

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: P180786

Luminaire Tested: **ICM-E04-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180786
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-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6390.2 lumens
Efficiency: N/A
Efficacy: 65.7 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

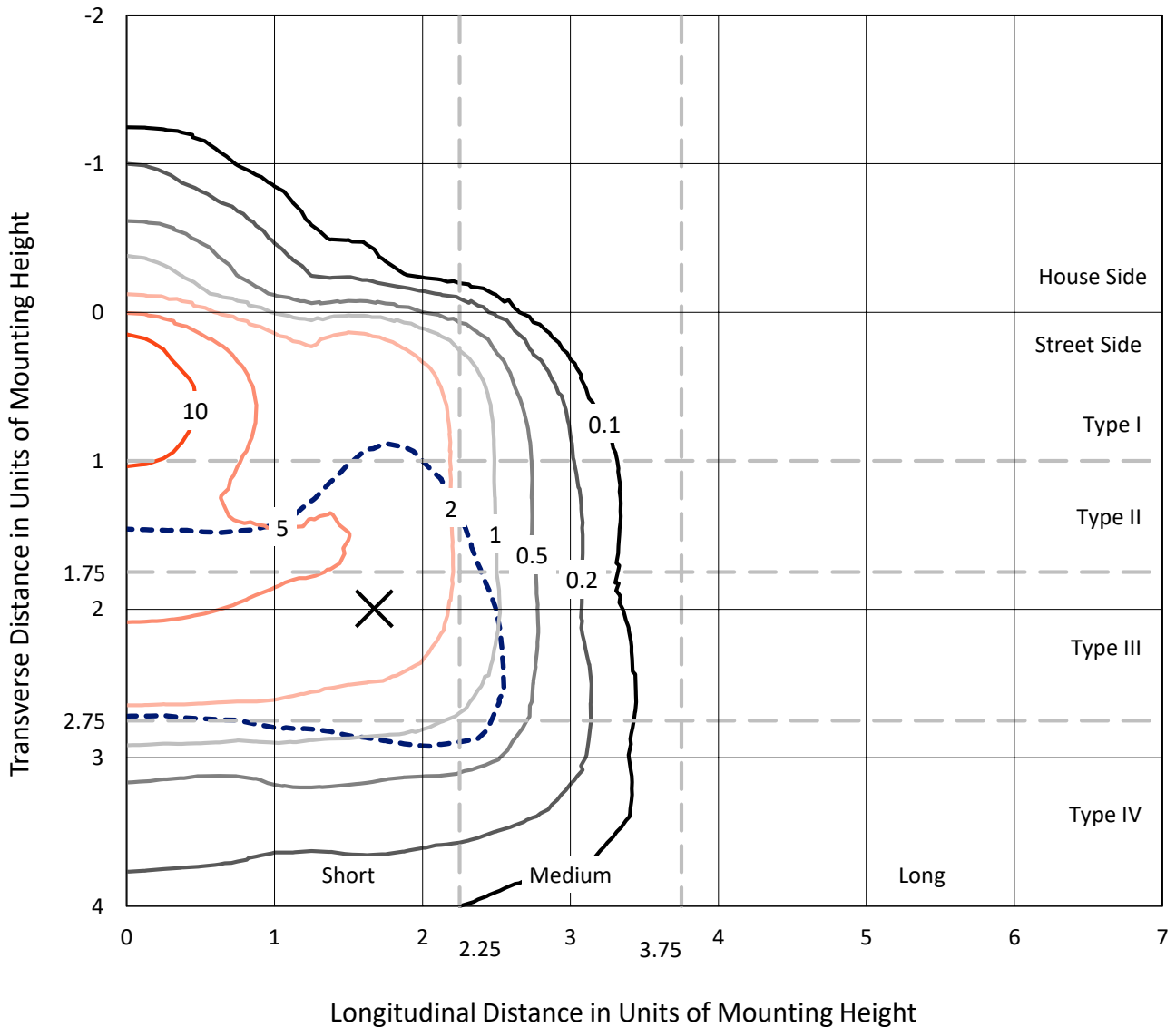
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

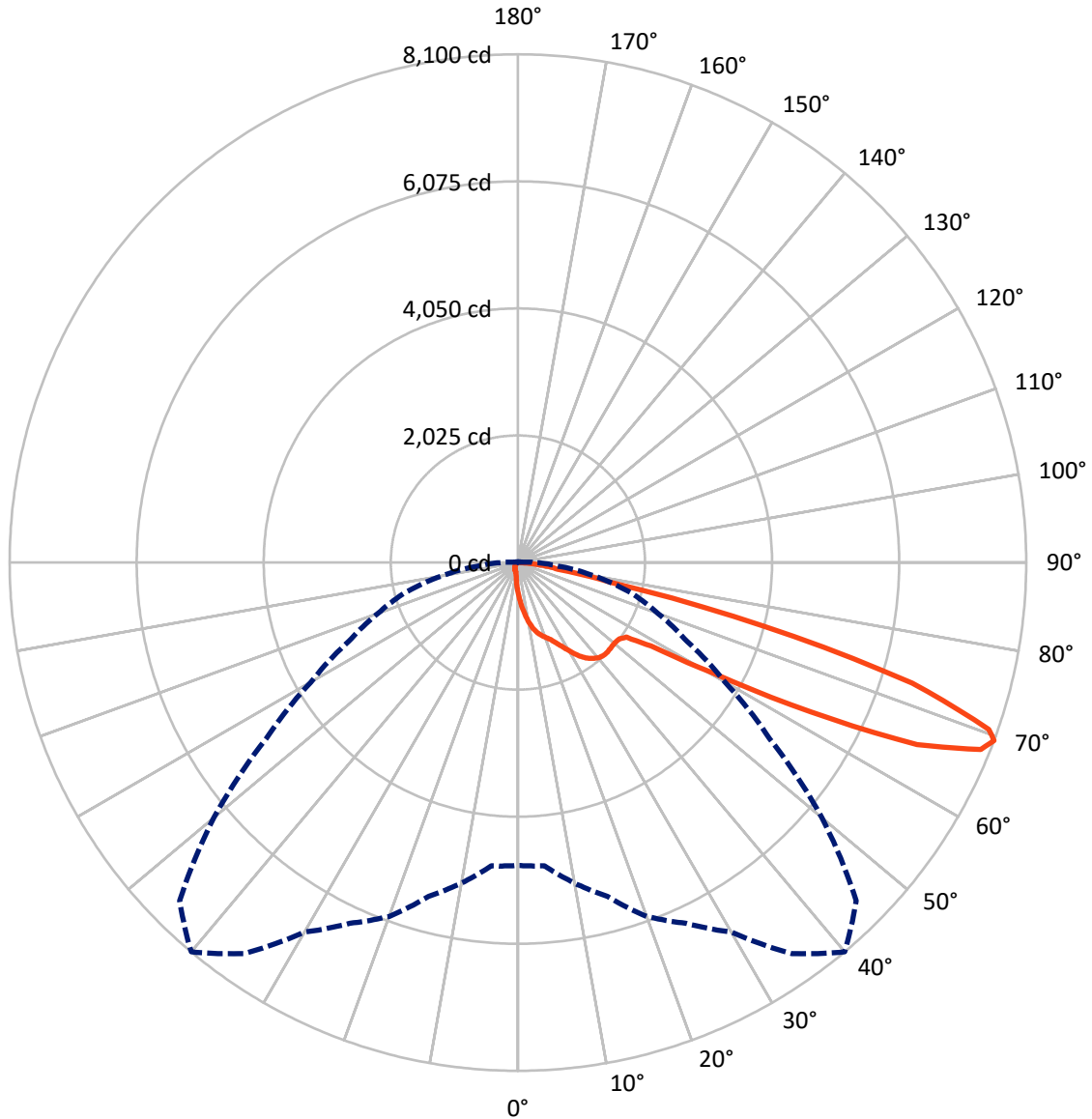
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 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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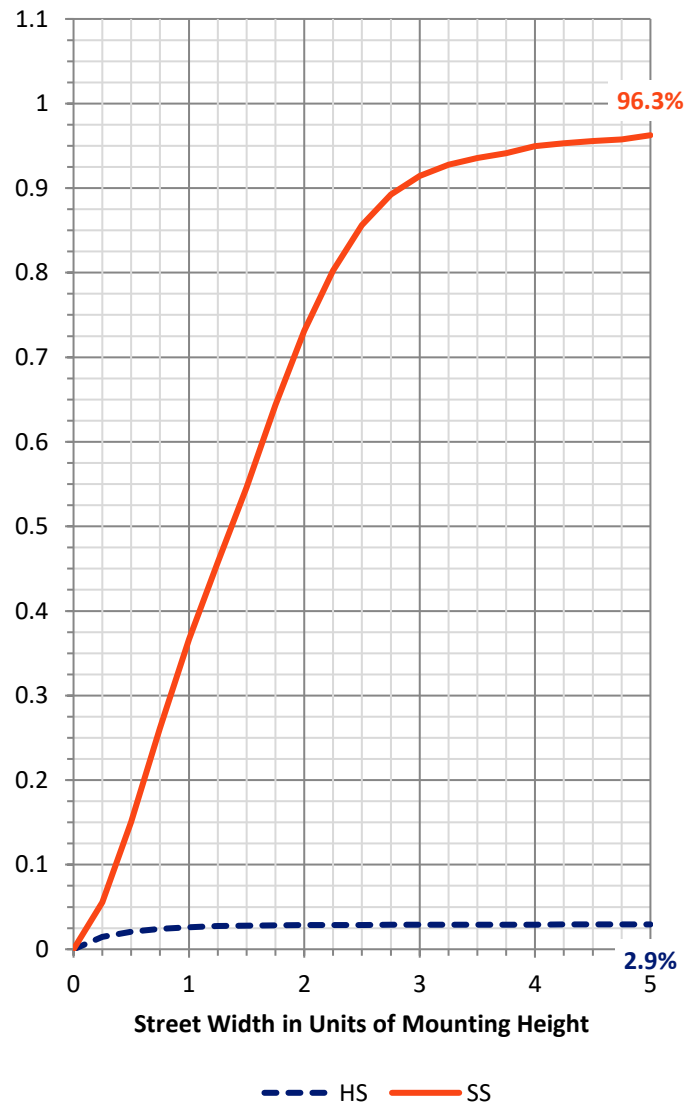
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	190.3	0.0	190.3
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	6199.9	0.0	6199.9
	% Fixture	97.0	0.0	97.0
Total	Lumens	6390.2	0.0	6390.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.6	0.8
10°-20°	171.0	2.7
20°-30°	327.3	5.1
30°-40°	544.3	8.5
40°-50°	736.6	11.5
50°-60°	1151.9	18.0
60°-70°	2368.3	37.1
70°-80°	953.0	14.9
80°-90°	88.2	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°	6390.2	100.0
0°-180°	6390.2	100.0



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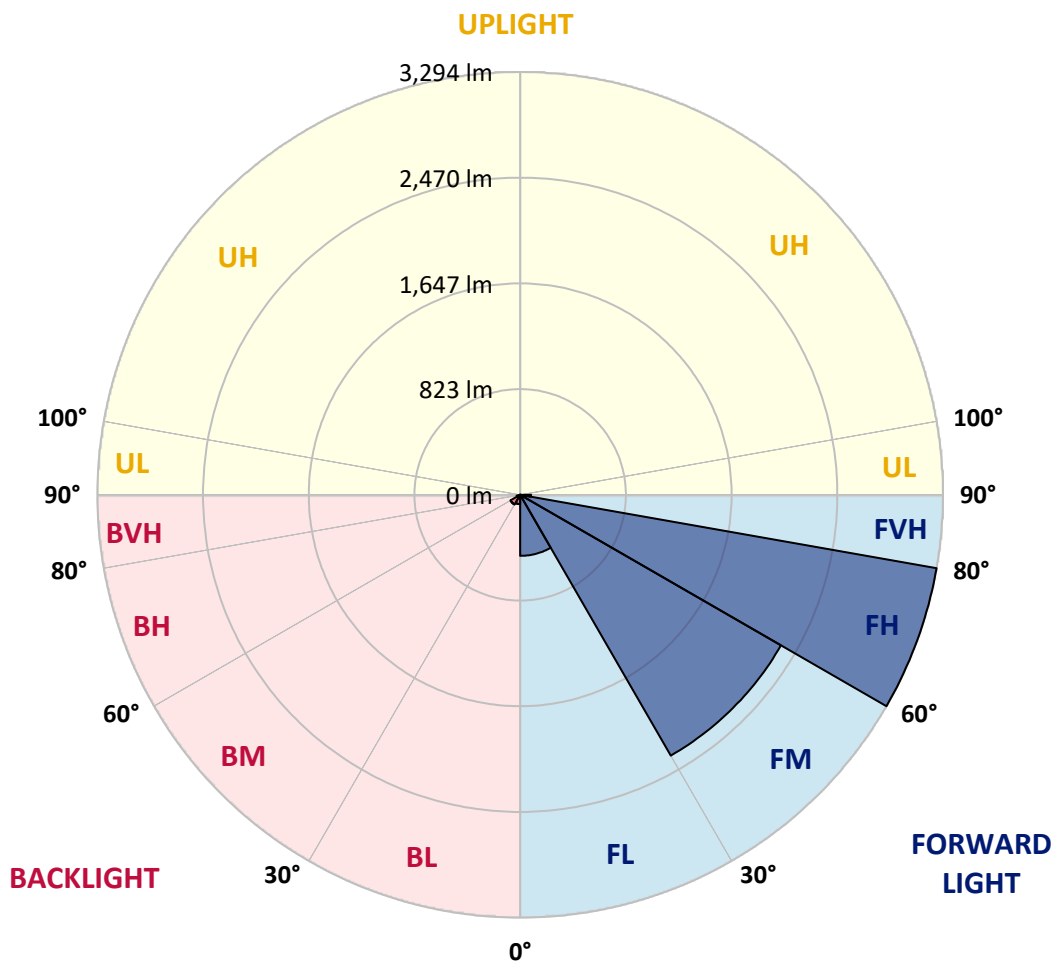
CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.6	7.4			
FM	(30°-60°)	2345.9	36.7			
FH	(60°-80°)	3293.5	51.5			G2/5000
FVH	(80°-90°)	84.9	1.3			G1/100
BL	(0°-30°)	72.4	1.1	B0/110		
BM	(30°-60°)	86.9	1.4	B0/220		
