

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: P160027

Luminaire Tested: **ENT-E02-LED-E1-SLR-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P160027
REPORT IS FROM IESNA LM-79-08 TEST DATA - UPLIGHT (P20107) AND DOWNLIGHT
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-E02-LED-E1-SLR-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5184.7 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 54.9
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

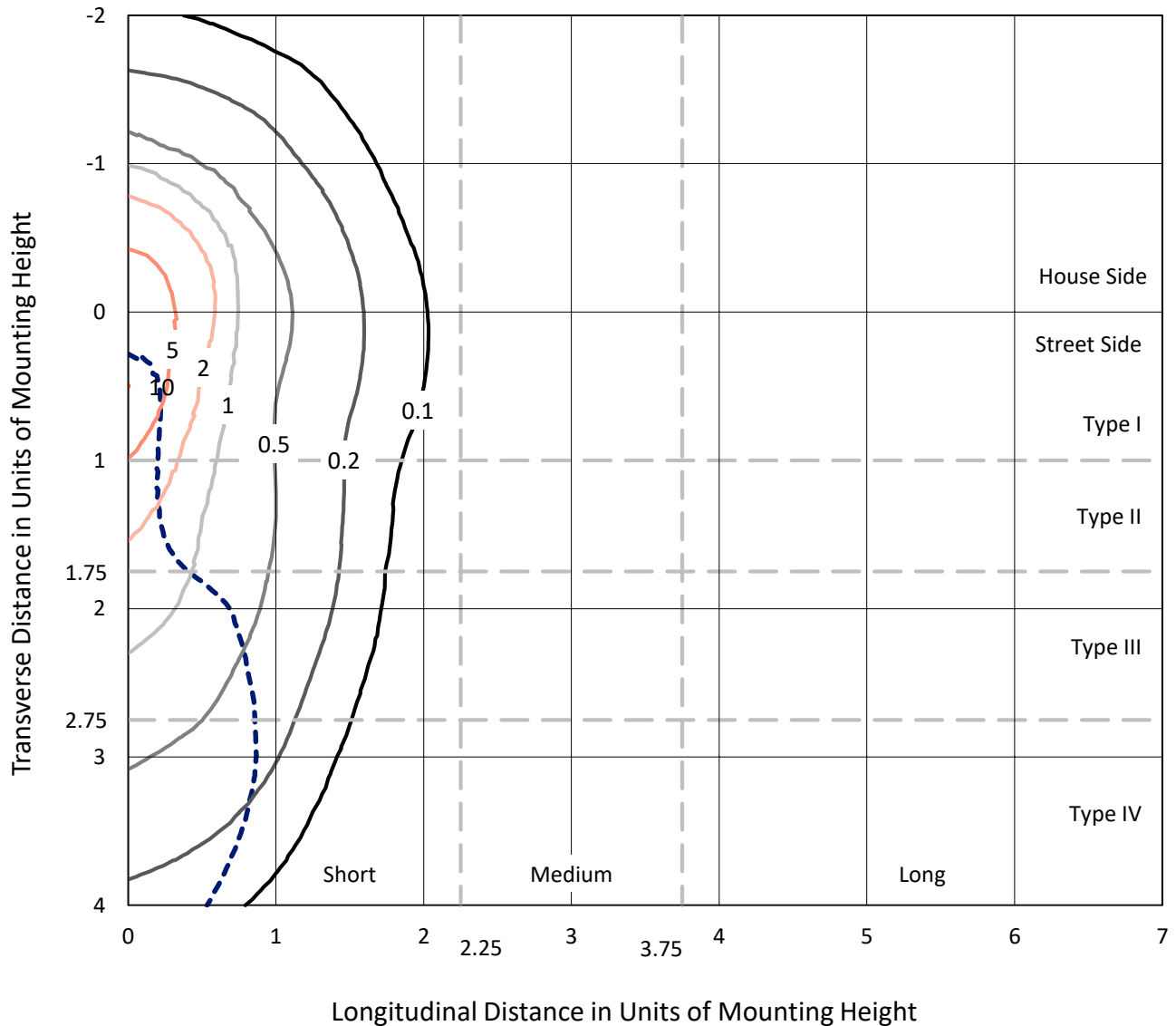


REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

Iso-Footcandle Lines of Horizontal Illumination

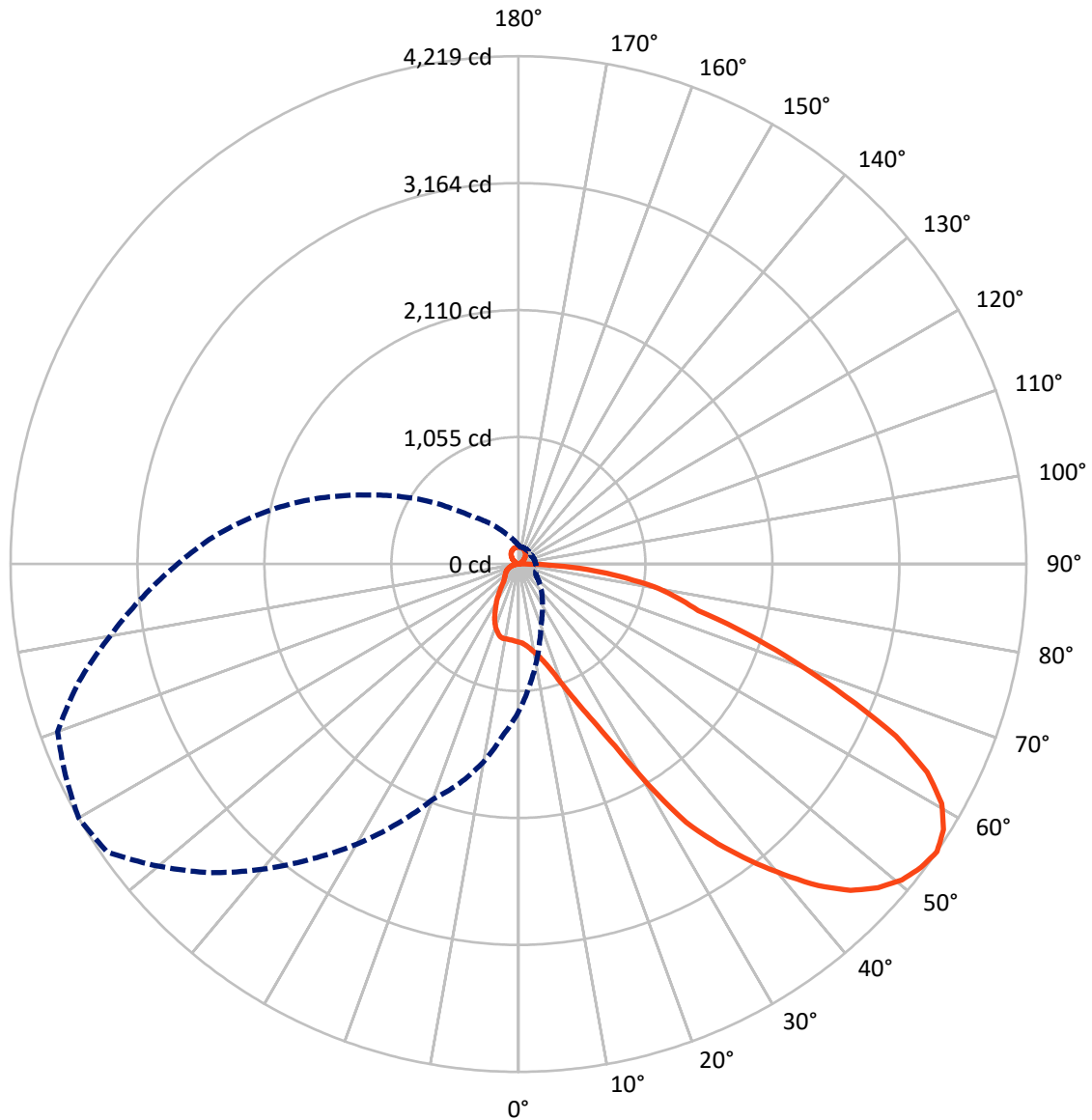
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P160027
CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

