968.1	7130.6	7334.0	7572.1	7802.8	8174.9	8904.2	9424.0	8924.1	7544.9
69°	5720.3	5748.9	6145.8	6529.1	7110.7	7517.5	8057.1	9013.4	9597.5	9033.3	7492.8
70°	4503.6	4529.6	4955.1	5476.0	6459.6	6983.0	7688.7	8828.6	9435.1	8888.1	7224.9
72.5°	2031.6	1994.4	2144.5	2423.5	3492.8	4323.7	5557.9	7152.9	7784.2	7120.7	5405.3
75°	1418.9	1402.8	1418.9	1420.2	1586.3	2046.5	2582.3	3877.2	4795.1	4137.7	2582.3
77.5°	1098.9	1087.7	1076.6	1064.2	1084.0	1214.2	1266.3	1375.5	1786.1	1689.3	984.8
80°	869.5	859.5	886.8	878.1	878.1	893.0	883.1	842.1	765.3	709.5	635.1
82.5°	404.4	406.8	406.8	441.6	532.1	621.4	650.0	609.0	540.7	460.2	370.9
85°	38.4	43.4	73.2	112.8	224.5	253.0	254.2	210.9	210.9	166.2	134.0
87.5°	0.0	1.2	1.2	1.2	11.2	31.0	26.0	7.4	3.7	3.7	6.2
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-E04-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8
2.5°	659.8	656.1	641.2	626.3	612.7	597.9	584.2	570.5	555.6	544.5	530.9
5°	771.4	744.2	713.2	683.4	653.7	622.6	590.4	561.9	532.1	504.8	478.8
7.5°	884.4	831.0	788.8	735.5	687.2	638.8	594.1	548.2	506.0	466.3	429.1
10°	979.8	915.4	849.6	781.4	711.9	647.4	585.4	530.9	475.1	426.7	380.7
12.5°	1058.0	976.1	895.5	810.0	731.8	650.0	573.0	507.3	441.6	387.0	339.8
15°	1128.7	1034.4	937.7	838.4	739.3	646.2	560.7	478.8	411.8	349.8	296.5
17.5°	1185.8	1077.9	968.7	857.0	750.4	641.2	544.5	458.9	380.7	316.3	264.2
20°	1235.4	1122.5	1004.7	879.4	757.9	640.0	530.9	434.1	353.5	285.3	234.4
22.5°	1281.2	1168.4	1041.9	907.9	769.0	638.8	518.4	415.5	330.0	261.7	210.9
25°	1333.3	1214.2	1081.6	937.7	788.8	643.7	511.0	400.7	308.8	239.4	192.3
27.5°	1391.6	1266.3	1128.7	974.9	814.9	653.7	508.6	384.5	290.2	218.3	177.4
30°	1473.5	1328.4	1175.8	1012.1	838.4	664.8	506.0	374.6	271.6	202.1	162.5
32.5°	1545.4	1389.1	1227.9	1050.5	864.5	676.0	504.8	360.9	254.2	186.0	151.3
35°	1621.1	1444.9	1272.6	1087.7	886.8	688.4	503.5	351.0	238.1	170.0	140.2
37.5°	1686.8	1492.1	1307.3	1120.0	911.6	699.5	504.8	342.3	223.3	156.3	130.2
40°	1742.6	1540.5	1345.8	1149.8	937.7	716.9	506.0	333.7	208.4	143.9	121.6
42.5°	1792.3	1586.3	1386.7	1183.3	967.4	736.7	513.5	326.2	196.0	132.7	112.8
45°	1830.7	1628.6	1431.4	1230.4	1015.8	769.0	527.2	321.2	183.5	122.8	105.4
47.5°	1870.4	1690.5	1507.0	1304.8	1086.5	819.8	550.7	320.0	173.7	115.3	99.3
50°	1924.9	1752.6	1574.0	1380.5	1151.0	871.9	579.3	321.2	161.2	107.9	93.0
