

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: P180796

Luminaire Tested: **ICM-E05-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180796
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-E05-LED-E1-SL4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7987.7 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

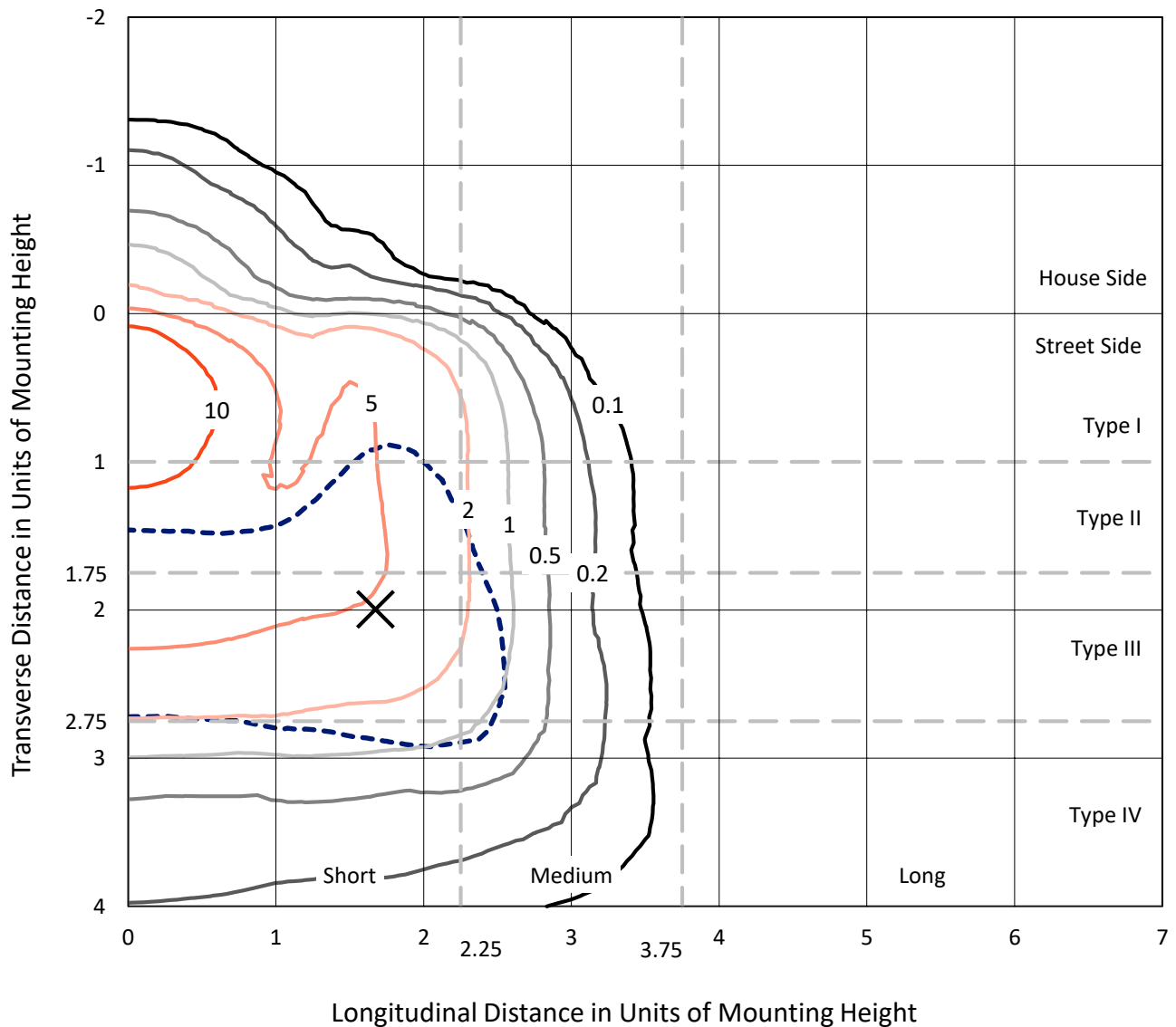
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P180796
 CATALOG NUMBER: ICM-E05-LED-E1-SL4-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

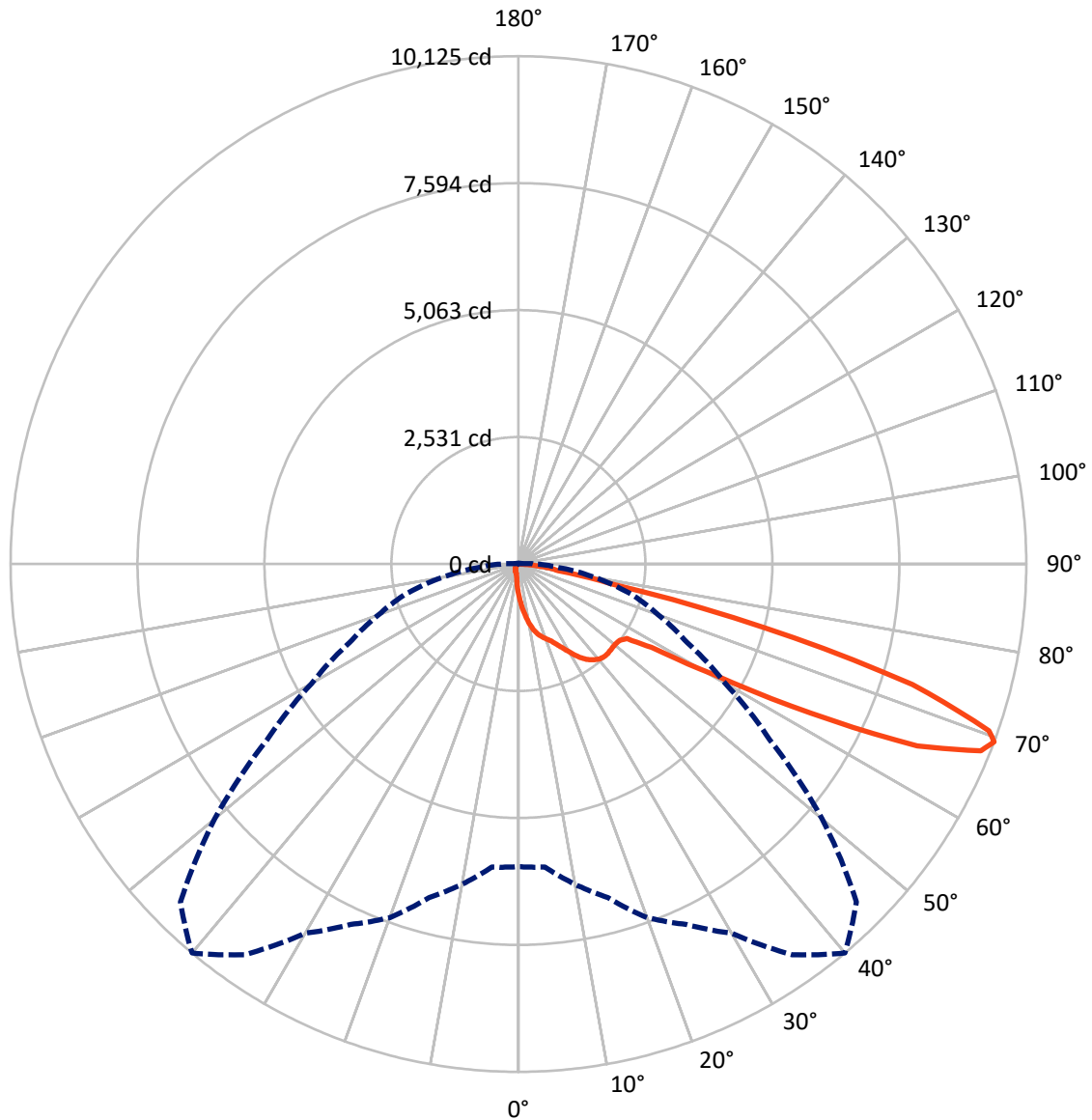
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P180796
CATALOG NUMBER: ICM-E05-LED-E1-SL4-HSS-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P180796

CATALOG NUMBER: ICM-E05-LED-E1-SL4-HSS-8030

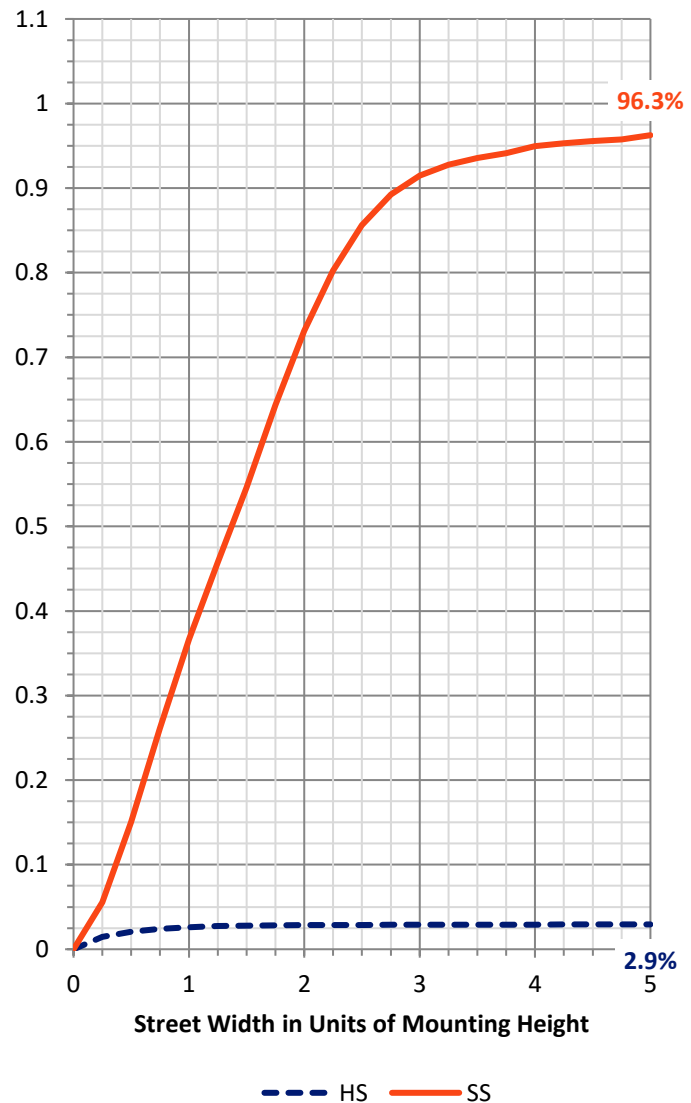
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	237.9	0.0	237.9
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	7749.9	0.0	7749.9
	% Fixture	97.0	0.0	97.0
Total	Lumens	7987.7	0.0	7987.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	0.8
10°-20°	213.8	2.7
20°-30°	409.1	5.1
30°-40°	680.4	8.5
40°-50°	920.7	11.5
50°-60°	1439.9	18.0
60°-70°	2960.4	37.1
70°-80°	1191.2	14.9
80°-90°	110.2	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°	7987.7	100.0
0°-180°	7987.7	100.0



REPORT NUMBER: P180796

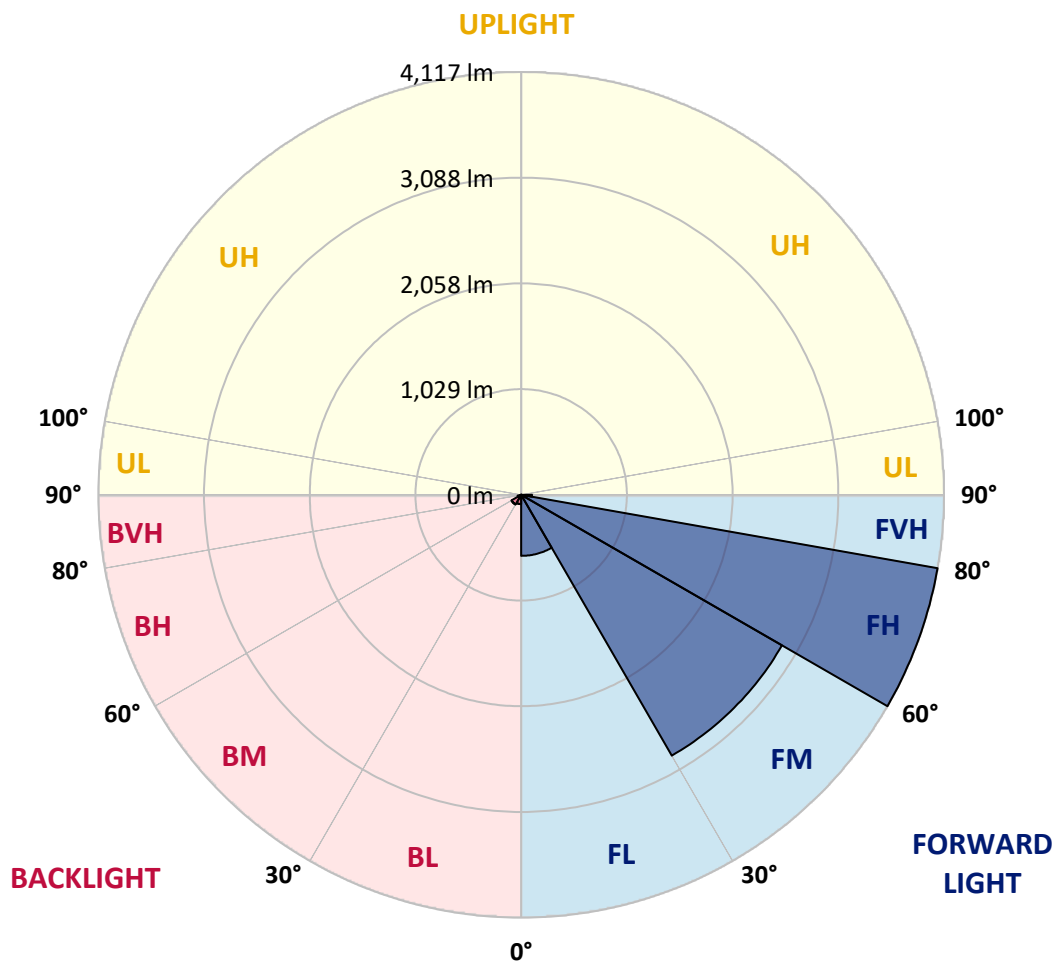