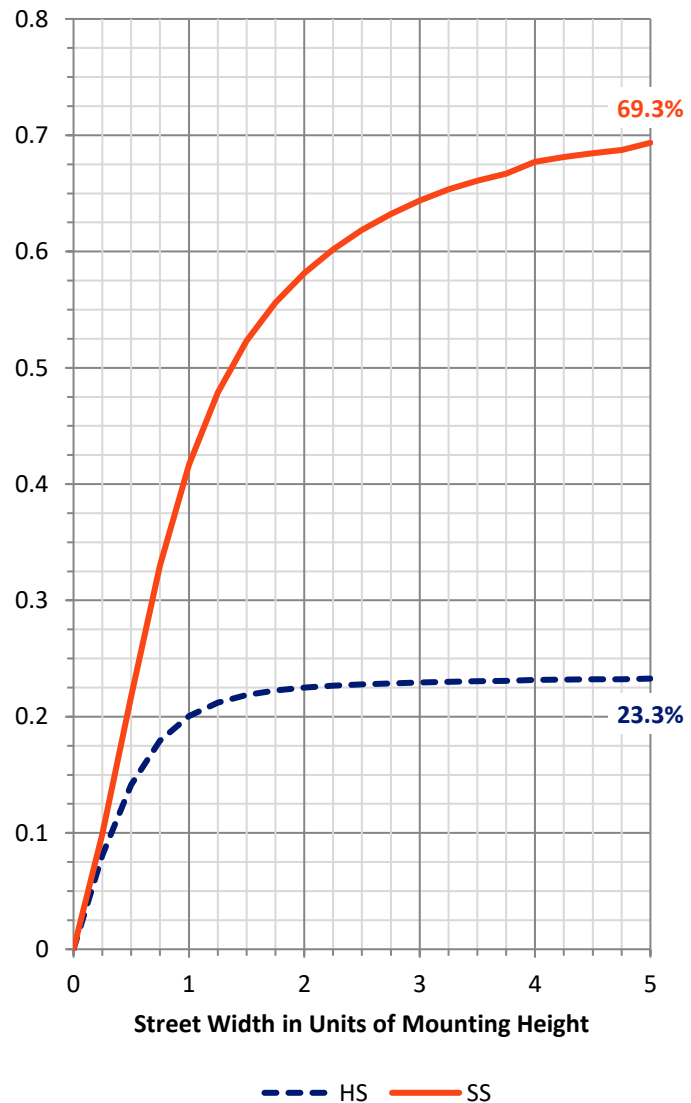
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.0	157.7	1374.8
	% Fixture	23.5	3.0	26.5
Street Side	Lumens	3652.2	157.7	3809.9
	% Fixture	70.4	3.0	73.5
Total	Lumens	4869.2	315.5	5184.7
	% Fixture	93.9	6.1	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.2
10°-20°	210.1	4.1
20°-30°	407.8	7.9
30°-40°	640.8	12.4
40°-50°	856.6	16.5
50°-60°	1005.0	19.4
60°-70°	953.5	18.4
70°-80°	575.5	11.1
80°-90°	155.9	3.0
90°-100°	1.3	0.0
100°-110°	12.3	0.2
110°-120°	25.2	0.5
120°-130°	43.0	0.8
130°-140°	60.0	1.2
140°-150°	65.4	1.3
150°-160°	56.9	1.1
160°-170°	38.2	0.7
170°-180°	13.3	0.3
0°-90°	4869.2	93.9
0°-180°	5184.7	100.0