BH	(60°-80°)	27.8	0.4	B0/110		G0/110
BVH	(80°-90°)	3.3	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°	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6
2.5°	643.8	636.5	628.1	628.1	617.6	617.6	611.4	594.6	592.5	583.1	573.7
5°	821.8	815.4	805.0	795.5	787.2	772.6	762.1	742.2	720.2	699.3	680.5
7.5°	995.5	992.4	973.5	970.4	956.8	932.7	911.8	882.4	844.7	815.4	780.9
10°	1156.8	1149.4	1145.2	1127.4	1107.5	1081.4	1048.9	1013.3	969.3	923.3	874.1
12.5°	1284.5	1280.3	1261.4	1254.1	1233.1	1207.0	1166.1	1120.1	1076.1	1016.5	958.9
15°	1379.7	1372.4	1359.8	1348.3	1323.2	1300.1	1262.4	1212.2	1158.8	1094.0	1024.8
17.5°	1459.3	1445.7	1442.5	1424.8	1398.5	1371.4	1329.5	1283.4	1220.6	1155.7	1080.3
20°	1566.1	1547.2	1540.9	1514.7	1484.4	1446.7	1398.5	1340.9	1275.0	1203.8	1126.3
22.5°	1691.6	1678.1	1664.5	1641.4	1602.7	1549.3	1479.2	1416.4	1332.6	1254.1	1170.3
25°	1869.6	1858.1	1836.1	1804.8	1756.6	1692.7	1607.9	1515.8	1417.4	1316.9	1218.5
27.5°	2042.3	2031.8	2016.2	1992.1	1937.7	1867.5	1762.8	1645.6	1521.0	1399.6	1290.7
30°	2204.6	2195.2	2179.5	2155.4	2107.3	2038.2	1919.8	1794.2	1639.4	1498.0	1367.2
32.5°	2379.5	2376.3	2358.4	2323.9	2282.1	2188.9	2060.1	1925.1	1768.1	1604.8	1451.9
35°	2577.2	2553.2	2536.5	2501.9	2430.7	2331.3	2180.5	2032.9	1867.5	1700.0	1529.4
37.5°	2744.8	2721.7	2700.8	2656.9	2570.0	2443.3	2272.7	2110.3	1939.7	1769.1	1595.4
40°	2867.3	2855.7	2830.6	2773.0	2675.6	2524.9	2340.7	2163.7	1992.1	1820.4	1648.8
42.5°	2958.3	2940.5	2912.2	2852.6	2737.4	2565.8	2367.9	2185.8	2016.2	1851.8	1683.3