CATALOG NUMBER: ICM-E05-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.4	7.4			
FM (30°-60°)	2932.4	36.7			
FH (60°-80°)	4116.9	51.5			G2/5000
FVH (80°-90°)	106.1	1.3			G2/225
BL (0°-30°)	90.5	1.1	B0/110		
BM (30°-60°)	108.6	1.4	B0/220		
BH (60°-80°)	34.7	0.4	B0/110		G0/110
BVH (80°-90°)	4.1	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: P180796

CATALOG NUMBER: ICM-E05-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3
2.5°	804.7	795.5	785.1	785.1	772.0	772.0	764.2	743.3	740.7	728.8	717.0
5°	1027.2	1019.4	1006.2	994.5	984.0	965.7	952.6	927.7	900.3	874.1	850.5
7.5°	1244.4	1240.5	1216.9	1213.0	1196.0	1165.9	1139.7	1103.1	1056.0	1019.4	976.2
10°	1445.9	1436.8	1431.5	1409.3	1384.4	1351.7	1311.2	1266.6	1211.7	1154.1	1092.7
12.5°	1605.6	1600.3	1576.8	1567.6	1541.4	1508.8	1457.7	1400.1	1345.1	1270.6	1198.6
15°	1724.7	1715.5	1699.7	1685.4	1654.0	1625.2	1578.1	1515.3	1448.6	1367.5	1281.0
17.5°	1824.1	1807.1	1803.2	1780.9	1748.2	1714.2	1661.8	1604.3	1525.8	1444.6	1350.4
20°	1957.6	1934.0	1926.2	1893.4	1855.5	1808.4	1748.2	1676.2	1593.8	1504.8	1408.0
22.5°	2114.5	2097.6	2080.6	2051.7	2003.4	1936.6	1848.9	1770.4	1665.8	1567.6	1462.9
25°	2337.0	2322.6	2295.2	2255.9	2195.7	2115.9	2009.9	1894.7	1771.7	1646.1	1523.1
27.5°	2552.9	2539.8	2520.2	2490.2	2422.1	2334.4	2203.5	2057.0	1901.3	1749.5	1613.4
30°	2755.7	2743.9	2724.3	2694.2	2634.1	2547.7	2399.8	2242.8	2049.1	1872.5	1708.9
