

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: P159897

Luminaire Tested: **ENC-E02-LED-E1-GZW-ULG**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P159897
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: ENC-E02-LED-E1-GZW-ULG
Description: ENTRI LED LUMINAIRE WITH UPLIGHT
(2) LIGHTBARS WITH AccuLED OPTICS - WALL GRAZER WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5885.1 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type I - Short - Cutoff
BUG Rating: B3 - U3 - G3

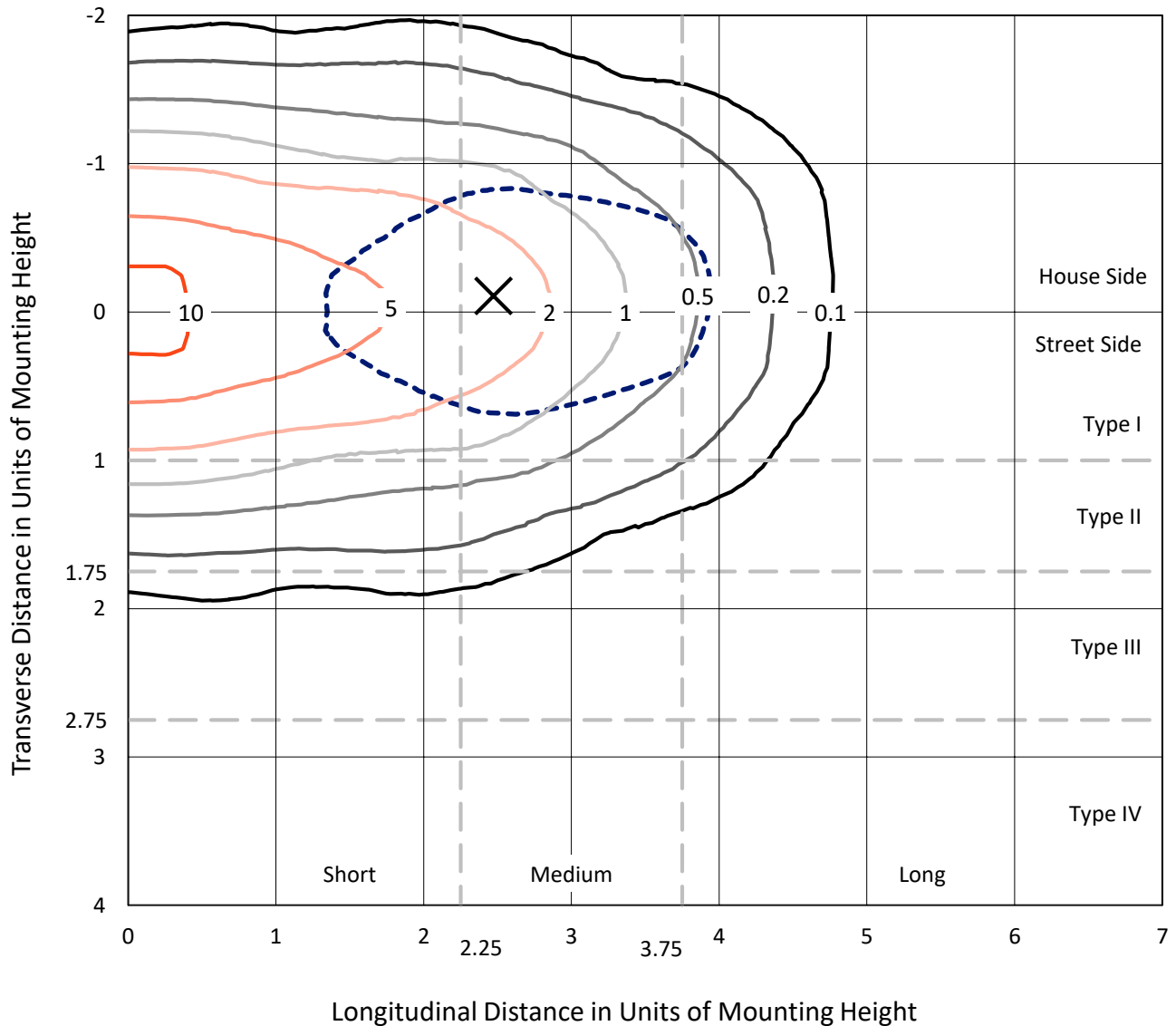
Input Watts (W): 54.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P159897
 CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

