

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: P141859

Luminaire Tested: **ECM-E01-LED-E1-T3-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141859
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33683)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E01-LED-E1-T3-7030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2681.8 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

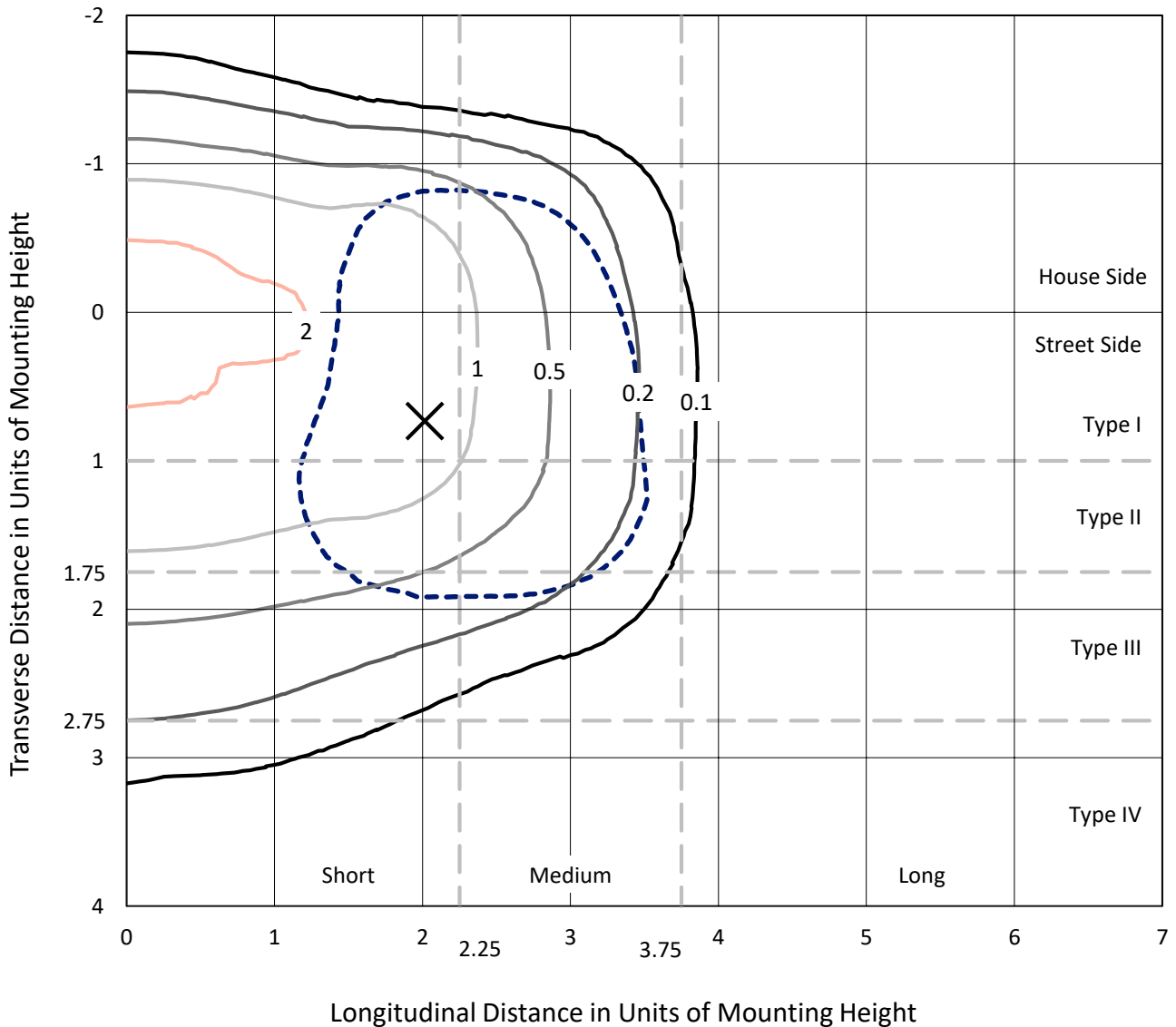
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

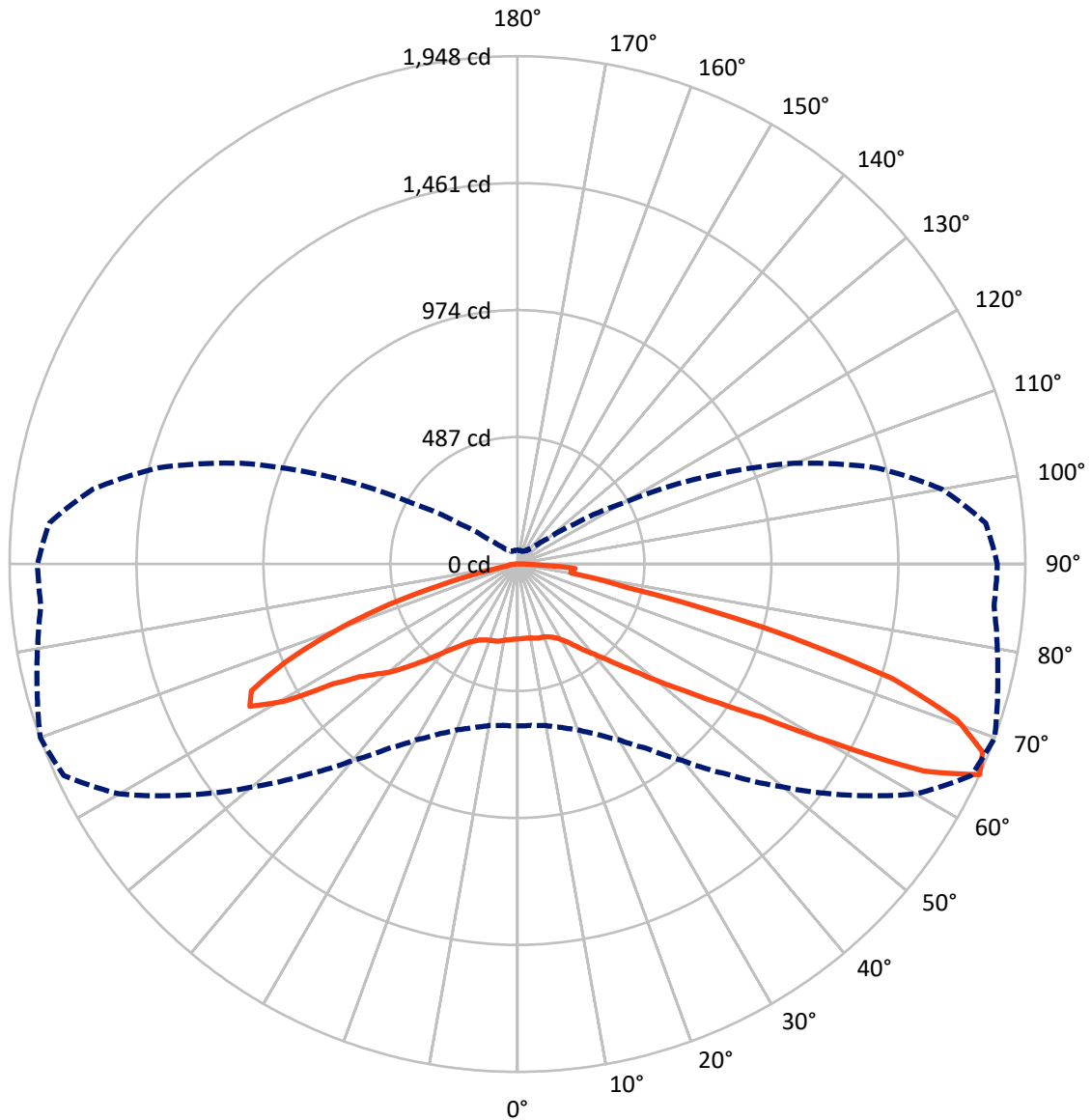


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	905.3	0.0	905.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	1776.5	0.0	1776.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	2681.8	0.0	2681.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.7	1.0
10°-20°	81.9	3.1
20°-30°	140.9	5.3
30°-40°	225.8	8.4
40°-50°	369.7	13.8
50°-60°	578.7	21.6
60°-70°	813.2	30.3
70°-80°	384.8	14.4
80°-90°	59.1	2.2
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°	2681.8	100.0
0°-180°	2681.8	100.0

Coefficient of Utilization



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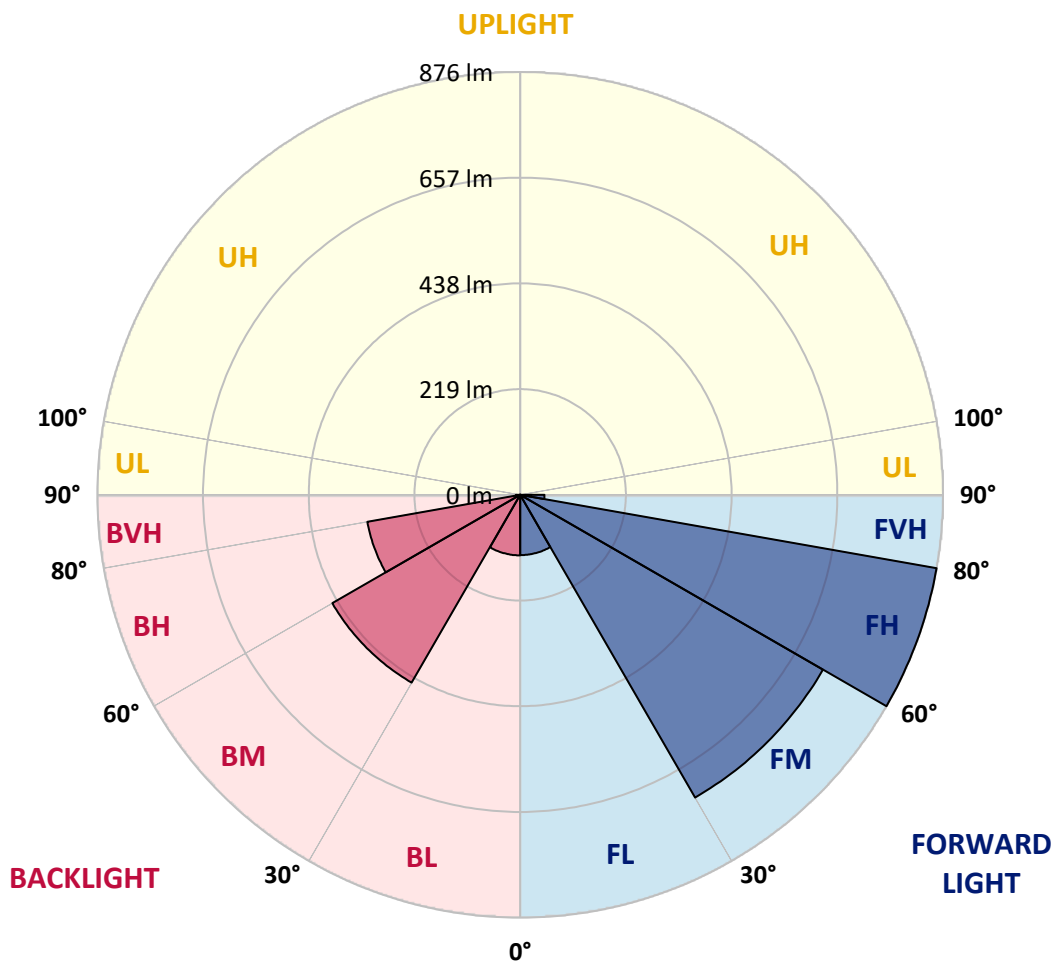
CATALOG NUMBER: ECM-E01-LED-E1-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	124.9	4.7			
FM (30°-60°)	724.7	27.0			
FH (60°-80°)	876.5	32.7			G1/1800
FVH (80°-90°)	50.4	1.9			G1/100
BL (0°-30°)	125.5	4.7	B1/500		
BM (30°-60°)	449.5	16.8	B1/1000		
BH (60°-80°)	321.6	12.0	B1/500		G1/500
