

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: P181359

Luminaire Tested: **ICM-E05-LED-E1-T3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181359
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33724)
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-T3-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ HOUSE SIDE SHIELD
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7582.9 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): 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

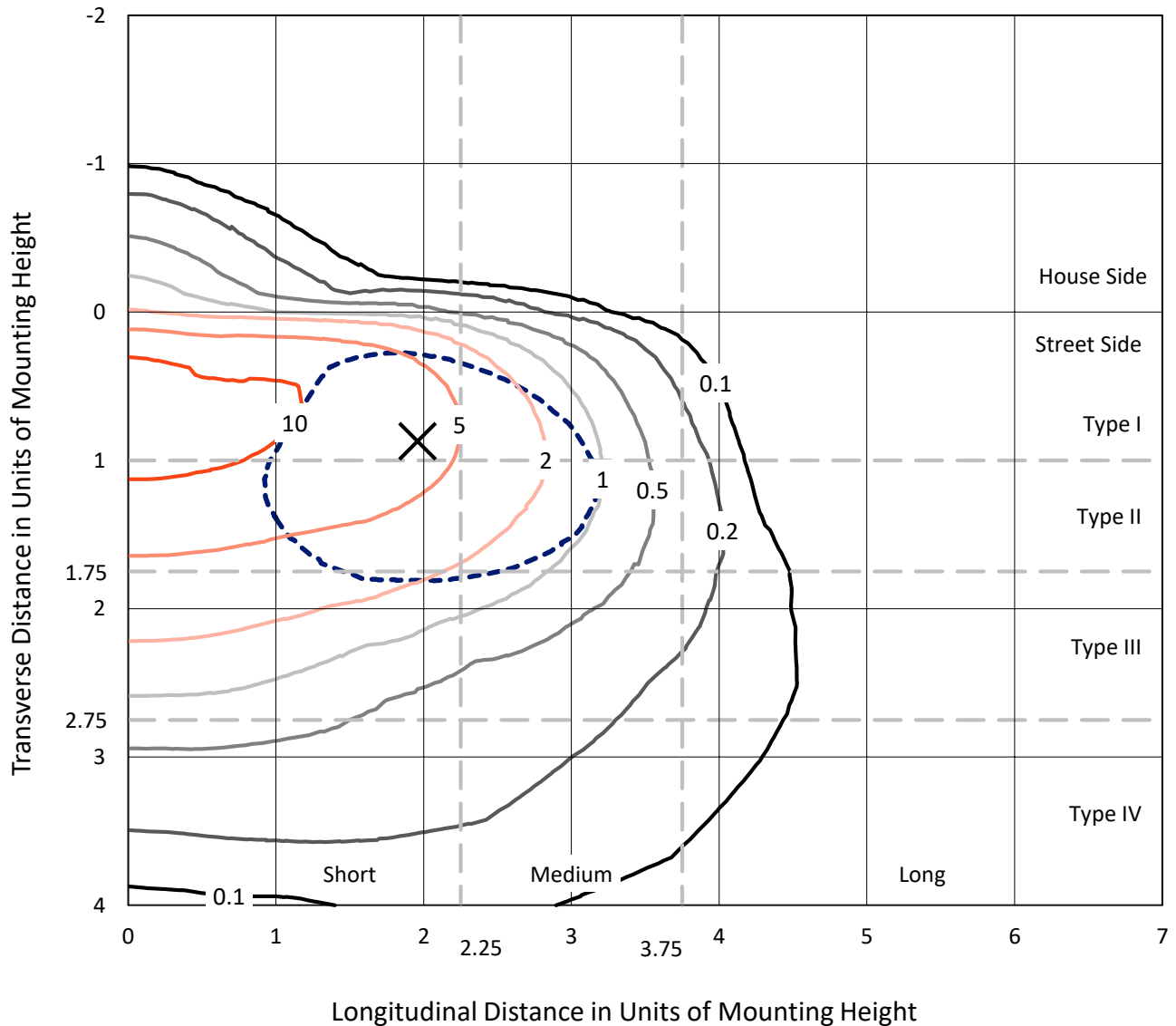


REPORT NUMBER: P181359

CATALOG NUMBER: ICM-E05-LED-E1-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