Iso-Footcandle Lines of Horizontal Illumination

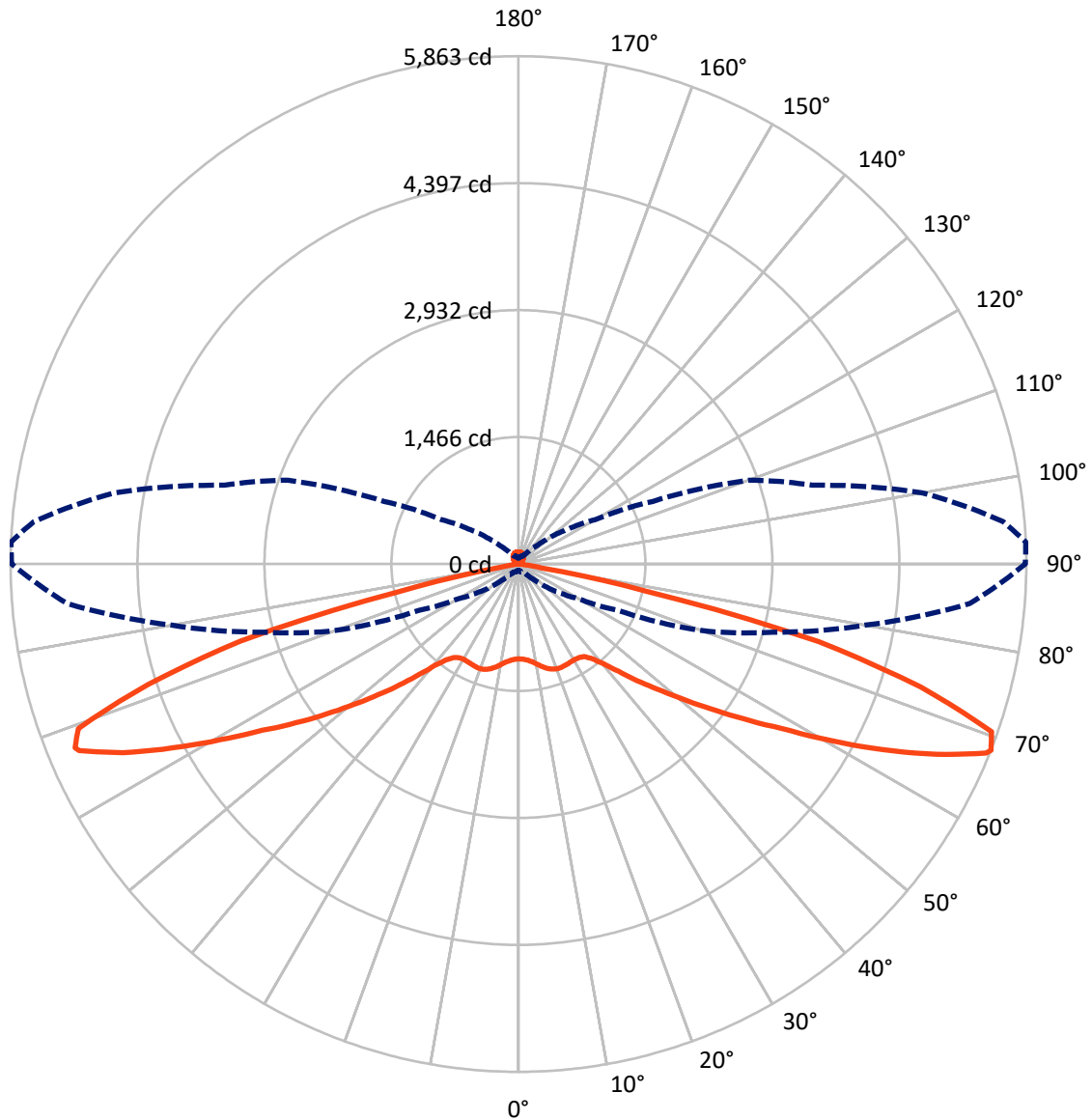
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type I - Short - Cutoff