32.5°	2974.3	2970.3	2948.1	2904.9	2852.6	2736.1	2575.2	2406.3	2210.1	2006.0	1814.9
35°	3221.6	3191.5	3170.5	3127.4	3038.3	2914.1	2725.7	2541.1	2334.4	2125.0	1911.7
37.5°	3430.9	3402.2	3376.0	3321.0	3212.4	3054.1	2840.8	2638.0	2424.7	2211.4	1994.2
40°	3584.0	3569.6	3538.3	3466.3	3344.6	3156.1	2925.9	2704.7	2490.2	2275.5	2060.9
42.5°	3697.9	3675.7	3640.3	3565.7	3421.8	3207.2	2959.8	2732.2	2520.2	2314.8	2104.1
45°	3739.7	3721.4	3688.8	3607.6	3451.8	3221.6	2958.5	2724.3	2521.5	2326.5	2132.9
47.5°	3714.9	3696.6	3667.7	3591.9	3438.8	3204.6	2935.0	2702.1	2508.5	2330.4	2159.1
50°	3632.5	3622.0	3599.7	3535.6	3398.3	3171.8	2914.1	2690.3	2505.8	2350.1	2195.7
52.5°	3624.6	3618.1	3590.6	3526.4	3386.4	3161.4	2911.5	2696.9	2528.1	2375.0	2221.9
55°	4429.3	4336.4	4128.4	3951.7	3661.2	3315.8	3043.6	2802.8	2622.2	2473.1	2365.8
57.5°	6295.3	6156.6	5883.1	5546.8	4879.5	4223.9	3699.2	3319.7	3132.6	3064.6	3105.1
60°	7169.3	7144.5	7101.3	6941.7	6600.2	6036.2	5408.1	4729.0	4456.9	4433.2	4515.7
62.5°	7584.2	7568.5	7581.5	7561.9	7456.0	7291.1	7110.5	6817.4	6547.9	6373.8	6004.8
65°	7775.2	7785.7	7860.3	7919.2	7932.2	7975.4	8107.6	8472.7	8739.6	8290.7	7266.2
67.5°	7289.8	7351.3	7522.7	7737.3	7988.5	8231.9	8624.4	9393.9	9942.1	9414.8	7959.8
69°	6034.9	6065.0	6483.8	6888.0	7501.7	7930.9	8500.1	9509.0	10125.4	9529.9	7904.8
70°	4751.3	4778.7	5227.6	5777.2	6814.7	7366.9	8111.5	9314.0	9953.9	9376.9	7622.1