45°	2991.8	2977.1	2951.0	2886.1	2761.5	2577.2	2366.9	2179.5	2017.2	1861.2	1706.3
47.5°	2971.9	2957.2	2934.3	2873.5	2751.0	2563.6	2348.0	2161.7	2006.7	1864.4	1727.3
50°	2906.0	2897.6	2879.8	2828.5	2718.6	2537.5	2331.3	2152.3	2004.7	1880.1	1756.6
52.5°	2899.6	2894.4	2872.5	2821.1	2709.1	2529.1	2329.1	2157.5	2022.4	1900.0	1777.5
55°	3543.5	3469.1	3302.7	3161.4	2928.9	2652.7	2434.9	2242.2	2097.8	1978.5	1892.7
57.5°	5036.2	4925.2	4706.4	4437.4	3903.6	3379.1	2959.4	2655.7	2506.1	2451.6	2484.1
60°	5735.5	5715.7	5681.1	5553.3	5280.1	4829.0	4326.5	3783.2	3565.4	3546.6	3612.6
62.5°	6067.4	6054.8	6065.2	6049.5	5964.8	5832.9	5688.4	5453.9	5238.3	5099.0	4803.8
65°	6220.2	6228.6	6288.2	6335.3	6345.8	6380.3	6486.1	6778.2	6991.7	6632.6	5813.0
67.5°	5831.8	5881.1	6018.2	6189.8	6390.8	6585.5	6899.6	7515.1	7953.7	7531.9	6367.8
69°	4827.9	4852.0	5187.0	5510.5	6001.4	6344.8	6800.1	7607.2	8100.2	7624.0	6323.9
70°	3801.0	3823.0	4182.1	4621.7	5451.8	5893.6	6489.2	7451.2	7963.1	7501.5	6097.7
72.5°	1714.7	1683.3	1810.0	2045.5	2947.8	3649.2	4690.8	6037.0	6569.8	6009.8	4562.0
75°	1197.6	1183.9	1197.6	1198.6	1338.9	1727.3	2179.5	3272.4	4047.0	3492.2	2179.5
77.5°	927.4	918.1	908.7	898.1	914.9	1024.8	1068.8	1160.9	1507.5	1425.8	831.2
80°	733.9	725.4	748.5	741.1	741.1	753.7	745.3	710.8	645.9	598.8	536.0
82.5°	341.3	343.4	343.4	372.7	449.1	524.5	548.6	514.0	456.4	388.4	313.0
85°	32.5	36.7	61.8	95.3	189.5	213.6	214.6	178.0	178.0	140.3	113.0
87.5°	0.0	1.0	1.0	1.0	9.4	26.1	22.0	6.3	3.2	3.2	5.2