REPORT NUMBER: P159897
CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

Luminous Intensity Polar Plot



— Vertical Plane Through 92.5-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P159897

CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

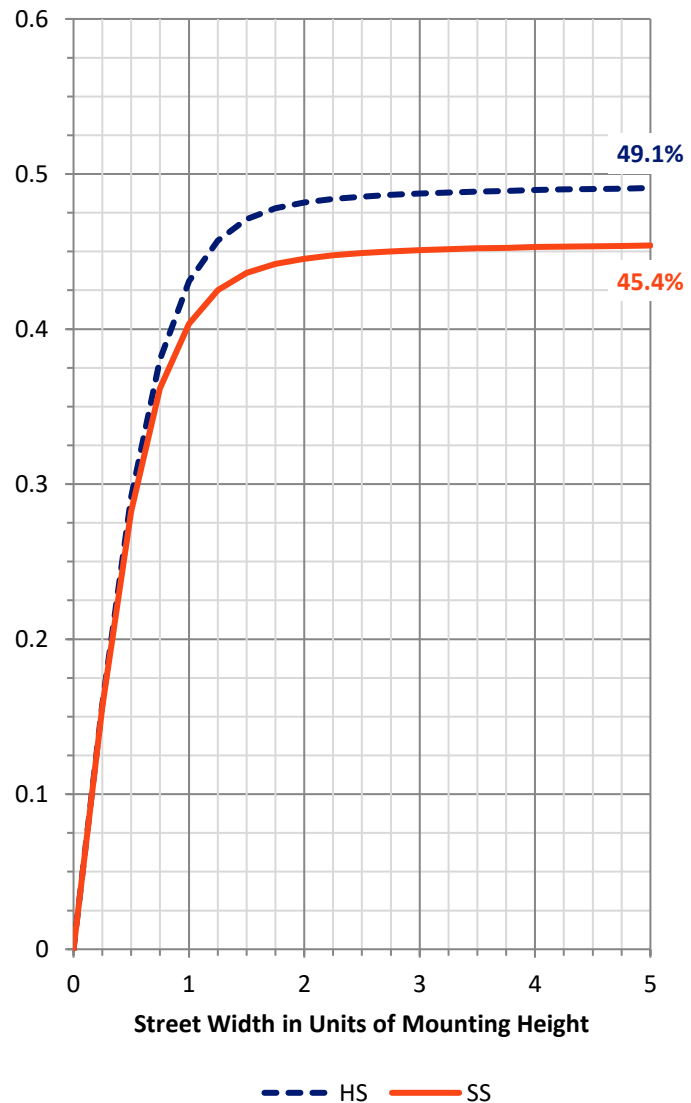
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2909.6	157.7	3067.3
	% Fixture	49.4	2.7	52.1
Street Side	Lumens	2660.1	157.7	2817.8
	% Fixture	45.2	2.7	47.9
Total	Lumens	5569.6	315.5	5885.1
	% Fixture	94.6	5.4	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.8
10°-20°	340.5	5.8
20°-30°	552.3	9.4
30°-40°	686.6	11.7
40°-50°	853.6	14.5
50°-60°	1050.1	17.8
60°-70°	1241.5	21.1
70°-80°	695.2	11.8
80°-90°	42.2	0.7
90°-100°	1.3	0.0
100°-110°	12.3	0.2
110°-120°	25.2	0.4
120°-130°	43.0	0.7
130°-140°	60.0	1.0
140°-150°	65.4	1.1
150°-160°	56.9	1.0
160°-170°	38.2	0.6
170°-180°	13.3	0.2
0°-90°	5569.6	94.6
0°-180°	5885.1	100.0



