

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: P180787

Luminaire Tested: **ICM-E04-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180787
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-7030
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, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6915.4 lumens
Efficiency: N/A
Efficacy: 71.1 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

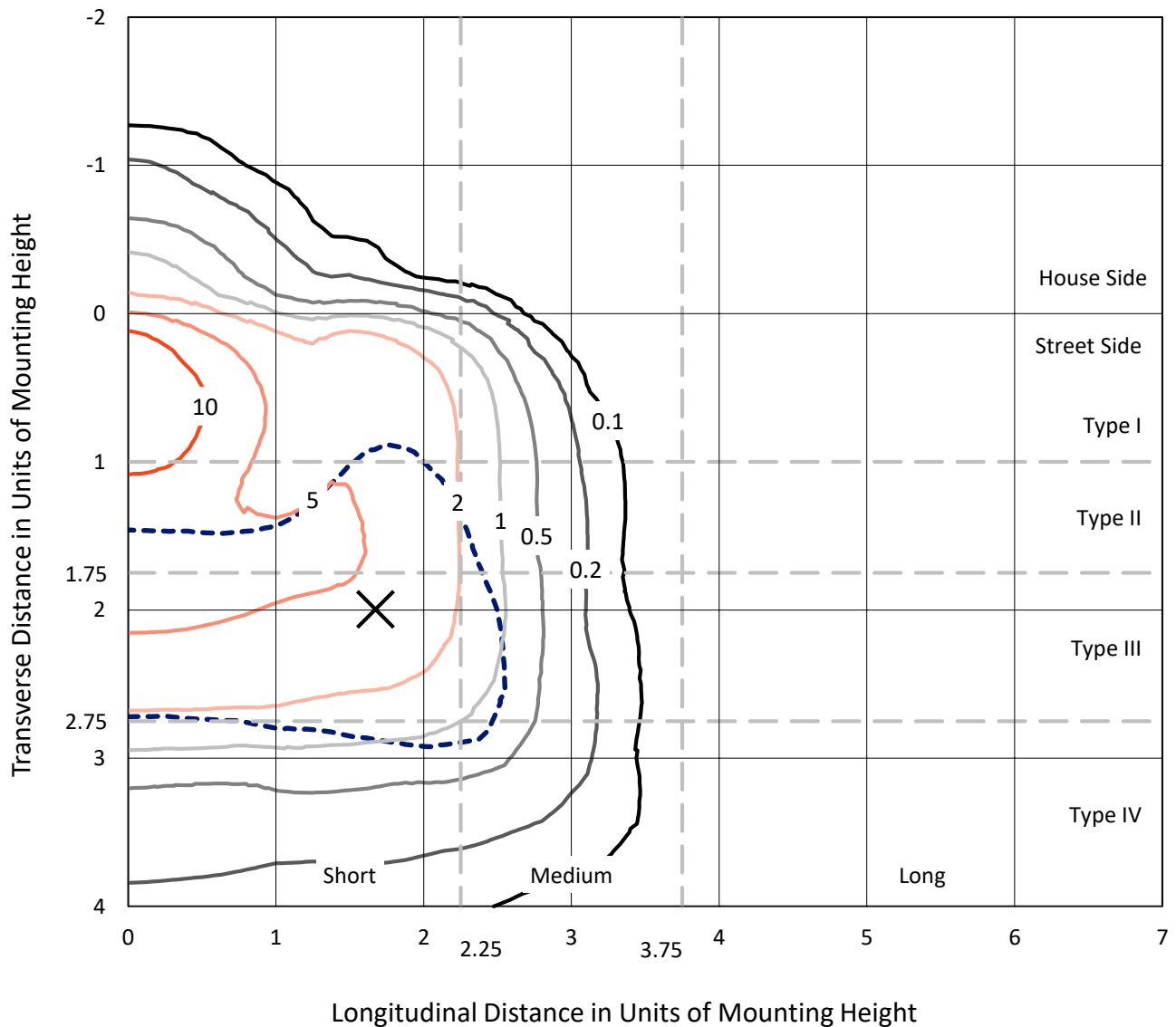
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180787
 CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

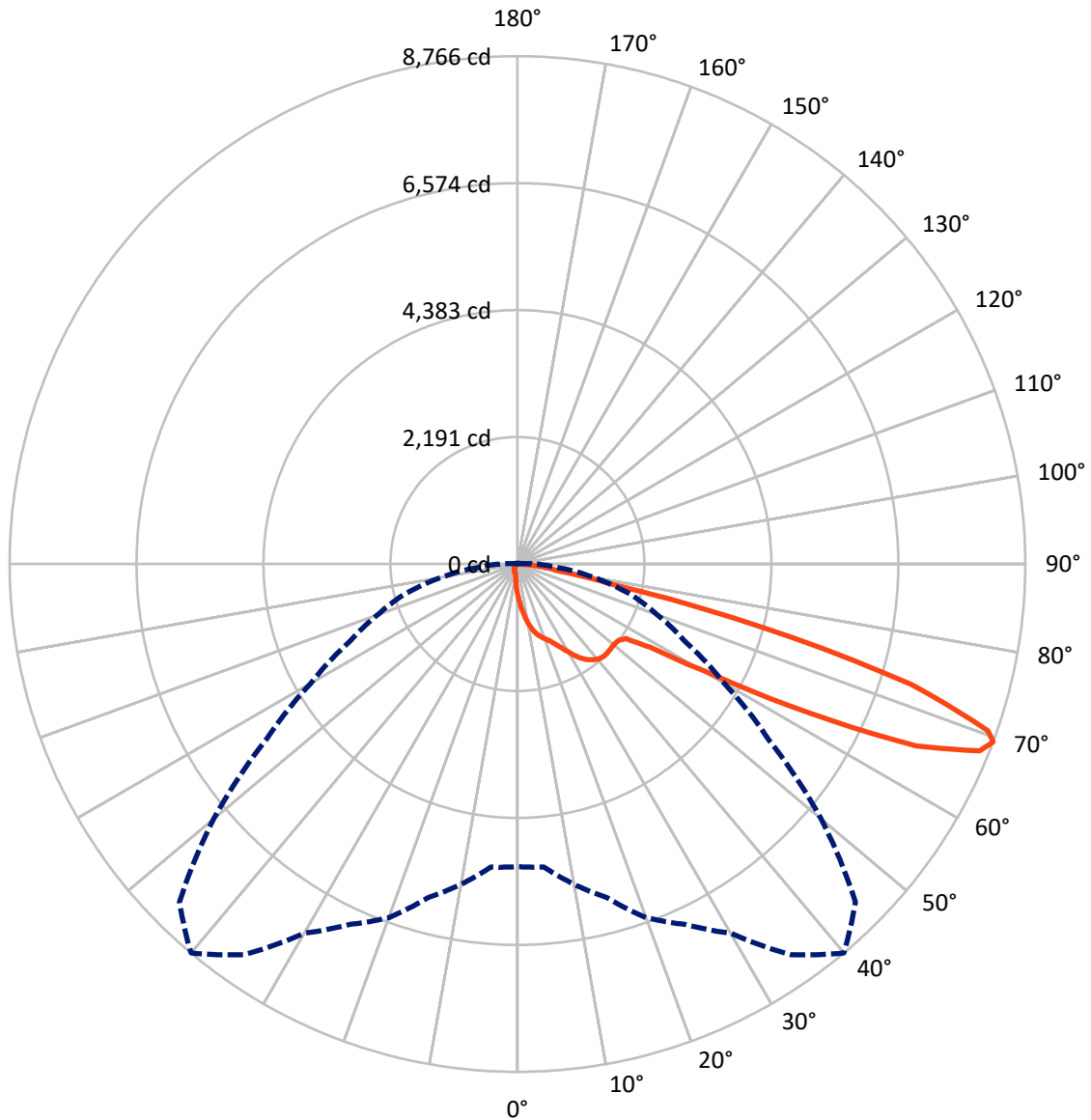
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P180787
CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180787

CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-7030

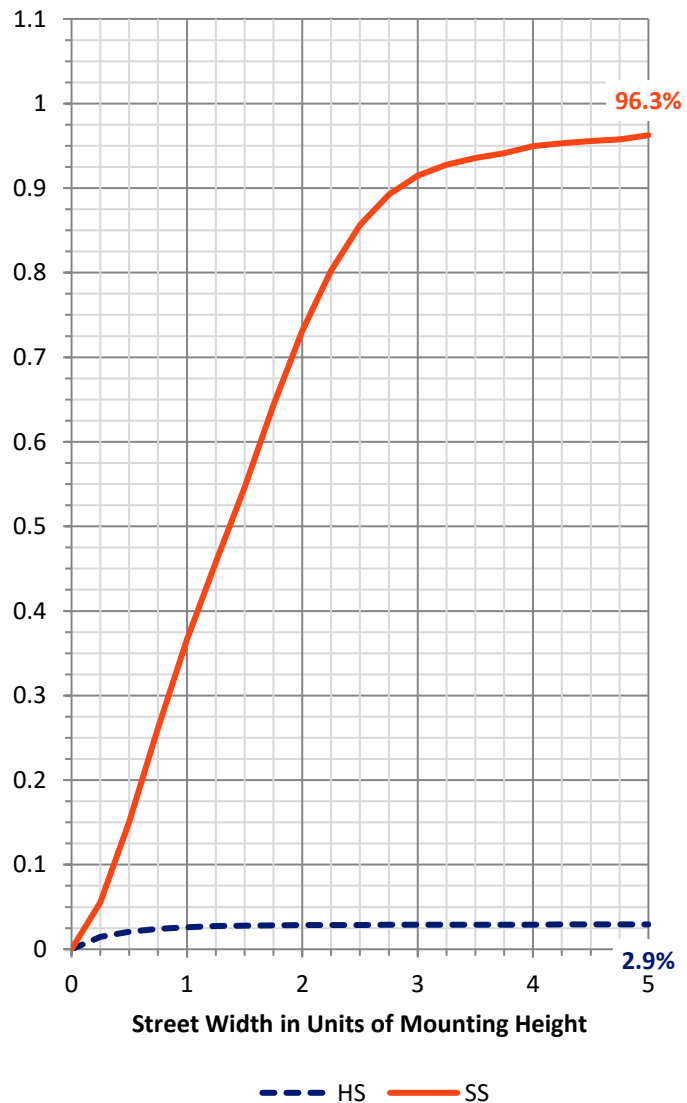
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	205.9	0.0	205.9
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	6709.4	0.0	6709.4
	% Fixture	97.0	0.0	97.0
Total	Lumens	6915.4	0.0	6915.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	0.8
10°-20°	185.1	2.7
20°-30°	354.2	5.1
30°-40°	589.1	8.5
40°-50°	797.1	11.5
50°-60°	1246.6	18.0
60°-70°	2563.0	37.1
70°-80°	1031.3	14.9
80°-90°	95.4	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°	6915.4	100.0
0°-180°	6915.4	100.0



REPORT NUMBER: P180787