72.5°	2143.4	2104.1	2262.4	2556.9	3684.8	4561.5	5863.5	7546.3	8212.2	7512.2	5702.5
75°	1496.9	1479.9	1496.9	1498.2	1673.6	2159.1	2724.3	4090.4	5058.7	4365.2	2724.3
77.5°	1159.4	1147.5	1135.8	1122.7	1143.6	1281.0	1336.0	1451.2	1884.3	1782.2	1039.0
80°	917.3	906.8	935.6	926.4	926.4	942.1	931.6	888.5	807.4	748.5	670.0
82.5°	426.6	429.2	429.2	465.9	561.4	655.5	685.7	642.5	570.5	485.5	391.3
85°	40.6	45.8	77.2	119.1	236.8	267.0	268.3	222.4	222.4	175.3	141.3
87.5°	0.0	1.3	1.3	1.3	11.8	32.7	27.4	7.8	3.9	3.9	6.5
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: P180796

CATALOG NUMBER: ICM-E05-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3
2.5°	696.1	692.2	676.5	660.8	646.4	630.7	616.3	602.0	586.2	574.4	560.0
5°	813.9	785.1	752.4	721.0	689.6	656.8	622.9	592.7	561.4	532.6	505.1
7.5°	932.9	876.7	832.2	775.9	724.9	673.9	626.8	578.3	533.9	492.0	452.7
10°	1033.8	965.7	896.4	824.4	751.1	683.1	617.6	560.0	501.1	450.1	401.7
12.5°	1116.2	1029.8	944.7	854.4	772.0	685.7	604.6	535.2	465.9	408.3	358.5
15°	1190.8	1091.3	989.2	884.6	779.9	681.8	591.4	505.1	434.4	369.0	312.7
17.5°	1251.0	1137.1	1022.0	904.2	791.6	676.5	574.4	484.2	401.7	333.7	278.7
20°	1303.3	1184.2	1059.9	927.7	799.5	675.2	560.0	458.0	372.9	300.9	247.4
22.5°	1351.7	1232.7	1099.2	957.9	811.3	673.9	547.0	438.3	348.1	276.1	222.4
25°	1406.7	1281.0	1141.0	989.2	832.2	679.2	539.1	422.6	325.9	252.6	202.8