REPORT NUMBER: P159897

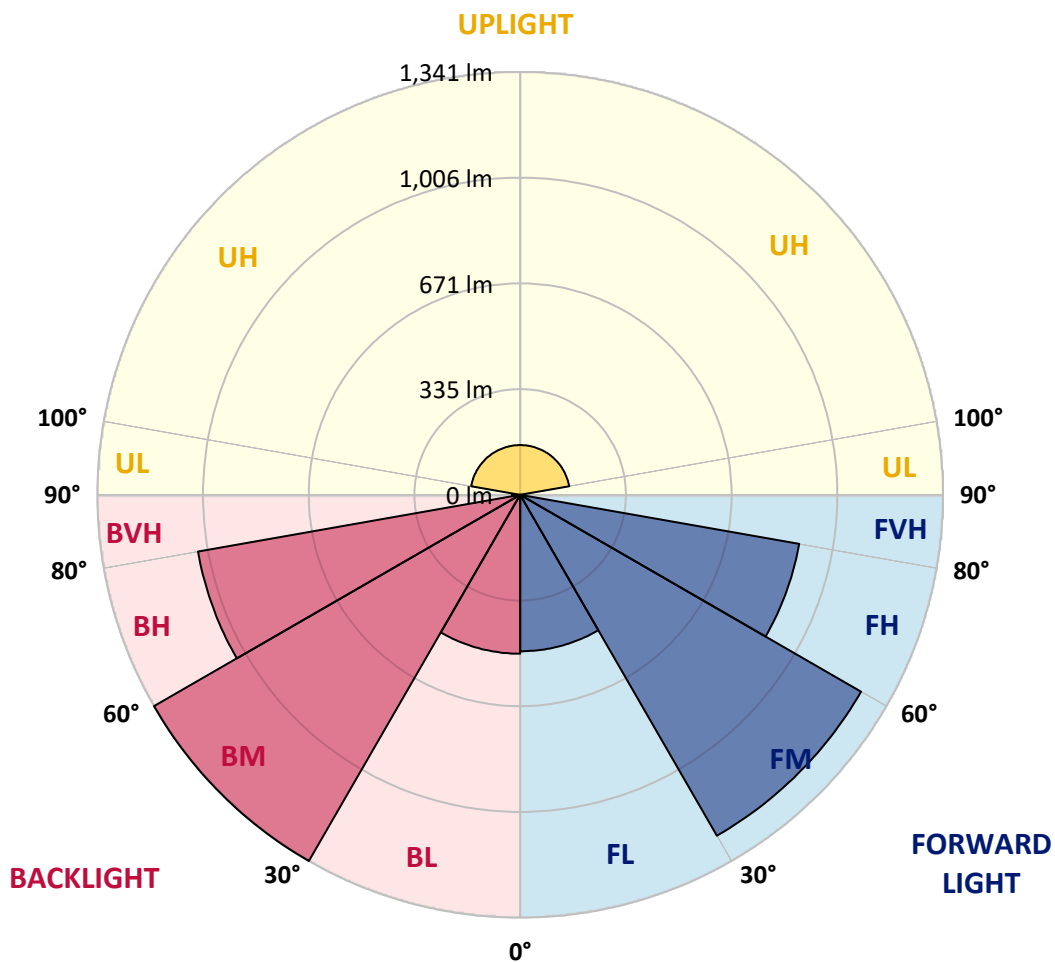
CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	496.3	8.4			
FM	(30°-60°)	1248.8	21.2			
FH	(60°-80°)	898.9	15.3			G1/1800
FVH	(80°-90°)	16.1	0.3			G1/100
BL	(0°-30°)	504.1	8.6	B2/1000		
BM	(30°-60°)	1341.4	22.8	B2/2500		
BH	(60°-80°)	1037.9	17.6	B3/2500		G3/2500
BVH	(80°-90°)	26.2	0.4			G1/100
UL	(90°-100°)	1.3	0.0		U1/10	
UH	(100°-180°)	157.7	2.7		U3/500	