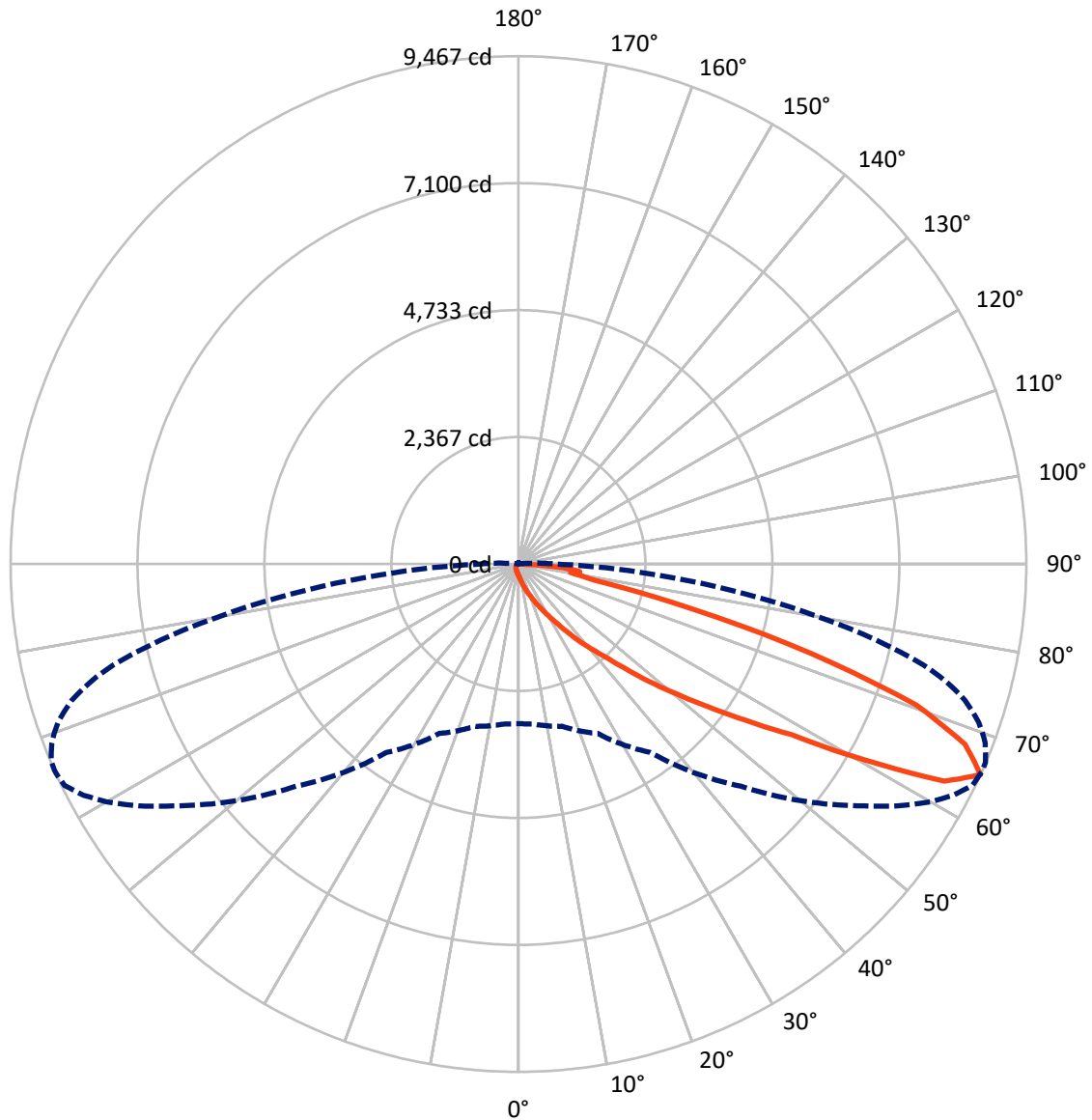


Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P181359

CATALOG NUMBER: ICM-E05-LED-E1-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P181359