BVH (80°-90°)	8.7	0.3			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4
2.5°	285.9	286.2	286.2	285.6	285.6	285.9	285.9	286.2	286.2	286.2	286.5
5°	285.9	286.2	286.2	285.9	285.6	286.2	285.9	286.2	286.2	286.2	286.2
7.5°	285.3	285.6	285.6	285.3	285.6	285.9	285.9	286.5	286.8	286.8	287.1
10°	282.2	282.5	282.8	282.8	283.4	284.4	284.7	285.9	286.2	287.1	287.7
12.5°	276.7	276.7	277.4	278.0	278.9	280.7	281.6	283.4	285.0	286.2	288.3
15°	271.9	271.9	272.5	272.8	274.6	275.8	277.7	279.8	282.5	285.0	288.3
17.5°	274.3	274.3	274.0	273.7	274.0	274.0	275.5	277.7	280.1	283.4	287.7
20°	283.7	283.4	282.2	281.6	281.3	280.1	279.2	278.9	280.1	282.5	286.8
22.5°	292.0	291.4	291.1	290.4	291.4	290.7	289.5	288.0	286.2	285.3	287.7
25°	296.8	297.1	297.1	297.1	299.0	299.6	300.2	298.4	296.2	293.2	293.5
27.5°	303.5	303.8	303.2	304.5	306.6	308.1	309.6	310.8	309.6	307.8	305.7
30°	317.8	317.8	316.9	317.8	319.7	321.2	323.3	325.5	325.5	323.6	321.5
32.5°	332.8	333.1	333.1	333.7	336.4	337.6	340.7	342.8	344.3	343.1	344.3
35°	350.7	350.4	351.3	351.6	355.9	357.4	363.5	365.0	367.5	368.1	369.0
37.5°	380.6	381.2	379.3	378.1	381.8	381.8	389.7	394.0	393.3	397.6	400.7
40°	428.7	425.9	425.0	424.4	426.5	426.2	425.9	431.7	434.5	435.1	436.6
42.5°	481.9	482.9	481.9	484.1	484.1	482.6	481.3	480.4	485.6	488.9	489.6
45°	544.4	545.6	543.7	542.2	546.2	548.3	548.3	550.8	555.0	556.5	555.6
47.5°	594.3	597.6	596.1	598.2	604.6	611.9	621.7	628.1	632.6	636.9	643.6