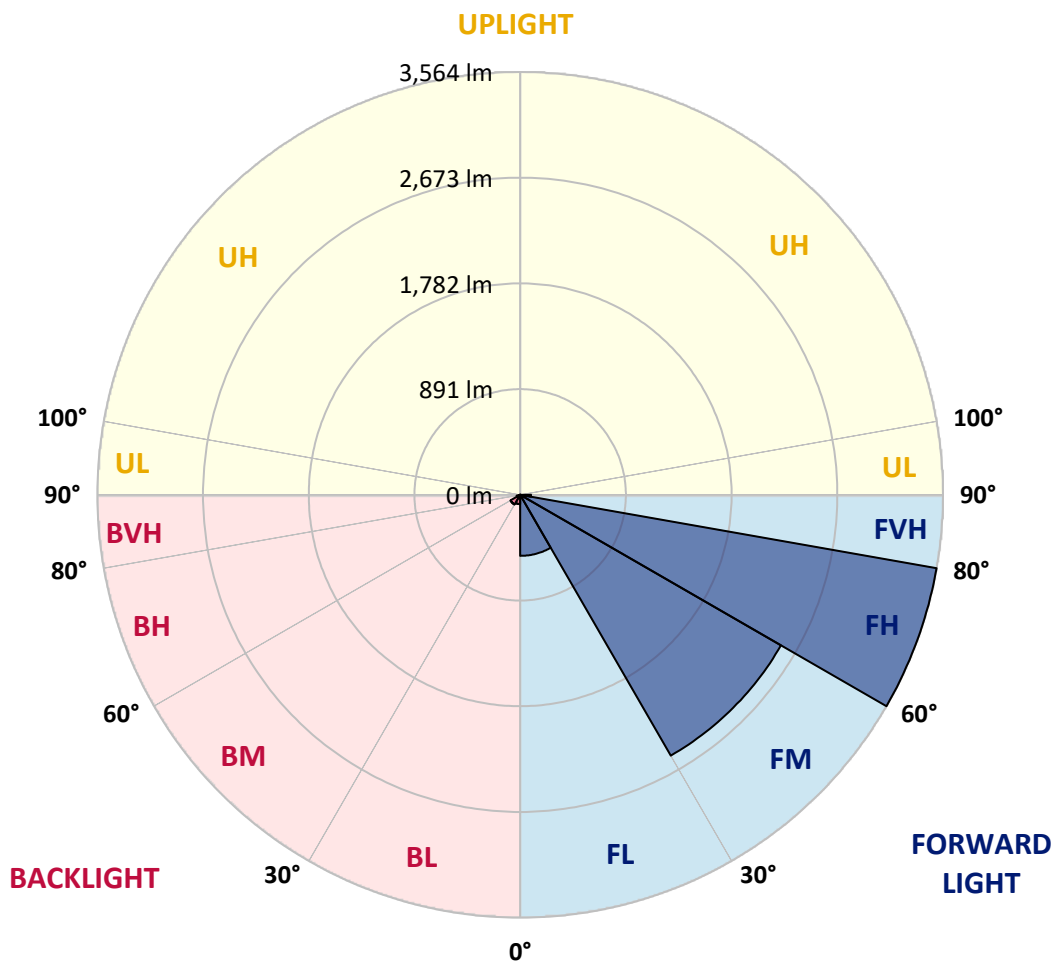
CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.6	7.4			
FM	(30°-60°)	2538.7	36.7			
FH	(60°-80°)	3564.2	51.5			G2/5000
FVH	(80°-90°)	91.8	1.3			G1/100
BL	(0°-30°)	78.3	1.1	B0/110		
BM	(30°-60°)	94.0	1.4	B0/220		
BH	(60°-80°)	30.0	0.4	B0/110		G0/110
BVH	(80°-90°)	3.5	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 IV Short





REPORT NUMBER: P180787

CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
2.5°	696.7	688.7	679.7	679.7	668.4	668.4	661.6	643.4	641.2	631.0	620.8
5°	889.3	882.5	871.2	860.9	851.9	836.0	824.7	803.2	779.4	756.7	736.4
7.5°	1077.3	1074.0	1053.6	1050.1	1035.4	1009.4	986.7	955.0	914.2	882.5	845.1
10°	1251.8	1243.8	1239.4	1220.1	1198.5	1170.2	1135.1	1096.6	1049.0	999.2	946.0
12.5°	1390.0	1385.5	1365.0	1357.1	1334.5	1306.1	1262.0	1212.1	1164.6	1100.0	1037.7
15°	1493.1	1485.1	1471.5	1459.1	1431.9	1407.0	1366.2	1311.8	1254.1	1183.8	1109.0
17.5°	1579.2	1564.5	1561.0	1541.8	1513.5	1484.0	1438.7	1388.8	1320.9	1250.7	1169.1
20°	1694.7	1674.3	1667.5	1639.3	1606.3	1565.6	1513.5	1451.2	1379.8	1302.8	1219.0
22.5°	1830.7	1815.9	1801.2	1776.3	1734.4	1676.6	1600.8	1532.8	1442.1	1357.1	1266.5
25°	2023.3	2010.8	1987.0	1953.0	1900.9	1831.8	1740.0	1640.4	1533.9	1425.1	1318.6
27.5°	2210.2	2198.9	2181.9	2155.8	2096.9	2021.0	1907.7	1780.8	1646.1	1514.6	1396.8