REPORT NUMBER: P160027

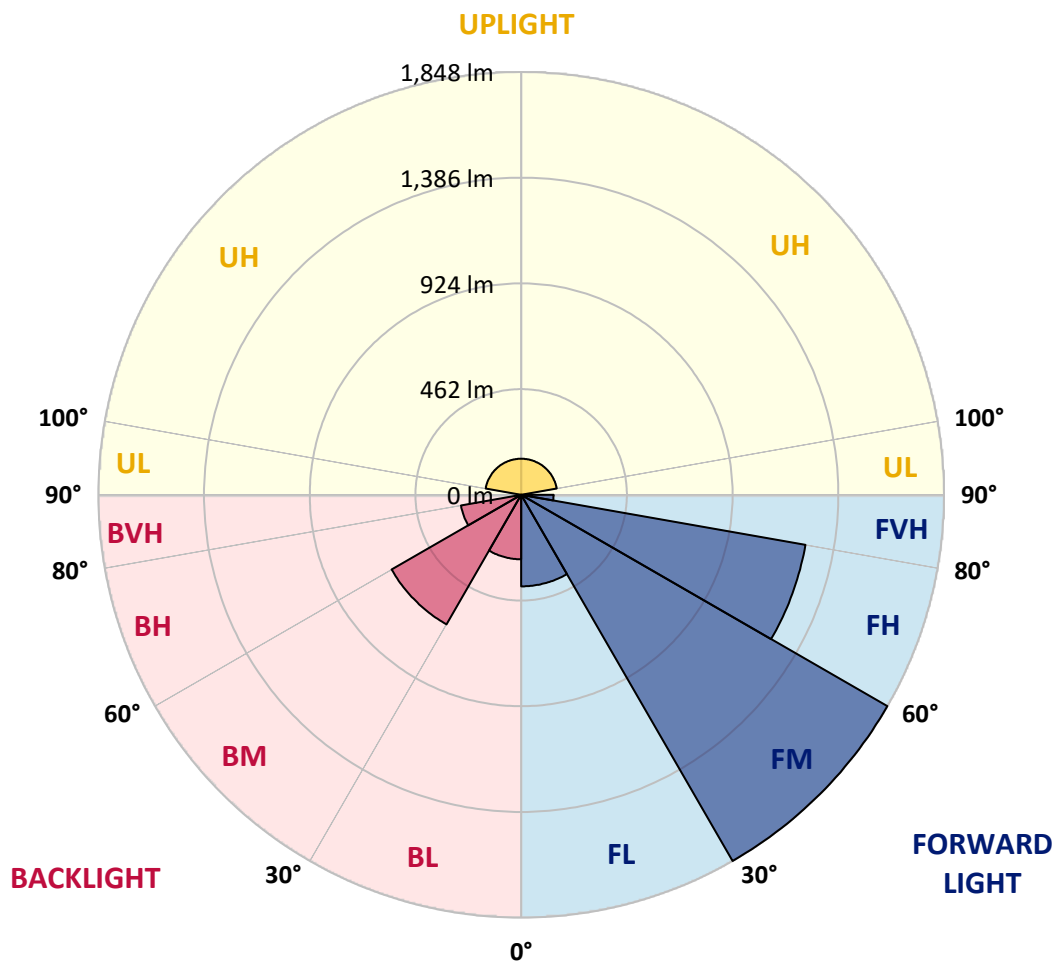
CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.2	7.7			
FM	(30°-60°)	1848.4	35.7			
FH	(60°-80°)	1261.8	24.3			G1/1800
FVH	(80°-90°)	141.8	2.7			G2/225
BL	(0°-30°)	281.6	5.4	B1/500		
BM	(30°-60°)	654.0	12.6	B1/1000		
BH	(60°-80°)	267.2	5.2	B1/500		G1/500
BVH	(80°-90°)	14.2	0.3			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	157.7	3.0		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
2.5°	663.0	668.0	662.0	663.0	661.0	659.0	660.0	659.0	657.0	657.0	655.0
5°	679.0	680.0	676.0	675.0	673.0	670.0	671.0	668.0	666.0	664.0	660.0
7.5°	698.0	697.0	692.0	689.0	688.0	683.0	682.0	678.0	675.0	672.0	667.0
10°	727.0	719.0	713.0	708.0	706.0	700.0	695.0	693.0	688.0	681.0	677.0
12.5°	769.0	764.0	752.0	742.0	736.0	728.0	721.0	716.0	708.0	698.0	693.0
15°	844.0	828.0	814.0	799.0	787.0	774.0	757.0	744.0	730.0	713.0	700.0
17.5°	941.0	921.0	899.0	875.0	850.0	822.0	789.0	764.0	736.0	707.0	687.0
20°	1060.0	1023.0	992.0	946.0	900.0	856.0	804.0	760.0	720.0	682.0	653.0
22.5°	1194.0	1138.0	1075.0	1005.0	931.0	863.0	790.0	730.0	672.0	625.0	592.0
25°	1347.0	1259.0	1163.0	1057.0	951.0	850.0	760.0	685.0	623.0	567.0	530.0
27.5°	1441.0	1321.0	1206.0	1080.0	959.0	842.0	732.0	645.0	574.0	514.0	471.0
30°	1461.0	1340.0	1205.0	1068.0	943.0	815.0	695.0	598.0	519.0	456.0	413.0
32.5°	1475.0	1335.0	1185.0	1033.0	897.0	762.0	640.0	544.0	460.0	398.0	348.0
35°	1479.0	1316.0	1147.0	978.0	835.0	697.0	575.0	474.0	401.0	340.0	295.0
37.5°	1473.0	1285.0	1096.0	921.0	768.0	624.0	504.0	416.0	354.0	295.0	255.0
40°	1449.0	1246.0	1050.0	866.0	700.0	551.0	444.0	368.0	315.0	270.0	239.0
42.5°	1418.0	1201.0	999.0	802.0	634.0	493.0	396.0	335.0	290.0	258.0	232.0
45°	1379.0	1154.0	946.0	745.0	578.0	449.0	368.0	317.0	282.0	254.0	230.0
47.5°	1331.0	1104.0	895.0	702.0	540.0	427.0	362.0	317.0	282.0	252.0	226.0
50°	1286.0	1059.0	856.0	675.0	523.0	428.0	368.0	321.0	281.0	248.0	219.0
52.5°	1251.0	1032.0	840.0	665.0	525.0	438.0	380.0	327.0	284.0	248.0	217.0
55°	1229.0	1021.0	838.0	674.0	546.0	465.0	399.0	345.0	298.0	256.0	220.0
57.5°	1232.0	1033.0	862.0	711.0	594.0	512.0	437.0	377.0	318.0	266.0	221.0
60°	1263.0	1073.0	920.0	798.0	674.0	575.0	485.0	405.0	327.0	263.0	214.0
62.5°	1341.0	1167.0	1042.0	917.0	773.0	637.0	514.0	410.0	317.0	248.0	197.0
65°	1489.0	1336.0	1216.0	1060.0	855.0	663.0	511.0	395.0	298.0	224.0	174.0
67.5°	1634.0	1472.0	1303.0	1068.0	835.0	644.0	478.0	358.0	264.0	192.0	154.0
70°	1774.0	1564.0	1347.0	1058.0	777.0	554.0	399.0	299.0	210.0	160.0	132.0
72.5°	1682.0	1440.0	1218.0	933.0	668.0	455.0	318.0	217.0	161.0	132.0	114.0
75°	1284.0	1116.0	923.0	716.0	493.0	321.0	212.0	154.0	124.0	104.0	93.0
77.5°	924.0	799.0	641.0	470.0	308.0	203.0	144.0	110.0	92.0	78.0	72.0
80°	536.0	460.0	359.0	259.0	176.0	127.0	96.0	78.0	67.0	57.0	55.0
82.5°	335.0	268.0	190.0	128.0	90.0	70.0	56.0	48.0	40.0	35.0	30.0
85°	145.0	104.0	59.0	33.0	25.0	19.0	15.0	13.0	11.0	10.0	8.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	6.0	6.0	6.0	6.0	5.0
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