50°	639.3	640.9	644.5	651.5	661.0	672.5	688.4	704.2	713.3	724.0	731.9
52.5°	666.7	671.3	676.8	688.4	704.2	720.3	744.7	770.6	793.7	805.6	815.0
55°	683.2	686.5	693.8	709.7	731.9	755.9	786.4	822.0	852.8	878.9	899.3
57.5°	682.6	685.3	695.4	712.7	739.2	769.3	807.4	851.9	897.2	940.8	979.1
60°	669.5	671.9	682.0	700.5	729.5	765.4	811.1	865.6	927.1	992.5	1059.8
62.5°	649.4	651.2	660.0	678.6	707.8	746.2	799.8	871.3	958.7	1061.9	1192.5
65°	621.1	621.1	629.3	648.5	676.5	719.4	778.5	862.5	983.4	1140.5	1330.4
67.5°	579.4	579.4	586.1	601.9	623.8	653.7	712.7	800.1	927.7	1115.8	1338.1
70°	500.5	501.7	501.7	511.5	521.2	534.6	562.6	629.6	749.3	933.1	1151.7
72.5°	366.9	344.6	362.0	377.8	388.8	396.1	412.2	433.2	493.5	631.4	829.3
75°	231.1	236.9	250.0	267.9	295.0	323.0	353.8	366.9	361.4	377.8	510.9
77.5°	140.0	135.2	148.0	174.8	205.2	243.3	300.8	350.7	379.3	377.5	361.7
80°	60.6	59.1	67.6	80.4	95.3	129.7	182.4	250.9	327.0	371.1	364.4
82.5°	21.6	21.9	27.7	32.9	39.6	50.8	72.2	115.4	183.0	260.6	322.1
85°	6.4	7.0	9.7	13.7	15.5	17.7	24.4	36.2	61.8	98.6	175.4
87.5°	1.8	2.1	2.7	4.9	4.6	4.3	4.9	7.6	5.8	4.9	24.4
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4
2.5°	286.2	286.2	286.2	286.5	286.2	286.2	286.5	286.5	286.8	287.1	287.7
5°	285.9	285.9	286.2	286.2	286.2	286.5	286.8	287.1	287.7	288.6	289.5
7.5°	286.8	286.8	286.5	286.8	286.8	287.1	287.7	288.0	289.2	290.1	291.7
10°	287.7	287.7	288.0	288.3	288.3	288.9	289.8	290.1	291.4	293.2	294.7
12.5°	288.9	289.8	291.1	291.7	292.3	292.9	293.8	294.4	295.9	298.4	300.2