30°	2385.8	2375.5	2358.6	2332.6	2280.4	2205.7	2077.6	1941.7	1774.1	1621.1	1479.5
32.5°	2575.0	2571.6	2552.3	2514.9	2469.6	2368.8	2229.4	2083.3	1913.4	1736.7	1571.3
35°	2789.0	2763.0	2744.9	2707.5	2630.4	2522.8	2359.7	2200.0	2021.0	1839.7	1655.1
37.5°	2970.3	2945.4	2922.7	2875.2	2781.1	2644.0	2459.4	2283.8	2099.2	1914.5	1726.4
40°	3102.9	3090.4	3063.2	3000.9	2895.6	2732.4	2533.0	2341.6	2155.8	1970.1	1784.2
42.5°	3201.4	3182.2	3151.6	3087.0	2962.3	2776.6	2562.5	2365.4	2181.9	2004.0	1821.6
45°	3237.7	3221.8	3193.5	3123.3	2988.5	2789.0	2561.3	2358.6	2183.0	2014.2	1846.5
47.5°	3216.1	3200.3	3175.4	3109.7	2977.1	2774.3	2540.9	2339.4	2171.6	2017.6	1869.2
50°	3144.8	3135.7	3116.5	3060.9	2942.0	2746.0	2522.8	2329.1	2169.4	2034.6	1900.9
52.5°	3138.0	3132.3	3108.5	3053.0	2931.8	2736.9	2520.6	2334.8	2188.7	2056.1	1923.5
55°	3834.7	3754.3	3574.2	3421.2	3169.7	2870.6	2635.0	2426.5	2270.2	2141.0	2048.2
57.5°	5450.1	5330.1	5093.2	4802.2	4224.4	3656.9	3202.5	2874.1	2712.0	2653.1	2688.2
60°	6206.8	6185.3	6147.9	6009.7	5714.1	5225.8	4682.1	4094.1	3858.4	3838.1	3909.4
62.5°	6566.0	6552.4	6563.7	6546.7	6454.9	6312.2	6155.9	5902.1	5668.8	5518.1	5198.6
65°	6731.4	6740.4	6805.0	6855.9	6867.3	6904.7	7019.1	7335.2	7566.3	7177.7	6290.6
67.5°	6311.1	6364.3	6512.7	6698.6	6916.0	7126.7	7466.6	8132.7	8607.3	8150.8	6891.1
69°	5224.7	5250.7	5613.2	5963.3	6494.6	6866.2	7358.9	8232.4	8765.9	8250.5	6843.5