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6
2.5°	556.9	553.8	541.2	528.7	517.1	504.6	493.0	481.5	468.9	459.5	448.0
5°	651.1	628.1	602.0	576.8	551.6	525.5	498.3	474.2	449.1	426.0	404.1
7.5°	746.4	701.4	665.8	620.7	579.9	539.1	501.4	462.7	427.1	393.6	362.2
10°	827.0	772.6	717.0	659.5	600.8	546.4	494.1	448.0	400.9	360.1	321.4
12.5°	892.9	823.8	755.8	683.5	617.6	548.6	483.6	428.2	372.7	326.6	286.8
15°	952.6	873.0	791.4	707.6	623.9	545.4	473.1	404.1	347.5	295.2	250.2
17.5°	1000.8	909.7	817.6	723.4	633.3	541.2	459.5	387.4	321.4	267.0	223.0
20°	1042.6	947.4	847.9	742.2	639.6	540.2	448.0	366.4	298.3	240.7	197.9
22.5°	1081.4	986.1	879.4	766.2	649.0	539.1	437.6	350.7	278.4	220.8	178.0
25°	1125.3	1024.8	912.8	791.4	665.8	543.3	431.3	338.1	260.7	202.0	162.2
27.5°	1174.5	1068.8	952.6	822.8	687.7	551.6	429.2	324.5	244.9	184.3	149.7
30°	1243.6	1121.1	992.4	854.2	707.6	561.1	427.1	316.1	229.2	170.6	137.1
32.5°	1304.4	1172.5	1036.4	886.6	729.6	570.5	426.0	304.7	214.6	157.0	127.7
35°	1368.2	1219.5	1074.1	918.1	748.5	581.0	425.0	296.3	201.0	143.4	118.3
37.5°	1423.6	1259.4	1103.4	945.3	769.4	590.4	426.0	288.9	188.5	131.9	110.0
40°	1470.8	1300.1	1135.8	970.4	791.4	605.0	427.1	281.6	175.9	121.4	102.6
42.5°	1512.7	1338.9	1170.3	998.7	816.6	621.8	433.4	275.4	165.4	112.0	95.3
45°	1545.1	1374.4	1208.0	1038.4	857.3	649.0	444.9	271.2	154.9	103.6	89.0
47.5°	1578.6	1426.8	1271.9	1101.2	917.0	691.9	464.7	270.0	146.5	97.4	83.7
50°	1624.7	1479.2	1328.4	1165.1	971.4	735.9	488.8	271.2	136.1	91.1	78.5
52.5°	1658.1	1532.6	1401.7	1276.1	1101.2	869.9	582.1	290.0	130.9	85.9	72.2