CATALOG NUMBER: ICM-E05-LED-E1-T3-HSS

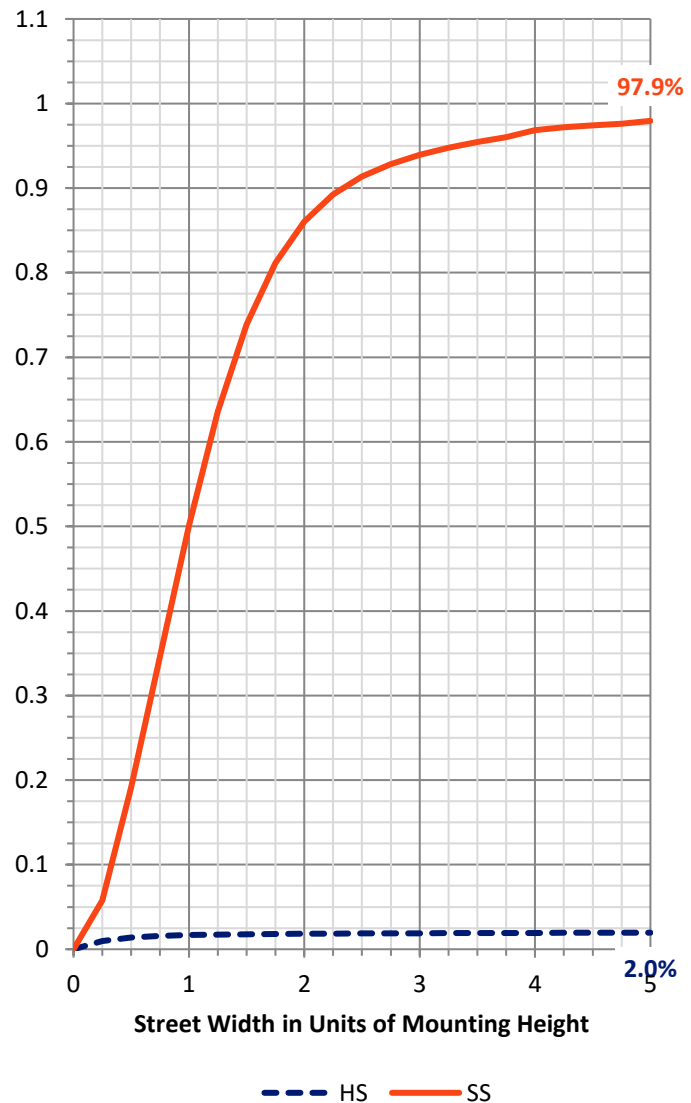
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	152.3	0.0	152.3
	% Fixture	2.0	0.0	2.0
Street Side	Lumens	7430.7	0.0	7430.7
	% Fixture	98.0	0.0	98.0
Total	Lumens	7582.9	0.0	7582.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	0.3
10°-20°	123.3	1.6
20°-30°	281.7	3.7
30°-40°	535.9	7.1
40°-50°	1075.5	14.2
50°-60°	1903.1	25.1
60°-70°	2486.5	32.8
70°-80°	1022.4	13.5
80°-90°	128.8	1.7
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°	7582.9	100.0
0°-180°	7582.9	100.0

Coefficient of Utilization



REPORT NUMBER: P181359

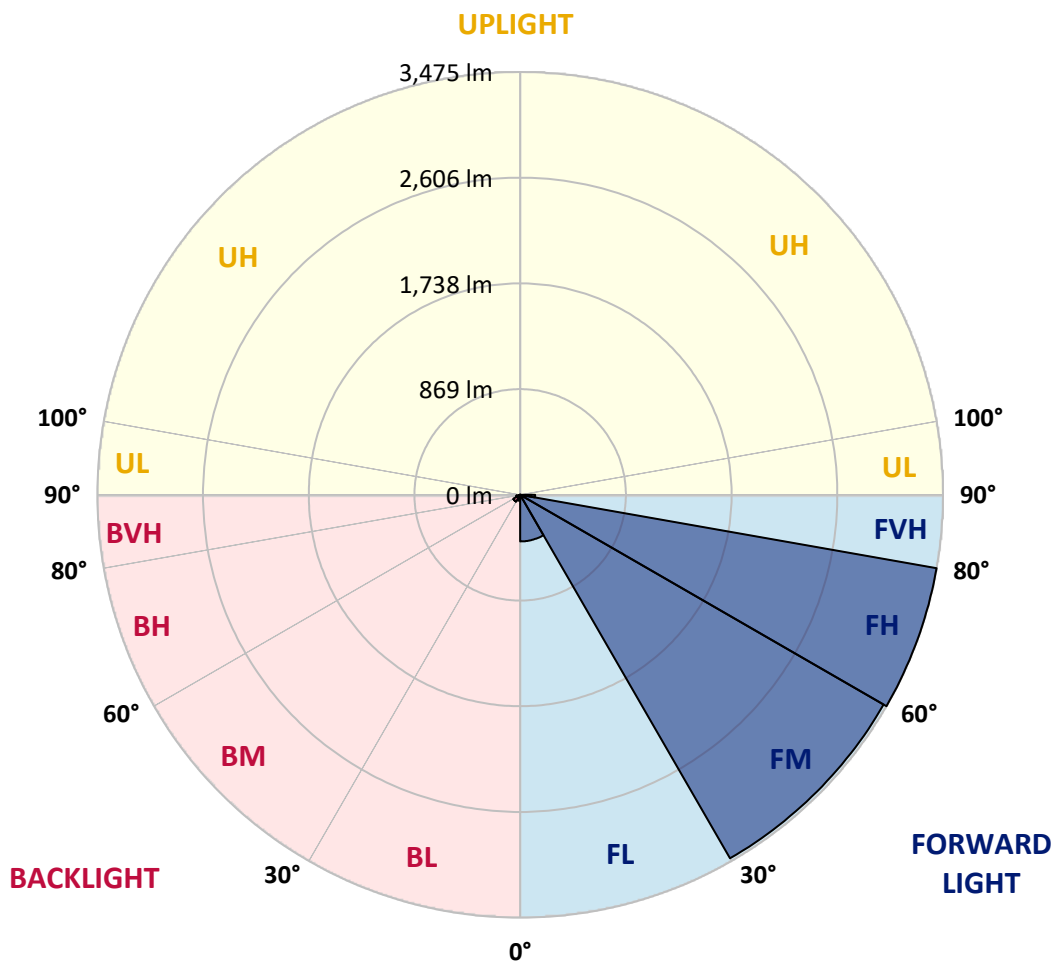
CATALOG NUMBER: ICM-E05-LED-E1-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	383.2	5.1			
FM	(30°-60°)	3449.3	45.5			
FH	(60°-80°)	3475.2	45.8			G2/5000
FVH	(80°-90°)	123.0	1.6			G2/225
BL	(0°-30°)	47.6	0.6	B0/110		
BM	(30°-60°)	65.2	0.9	B0/220		
BH	(60°-80°)	33.7	0.4	B0/110		G0/110
BVH	(80°-90°)	5.8	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 III Short