70°	4113.3	4137.1	4525.7	5001.5	5899.9	6377.9	7022.5	8063.6	8617.5	8118.0	6598.8
72.5°	1855.6	1821.6	1958.7	2213.6	3190.1	3949.1	5076.3	6533.2	7109.7	6503.7	4937.0
75°	1296.0	1281.2	1296.0	1297.1	1448.9	1869.2	2358.6	3541.2	4379.6	3779.2	2358.6
77.5°	1003.7	993.5	983.4	972.0	990.1	1109.0	1156.7	1256.3	1631.3	1542.9	899.4
80°	794.1	785.0	810.0	802.1	802.1	815.6	806.6	769.2	699.0	648.0	580.0
82.5°	369.3	371.5	371.5	403.3	486.0	567.5	593.6	556.2	494.0	420.3	338.7
85°	35.2	39.6	66.9	103.1	205.0	231.1	232.2	192.6	192.6	151.8	122.3
87.5°	0.0	1.1	1.1	1.1	10.2	28.3	23.8	6.8	3.4	3.4	5.7
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: P180787

CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
2.5°	602.7	599.3	585.7	572.1	559.6	546.0	533.6	521.1	507.5	497.3	484.8
5°	704.7	679.7	651.4	624.2	597.0	568.7	539.3	513.2	486.0	461.0	437.3
7.5°	807.7	759.0	720.5	671.8	627.6	583.4	542.6	500.7	462.2	426.0	392.0
10°	895.0	836.0	776.0	713.7	650.2	591.4	534.7	484.8	433.9	389.7	347.8
12.5°	966.3	891.5	818.0	739.7	668.4	593.6	523.4	463.4	403.3	353.5	310.4
15°	1030.9	944.7	856.5	765.8	675.2	590.2	512.0	437.3	376.1	319.4	270.8
17.5°	1083.0	984.5	884.7	782.8	685.4	585.7	497.3	419.2	347.8	288.8	241.3
20°	1128.3	1025.2	917.6	803.2	692.2	584.6	484.8	396.5	322.9	260.6	214.1
22.5°	1170.2	1067.2	951.6	829.2	702.3	583.4	473.5	379.5	301.3	239.1	192.6