15°	289.8	292.0	293.2	294.7	295.6	295.9	296.8	298.1	299.6	302.0	304.1
17.5°	289.8	292.6	294.4	295.9	297.4	298.4	299.3	300.5	302.6	305.1	307.2
20°	289.5	293.5	295.9	298.4	301.1	302.0	303.5	304.8	307.2	310.2	311.8
22.5°	291.1	295.6	299.0	303.2	306.3	308.7	310.5	312.7	314.5	316.6	317.2
25°	295.6	300.2	305.7	310.8	315.1	318.8	321.2	323.0	325.2	326.1	324.8
27.5°	303.2	306.6	314.2	321.8	328.5	333.1	335.8	338.2	338.9	340.7	336.1
30°	316.9	318.5	326.4	337.3	344.9	352.6	356.2	358.6	358.9	357.7	349.8
32.5°	339.5	336.7	343.7	358.3	369.9	376.3	382.1	383.6	382.7	378.7	365.9
35°	366.9	362.6	365.9	387.3	400.0	409.5	415.0	416.5	414.4	407.4	389.7
37.5°	400.7	399.1	400.7	421.1	443.3	452.1	454.5	456.4	451.2	438.4	415.3
40°	438.1	438.4	436.6	455.2	483.2	495.9	501.7	497.8	491.4	473.1	447.5
42.5°	489.9	488.0	481.6	498.4	534.3	547.4	552.6	549.5	543.1	520.0	490.2
45°	558.4	552.3	546.2	555.0	589.7	606.8	614.4	612.2	601.0	573.0	545.0
47.5°	642.1	635.7	624.4	622.9	657.9	678.0	680.8	677.4	668.9	640.9	606.5
50°	730.1	728.2	723.1	710.9	742.2	762.3	760.5	758.1	748.6	713.0	677.7
52.5°	821.1	824.8	821.4	812.9	846.4	854.6	855.2	847.9	836.9	804.1	755.9
55°	916.7	930.4	935.6	942.3	968.8	967.5	960.5	943.2	945.9	908.5	841.8
57.5°	1018.1	1060.1	1093.3	1108.2	1133.5	1140.8	1123.1	1128.9	1126.5	1087.8	982.8
60°	1151.7	1252.2	1338.7	1391.9	1426.0	1413.0	1437.6	1438.8	1480.5	1395.6	1231.8
62.5°	1364.8	1549.3	1702.8	1748.8	1757.6	1754.5	1725.3	1754.5	1746.6	1643.1	1430.9