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CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
2.5°	655.0	653.0	652.0	652.0	650.0	650.0	648.0	649.0	648.0	646.0	645.0
5°	659.0	656.0	654.0	652.0	649.0	648.0	646.0	646.0	643.0	640.0	639.0
7.5°	664.0	660.0	657.0	653.0	649.0	647.0	643.0	641.0	638.0	635.0	634.0
10°	674.0	667.0	662.0	657.0	650.0	646.0	640.0	637.0	634.0	630.0	628.0
12.5°	685.0	676.0	669.0	657.0	650.0	643.0	637.0	631.0	625.0	621.0	620.0
15°	685.0	674.0	659.0	648.0	638.0	628.0	622.0	616.0	609.0	606.0	605.0
17.5°	668.0	649.0	635.0	623.0	614.0	606.0	600.0	597.0	591.0	585.0	583.0
20°	629.0	607.0	591.0	578.0	568.0	560.0	558.0	555.0	552.0	552.0	553.0
22.5°	565.0	541.0	527.0	513.0	502.0	498.0	499.0	502.0	503.0	502.0	509.0
25°	501.0	478.0	459.0	446.0	433.0	436.0	432.0	439.0	442.0	443.0	451.0
27.5°	439.0	414.0	394.0	383.0	377.0	373.0	370.0	379.0	381.0	388.0	395.0
30°	373.0	350.0	327.0	318.0	313.0	310.0	311.0	319.0	324.0	334.0	340.0
32.5°	312.0	284.0	267.0	255.0	250.0	249.0	250.0	256.0	262.0	275.0	284.0
35°	260.0	233.0	219.0	212.0	205.0	202.0	205.0	207.0	209.0	220.0	231.0
37.5°	230.0	211.0	200.0	193.0	188.0	185.0	185.0	184.0	185.0	187.0	192.0
40°	217.0	203.0	193.0	186.0	182.0	180.0	179.0	178.0	177.0	177.0	177.0
42.5°	212.0	196.0	186.0	180.0	178.0	178.0	178.0	177.0	175.0	173.0	172.0
45°	208.0	191.0	180.0	175.0	175.0	175.0	176.0	175.0	173.0	170.0	167.0
47.5°	201.0	184.0	174.0	170.0	170.0	170.0	171.0	170.0	168.0	166.0	163.0
50°	193.0	175.0	165.0	162.0	161.0	161.0	160.0	159.0	158.0	156.0	153.0
52.5°	188.0	169.0	160.0	158.0	156.0	155.0	153.0	152.0	150.0	149.0	146.0
55°	187.0	165.0	157.0	155.0	153.0	150.0	146.0	144.0	140.0	139.0	137.0
57.5°	184.0	161.0	152.0	147.0	142.0	139.0	135.0	133.0	131.0	129.0	127.0
60°	174.0	149.0	138.0	135.0	132.0	131.0	129.0	127.0	124.0	121.0	117.0
62.5°	155.0	134.0	127.0	126.0	125.0	123.0	121.0	118.0	116.0	112.0	108.0
65°	140.0	126.0	122.0	120.0	119.0	116.0	114.0	112.0	109.0	106.0	102.0
67.5°	127.0	117.0	115.0	112.0	111.0	109.0	106.0	104.0	101.0	98.0	94.0
70°	115.0	107.0	106.0	104.0	102.0	101.0	97.0	94.0	93.0	89.0	86.0
72.5°	102.0	97.0	95.0	93.0	91.0	90.0	88.0	86.0	84.0	80.0	76.0
75°	85.0	83.0	82.0	80.0	79.0	77.0	74.0	71.0	70.0	67.0	64.0
77.5°	68.0	66.0	66.0	64.0	61.0	58.0	55.0	51.0	51.0	51.0	49.0
80°	48.0	46.0	43.0	42.0	40.0	38.0	35.0	33.0	31.0	31.0	31.0
82.5°	28.0	27.0	25.0	22.0	20.0	19.0	16.0	14.0	13.0	11.0	11.0
85°	6.0	6.0	4.0	4.0	3.0	3.0	3.0	2.0	2.0	1.0	1.0
87.5°	5.0	5.0	5.0	4.0	4.0	4.0	3.0	3.0	3.0	2.0	2.0
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8



REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
2.5°	645.0	644.0	642.0	638.0	637.0	636.0	637.0	637.0	636.0	637.0	638.0
5°	639.0	638.0	635.0	633.0	631.0	631.0	637.0	637.0	634.0	635.0	639.0
7.5°	634.0	634.0	632.0	631.0	632.0	635.0	640.0	644.0	643.0	649.0	651.0
10°	628.0	629.0	630.0	634.0	640.0	645.0	653.0	660.0	662.0	667.0	670.0
12.5°	622.0	626.0	631.0	639.0	647.0	655.0	664.0	672.0	673.0	678.0	682.0
15°	607.0	613.0	620.0	629.0	641.0	650.0	663.0	669.0	671.0	674.0	679.0
17.5°	584.0	587.0	592.0	602.0	615.0	627.0	642.0	652.0	658.0	662.0	664.0
20°	553.0	559.0	562.0	571.0	578.0	587.0	607.0	620.0	632.0	638.0	644.0
22.5°	510.0	517.0	524.0	533.0	537.0	543.0	562.0	582.0	600.0	612.0	619.0
25°	456.0	464.0	474.0	485.0	490.0	496.0	518.0	538.0	560.0	581.0	591.0
27.5°	402.0	412.0	422.0	435.0	443.0	450.0	469.0	488.0	511.0	531.0	541.0
30°	350.0	364.0	373.0	388.0	395.0	402.0	419.0	440.0	456.0	479.0	492.0
32.5°	296.0	306.0	323.0	340.0	348.0	355.0	371.0	389.0	403.0	426.0	445.0
35°	247.0	256.0	274.0	291.0	296.0	307.0	323.0	339.0	352.0	373.0	391.0
37.5°	201.0	216.0	230.0	243.0	254.0	262.0	277.0	291.0	298.0	318.0	337.0
40°	179.0	186.0	196.0	208.0	215.0	223.0	234.0	246.0	254.0	268.0	284.0
42.5°	171.0	171.0	174.0	180.0	189.0	193.0	203.0	209.0	220.0	226.0	240.0
45°	165.0	163.0	164.0	164.0	167.0	170.0	178.0	184.0	191.0	196.0	205.0
47.5°	160.0	156.0	155.0	153.0	152.0	154.0	160.0	165.0	168.0	172.0	175.0
50°	149.0	146.0	143.0	141.0	140.0	142.0	147.0	151.0	152.0	154.0	156.0
52.5°	143.0	139.0	136.0	133.0	133.0	135.0	139.0	142.0	143.0	144.0	146.0
55°	135.0	133.0	131.0	128.0	127.0	130.0	133.0	136.0	138.0	138.0	140.0
57.5°	125.0	123.0	125.0	124.0	123.0	125.0	129.0	132.0	133.0	133.0	134.0
60°	115.0	114.0	114.0	116.0	118.0	121.0	124.0	128.0	127.0	125.0	126.0
62.5°	106.0	105.0	106.0	109.0	112.0	115.0	119.0	122.0	119.0	117.0	117.0
65°	100.0	99.0	100.0	101.0	102.0	105.0	110.0	111.0	109.0	109.0	109.0
67.5°	92.0	91.0	90.0	91.0	92.0	93.0	97.0	98.0	98.0	98.0	98.0
70°	82.0	81.0	80.0	80.0	80.0	81.0	82.0	84.0	86.0	88.0	89.0
72.5°	71.0	69.0	69.0	69.0	67.0	68.0	69.0	73.0	75.0	77.0	79.0
75°	60.0	58.0	58.0	56.0	57.0	58.0	58.0	60.0	62.0	65.0	67.0
77.5°	47.0	47.0	47.0	46.0	46.0	47.0	48.0	48.0	50.0	53.0	56.0
80°	30.0	30.0	32.0	33.0	34.0	35.0	37.0	38.0	39.0	42.0	43.0
82.5°	11.0	12.0	13.0	13.0	16.0	20.0	21.0	24.0	26.0	29.0	29.0
85°	1.0	1.0	1.0	1.0	1.0	2.0	3.0	4.0	6.0	9.0	11.0
87.5°	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
92.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
97.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
100°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
102.5°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
105°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
107.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8