25°	1217.8	1109.0	987.8	856.5	720.5	587.9	466.7	365.9	282.0	218.6	175.6
27.5°	1271.1	1156.7	1030.9	890.4	744.3	597.0	464.5	351.2	265.1	199.4	162.0
30°	1345.8	1213.3	1074.0	924.4	765.8	607.2	462.2	342.1	248.1	184.7	148.4
32.5°	1411.5	1268.8	1121.5	959.5	789.6	617.4	461.0	329.7	232.2	170.0	138.2
35°	1480.7	1319.7	1162.3	993.5	810.0	628.7	459.9	320.6	217.5	155.2	128.0
37.5°	1540.7	1362.8	1194.1	1023.0	832.7	638.9	461.0	312.7	203.9	142.7	119.0
40°	1591.6	1407.0	1229.1	1050.1	856.5	654.8	462.2	304.7	190.3	131.4	111.0
42.5°	1636.9	1448.9	1266.5	1080.8	883.6	672.9	469.0	298.0	179.0	121.2	103.1
45°	1672.1	1487.5	1307.3	1123.8	927.8	702.3	481.5	293.4	167.6	112.2	96.3
47.5°	1708.3	1544.1	1376.4	1191.7	992.4	748.8	503.0	292.3	158.6	105.4	90.6
50°	1758.2	1600.8	1437.6	1260.8	1051.3	796.4	529.0	293.4	147.3	98.5	84.9
52.5°	1794.4	1658.5	1516.8	1380.9	1191.7	941.4	629.9	313.8	141.6	92.9	78.1
55°	2008.6	1984.8	1988.1	2010.8	1864.7	1601.9	1053.6	453.1	166.5	105.4	77.0
57.5°	2832.1	2915.9	2964.7	2963.6	2722.2	2257.8	1414.9	582.2	185.8	122.3	91.7
60°	3915.1	3851.7	3762.2	3541.2	3220.7	2577.2	1582.6	626.4	160.8	97.4	83.8
62.5°	4872.4	4500.8	4171.1	3813.1	3392.9	2688.2	1616.6	623.1	140.5	73.7	58.9
65°	5469.3	4801.0	4268.6	3819.9	3324.9	2595.4	1529.3	572.1	119.0	60.0	48.7
67.5°	5612.1	4639.0	3885.7	3313.6	2777.7	2019.8	1122.6	430.5	92.9	49.9	43.1