BUG Rating: B3-U3-G3

Type I Short





REPORT NUMBER: P159897

CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0
2.5°	1100.0	1100.0	1100.0	1101.0	1102.0	1104.0	1103.0	1105.0	1102.0	1106.0	1106.0
5°	1113.0	1114.0	1115.0	1115.0	1117.0	1118.0	1117.0	1120.0	1117.0	1121.0	1122.0
7.5°	1125.0	1125.0	1126.0	1127.0	1129.0	1131.0	1132.0	1135.0	1134.0	1138.0	1142.0
10°	1134.0	1133.0	1134.0	1136.0	1141.0	1144.0	1148.0	1152.0	1154.0	1158.0	1164.0
12.5°	1138.0	1137.0	1140.0	1145.0	1150.0	1156.0	1162.0	1171.0	1177.0	1183.0	1192.0
15°	1136.0	1136.0	1140.0	1146.0	1156.0	1167.0	1178.0	1190.0	1201.0	1214.0	1223.0
17.5°	1117.0	1119.0	1125.0	1135.0	1150.0	1167.0	1185.0	1205.0	1223.0	1241.0	1253.0
20°	1083.0	1085.0	1096.0	1108.0	1128.0	1153.0	1181.0	1210.0	1238.0	1262.0	1279.0
22.5°	1041.0	1039.0	1049.0	1065.0	1092.0	1122.0	1158.0	1201.0	1239.0	1273.0	1297.0
25°	976.0	976.0	987.0	1007.0	1036.0	1073.0	1117.0	1172.0	1223.0	1267.0	1301.0
27.5°	907.0	908.0	922.0	939.0	972.0	1007.0	1058.0	1122.0	1184.0	1242.0	1292.0
30°	838.0	841.0	853.0	870.0	905.0	942.0	994.0	1057.0	1124.0	1196.0	1264.0
32.5°	767.0	771.0	781.0	801.0	839.0	880.0	933.0	989.0	1053.0	1132.0	1220.0
35°	700.0	703.0	711.0	735.0	774.0	818.0	877.0	931.0	996.0	1069.0	1166.0
37.5°	637.0	640.0	649.0	674.0	713.0	757.0	815.0	876.0	943.0	1015.0	1111.0
40°	569.0	576.0	588.0	612.0	648.0	698.0	757.0	821.0	892.0	974.0	1072.0
42.5°	507.0	513.0	524.0	545.0	581.0	634.0	696.0	762.0	839.0	932.0	1043.0
45°	450.0	455.0	466.0	485.0	523.0	565.0	621.0	690.0	770.0	877.0	1012.0
47.5°	395.0	400.0	412.0	435.0	466.0	507.0	557.0	618.0	692.0	801.0	953.0
50°	340.0	345.0	357.0	380.0	410.0	450.0	496.0	551.0	624.0	718.0	867.0
52.5°	280.0	285.0	297.0	320.0	349.0	387.0	434.0	491.0	559.0	648.0	771.0
55°	215.0	222.0	233.0	252.0	283.0	321.0	368.0	430.0	499.0	586.0	700.0
57.5°	155.0	160.0	173.0	188.0	214.0	254.0	296.0	360.0	437.0	526.0	639.0
60°	113.0	118.0	127.0	139.0	157.0	186.0	223.0	283.0	368.0	468.0	584.0
62.5°	94.0	98.0	107.0	119.0	129.0	143.0	165.0	211.0	294.0	405.0	527.0
65°	83.0	86.0	94.0	106.0	114.0	120.0	129.0	160.0	228.0	337.0	471.0
67.5°	74.0	77.0	83.0	93.0	102.0	105.0	110.0	131.0	179.0	274.0	412.0
68°	73.0	76.0	81.0	90.0	99.0	102.0	107.0	128.0	174.0	261.0	396.0
70°	68.0	70.0	75.0	82.0	89.0	91.0	97.0	118.0	163.0	228.0	321.0
72.5°	62.0	63.0	66.0	72.0	79.0	80.0	86.0	103.0	128.0	168.0	239.0
75°	52.0	53.0	57.0	62.0	66.0	68.0	70.0	78.0	87.0	104.0	141.0
77.5°	40.0	42.0	45.0	48.0	54.0	56.0	54.0	60.0	64.0	71.0	86.0
80°	24.0	24.0	27.0	30.0	33.0	38.0	36.0	42.0	45.0	49.0	58.0
82.5°	4.0	5.0	5.0	7.0	9.0	11.0	12.0	15.0	19.0	23.0	31.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	3.0
87.5°	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P159897

CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
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: P159897

CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	92.5°	95°	100°
0°	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0
2.5°	1100.0	1103.0	1103.0	1102.0	1102.0	1102.0	1099.0	1100.0	1101.0	1104.0	1100.0
5°	1116.0	1119.0	1118.0	1117.0	1117.0	1117.0	1113.0	1114.0	1115.0	1117.0	1113.0
7.5°	1137.0	1140.0	1141.0	1141.0	1141.0	1143.0	1137.0	1137.0	1139.0	1141.0	1135.0
10°	1168.0	1168.0	1171.0	1173.0	1175.0	1177.0	1173.0	1171.0	1175.0	1175.0	1168.0
12.5°	1197.0	1199.0	1204.0	1208.0	1209.0	1213.0	1213.0	1212.0	1215.0	1214.0	1206.0
15°	1230.0	1232.0	1236.0	1241.0	1242.0	1246.0	1246.0	1247.0	1250.0	1252.0	1240.0
17.5°	1261.0	1264.0	1264.0	1265.0	1267.0	1270.0	1272.0	1273.0	1276.0	1278.0	1266.0
20°	1287.0	1290.0	1285.0	1281.0	1277.0	1279.0	1283.0	1287.0	1289.0	1290.0	1275.0
22.5°	1307.0	1308.0	1300.0	1289.0	1278.0	1277.0	1282.0	1289.0	1291.0	1290.0	1269.0
25°	1318.0	1321.0	1313.0	1296.0	1276.0	1269.0	1274.0	1283.0	1287.0	1283.0	1258.0
27.5°	1318.0	1329.0	1325.0	1307.0	1280.0	1261.0	1264.0	1278.0	1281.0	1276.0	1247.0
30°	1308.0	1331.0	1336.0	1325.0	1297.0	1264.0	1260.0	1276.0	1280.0	1271.0	1242.0
32.5°	1288.0	1330.0	1350.0	1351.0	1329.0	1288.0	1268.0	1284.0	1287.0	1276.0	1252.0
35°	1260.0	1329.0	1368.0	1387.0	1380.0	1339.0	1304.0	1314.0	1312.0	1300.0	1291.0
37.5°	1229.0	1329.0	1394.0	1438.0	1454.0	1433.0	1387.0	1382.0	1387.0	1369.0	1364.0
40°	1195.0	1332.0	1431.0	1509.0	1557.0	1564.0	1523.0	1509.0	1515.0	1498.0	1505.0
42.5°	1175.0	1336.0	1480.0	1592.0	1685.0	1756.0	1738.0	1696.0	1693.0	1695.0	1710.0
45°	1165.0	1346.0	1529.0	1686.0	1816.0	1974.0	1991.0	1916.0	1920.0	1931.0	1954.0
47.5°	1154.0	1365.0	1586.0	1784.0	1959.0	2181.0	2264.0	2163.0	2155.0	2196.0	2203.0
50°	1114.0	1388.0	1651.0	1894.0	2109.0	2414.0	2545.0	2442.0	2444.0	2482.0	2468.0
52.5°	1022.0	1389.0	1720.0	2004.0	2259.0	2644.0	2843.0	2775.0	2770.0	2807.0	2733.0
55°	895.0	1326.0	1776.0	2112.0	2401.0	2858.0	3151.0	3166.0	3156.0	3162.0	3002.0
57.5°	793.0	1171.0	1782.0	2203.0	2521.0	3061.0	3467.0	3575.0	3576.0	3550.0	3266.0
60°	727.0	997.0	1704.0	2278.0	2661.0	3320.0	3879.0	4121.0	4135.0	4029.0	3619.0
62.5°	672.0	909.0	1543.0	2355.0	2822.0	3582.0	4323.0	4721.0	4722.0	4545.0	4008.0
65°	629.0	861.0	1366.0	2326.0	2946.0	3836.0	4793.0	5325.0	5299.0	5104.0	4377.0
67.5°	581.0	818.0	1284.0	2281.0	3052.0	4071.0	5207.0	5818.0	5825.0	5585.0	4719.0
68°	571.0	802.0	1263.0	2243.0	3040.0	4063.0	5229.0	5851.0	5863.0	5616.0	4734.0
70°	492.0	700.0	1099.0	1959.0	2824.0	3846.0	5089.0	5758.0	5795.0	5519.0	4567.0
72.5°	328.0	484.0	734.0	1384.0	2176.0	3056.0	4166.0	4823.0	4854.0	4668.0	3793.0
75°	208.0	294.0	390.0	798.0	1462.0	2193.0	3141.0	3524.0	3575.0	3514.0	2840.0
77.5°	126.0	206.0	240.0	387.0	770.0	1026.0	1419.0	1444.0	1502.0	1466.0	1472.0
80°	83.0	143.0	175.0	263.0	267.0	221.0	251.0	253.0	268.0	285.0	297.0
82.5°	47.0	87.0	122.0	180.0	159.0	82.0	70.0	73.0	75.0	77.0	91.0
85°	7.0	16.0	34.0	56.0	57.0	27.0	25.0	23.0	24.0	26.0	33.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	3.0	3.0	3.0	6.0	6.0
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