REPORT NUMBER: P160027
 CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°
117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°
												110°



NUMBER: P160027
 NUMBER: ENT-E02-LED-E1-SLR-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

CANDELA DISTRIBUTION

165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°	165°	
649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	112.5°	21.2
639.0	642.0	641.0	640.0	641.0	643.0	642.0	643.0	644.0	646.0	645.0	115°	25.0
640.0	643.0	644.0	644.0	646.0	649.0	649.0	650.0	651.0	653.0	653.0	117.5°	29.5
654.0	661.0	661.0	662.0	665.0	668.0	669.0	670.0	669.0	669.0	669.0	120°	34.8
675.0	683.0	684.0	689.0	693.0	692.0	692.0	693.0	691.0	689.0	686.0	122.5°	40.9
686.0	693.0	695.0	700.0	706.0	707.0	710.0	712.0	710.0	705.0	700.0	125°	47.8
683.0	689.0	693.0	699.0	706.0	710.0	716.0	718.0	717.0	711.0	705.0	127.5°	55.3
670.0	677.0	682.0	690.0	698.0	704.0	710.0	713.0	713.0	708.0	704.0	130°	63.0
649.0	657.0	664.0	673.0	683.0	690.0	697.0	699.0	699.0	697.0	700.0	132.5°	70.5
627.0	636.0	644.0	653.0	666.0	673.0	681.0	687.0	690.0	694.0	707.0	135°	77.9
599.0	603.0	613.0	623.0	641.0	653.0	670.0	686.0	702.0	720.0	746.0	137.5°	85.3
550.0	557.0	569.0	583.0	601.0	623.0	654.0	685.0	714.0	741.0	773.0	140°	92.5
509.0	522.0	535.0	551.0	570.0	591.0	627.0	667.0	702.0	734.0	769.0	142.5°	99.2
465.0	481.0	498.0	519.0	537.0	556.0	586.0	630.0	672.0	708.0	745.0	145°	104.9
414.0	431.0	448.0	470.0	489.0	513.0	540.0	583.0	631.0	672.0	716.0	147.5°	110.1
359.0	374.0	393.0	413.0	435.0	463.0	492.0	532.0	582.0	626.0	676.0	150°	115.1
307.0	323.0	342.0	364.0	386.0	416.0	449.0	487.0	533.0	580.0	633.0	152.5°	119.7
258.0	279.0	299.0	321.0	344.0	372.0	407.0	448.0	494.0	544.0	600.0	155°	123.7
217.0	233.0	254.0	272.0	297.0	324.0	360.0	406.0	459.0	512.0	571.0	157.5°	127.0
181.0	191.0	209.0	231.0	254.0	282.0	312.0	358.0	412.0	470.0	536.0	160°	130.3
159.0	164.0	177.0	197.0	219.0	247.0	273.0	313.0	367.0	424.0	492.0	162.5°	133.5
148.0	150.0	157.0	172.0	193.0	218.0	246.0	280.0	328.0	384.0	449.0	165°	136.0
142.0	143.0	145.0	156.0	174.0	197.0	225.0	252.0	295.0	348.0	411.0	167.5°	137.1
135.0	136.0	137.0	143.0	156.0	176.0	200.0	222.0	261.0	308.0	368.0	170°	137.4
128.0	130.0	132.0	134.0	143.0	156.0	174.0	193.0	220.0	261.0	310.0	172.5°	138.6
119.0	121.0	124.0	126.0	129.0	137.0	148.0	160.0	174.0	203.0	243.0	175°	140.5
111.0	113.0	114.0	115.0	117.0	119.0	123.0	126.0	133.0	150.0	178.0	177.5°	141.1
100.0	102.0	102.0	103.0	104.0	104.0	106.0	107.0	109.0	114.0	126.0	180°	140.8
91.0	92.0	93.0	94.0	94.0	94.0	93.0	94.0	93.0	93.0	98.0		
80.0	81.0	82.0	83.0	84.0	85.0	86.0	86.0	85.0	83.0	83.0		
68.0	68.0	70.0	71.0	72.0	75.0	77.0	75.0	75.0	74.0	74.0		
57.0	59.0	60.0	60.0	62.0	65.0	67.0	66.0	63.0	63.0	64.0		
44.0	45.0	46.0	47.0	48.0	51.0	54.0	55.0	53.0	54.0	54.0		
29.0	30.0	32.0	33.0	34.0	37.0	40.0	43.0	42.0	44.0	42.0		
13.0	15.0	16.0	16.0	19.0	22.0	26.0	29.0	33.0	34.0	31.0		
0.0	1.0	1.0	1.0	4.0	7.0	13.0	20.0	27.0	21.0	16.0		
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1		
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0		
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8		
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8		
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7		
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8		

'160027
 ENT-E02-LED-E1-SLR-ULG

REPORT NUMBER: P160027
 CATALOG NUMBER: ENT-E02-I

TION (continued):