55°	1856.0	1834.1	1837.1	1858.1	1723.1	1480.2	973.5	418.7	153.9	97.4	71.2
57.5°	2617.0	2694.5	2739.6	2738.4	2515.5	2086.3	1307.4	538.0	171.7	113.0	84.8
60°	3617.8	3559.2	3476.5	3272.4	2976.1	2381.5	1462.4	578.9	148.7	90.0	77.5
62.5°	4502.4	4159.0	3854.3	3523.6	3135.2	2484.1	1493.8	575.7	129.8	68.0	54.4
65°	5054.1	4436.4	3944.4	3529.9	3072.4	2398.2	1413.2	528.7	110.0	55.4	45.0
67.5°	5185.9	4286.7	3590.6	3062.0	2566.8	1866.4	1037.4	397.8	85.9	46.0	39.8
69°	4898.1	3810.4	2975.1	2375.3	1867.5	1238.4	641.7	251.3	66.0	41.9	36.7
70°	4505.5	3314.3	2423.4	1906.2	1382.8	869.9	449.1	176.9	53.4	38.7	33.5
72.5°	2898.6	1740.8	1191.3	829.1	570.5	346.5	175.9	79.5	40.8	32.5	27.3
75°	1124.3	643.8	466.9	354.9	277.4	192.7	106.8	51.3	34.5	27.3	20.9
77.5°	553.8	424.0	346.5	237.6	138.1	85.9	57.6	39.8	28.3	19.9	13.6
80°	437.6	291.0	173.8	107.8	81.7	61.8	44.0	32.5	20.9	12.6	9.4
82.5°	224.0	122.5	90.0	73.3	60.7	48.2	35.6	23.1	13.6	8.4	7.3
85°	70.1	51.3	46.0	45.0	41.9	34.5	25.1	14.7	8.4	5.2	5.2
87.5°	5.2	7.3	9.4	7.3	8.4	7.3	9.4	6.3	4.2	4.2	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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6	482.6
2.5°	439.6	427.1	415.6	408.3	394.6	389.4	384.2	382.0	372.7	374.8	366.4
5°	384.2	362.2	345.5	328.7	313.0	301.5	292.1	280.6	271.2	267.0	258.6
7.5°	334.0	305.7	283.7	265.9	247.1	232.4	219.8	211.4	203.1	194.7	190.5
10°	290.0	259.6	234.5	216.7	198.9	186.3	176.9	170.6	165.4	162.2	161.2
12.5°	249.1	219.8	196.8	181.1	167.5	161.2	157.0	153.9	152.8	151.8	151.8