REPORT NUMBER: P159897

CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	92.5°	95°	100°
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8
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: P159897

CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0	1095.0
2.5°	1099.0	1098.0	1099.0	1096.0	1099.0	1098.0	1098.0	1098.0	1097.0	1098.0	1098.0
5°	1111.0	1111.0	1111.0	1109.0	1111.0	1111.0	1111.0	1111.0	1110.0	1111.0	1112.0
7.5°	1134.0	1134.0	1133.0	1130.0	1132.0	1132.0	1131.0	1129.0	1127.0	1128.0	1127.0
10°	1165.0	1167.0	1161.0	1161.0	1158.0	1154.0	1151.0	1148.0	1147.0	1145.0	1141.0
12.5°	1203.0	1202.0	1194.0	1191.0	1189.0	1181.0	1175.0	1172.0	1168.0	1163.0	1157.0
15°	1237.0	1233.0	1227.0	1224.0	1221.0	1212.0	1204.0	1197.0	1192.0	1185.0	1176.0
17.5°	1260.0	1256.0	1253.0	1252.0	1252.0	1244.0	1237.0	1228.0	1217.0	1204.0	1189.0
20°	1265.0	1265.0	1266.0	1272.0	1278.0	1275.0	1267.0	1256.0	1240.0	1219.0	1196.0
22.5°	1258.0	1262.0	1271.0	1286.0	1299.0	1300.0	1292.0	1276.0	1249.0	1219.0	1185.0
25°	1246.0	1257.0	1276.0	1297.0	1315.0	1315.0	1301.0	1278.0	1241.0	1198.0	1153.0
27.5°	1240.0	1262.0	1289.0	1311.0	1323.0	1316.0	1291.0	1258.0	1207.0	1152.0	1100.0
30°	1247.0	1281.0	1310.0	1325.0	1327.0	1304.0	1261.0	1212.0	1152.0	1086.0	1033.0
32.5°	1273.0	1314.0	1336.0	1339.0	1325.0	1282.0	1215.0	1147.0	1080.0	1019.0	965.0
35°	1326.0	1361.0	1369.0	1357.0	1322.0	1250.0	1154.0	1074.0	1014.0	956.0	900.0
37.5°	1412.0	1428.0	1413.0	1378.0	1312.0	1211.0	1098.0	1020.0	956.0	899.0	837.0
40°	1534.0	1516.0	1473.0	1404.0	1301.0	1168.0	1054.0	976.0	905.0	842.0	780.0
42.5°	1686.0	1623.0	1534.0	1434.0	1289.0	1140.0	1022.0	932.0	854.0	784.0	719.0
45°	1856.0	1739.0	1618.0	1468.0	1285.0	1123.0	984.0	878.0	787.0	717.0	653.0
47.5°	2029.0	1862.0	1703.0	1505.0	1290.0	1093.0	926.0	807.0	712.0	644.0	584.0
50°	2204.0	2000.0	1802.0	1553.0	1287.0	1032.0	847.0	726.0	638.0	577.0	523.0
52.5°	2380.0	2147.0	1904.0	1596.0	1247.0	936.0	760.0	657.0	572.0	513.0	460.0
55°	2553.0	2290.0	2004.0	1609.0	1131.0	835.0	687.0	588.0	504.0	444.0	386.0
57.5°	2717.0	2419.0	2074.0	1533.0	988.0	756.0	622.0	525.0	436.0	367.0	310.0
60°	2921.0	2542.0	2094.0	1349.0	874.0	690.0	563.0	452.0	352.0	279.0	227.0