CANDELA DISTRIBUTION (con

170°	175°	180°	185°	190°	195°	200°	205°	210°	215°		220°	225°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	649.0	649.0
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	645.0	646.0
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	654.0	654.0
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	667.0	667.0
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	684.0	681.0
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	694.0	689.0
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	700.0	695.0
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	702.0	702.0
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	707.0	715.0
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	724.0	744.0
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	774.0	802.0
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	813.0	850.0
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	816.0	862.0
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	798.0	848.0
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	771.0	828.0
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	738.0	802.0
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	700.0	766.0
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	665.0	733.0
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	640.0	712.0
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	613.0	690.0
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	570.0	661.0
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	524.0	615.0
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	482.0	569.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	437.0	525.0
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	378.0	466.0
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	302.0	385.0
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	217.0	287.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	147.0	195.0
										70°	107.0	133.0
										72.5°	87.0	100.0
										75°	77.0	84.0
										77.5°	68.0	72.0
										80°	54.0	58.0
										82.5°	42.0	46.0
										85°	31.0	34.0
										87.5°	14.0	14.0
										90°	0.1	0.1
										92.5°	0.1	0.1
										95°	0.5	0.5
										97.5°	1.5	1.5
										100°	5.0	5.0
										102.5°	8.8	8.8
										105°	11.8	11.8
										107.5°	14.7	14.7
										110°	17.8	17.8

REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLF

LED-E1-SLR-ULG

tinued):

CANDELA DISTRIBUTION (continued):

230°	235°	240°	245°	250°	255°	260°	265°	270°		220°	225°	230°
649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	112.5°	21.2	21.2	21.2
647.0	648.0	648.0	650.0	651.0	653.0	654.0	654.0	654.0	115°	25.0	25.0	25.0
656.0	657.0	658.0	661.0	662.0	665.0	668.0	669.0	672.0	117.5°	29.5	29.5	29.5
667.0	670.0	671.0	673.0	675.0	680.0	684.0	686.0	689.0	120°	34.8	34.8	34.8
680.0	681.0	681.0	683.0	688.0	691.0	696.0	705.0	711.0	122.5°	40.9	40.9	40.9
689.0	686.0	688.0	690.0	695.0	702.0	710.0	723.0	735.0	125°	47.8	47.8	47.8
695.0	695.0	700.0	704.0	713.0	724.0	739.0	757.0	775.0	127.5°	55.3	55.3	55.3
706.0	709.0	720.0	728.0	744.0	760.0	779.0	804.0	831.0	130°	63.0	63.0	63.0
726.0	734.0	746.0	759.0	775.0	799.0	831.0	863.0	899.0	132.5°	70.5	70.5	70.5
758.0	776.0	796.0	812.0	831.0	865.0	900.0	940.0	985.0	135°	77.9	77.9	77.9
828.0	848.0	878.0	905.0	932.0	981.0	1026.0	1072.0	1133.0	137.5°	85.3	85.3	85.3
889.0	921.0	968.0	1007.0	1044.0	1103.0	1153.0	1229.0	1294.0	140°	92.5	92.5	92.5
915.0	967.0	1026.0	1082.0	1151.0	1209.0	1283.0	1374.0	1459.0	142.5°	99.2	99.2	99.2
909.0	972.0	1046.0	1122.0	1204.0	1297.0	1382.0	1484.0	1595.0	145°	104.9	104.9	104.9
895.0	966.0	1052.0	1143.0	1241.0	1357.0	1464.0	1591.0	1729.0	147.5°	110.1	110.1	110.1
878.0	961.0	1057.0	1164.0	1287.0	1425.0	1563.0	1729.0	1901.0	150°	115.1	115.1	115.1
852.0	947.0	1063.0	1196.0	1347.0	1509.0	1690.0	1888.0	2073.0	152.5°	119.7	119.7	119.7
823.0	930.0	1070.0	1240.0	1430.0	1631.0	1840.0	2042.0	2253.0	155°	123.7	123.7	123.7
804.0	925.0	1088.0	1291.0	1512.0	1745.0	1978.0	2199.0	2429.0	157.5°	127.0	127.0	127.0
793.0	928.0	1107.0	1329.0	1573.0	1830.0	2077.0	2331.0	2572.0	160°	130.3	130.3	130.3
783.0	936.0	1124.0	1353.0	1612.0	1885.0	2155.0	2429.0	2696.0	162.5°	133.5	133.5	133.5
757.0	933.0	1130.0	1360.0	1632.0	1921.0	2209.0	2498.0	2782.0	165°	136.0	136.0	136.0
712.0	905.0	1117.0	1353.0	1638.0	1942.0	2244.0	2549.0	2831.0	167.5°	137.1	137.1	137.1
652.0	848.0	1071.0	1323.0	1617.0	1932.0	2256.0	2582.0	2859.0	170°	137.4	137.4	137.4
585.0	759.0	990.0	1254.0	1549.0	1871.0	2203.0	2551.0	2827.0	172.5°	138.6	138.6	138.6
493.0	648.0	880.0	1137.0	1425.0	1745.0	2046.0	2426.0	2707.0	175°	140.5	140.5	140.5
377.0	515.0	715.0	977.0	1270.0	1550.0	1823.0	2203.0	2515.0	177.5°	141.1	141.1	141.1
260.0	367.0	535.0	764.0	1038.0	1296.0	1568.0	1923.0	2287.0	180°	140.8	140.8	140.8
169.0	238.0	354.0	530.0	747.0	985.0	1211.0	1536.0	1926.0				
120.0	152.0	216.0	327.0	492.0	676.0	861.0	1081.0	1453.0				
95.0	111.0	133.0	190.0	288.0	421.0	570.0	709.0	1020.0				
77.0	84.0	95.0	117.0	170.0	243.0	336.0	447.0	634.0				
62.0	67.0	74.0	83.0	105.0	140.0	195.0	246.0	362.0				
50.0	56.0	58.0	59.0	68.0	80.0	103.0	139.0	207.0				
36.0	38.0	38.0	39.0	41.0	44.0	59.0	102.0	151.0				
14.0	12.0	13.0	10.0	11.0	12.0	19.0	22.0	35.0				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1				
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5				
1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				
8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8				
11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8				
14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7				
17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8				



REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

3-ULG

CANDELA DISTRIBUTION (continued):