65°	1544.2	1763.7	1919.6	1947.6	1906.5	1868.7	1834.6	1840.4	1802.6	1652.9	1425.1
67.5°	1568.5	1787.1	1931.7	1923.8	1834.0	1764.0	1707.4	1662.9	1585.9	1450.4	1251.9
70°	1375.8	1607.5	1793.8	1787.7	1662.9	1569.4	1477.5	1410.5	1332.0	1227.2	1039.4
72.5°	1070.1	1276.6	1457.1	1504.0	1381.0	1277.8	1193.4	1108.2	1027.2	927.7	809.2
75°	728.5	883.8	967.8	980.6	868.0	790.7	758.1	688.4	602.5	581.2	493.5
77.5°	423.2	482.9	457.3	423.2	340.7	250.3	191.2	163.5	164.1	188.5	180.5
80°	344.0	327.6	258.5	207.3	141.0	71.9	48.1	41.4	41.7	48.4	46.9
82.5°	354.7	364.1	299.3	209.5	144.3	76.1	36.5	27.1	31.7	34.4	33.8
85°	262.7	344.3	308.7	222.2	155.0	81.0	23.7	14.9	21.0	25.6	27.4
87.5°	73.7	115.7	89.8	59.4	43.2	14.6	9.4	7.9	9.7	13.4	13.4
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4	287.4
2.5°	288.0	289.2	288.9	289.5	289.8	290.7	291.4	291.1	291.1	291.7	292.3
5°	290.4	292.0	292.0	292.9	293.8	295.0	295.9	295.3	295.6	296.2	296.8
7.5°	292.9	294.7	295.0	295.9	296.5	297.1	297.8	296.8	296.5	296.5	296.2
10°	295.9	297.8	297.4	297.4	297.1	296.5	295.3	293.2	291.7	290.7	290.1
12.5°	301.1	302.3	300.5	298.7	295.6	293.5	290.7	288.3	286.5	285.0	284.4
15°	305.7	305.1	302.9	299.6	295.3	292.0	289.2	285.9	283.7	281.9	281.0
17.5°	308.1	306.0	302.9	299.9	296.2	293.2	289.8	285.9	282.5	280.1	278.9
20°	310.5	307.2	303.2	300.2	297.4	295.0	292.6	287.7	283.4	279.8	278.0
22.5°	314.2	309.6	305.7	302.9	300.2	297.8	295.3	290.7	286.2	281.3	278.6