REPORT NUMBER: P181359

CATALOG NUMBER: ICM-E05-LED-E1-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9
2.5°	279.1	274.4	276.0	266.7	260.5	252.7	246.5	244.9	243.4	240.3	241.9
5°	401.6	396.9	386.0	367.4	350.4	324.0	297.7	296.1	291.4	286.8	283.7
7.5°	558.1	550.4	538.0	507.0	465.1	418.6	365.9	361.2	355.1	348.8	342.6
10°	739.5	734.9	711.6	676.0	612.4	536.5	448.1	443.4	429.5	421.7	415.5
12.5°	930.2	910.1	900.7	838.8	765.9	662.1	548.8	531.8	520.9	510.0	494.6
15°	1074.4	1077.5	1055.8	1006.2	920.9	800.0	658.9	640.3	624.8	604.7	586.1
17.5°	1204.7	1198.4	1175.2	1144.2	1063.5	941.1	776.7	751.9	727.2	716.3	690.0
20°	1310.1	1307.0	1288.4	1258.9	1196.9	1079.1	900.7	880.7	852.7	834.1	804.7
22.5°	1393.8	1393.8	1383.0	1365.9	1305.4	1210.9	1032.6	1010.9	983.0	959.7	927.2
25°	1460.5	1458.9	1460.5	1452.8	1412.4	1325.6	1167.4	1142.6	1119.4	1091.4	1060.5
27.5°	1536.5	1539.5	1536.5	1531.8	1514.7	1444.9	1303.9	1286.8	1260.5	1231.0	1200.0
30°	1654.2	1644.9	1643.5	1640.3	1620.2	1576.8	1444.9	1424.8	1404.7	1384.5	1362.8
32.5°	1778.3	1762.8	1758.2	1758.2	1744.2	1705.4	1607.7	1596.9	1567.5	1551.9	1533.3
35°	1919.4	1913.2	1907.0	1908.6	1902.3	1862.1	1781.4	1784.5	1775.2	1744.2	1725.6
37.5°	2125.6	2127.2	2116.3	2096.1	2096.1	2060.5	2014.0	2007.7	1984.5	1976.8	1965.9
40°	2420.2	2412.4	2403.1	2373.7	2362.8	2302.3	2258.9	2243.5	2224.9	2223.3	2210.9
42.5°	2761.2	2751.9	2751.9	2730.2	2708.6	2635.6	2553.5	2542.6	2522.5	2528.7	2524.0
45°	3077.5	3085.3	3096.1	3111.6	3114.7	3083.7	2964.4	2950.4	2939.6	2933.3	2928.7
47.5°	3350.4	3364.4	3400.0	3466.7	3551.9	3562.8	3468.2	3431.0	3423.3	3412.4	3403.1
50°	3545.8	3565.9	3646.5	3776.8	3942.6	4045.0	3993.8	3962.8	3961.2	3931.8	3928.7
52.5°	3657.4	3679.1	3810.9	4007.7	4265.1	4465.1	4528.7	4527.2	4524.0	4497.7	4486.8
55°	3682.2	3705.4	3863.6	4131.8	4499.3	4845.0	5088.4	5094.6	5108.6	5100.8	5100.8
57.5°	3614.0	3643.5	3815.6	4147.3	4621.7	5145.8	5677.5	5713.2	5730.3	5790.7	5860.5
60°	3488.4	3510.1	3682.2	4052.8	4643.5	5420.2	6443.5	6556.6	6645.0	6764.4	6877.5
62.5°	3255.8	3299.3	3463.6	3866.7	4578.4	5736.5	7358.2	7567.5	7739.6	7921.0	8139.6
65°	2973.7	2992.3	3131.8	3483.7	4286.8	5857.4	7863.6	8068.2	8288.4	8482.2	8677.5
67.5°	2620.2	2635.6	2756.6	2907.0	3538.0	5291.5	7365.9	7592.3	7790.7	7950.5	8206.3
70°	1716.3	1750.4	2046.5	2195.4	2472.9	3911.7	6023.3	6241.9	6393.8	6502.4	6798.5
72.5°	1257.4	1279.1	1398.4	1705.4	1773.7	2311.6	4238.8	4476.0	4531.8	4736.5	4874.4
75°	767.4	821.7	1091.4	1460.5	1728.7	1583.0	2539.6	2654.2	2783.0	2931.8	3063.6
77.5°	155.1	176.7	356.6	1006.2	1520.9	1691.5	1516.3	1538.0	1601.6	1615.5	1665.1
80°	24.8	26.3	46.5	434.1	880.7	1367.5	1516.3	1496.1	1460.5	1435.6	1410.9
82.5°	10.9	12.4	20.2	110.0	187.6	455.8	1311.6	1414.0	1531.8	1596.9	1614.0
85°	4.7	4.7	7.7	21.7	27.9	31.0	221.7	293.0	522.5	694.6	800.0
87.5°	3.1	3.1	4.7	4.7	6.2	7.7	10.9	10.9	12.4	14.0	20.2
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: P181359