27.5°	1468.2	1336.0	1190.8	1028.5	859.7	689.6	536.5	405.7	306.2	230.3	187.2
30°	1554.5	1401.4	1240.5	1067.7	884.6	701.4	533.9	395.2	286.6	213.3	171.4
32.5°	1630.4	1465.5	1295.4	1108.3	912.0	713.1	532.6	380.7	268.3	196.3	159.6
35°	1710.2	1524.4	1342.5	1147.5	935.6	726.2	531.3	370.3	251.3	179.3	147.9
37.5°	1779.5	1574.1	1379.2	1181.6	961.8	738.1	532.6	361.1	235.5	164.8	137.4
40°	1838.4	1625.2	1419.7	1213.0	989.2	756.3	533.9	352.0	219.8	151.8	128.3
42.5°	1890.8	1673.6	1462.9	1248.3	1020.7	777.3	541.8	344.1	206.8	140.0	119.1
45°	1931.4	1718.1	1510.1	1298.1	1071.6	811.3	556.1	338.9	193.7	129.6	111.3
47.5°	1973.2	1783.5	1589.9	1376.6	1146.2	864.9	581.0	337.6	183.2	121.7	104.7
50°	2030.8	1848.9	1660.5	1456.4	1214.3	919.9	611.1	338.9	170.1	113.9	98.1
52.5°	2072.7	1915.6	1752.1	1595.1	1376.6	1087.4	727.5	362.4	163.5	107.3	90.3
55°	2320.0	2292.6	2296.5	2322.6	2153.8	1850.2	1216.9	523.4	192.4	121.7	89.0
57.5°	3271.3	3368.1	3424.4	3423.1	3144.4	2607.9	1634.3	672.6	214.6	141.3	106.0
60°	4522.3	4449.0	4345.6	4090.4	3720.1	2976.9	1828.0	723.6	185.8	112.6	96.8
62.5°	5627.9	5198.7	4818.0	4404.5	3919.0	3105.1	1867.3	719.7	162.2	85.0	68.0
65°	6317.5	5545.5	4930.5	4412.3	3840.5	2997.8	1766.5	660.8	137.4	69.4	56.3
67.5°	6482.5	5358.4	4488.2	3827.5	3208.5	2333.1	1296.8	497.2	107.3	57.6	49.8
69°	6122.5	4763.0	3718.8	2969.0	2334.4	1548.0	802.1	314.0	82.4	52.4	45.8