69°	5300.6	4123.6	3219.6	2570.4	2021.0	1340.2	694.4	271.9	71.3	45.3	39.6
70°	4875.8	3586.6	2622.5	2062.9	1496.5	941.4	486.0	191.4	57.8	42.0	36.3
72.5°	3136.9	1883.9	1289.2	897.2	617.4	375.0	190.3	86.1	44.2	35.2	29.5
75°	1216.7	696.7	505.2	384.0	300.2	208.5	115.5	55.5	37.4	29.5	22.7
77.5°	599.3	458.8	375.0	257.1	149.5	92.9	62.3	43.1	30.6	21.5	14.7
80°	473.5	314.9	188.1	116.7	88.4	66.9	47.5	35.2	22.7	13.6	10.2
82.5°	242.4	132.6	97.4	79.3	65.7	52.1	38.5	24.9	14.7	9.0	7.9
85°	75.9	55.5	49.9	48.7	45.3	37.4	27.2	15.8	9.0	5.7	5.7
87.5°	5.7	7.9	10.2	7.9	9.0	7.9	10.2	6.8	4.6	4.6	3.4
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: P180787

CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
2.5°	475.8	462.2	449.8	441.8	427.1	421.4	415.7	413.5	403.3	405.6	396.5
5°	415.7	392.0	373.9	355.7	338.7	326.2	316.1	303.6	293.4	288.8	279.8
7.5°	361.4	330.8	307.0	287.7	267.4	251.5	237.9	228.8	219.8	210.7	206.1
10°	313.8	280.9	253.8	234.5	215.3	201.7	191.4	184.7	179.0	175.6	174.4
12.5°	269.6	237.9	212.9	196.0	181.2	174.4	170.0	166.5	165.4	164.3	164.3
15°	235.6	203.9	184.7	172.2	165.4	162.0	160.8	158.6	156.4	155.2	155.2
17.5°	203.9	180.1	166.5	159.7	156.4	154.0	151.8	149.5	147.3	146.1	146.1
20°	182.4	163.2	156.4	151.8	148.4	146.1	142.7	140.5	139.3	138.2	137.1
22.5°	165.4	152.9	148.4	145.0	140.5	137.1	134.8	132.6	130.2	129.1	128.0
25°	152.9	145.0	141.6	137.1	132.6	129.1	125.8	122.3	120.1	119.0	116.7