CATALOG NUMBER: ICM-E05-LED-E1-T3-HSS

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9
2.5°	241.9	240.3	240.3	235.6	235.6	234.1	234.1	232.6	232.6	229.5	231.0
5°	282.1	279.1	276.0	271.4	269.8	266.7	263.5	258.9	257.4	254.2	252.7
7.5°	336.5	333.3	327.2	317.9	311.6	305.4	299.3	293.0	288.4	283.7	280.7
10°	403.1	393.8	390.7	372.1	364.4	351.9	344.2	338.0	328.7	320.9	316.3
12.5°	483.7	476.0	460.5	435.6	423.3	412.4	398.4	386.0	376.7	362.8	353.5
15°	567.4	561.2	539.5	511.6	496.1	476.0	462.0	449.6	429.5	420.2	403.1
17.5°	672.8	654.2	632.6	592.3	572.1	555.1	530.2	511.6	499.3	471.4	455.8
20°	781.4	761.2	733.3	688.4	660.5	634.1	614.0	589.1	562.8	544.2	517.9
22.5°	905.4	872.8	851.2	795.4	762.8	734.9	700.7	674.4	648.1	618.6	589.1
25°	1037.2	1004.7	978.3	914.7	880.7	852.7	812.4	775.2	742.6	710.1	676.0
27.5°	1175.2	1145.8	1116.3	1051.2	1021.7	983.0	945.8	902.3	860.5	831.0	784.5
30°	1334.9	1310.1	1277.5	1207.7	1175.2	1134.9	1096.1	1044.9	1004.7	964.4	919.4
32.5°	1507.0	1486.8	1452.8	1390.7	1351.9	1317.9	1276.0	1226.3	1169.0	1127.2	1074.4
35°	1716.3	1682.1	1662.1	1603.1	1573.7	1536.5	1493.0	1449.6	1389.1	1330.2	1285.3
37.5°	1955.1	1939.5	1913.2	1857.4	1835.6	1796.9	1769.0	1725.6	1679.1	1604.7	1556.6
40°	2200.0	2189.1	2165.9	2110.1	2088.4	2062.1	2029.5	1987.6	1931.8	1893.0	1821.7
42.5°	2511.6	2494.6	2476.0	2423.3	2381.4	2348.9	2334.9	2299.3	2240.3	2190.7	2134.9
45°	2907.0	2899.3	2874.4	2821.7	2779.8	2758.2	2736.5	2676.0	2637.2	2587.6	2548.9
47.5°	3384.5	3359.7	3347.3	3288.4	3274.4	3257.4	3201.6	3167.5	3111.6	3072.9	3024.9
50°	3900.8	3874.4	3876.0	3804.7	3807.7	3795.4	3753.5	3713.2	3665.1	3631.0	3601.6
52.5°	4455.8	4468.2	4437.2	4458.9	4434.2	4406.3	4398.4	4348.9	4307.0	4305.4	4265.1
55°	5138.0	5117.9	5125.6	5147.3	5113.2	5144.2	5128.7	5065.1	5066.7	5079.1	5032.6
57.5°	5871.4	5900.8	5964.4	5978.4	6037.2	5997.0	6102.4	6026.4	6072.9	6072.9	6041.9
60°	6947.3	7065.2	7218.6	7338.0	7448.1	7412.4	7550.5	7463.6	7525.6	7472.9	7446.6
62.5°	8243.5	8400.1	8581.4	8775.2	8886.8	8914.8	8894.7	8933.4	8872.9	8834.2	8733.4
65°	8866.8	9021.7	9179.9	9412.4	9443.5	9466.8	9457.5	9392.3	9317.9	9207.8	9076.1
67.5°	8348.9	8565.9	8654.3	8922.6	9012.4	8979.9	8990.8	8907.0	8790.8	8682.2	8488.4
70°	6922.6	7170.6	7217.1	7601.6	7708.6	7863.6	7807.8	7783.0	7655.9	7564.4	7350.5
72.5°	5040.3	5234.2	5218.6	5651.2	5632.6	5696.1	5846.5	5840.3	5707.0	5677.5	5497.7
75°	3102.3	3218.6	3212.4	3519.4	3390.7	3372.1	3414.0	3395.4	3269.8	3139.6	3027.9
77.5°	1643.5	1696.1	1640.3	1548.8	1539.5	1435.6	1406.2	1404.7	1308.6	1190.7	1103.9
80°	1384.5	1330.2	1265.1	1131.8	1054.2	984.5	919.4	858.9	793.8	707.0	601.6
82.5°	1617.0	1590.7	1544.2	1376.8	1296.1	1156.6	1052.8	955.1	835.6	745.8	610.9
85°	787.6	786.1	823.3	806.2	776.7	770.5	668.2	646.5	598.4	548.8	458.9
87.5°	21.7	15.5	18.6	15.5	18.6	20.2	14.0	32.6	20.2	18.6	21.7
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: P181359