25°	319.4	313.3	310.5	307.8	304.8	302.3	299.0	294.7	289.8	284.1	280.1
27.5°	327.6	322.1	319.1	316.3	312.7	308.7	305.1	299.3	294.7	288.0	282.8
30°	339.5	333.7	330.9	328.2	323.9	318.8	313.6	306.3	299.9	292.3	285.6
32.5°	354.4	351.3	348.0	343.4	337.6	331.2	323.6	313.9	304.8	295.3	286.8
35°	377.5	372.3	366.9	362.3	353.8	344.9	333.4	319.1	306.9	295.3	285.0
37.5°	404.0	398.5	391.2	383.0	370.2	356.2	340.1	322.1	306.0	292.0	280.4
40°	436.0	429.0	419.2	403.7	384.8	363.8	342.2	319.7	300.8	284.7	271.3
42.5°	478.3	464.0	445.1	422.3	395.5	366.9	339.5	313.3	292.0	274.3	260.9
45°	526.1	503.3	472.8	438.7	401.6	365.6	333.4	302.9	278.9	259.4	245.4
47.5°	577.5	541.9	497.2	449.1	402.2	358.9	321.5	287.4	260.3	239.6	222.2
50°	635.7	576.9	514.2	454.2	398.2	347.1	304.5	265.2	237.2	212.5	196.7
52.5°	685.6	607.7	526.1	452.1	384.2	326.4	276.4	238.4	205.5	183.6	168.1
55°	744.7	637.5	532.5	441.5	361.7	294.1	246.3	204.0	172.9	153.4	140.0
57.5°	844.2	688.1	538.0	419.8	324.5	253.6	204.6	165.0	140.7	123.6	114.2
60°	1036.3	786.1	560.5	387.6	277.4	204.9	158.0	129.1	108.1	96.8	90.1
62.5°	1162.1	852.8	550.4	337.9	216.8	153.4	115.7	93.2	81.0	72.8	69.7
65°	1130.1	785.5	467.0	267.9	151.0	102.0	77.6	63.9	58.5	54.2	52.4
67.5°	970.6	633.6	338.5	173.2	95.6	62.1	50.8	45.4	42.9	41.1	40.8
70°	773.3	446.6	201.2	91.9	53.0	41.1	36.2	34.1	33.2	33.2	33.2
72.5°	561.1	257.3	98.9	49.6	35.6	31.4	29.2	28.6	28.3	28.3	28.6
75°	320.6	111.4	50.8	34.1	29.2	27.1	25.9	25.9	25.9	25.9	26.2