15°	217.8	188.5	170.6	159.1	152.8	149.7	148.7	146.5	144.5	143.4	143.4
17.5°	188.5	166.4	153.9	147.6	144.5	142.3	140.3	138.1	136.1	135.1	135.1
20°	168.6	150.7	144.5	140.3	137.1	135.1	131.9	129.8	128.7	127.7	126.7
22.5°	152.8	141.3	137.1	134.0	129.8	126.7	124.6	122.5	120.4	119.3	118.3
25°	141.3	134.0	130.9	126.7	122.5	119.3	116.2	113.0	111.0	110.0	107.8
27.5°	132.9	127.7	123.5	118.3	114.1	111.0	107.8	104.7	102.6	100.5	99.4
30°	125.6	120.4	115.2	111.0	105.8	102.6	98.4	95.3	94.2	92.1	90.0
32.5°	118.3	113.0	107.8	102.6	97.4	93.2	91.1	86.9	84.8	83.7	81.7
35°	110.0	104.7	98.4	94.2	89.0	84.8	81.7	78.5	76.4	74.3	73.3
37.5°	102.6	96.3	90.0	84.8	80.6	76.4	73.3	70.1	68.0	66.0	64.9
40°	94.2	87.9	81.7	76.4	72.2	69.1	66.0	62.8	60.7	59.6	59.6
42.5°	86.9	79.5	73.3	69.1	66.0	61.8	58.6	55.4	54.4	53.4	54.4
45°	79.5	72.2	67.0	62.8	59.6	55.4	52.4	50.2	49.2	50.2	51.3
47.5°	73.3	66.0	60.7	57.6	54.4	51.3	48.2	46.0	46.0	48.2	50.2
50°	67.0	59.6	55.4	53.4	50.2	47.1	42.9	41.9	42.9	45.0	47.1
52.5°	60.7	52.4	49.2	48.2	45.0	41.9	38.7	37.7	38.7	40.8	39.8
55°	54.4	46.0	45.0	44.0	40.8	36.7	33.5	33.5	33.5	32.5	30.3
57.5°	52.4	40.8	39.8	38.7	35.6	31.4	29.3	27.3	26.1	23.1	22.0
60°	54.4	36.7	36.7	34.5	31.4	27.3	24.1	20.9	18.9	16.7	16.7
62.5°	44.0	33.5	32.5	30.3	26.1	22.0	18.9	15.7	14.7	13.6	13.6
65°	35.6	30.3	28.3	25.1	22.0	17.8	14.7	12.6	11.5	11.5	12.6
67.5°	32.5	27.3	24.1	20.9	17.8	13.6	11.5	10.5	10.5	11.5	11.5
69°	30.3	25.1	22.0	18.9	15.7	12.6	10.5	10.5	10.5	10.5	11.5
70°	28.3	24.1	20.9	17.8	13.6	10.5	9.4	9.4	10.5	10.5	11.5