CATALOG NUMBER: ICM-E05-LED-E1-T3-HSS

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9
2.5°	229.5	227.9	226.3	226.3	224.8	224.8	223.3	221.7	221.7	220.2	220.2
5°	249.6	246.5	244.9	243.4	240.3	238.8	235.6	234.1	231.0	229.5	226.3
7.5°	274.4	271.4	265.1	262.0	257.4	255.8	248.1	244.9	241.9	238.8	234.1
10°	305.4	297.7	291.4	285.3	277.5	271.4	265.1	260.5	254.2	246.5	243.4
12.5°	344.2	333.3	324.0	313.2	303.9	294.6	283.7	276.0	266.7	258.9	251.2
15°	387.6	372.1	359.7	344.2	328.7	317.9	307.0	296.1	283.7	272.8	263.5
17.5°	437.2	417.0	400.0	381.4	364.4	348.8	330.2	316.3	302.3	286.8	274.4
20°	490.0	469.8	446.5	426.3	401.6	384.5	361.2	342.6	322.5	307.0	290.0
22.5°	559.7	533.3	503.9	476.0	449.6	423.3	398.4	375.2	350.4	327.2	310.0
25°	641.9	609.3	572.1	544.2	507.0	477.5	446.5	417.0	390.7	361.2	333.3
27.5°	744.2	700.7	660.5	621.7	581.4	544.2	503.9	469.8	434.1	400.0	369.0
30°	863.5	821.7	761.2	717.9	677.5	626.3	586.1	541.1	500.7	451.2	417.0
32.5°	1021.7	967.4	903.9	846.5	793.8	736.5	680.7	623.3	570.5	525.6	474.4
35°	1227.9	1164.4	1088.4	1015.5	956.6	886.8	815.5	750.4	690.0	624.8	561.2
37.5°	1488.4	1429.5	1347.3	1258.9	1179.8	1096.1	1021.7	930.2	849.6	770.5	690.0
40°	1747.3	1693.0	1607.7	1513.2	1410.9	1314.7	1220.2	1116.3	1014.0	914.7	831.0
42.5°	2066.7	1986.1	1894.6	1787.6	1688.4	1573.7	1455.8	1336.5	1214.0	1094.6	975.2
45°	2468.2	2406.2	2277.5	2162.8	2044.9	1910.1	1764.4	1627.9	1471.4	1330.2	1172.1
47.5°	2956.6	2844.9	2750.4	2644.9	2497.7	2367.5	2181.4	2020.2	1824.8	1637.2	1448.1
50°	3533.3	3471.4	3345.8	3214.0	3054.3	2899.3	2717.9	2485.3	2251.2	2051.2	1792.3
52.5°	4207.7	4119.4	4040.3	3903.9	3741.1	3542.6	3336.5	3083.7	2796.9	2514.7	2238.8
55°	5007.8	4945.8	4869.8	4761.2	4553.5	4328.7	4080.7	3778.3	3438.8	3058.9	2738.0
57.5°	6040.3	5975.2	5902.4	5679.1	5538.0	5262.1	4902.4	4589.1	4223.3	3736.5	3338.0
60°	7449.6	7361.3	7258.9	7077.5	6783.0	6424.9	6038.8	5575.2	5127.2	4595.4	4072.9
62.5°	8654.3	8513.3	8294.7	8060.5	7707.0	7296.1	6810.9	6265.2	5755.1	5156.6	4575.2
65°	8902.4	8708.6	8451.2	8145.8	7781.4	7317.9	6810.9	6288.4	5688.4	5125.6	4541.1
67.5°	8257.4	8032.6	7769.1	7428.0	7080.7	6603.1	6165.9	5634.2	5069.8	4583.0	4060.5
70°	7197.0	6863.6	6593.8	6231.0	5879.1	5503.9	5043.5	4645.0	4186.1	3738.0	3338.0
72.5°	5404.7	5076.0	4831.0	4541.1	4331.8	3934.9	3597.0	3299.3	3027.9	2693.0	2396.9
75°	2913.2	2666.7	2502.3	2370.5	2183.0	1920.9	1759.7	1555.1	1440.3	1300.8	1165.9
77.5°	950.4	837.2	714.7	595.4	511.6	384.5	372.1	296.1	279.1	271.4	209.3
80°	486.8	375.2	271.4	195.4	148.8	131.8	125.6	119.3	113.2	108.6	100.7
82.5°	488.4	353.5	243.4	169.0	122.5	102.3	96.1	93.0	88.4	83.7	77.5
85°	356.6	263.5	181.4	124.0	85.3	68.2	65.1	60.5	57.4	55.8	49.6
87.5°	23.3	17.0	15.5	14.0	14.0	14.0	15.5	14.0	15.5	15.5	14.0
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: P181359