52.5°	1964.7	1815.8	1660.8	1511.9	1304.8	1030.7	689.6	343.5	155.1	101.7	85.6
55°	2199.1	2173.0	2176.8	2201.6	2041.6	1753.8	1153.5	496.1	182.3	115.3	84.4
57.5°	3100.8	3192.6	3245.9	3244.7	2980.5	2471.9	1549.1	637.5	203.4	134.0	100.5
60°	4286.5	4217.0	4119.1	3877.2	3526.3	2821.7	1732.8	685.9	176.1	106.7	91.8
62.5°	5334.6	4927.8	4566.8	4174.9	3714.7	2943.3	1770.0	682.1	153.8	80.7	64.5
65°	5988.2	5256.5	4673.5	4182.4	3640.3	2841.6	1674.4	626.3	130.2	65.8	53.3
67.5°	6144.5	5079.1	4254.3	3627.9	3041.2	2211.5	1229.1	471.4	101.7	54.6	47.2
69°	5803.5	4514.7	3525.0	2814.2	2212.8	1467.3	760.3	297.7	78.1	49.6	43.4
70°	5338.4	3926.8	2871.4	2258.6	1638.4	1030.7	532.1	209.6	63.3	45.9	39.7
72.5°	3434.4	2062.6	1411.5	982.3	676.0	410.5	208.4	94.2	48.4	38.4	32.3
75°	1332.1	762.8	553.2	420.5	328.7	228.2	126.5	60.7	40.9	32.3	24.8
77.5°	656.1	502.3	410.5	281.6	163.7	101.7	68.2	47.2	33.5	23.5	16.1
80°	518.4	344.8	205.9	127.7	96.7	73.2	52.1	38.4	24.8	14.9	11.2
82.5°	265.4	145.1	106.7	86.8	71.9	57.0	42.1	27.3	16.1	10.0	8.7
85°	83.1	60.7	54.6	53.3	49.6	40.9	29.8	17.4	10.0	6.2	6.2
87.5°	6.2	8.7	11.2	8.7	10.0	8.7	11.2	7.4	4.9	4.9	3.7
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8	571.8
2.5°	520.9	506.0	492.4	483.7	467.6	461.4	455.2	452.7	441.6	444.0	434.1
5°	455.2	429.1	409.3	389.5	370.9	357.2	346.0	332.4	321.2	316.3	306.3
7.5°	395.6	362.1	336.1	315.1	292.7	275.4	260.5	250.5	240.7	230.7	225.8
10°	343.5	307.6	277.9	256.7	235.6	220.7	209.6	202.1	196.0	192.3	191.0
12.5°	295.2	260.5	233.2	214.6	198.4	191.0	186.0	182.3	181.1	179.8	179.8
15°	258.0	223.3	202.1	188.6	181.1	177.4	176.1	173.7	171.2	170.0	170.0
17.5°	223.3	197.2	182.3	174.9	171.2	168.7	166.2	163.7	161.2	160.0	160.0
20°	199.7	178.6	171.2	166.2	162.5	160.0	156.3	153.8	152.6	151.3	150.0
22.5°	181.1	167.4	162.5	158.8	153.8	150.0	147.6	145.1	142.6	141.4	140.2
25°	167.4	158.8	155.1	150.0	145.1	141.4	137.7	134.0	131.4	130.2	127.7
27.5°	157.5	151.3	146.3	140.2	135.2	131.4	127.7	124.0	121.6	119.1	117.9
30°	148.8	142.6	136.5	131.4	125.3	121.6	116.6	112.8	111.6	109.1	106.7
32.5°	140.2	134.0	127.7	121.6	115.3	110.4	107.9	103.0	100.5	99.3	96.7
35°	130.2	124.0	116.6	111.6	105.4	100.5	96.7	93.0	90.5	88.1	86.8
37.5°	121.6	114.1	106.7	100.5	95.5	90.5	86.8	83.1	80.7	78.1	76.9
40°	111.6	104.2	96.7	90.5	85.6	81.9	78.1	74.4	71.9	70.7	70.7