72.5°	22.0	18.9	17.8	14.7	10.5	9.4	8.4	9.4	9.4	10.5	10.5
75°	16.7	13.6	13.6	11.5	8.4	7.3	7.3	8.4	8.4	9.4	9.4
77.5°	11.5	9.4	9.4	8.4	7.3	6.3	6.3	7.3	8.4	8.4	9.4
80°	8.4	7.3	6.3	7.3	6.3	5.2	6.3	7.3	7.3	8.4	8.4
82.5°	6.3	6.3	6.3	6.3	5.2	5.2	6.3	6.3	7.3	8.4	8.4
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	6.3	6.3	7.3	7.3
87.5°	3.2	3.2	3.2	4.2	4.2	5.2	5.2	5.2	5.2	6.3	6.3
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: P180786

CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	482.6	482.6	482.6	482.6
2.5°	364.3	363.3	359.1	360.1
5°	255.4	249.1	253.3	252.3
7.5°	187.3	186.3	185.3	187.3
10°	160.2	160.2	159.1	160.2
12.5°	150.7	150.7	150.7	150.7
15°	143.4	143.4	142.3	142.3
17.5°	135.1	135.1	135.1	134.0
20°	126.7	125.6	125.6	125.6
22.5°	117.2	116.2	116.2	116.2
25°	107.8	106.8	106.8	106.8
27.5°	98.4	97.4	96.3	96.3
30°	89.0	87.9	86.9	86.9
32.5°	79.5	78.5	77.5	77.5
35°	71.2	71.2	70.1	69.1
37.5°	63.8	63.8	63.8	63.8
40°	58.6	59.6	59.6	59.6
42.5°	55.4	56.6	57.6	58.6
45°	53.4	55.4	56.6	56.6
47.5°	52.4	53.4	54.4	54.4
50°	48.2	47.1	47.1	47.1
52.5°	38.7	36.7	35.6	34.5
55°	28.3	27.3	25.1	25.1
57.5°	19.9	19.9	18.9	18.9
60°	15.7	15.7	14.7	15.7
62.5°	13.6	13.6	13.6	13.6
65°	12.6	12.6	12.6	12.6
67.5°	12.6	12.6	12.6	12.6
69°	11.5	11.5	11.5	11.5
70°	11.5	11.5	11.5	11.5
72.5°	10.5	10.5	10.5	10.5
75°	9.4	10.5	10.5	10.5
77.5°	9.4	9.4	9.4	9.4
80°	8.4	8.4	9.4	9.4
82.5°	8.4	8.4	8.4	8.4
85°	7.3	7.3	8.4	8.4
87.5°	6.3	6.3	7.3	7.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)