CATALOG NUMBER: ICM-E05-LED-E1-T3-HSS

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9	210.9
2.5°	218.6	217.0	217.0	215.5	214.0	214.0	212.4	212.4	207.7	200.0	193.8
5°	224.8	221.7	220.2	218.6	217.0	214.0	212.4	210.9	203.1	187.6	175.2
7.5°	229.5	226.3	224.8	221.7	217.0	215.5	212.4	209.3	196.9	175.2	161.2
10°	237.2	232.6	227.9	223.3	218.6	215.5	210.9	207.7	189.1	164.4	150.4
12.5°	244.9	238.8	232.6	224.8	220.2	215.5	210.9	204.7	183.0	155.1	139.5
15°	254.2	244.9	237.2	229.5	221.7	215.5	207.7	203.1	176.7	147.3	133.3
17.5°	263.5	252.7	241.9	231.0	223.3	214.0	207.7	200.0	170.5	141.1	125.6
20°	274.4	258.9	248.1	235.6	224.8	214.0	204.7	196.9	164.4	133.3	117.9
22.5°	290.0	271.4	254.2	240.3	226.3	215.5	204.7	193.8	158.1	127.2	111.6
25°	310.0	286.8	266.7	249.6	232.6	218.6	206.2	195.4	153.5	122.5	103.9
27.5°	339.5	310.0	288.4	265.1	243.4	226.3	210.9	198.4	150.4	117.9	99.3
30°	375.2	345.8	311.6	283.7	260.5	237.2	220.2	201.6	147.3	113.2	93.0
32.5°	427.9	386.0	345.8	311.6	279.1	252.7	227.9	209.3	145.8	105.4	86.8
35°	503.9	446.5	398.4	353.5	308.6	276.0	246.5	221.7	144.2	99.3	80.7
37.5°	612.4	544.2	482.1	418.6	362.8	316.3	276.0	243.4	144.2	94.6	74.4
40°	728.7	640.3	561.2	482.1	410.9	351.9	297.7	257.4	141.1	88.4	68.2
42.5°	860.5	751.9	643.4	545.8	457.4	381.4	317.9	268.2	133.3	82.1	62.0
45°	1037.2	894.6	764.4	638.8	524.0	424.8	344.2	280.7	125.6	77.5	55.8
47.5°	1258.9	1093.0	924.0	765.9	615.5	490.0	383.0	300.7	120.9	71.3	51.2
50°	1589.1	1353.5	1130.2	928.7	738.0	573.7	440.3	330.2	116.3	66.7	46.5
52.5°	1951.9	1662.1	1400.0	1141.1	903.9	686.8	507.0	369.0	111.6	62.0	41.9
55°	2393.8	2037.2	1717.9	1381.4	1077.5	818.6	589.1	412.4	105.4	57.4	38.8
57.5°	2939.6	2488.4	2110.1	1699.3	1317.9	989.1	699.3	485.3	99.3	51.2	34.1
60°	3548.9	3038.8	2562.8	2080.7	1618.6	1215.5	862.1	589.1	93.0	44.9	29.5
62.5°	3987.7	3427.9	2883.7	2342.6	1835.6	1384.5	993.8	669.8	83.7	38.8	26.3
65°	3983.0	3415.6	2868.2	2334.9	1841.9	1390.7	998.4	685.3	74.4	34.1	23.3
67.5°	3548.9	3071.4	2583.0	2103.9	1672.8	1265.1	924.0	635.6	63.5	31.0	20.2
70°	2919.4	2539.6	2153.5	1773.7	1427.9	1083.7	798.4	553.5	54.2	27.9	17.0
72.5°	2131.8	1854.2	1618.6	1350.4	1114.7	855.8	637.2	434.1	43.4	23.3	15.5
75°	1058.9	947.3	812.4	728.7	621.7	508.6	395.4	252.7	35.6	18.6	14.0
77.5°	201.6	179.8	172.1	148.8	136.5	120.9	107.0	76.0	27.9	14.0	12.4
80°	93.0	85.3	77.5	69.8	62.0	52.7	46.5	40.3	21.7	10.9	14.0
82.5°	72.8	66.7	58.9	52.7	46.5	40.3	34.1	29.5	14.0	9.3	14.0
85°	48.1	41.9	37.2	32.6	27.9	24.8	21.7	18.6	9.3	9.3	9.3
87.5°	14.0	14.0	12.4	12.4	10.9	10.9	9.3	9.3	7.7	7.7	7.7
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: P181359