77.5°	111.7	50.8	35.9	28.6	25.3	24.1	23.4	24.1	24.4	24.4	24.4
80°	40.8	35.9	30.7	25.0	22.5	21.3	21.3	22.2	22.8	22.2	21.9
82.5°	32.3	28.3	25.0	21.6	19.8	19.2	19.5	20.1	19.8	19.5	18.6
85°	24.7	18.6	17.4	16.1	15.8	15.8	17.0	17.4	16.1	15.5	14.6
87.5°	12.2	9.7	8.8	10.4	10.0	9.1	9.4	9.4	7.9	7.3	7.6
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: P141859

CATALOG NUMBER: ECM-E01-LED-E1-T3-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	287.4	287.4	287.4	287.4
2.5°	292.3	292.6	293.5	293.2
5°	296.5	296.8	297.4	297.4
7.5°	295.6	295.9	295.9	295.9
10°	288.6	288.6	289.2	289.2
12.5°	283.1	282.8	282.8	282.2
15°	279.8	279.2	279.5	278.6
17.5°	277.4	277.0	277.0	276.4
20°	276.4	275.8	275.5	274.9
22.5°	275.8	275.5	274.9	274.3
25°	277.4	275.8	275.5	274.9
27.5°	278.9	277.4	276.1	275.8
30°	280.4	277.7	276.1	275.5
32.5°	280.1	276.4	274.3	273.4
35°	276.7	272.2	269.4	268.5
37.5°	270.4	265.2	260.9	259.4
40°	261.2	254.5	250.6	248.4
42.5°	250.3	242.6	239.3	237.5
45°	232.3	226.2	222.2	220.7
47.5°	212.2	204.0	200.3	198.8
50°	186.3	179.6	176.6	174.4
52.5°	158.9	152.8	150.1	148.9
55°	132.4	129.4	125.1	124.2
57.5°	107.5	106.6	103.5	103.2
60°	87.4	85.9	83.7	83.7
62.5°	68.8	67.3	66.4	66.4
65°	53.0	52.7	52.1	51.8
67.5°	40.8	41.7	42.0	41.4
70°	34.1	34.4	34.4	34.4
72.5°	29.5	29.5	29.5	29.2
75°	26.8	26.8	26.2	25.9
77.5°	24.7	24.4	24.7	24.4
80°	21.6	21.3	20.7	20.1
82.5°	18.0	17.7	16.1	16.1
85°	14.0	13.1	11.9	10.7
87.5°	7.9	7.0	5.2	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)