42.5°	103.0	94.2	86.8	81.9	78.1	73.2	69.5	65.8	64.5	63.3	64.5
45°	94.2	85.6	79.3	74.4	70.7	65.8	62.0	59.5	58.3	59.5	60.7
47.5°	86.8	78.1	71.9	68.2	64.5	60.7	57.0	54.6	54.6	57.0	59.5
50°	79.3	70.7	65.8	63.3	59.5	55.8	50.9	49.6	50.9	53.3	55.8
52.5°	71.9	62.0	58.3	57.0	53.3	49.6	45.9	44.7	45.9	48.4	47.2
55°	64.5	54.6	53.3	52.1	48.4	43.4	39.7	39.7	39.7	38.4	36.0
57.5°	62.0	48.4	47.2	45.9	42.1	37.2	34.7	32.3	31.0	27.3	26.0
60°	64.5	43.4	43.4	40.9	37.2	32.3	28.6	24.8	22.3	19.8	19.8
62.5°	52.1	39.7	38.4	36.0	31.0	26.0	22.3	18.6	17.4	16.1	16.1
65°	42.1	36.0	33.5	29.8	26.0	21.1	17.4	14.9	13.7	13.7	14.9
67.5°	38.4	32.3	28.6	24.8	21.1	16.1	13.7	12.4	12.4	13.7	13.7
69°	36.0	29.8	26.0	22.3	18.6	14.9	12.4	12.4	12.4	12.4	13.7
70°	33.5	28.6	24.8	21.1	16.1	12.4	11.2	11.2	12.4	12.4	13.7
72.5°	26.0	22.3	21.1	17.4	12.4	11.2	10.0	11.2	11.2	12.4	12.4
75°	19.8	16.1	16.1	13.7	10.0	8.7	8.7	10.0	10.0	11.2	11.2
77.5°	13.7	11.2	11.2	10.0	8.7	7.4	7.4	8.7	10.0	10.0	11.2
80°	10.0	8.7	7.4	8.7	7.4	6.2	7.4	8.7	8.7	10.0	10.0
82.5°	7.4	7.4	7.4	7.4	6.2	6.2	7.4	7.4	8.7	10.0	10.0
85°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	7.4	7.4	8.7	8.7
87.5°	3.7	3.7	3.7	4.9	4.9	6.2	6.2	6.2	6.2	7.4	7.4
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-E04-LED-E1-SL4-HSS

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	571.8	571.8	571.8	571.8
2.5°	431.6	430.4	425.4	426.7
5°	302.6	295.2	300.2	298.9
7.5°	222.0	220.7	219.5	222.0
10°	189.8	189.8	188.6	189.8
12.5°	178.6	178.6	178.6	178.6
15°	170.0	170.0	168.7	168.7
17.5°	160.0	160.0	160.0	158.8
20°	150.0	148.8	148.8	148.8
22.5°	138.9	137.7	137.7	137.7
25°	127.7	126.5	126.5	126.5
27.5°	116.6	115.3	114.1	114.1
30°	105.4	104.2	103.0	103.0
32.5°	94.2	93.0	91.8	91.8
35°	84.4	84.4	83.1	81.9
37.5°	75.6	75.6	75.6	75.6
40°	69.5	70.7	70.7	70.7
42.5°	65.8	67.0	68.2	69.5
45°	63.3	65.8	67.0	67.0
47.5°	62.0	63.3	64.5	64.5
50°	57.0	55.8	55.8	55.8
52.5°	45.9	43.4	42.1	40.9
55°	33.5	32.3	29.8	29.8
57.5°	23.5	23.5	22.3	22.3
60°	18.6	18.6	17.4	18.6
62.5°	16.1	16.1	16.1	16.1
65°	14.9	14.9	14.9	14.9
67.5°	14.9	14.9	14.9	14.9
69°	13.7	13.7	13.7	13.7
70°	13.7	13.7	13.7	13.7
72.5°	12.4	12.4	12.4	12.4
75°	11.2	12.4	12.4	12.4
77.5°	11.2	11.2	11.2	11.2
80°	10.0	10.0	11.2	11.2
82.5°	10.0	10.0	10.0	10.0
85°	8.7	8.7	10.0	10.0
87.5°	7.4	7.4	8.7	8.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)