27.5°	143.9	138.2	133.7	128.0	123.4	120.1	116.7	113.3	111.0	108.7	107.6
30°	135.9	130.2	124.7	120.1	114.4	111.0	106.5	103.1	102.0	99.7	97.4
32.5°	128.0	122.3	116.7	111.0	105.4	100.8	98.5	94.0	91.7	90.6	88.4
35°	119.0	113.3	106.5	102.0	96.3	91.7	88.4	84.9	82.7	80.5	79.3
37.5°	111.0	104.2	97.4	91.7	87.3	82.7	79.3	75.9	73.7	71.3	70.2
40°	102.0	95.2	88.4	82.7	78.1	74.8	71.3	68.0	65.7	64.6	64.6
42.5°	94.0	86.1	79.3	74.8	71.3	66.9	63.4	60.0	58.9	57.8	58.9
45°	86.1	78.1	72.5	68.0	64.6	60.0	56.7	54.4	53.2	54.4	55.5
47.5°	79.3	71.3	65.7	62.3	58.9	55.5	52.1	49.9	49.9	52.1	54.4
50°	72.5	64.6	60.0	57.8	54.4	51.0	46.4	45.3	46.4	48.7	51.0
52.5°	65.7	56.7	53.2	52.1	48.7	45.3	42.0	40.7	42.0	44.2	43.1
55°	58.9	49.9	48.7	47.5	44.2	39.6	36.3	36.3	36.3	35.2	32.8
57.5°	56.7	44.2	43.1	42.0	38.5	34.0	31.7	29.5	28.3	24.9	23.8
60°	58.9	39.6	39.6	37.4	34.0	29.5	26.0	22.7	20.4	18.1	18.1
62.5°	47.5	36.3	35.2	32.8	28.3	23.8	20.4	17.0	15.8	14.7	14.7
65°	38.5	32.8	30.6	27.2	23.8	19.3	15.8	13.6	12.5	12.5	13.6
67.5°	35.2	29.5	26.0	22.7	19.3	14.7	12.5	11.3	11.3	12.5	12.5
69°	32.8	27.2	23.8	20.4	17.0	13.6	11.3	11.3	11.3	11.3	12.5
70°	30.6	26.0	22.7	19.3	14.7	11.3	10.2	10.2	11.3	11.3	12.5
72.5°	23.8	20.4	19.3	15.8	11.3	10.2	9.0	10.2	10.2	11.3	11.3
75°	18.1	14.7	14.7	12.5	9.0	7.9	7.9	9.0	9.0	10.2	10.2
77.5°	12.5	10.2	10.2	9.0	7.9	6.8	6.8	7.9	9.0	9.0	10.2