70°	5631.8	4142.8	3029.2	2382.8	1728.6	1087.4	561.4	221.1	66.7	48.4	41.9
72.5°	3623.3	2176.1	1489.1	1036.4	713.1	433.1	219.8	99.4	51.1	40.6	34.0
75°	1405.3	804.7	583.6	443.6	346.8	240.7	133.5	64.1	43.2	34.0	26.1
77.5°	692.2	530.0	433.1	297.0	172.7	107.3	72.0	49.8	35.3	24.8	17.0
80°	547.0	363.7	217.2	134.8	102.0	77.2	55.0	40.6	26.1	15.7	11.8
82.5°	280.0	153.1	112.6	91.6	75.9	60.2	44.5	28.7	17.0	10.5	9.1
85°	87.6	64.1	57.6	56.3	52.4	43.2	31.4	18.3	10.5	6.5	6.5
87.5°	6.5	9.1	11.8	9.1	10.5	9.1	11.8	7.8	5.2	5.2	3.9
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: P180796

CATALOG NUMBER: ICM-E05-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3	603.3
2.5°	549.6	533.9	519.4	510.3	493.3	486.8	480.2	477.6	465.9	468.5	458.0
5°	480.2	452.7	431.8	410.9	391.3	376.8	365.1	350.7	338.9	333.7	323.2
7.5°	417.4	382.0	354.6	332.4	308.8	290.5	274.8	264.3	253.9	243.4	238.1
10°	362.4	324.5	293.1	270.9	248.7	232.9	221.1	213.3	206.8	202.8	201.5
12.5°	311.4	274.8	246.0	226.4	209.4	201.5	196.3	192.4	191.1	189.8	189.8
15°	272.2	235.5	213.3	198.9	191.1	187.2	185.8	183.2	180.6	179.3	179.3
17.5°	235.5	208.1	192.4	184.5	180.6	178.0	175.3	172.7	170.1	168.8	168.8
20°	210.7	188.5	180.6	175.3	171.4	168.8	164.8	162.2	160.9	159.6	158.3
22.5°	191.1	176.7	171.4	167.5	162.2	158.3	155.7	153.1	150.5	149.2	147.9
25°	176.7	167.5	163.5	158.3	153.1	149.2	145.2	141.3	138.7	137.4	134.8