CATALOG NUMBER: ICM-E05-LED-E1-T3-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	210.9	210.9	210.9	210.9	210.9	210.9	210.9
2.5°	187.6	179.8	176.7	175.2	175.2	176.7	175.2
5°	165.9	158.1	155.1	151.9	151.9	151.9	153.5
7.5°	151.9	144.2	139.5	138.0	136.5	138.0	138.0
10°	139.5	133.3	127.2	124.0	124.0	124.0	124.0
12.5°	130.2	122.5	116.3	114.7	113.2	113.2	113.2
15°	122.5	113.2	108.6	105.4	103.9	103.9	105.4
17.5°	113.2	105.4	99.3	97.7	97.7	97.7	97.7
20°	107.0	97.7	93.0	90.0	90.0	90.0	90.0
22.5°	99.3	91.4	85.3	82.1	82.1	82.1	82.1
25°	93.0	85.3	79.1	76.0	76.0	76.0	76.0
27.5°	86.8	79.1	72.8	69.8	69.8	69.8	69.8
30°	80.7	72.8	66.7	63.5	63.5	63.5	63.5
32.5°	76.0	66.7	60.5	57.4	57.4	58.9	57.4
35°	68.2	60.5	54.2	51.2	51.2	51.2	51.2
37.5°	62.0	54.2	48.1	44.9	44.9	44.9	43.4
40°	57.4	48.1	41.9	38.8	37.2	37.2	37.2
42.5°	49.6	40.3	35.6	32.6	31.0	31.0	31.0
45°	44.9	35.6	29.5	26.3	26.3	26.3	26.3
47.5°	40.3	31.0	24.8	21.7	21.7	23.3	23.3
50°	35.6	26.3	20.2	20.2	20.2	21.7	21.7
52.5°	31.0	23.3	18.6	18.6	20.2	21.7	21.7
55°	27.9	20.2	17.0	18.6	20.2	21.7	21.7
57.5°	24.8	17.0	17.0	18.6	20.2	21.7	21.7
60°	21.7	15.5	15.5	17.0	20.2	21.7	21.7
62.5°	18.6	15.5	15.5	17.0	20.2	21.7	21.7
65°	17.0	15.5	15.5	17.0	20.2	21.7	21.7
67.5°	15.5	14.0	15.5	17.0	18.6	20.2	20.2
70°	14.0	14.0	15.5	17.0	18.6	20.2	20.2
72.5°	14.0	14.0	14.0	15.5	17.0	18.6	18.6
75°	14.0	14.0	14.0	15.5	17.0	18.6	18.6
77.5°	14.0	12.4	12.4	14.0	17.0	18.6	18.6
80°	14.0	12.4	12.4	14.0	15.5	18.6	18.6
82.5°	10.9	10.9	12.4	14.0	15.5	17.0	17.0
85°	9.3	10.9	10.9	12.4	14.0	17.0	17.0
87.5°	7.7	7.7	9.3	10.9	12.4	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)