80°	9.0	7.9	6.8	7.9	6.8	5.7	6.8	7.9	7.9	9.0	9.0
82.5°	6.8	6.8	6.8	6.8	5.7	5.7	6.8	6.8	7.9	9.0	9.0
85°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.8	6.8	7.9	7.9
87.5°	3.4	3.4	3.4	4.6	4.6	5.7	5.7	5.7	5.7	6.8	6.8
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: P180787

CATALOG NUMBER: ICM-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	522.2	522.2	522.2	522.2
2.5°	394.2	393.1	388.6	389.7
5°	276.4	269.6	274.1	273.0
7.5°	202.8	201.7	200.6	202.8
10°	173.3	173.3	172.2	173.3
12.5°	163.2	163.2	163.2	163.2
15°	155.2	155.2	154.0	154.0
17.5°	146.1	146.1	146.1	145.0
20°	137.1	135.9	135.9	135.9
22.5°	126.9	125.8	125.8	125.8
25°	116.7	115.5	115.5	115.5
27.5°	106.5	105.4	104.2	104.2
30°	96.3	95.2	94.0	94.0
32.5°	86.1	84.9	83.8	83.8
35°	77.0	77.0	75.9	74.8
37.5°	69.1	69.1	69.1	69.1
40°	63.4	64.6	64.6	64.6
42.5°	60.0	61.2	62.3	63.4
45°	57.8	60.0	61.2	61.2
47.5°	56.7	57.8	58.9	58.9
50°	52.1	51.0	51.0	51.0
52.5°	42.0	39.6	38.5	37.4
55°	30.6	29.5	27.2	27.2
57.5°	21.5	21.5	20.4	20.4
60°	17.0	17.0	15.8	17.0
62.5°	14.7	14.7	14.7	14.7
65°	13.6	13.6	13.6	13.6
67.5°	13.6	13.6	13.6	13.6
69°	12.5	12.5	12.5	12.5
70°	12.5	12.5	12.5	12.5
72.5°	11.3	11.3	11.3	11.3
75°	10.2	11.3	11.3	11.3
77.5°	10.2	10.2	10.2	10.2
80°	9.0	9.0	10.2	10.2
82.5°	9.0	9.0	9.0	9.0
85°	7.9	7.9	9.0	9.0
87.5°	6.8	6.8	7.9	7.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)