27.5°	166.1	159.6	154.4	147.9	142.6	138.7	134.8	130.9	128.3	125.6	124.3
30°	157.0	150.5	143.9	138.7	132.2	128.3	123.0	119.1	117.8	115.2	112.6
32.5°	147.9	141.3	134.8	128.3	121.7	116.5	113.9	108.7	106.0	104.7	102.0
35°	137.4	130.9	123.0	117.8	111.3	106.0	102.0	98.1	95.5	92.9	91.6
37.5°	128.3	120.4	112.6	106.0	100.7	95.5	91.6	87.6	85.0	82.4	81.1
40°	117.8	110.0	102.0	95.5	90.3	86.3	82.4	78.5	75.9	74.6	74.6
42.5°	108.7	99.4	91.6	86.3	82.4	77.2	73.3	69.4	68.0	66.7	68.0
45°	99.4	90.3	83.7	78.5	74.6	69.4	65.4	62.8	61.5	62.8	64.1
47.5°	91.6	82.4	75.9	72.0	68.0	64.1	60.2	57.6	57.6	60.2	62.8
50°	83.7	74.6	69.4	66.7	62.8	58.9	53.7	52.4	53.7	56.3	58.9
52.5°	75.9	65.4	61.5	60.2	56.3	52.4	48.4	47.1	48.4	51.1	49.8
55°	68.0	57.6	56.3	55.0	51.1	45.8	41.9	41.9	41.9	40.6	38.0
57.5°	65.4	51.1	49.8	48.4	44.5	39.3	36.7	34.0	32.7	28.7	27.4
60°	68.0	45.8	45.8	43.2	39.3	34.0	30.1	26.1	23.5	20.9	20.9
62.5°	55.0	41.9	40.6	38.0	32.7	27.4	23.5	19.6	18.3	17.0	17.0
65°	44.5	38.0	35.3	31.4	27.4	22.2	18.3	15.7	14.4	14.4	15.7
67.5°	40.6	34.0	30.1	26.1	22.2	17.0	14.4	13.1	13.1	14.4	14.4
69°	38.0	31.4	27.4	23.5	19.6	15.7	13.1	13.1	13.1	13.1	14.4
70°	35.3	30.1	26.1	22.2	17.0	13.1	11.8	11.8	13.1	13.1	14.4
72.5°	27.4	23.5	22.2	18.3	13.1	11.8	10.5	11.8	11.8	13.1	13.1
75°	20.9	17.0	17.0	14.4	10.5	9.1	9.1	10.5	10.5	11.8	11.8
77.5°	14.4	11.8	11.8	10.5	9.1	7.8	7.8	9.1	10.5	10.5	11.8