235°	240°	245°	250°	255°	260°	265°	270°		275°	280°	285°	290°
21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	0°	649.0	649.0	649.0	649.0
25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	2.5°	657.0	657.0	656.0	656.0
29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	5°	674.0	677.0	675.0	678.0
34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	7.5°	696.0	698.0	700.0	704.0
40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	10°	719.0	726.0	733.0	736.0
47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	12.5°	746.0	759.0	773.0	780.0
55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	15°	793.0	813.0	829.0	840.0
63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	17.5°	855.0	882.0	909.0	928.0
70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	20°	934.0	973.0	1011.0	1035.0
77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	22.5°	1034.0	1080.0	1122.0	1168.0
85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	25°	1172.0	1236.0	1310.0	1350.0
92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1369.0	1456.0	1508.0	1597.0
99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	30°	1557.0	1664.0	1790.0	1913.0
104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	32.5°	1716.0	1873.0	2058.0	2245.0
110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	35°	1883.0	2082.0	2296.0	2536.0
115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	37.5°	2083.0	2289.0	2520.0	2783.0
119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	40°	2265.0	2500.0	2783.0	3026.0
123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2466.0	2716.0	3035.0	3316.0
127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	45°	2661.0	2922.0	3271.0	3579.0
130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2832.0	3094.0	3466.0	3787.0
133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	50°	2969.0	3261.0	3624.0	3932.0
136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	52.5°	3076.0	3385.0	3744.0	4032.0
137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	55°	3132.0	3444.0	3781.0	4074.0
137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	57.5°	3140.0	3440.0	3750.0	4036.0
138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	60°	3064.0	3330.0	3626.0	3925.0
140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2894.0	3102.0	3383.0	3679.0
141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	65°	2676.0	2812.0	2999.0	3289.0
140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2462.0	2552.0	2650.0	2864.0
								70°	2133.0	2208.0	2306.0	2439.0
								72.5°	1659.0	1758.0	1828.0	1957.0
								75°	1247.0	1304.0	1405.0	1524.0
								77.5°	877.0	935.0	1050.0	1186.0
								80°	589.0	629.0	700.0	817.0
								82.5°	361.0	407.0	467.0	568.0
								85°	242.0	314.0	391.0	467.0
								87.5°	102.0	172.0	218.0	229.0
								90°	0.1	0.1	0.1	0.1
								92.5°	0.1	0.1	0.1	0.1
								95°	0.5	0.5	0.5	0.5
								97.5°	1.5	1.5	1.5	1.5
								100°	5.0	5.0	5.0	5.0
								102.5°	8.8	8.8	8.8	8.8
								105°	11.8	11.8	11.8	11.8
								107.5°	14.7	14.7	14.7	14.7
								110°	17.8	17.8	17.8	17.8



REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

295°	300°	305°	310°	315°	320°	325°		275°	280°	285°	290°	295°
649.0	649.0	649.0	649.0	649.0	649.0	649.0	112.5°	21.2	21.2	21.2	21.2	21.2
659.0	658.0	660.0	660.0	659.0	659.0	662.0	115°	25.0	25.0	25.0	25.0	25.0
680.0	681.0	683.0	681.0	685.0	680.0	681.0	117.5°	29.5	29.5	29.5	29.5	29.5
709.0	710.0	713.0	712.0	715.0	712.0	708.0	120°	34.8	34.8	34.8	34.8	34.8
746.0	748.0	748.0	753.0	758.0	752.0	745.0	122.5°	40.9	40.9	40.9	40.9	40.9
789.0	796.0	793.0	803.0	808.0	804.0	799.0	125°	47.8	47.8	47.8	47.8	47.8
848.0	862.0	860.0	879.0	886.0	883.0	884.0	127.5°	55.3	55.3	55.3	55.3	55.3
936.0	956.0	959.0	989.0	1008.0	1005.0	1000.0	130°	63.0	63.0	63.0	63.0	63.0
1038.0	1090.0	1102.0	1128.0	1149.0	1157.0	1156.0	132.5°	70.5	70.5	70.5	70.5	70.5
1211.0	1249.0	1276.0	1323.0	1342.0	1360.0	1355.0	135°	77.9	77.9	77.9	77.9	77.9
1408.0	1443.0	1503.0	1563.0	1582.0	1599.0	1621.0	137.5°	85.3	85.3	85.3	85.3	85.3
1660.0	1711.0	1806.0	1887.0	1933.0	1919.0	1912.0	140°	92.5	92.5	92.5	92.5	92.5
2001.0	2129.0	2199.0	2265.0	2295.0	2251.0	2195.0	142.5°	99.2	99.2	99.2	99.2	99.2
2409.0	2559.0	2603.0	2635.0	2578.0	2518.0	2354.0	145°	104.9	104.9	104.9	104.9	104.9
2708.0	2855.0	2946.0	2980.0	2858.0	2680.0	2458.0	147.5°	110.1	110.1	110.1	110.1	110.1
2978.0	3127.0	3167.0	3182.0	3018.0	2788.0	2572.0	150°	115.1	115.1	115.1	115.1	115.1
3265.0	3390.0	3413.0	3405.0	3187.0	2915.0	2713.0	152.5°	119.7	119.7	119.7	119.7	119.7
3526.0	3654.0	3633.0	3598.0	3350.0	3075.0	2852.0	155°	123.7	123.7	123.7	123.7	123.7
3774.0	3868.0	3830.0	3743.0	3504.0	3198.0	2961.0	157.5°	127.0	127.0	127.0	127.0	127.0
3940.0	4019.0	3978.0	3868.0	3610.0	3281.0	3021.0	160°	130.3	130.3	130.3	130.3	130.3
4066.0	4126.0	4102.0	3943.0	3672.0	3332.0	3048.0	162.5°	133.5	133.5	133.5	133.5	133.5
4129.0	4188.0	4174.0	3957.0	3680.0	3340.0	3035.0	165°	136.0	136.0	136.0	136.0	136.0
4152.0	4219.0	4170.0	3905.0	3627.0	3310.0	2990.0	167.5°	137.1	137.1	137.1	137.1	137.1
4133.0	4164.0	4092.0	3806.0	3519.0	3217.0	2926.0	170°	137.4	137.4	137.4	137.4	137.4
4063.0	4041.0	3942.0	3634.0	3366.0	3088.0	2855.0	172.5°	138.6	138.6	138.6	138.6	138.6
3867.0	3810.0	3730.0	3435.0	3162.0	2884.0	2745.0	175°	140.5	140.5	140.5	140.5	140.5
3463.0	3447.0	3410.0	3191.0	2920.0	2655.0	2566.0	177.5°	141.1	141.1	141.1	141.1	141.1
2945.0	2929.0	2934.0	2786.0	2590.0	2332.0	2334.0	180°	140.8	140.8	140.8	140.8	140.8
2525.0	2437.0	2333.0	2174.0	2060.0	2025.0	2138.0						
2032.0	1984.0	1899.0	1760.0	1631.0	1676.0	1929.0						
1571.0	1542.0	1604.0	1620.0	1570.0	1540.0	1626.0						
1287.0	1350.0	1449.0	1575.0	1587.0	1543.0	1380.0						
980.0	1144.0	1281.0	1451.0	1433.0	1338.0	1160.0						
686.0	845.0	974.0	1117.0	1112.0	1025.0	937.0						
525.0	575.0	624.0	774.0	832.0	765.0	669.0						
248.0	250.0	301.0	371.0	398.0	454.0	448.0						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.1	0.1	0.1	0.1	0.1	0.1	0.1						
0.5	0.5	0.5	0.5	0.5	0.5	0.5						
1.5	1.5	1.5	1.5	1.5	1.5	1.5						
5.0	5.0	5.0	5.0	5.0	5.0	5.0						
8.8	8.8	8.8	8.8	8.8	8.8	8.8						
11.8	11.8	11.8	11.8	11.8	11.8	11.8						
14.7	14.7	14.7	14.7	14.7	14.7	14.7						
17.8	17.8	17.8	17.8	17.8	17.8	17.8						



REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

300°	305°	310°	315°	320°	325°		330°	335°	340°	345°	350°	355°
21.2	21.2	21.2	21.2	21.2	21.2	0°	649.0	649.0	649.0	649.0	649.0	649.0
25.0	25.0	25.0	25.0	25.0	25.0	2.5°	663.0	662.0	662.0	662.0	663.0	662.0
29.5	29.5	29.5	29.5	29.5	29.5	5°	683.0	681.0	680.0	680.0	679.0	679.0
34.8	34.8	34.8	34.8	34.8	34.8	7.5°	709.0	705.0	705.0	702.0	701.0	698.0
40.9	40.9	40.9	40.9	40.9	40.9	10°	744.0	740.0	739.0	731.0	731.0	724.0
47.8	47.8	47.8	47.8	47.8	47.8	12.5°	795.0	795.0	795.0	785.0	783.0	771.0
55.3	55.3	55.3	55.3	55.3	55.3	15°	883.0	875.0	882.0	865.0	864.0	848.0
63.0	63.0	63.0	63.0	63.0	63.0	17.5°	1002.0	1002.0	988.0	980.0	975.0	952.0
70.5	70.5	70.5	70.5	70.5	70.5	20°	1160.0	1161.0	1137.0	1115.0	1105.0	1079.0
77.9	77.9	77.9	77.9	77.9	77.9	22.5°	1361.0	1342.0	1312.0	1296.0	1280.0	1237.0
85.3	85.3	85.3	85.3	85.3	85.3	25°	1625.0	1617.0	1564.0	1506.0	1482.0	1417.0
92.5	92.5	92.5	92.5	92.5	92.5	27.5°	1884.0	1867.0	1782.0	1683.0	1622.0	1533.0
99.2	99.2	99.2	99.2	99.2	99.2	30°	2112.0	2000.0	1899.0	1780.0	1687.0	1576.0
104.9	104.9	104.9	104.9	104.9	104.9	32.5°	2231.0	2090.0	1943.0	1845.0	1728.0	1605.0
110.1	110.1	110.1	110.1	110.1	110.1	35°	2323.0	2172.0	2026.0	1899.0	1767.0	1628.0
115.1	115.1	115.1	115.1	115.1	115.1	37.5°	2440.0	2281.0	2120.0	1969.0	1808.0	1645.0
119.7	119.7	119.7	119.7	119.7	119.7	40°	2570.0	2388.0	2189.0	2006.0	1825.0	1639.0
123.7	123.7	123.7	123.7	123.7	123.7	42.5°	2678.0	2458.0	2224.0	2018.0	1819.0	1614.0
127.0	127.0	127.0	127.0	127.0	127.0	45°	2738.0	2487.0	2227.0	2005.0	1795.0	1583.0
130.3	130.3	130.3	130.3	130.3	130.3	47.5°	2766.0	2488.0	2207.0	1976.0	1763.0	1539.0
133.5	133.5	133.5	133.5	133.5	133.5	50°	2763.0	2463.0	2169.0	1937.0	1727.0	1493.0
136.0	136.0	136.0	136.0	136.0	136.0	52.5°	2733.0	2422.0	2125.0	1906.0	1696.0	1454.0
137.1	137.1	137.1	137.1	137.1	137.1	55°	2687.0	2378.0	2081.0	1885.0	1670.0	1422.0
137.4	137.4	137.4	137.4	137.4	137.4	57.5°	2635.0	2340.0	2049.0	1881.0	1655.0	1416.0
138.6	138.6	138.6	138.6	138.6	138.6	60°	2612.0	2344.0	2069.0	1853.0	1647.0	1429.0
140.5	140.5	140.5	140.5	140.5	140.5	62.5°	2597.0	2382.0	2110.0	1872.0	1660.0	1484.0
141.1	141.1	141.1	141.1	141.1	141.1	65°	2536.0	2435.0	2173.0	1940.0	1754.0	1613.0
140.8	140.8	140.8	140.8	140.8	140.8	67.5°	2463.0	2450.0	2198.0	1980.0	1861.0	1781.0
						70°	2387.0	2434.0	2234.0	2085.0	2019.0	1987.0
						72.5°	2265.0	2319.0	2133.0	2044.0	2024.0	2001.0
						75°	1889.0	1899.0	1757.0	1708.0	1743.0	1689.0
						77.5°	1358.0	1384.0	1292.0	1305.0	1419.0	1302.0
						80°	1006.0	904.0	846.0	885.0	994.0	827.0
						82.5°	829.0	671.0	569.0	622.0	664.0	488.0
						85°	638.0	512.0	421.0	340.0	324.0	209.0
						87.5°	501.0	370.0	206.0	116.0	78.0	5.0
						90°	0.1	0.1	0.1	0.1	0.1	0.1
						92.5°	0.1	0.1	0.1	0.1	0.1	0.1
						95°	0.5	0.5	0.5	0.5	0.5	0.5
						97.5°	1.5	1.5	1.5	1.5	1.5	1.5
						100°	5.0	5.0	5.0	5.0	5.0	5.0
						102.5°	8.8	8.8	8.8	8.8	8.8	8.8
						105°	11.8	11.8	11.8	11.8	11.8	11.8
						107.5°	14.7	14.7	14.7	14.7	14.7	14.7
						110°	17.8	17.8	17.8	17.8	17.8	17.8



REPORT NUMBER: P160027

CATALOG NUMBER: ENT-E02-LED-E1-SLR-ULG

CANDELA DISTRIBUTION (continued):

360°		330°	335°	340°	345°	350°	355°	360°
649.0	112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2
663.0	115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0
679.0	117.5°	29.5	29.5	29.5	29.5	29.5	29.5	29.5
698.0	120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8
727.0	122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9
769.0	125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8
844.0	127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3
941.0	130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0
1060.0	132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5
1194.0	135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9
1347.0	137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3
1441.0	140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5
1461.0	142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1475.0	145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9
1479.0	147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1
1473.0	150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1
1449.0	152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7
1418.0	155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7
1379.0	157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0
1331.0	160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3
1286.0	162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5
1251.0	165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0
1229.0	167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1
1232.0	170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4
1263.0	172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6
1341.0	175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5
1489.0	177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1
1634.0	180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8
1774.0								
1682.0								
1284.0								
924.0								
536.0								
335.0								
145.0								
5.0								
0.1								
0.1								
0.5								
1.5								
5.0								
8.8								
11.8								
14.7								
17.8								

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Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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