80°	10.5	9.1	7.8	9.1	7.8	6.5	7.8	9.1	9.1	10.5	10.5
82.5°	7.8	7.8	7.8	7.8	6.5	6.5	7.8	7.8	9.1	10.5	10.5
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.8	7.8	9.1	9.1
87.5°	3.9	3.9	3.9	5.2	5.2	6.5	6.5	6.5	6.5	7.8	7.8
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: P180796

CATALOG NUMBER: ICM-E05-LED-E1-SL4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	603.3	603.3	603.3	603.3
2.5°	455.4	454.0	448.8	450.1
5°	319.3	311.4	316.7	315.4
7.5°	234.2	232.9	231.6	234.2
10°	200.2	200.2	198.9	200.2
12.5°	188.5	188.5	188.5	188.5
15°	179.3	179.3	178.0	178.0
17.5°	168.8	168.8	168.8	167.5
20°	158.3	157.0	157.0	157.0
22.5°	146.5	145.2	145.2	145.2
25°	134.8	133.5	133.5	133.5
27.5°	123.0	121.7	120.4	120.4
30°	111.3	110.0	108.7	108.7
32.5°	99.4	98.1	96.8	96.8
35°	89.0	89.0	87.6	86.3
37.5°	79.8	79.8	79.8	79.8
40°	73.3	74.6	74.6	74.6
42.5°	69.4	70.7	72.0	73.3
45°	66.7	69.4	70.7	70.7
47.5°	65.4	66.7	68.0	68.0
50°	60.2	58.9	58.9	58.9
52.5°	48.4	45.8	44.5	43.2
55°	35.3	34.0	31.4	31.4
57.5°	24.8	24.8	23.5	23.5
60°	19.6	19.6	18.3	19.6
62.5°	17.0	17.0	17.0	17.0
65°	15.7	15.7	15.7	15.7
67.5°	15.7	15.7	15.7	15.7
69°	14.4	14.4	14.4	14.4
70°	14.4	14.4	14.4	14.4
72.5°	13.1	13.1	13.1	13.1
75°	11.8	13.1	13.1	13.1
77.5°	11.8	11.8	11.8	11.8
80°	10.5	10.5	11.8	11.8
82.5°	10.5	10.5	10.5	10.5
85°	9.1	9.1	10.5	10.5
87.5°	7.8	7.8	9.1	9.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)