62.5°	3144.0	2709.0	2063.0	1173.0	807.0	632.0	490.0	366.0	269.0	198.0	159.0
65°	3308.0	2778.0	1906.0	1079.0	765.0	575.0	412.0	284.0	186.0	136.0	121.0
67.5°	3526.0	2846.0	1744.0	1033.0	719.0	501.0	318.0	205.0	144.0	113.0	104.0
68°	3511.0	2827.0	1710.0	1021.0	705.0	475.0	300.0	201.0	140.0	110.0	101.0
70°	3308.0	2594.0	1485.0	905.0	584.0	370.0	258.0	183.0	129.0	100.0	92.0
72.5°	2714.0	2012.0	1065.0	596.0	380.0	271.0	191.0	138.0	107.0	88.0	82.0
75°	1921.0	1258.0	534.0	343.0	239.0	157.0	108.0	89.0	79.0	70.0	70.0
77.5°	1080.0	658.0	282.0	235.0	135.0	91.0	72.0	67.0	62.0	57.0	63.0
80°	352.0	343.0	208.0	161.0	94.0	67.0	56.0	53.0	50.0	45.0	56.0
82.5°	190.0	235.0	150.0	115.0	69.0	48.0	42.0	43.0	39.0	35.0	42.0
85°	85.0	112.0	100.0	80.0	43.0	27.0	22.0	26.0	23.0	21.0	20.0
87.5°	33.0	55.0	40.0	23.0	10.0	6.0	6.0	5.0	4.0	4.0	3.0
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



REPORT NUMBER: P159897
 CATALOG NUMBER: ENC-E02-LED-E1-GZW-ULG

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.8	0°
112.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	2.5°
115°	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	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	7.5°
120°	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	34.8	10°
122.5°	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	40.9	12.5°
125°	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	47.8	15°
127.5°	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	55.3	17.5°
130°	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.0	20°
132.5°	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	22.5°
135°	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	25°
137.5°	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	27.5°
140°	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	30°
142.5°	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	32.5°
145°	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	104.9	35°
147.5°	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	110.1	37.5°
150°	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	115.1	40°
152.5°	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	119.7	42.5°
155°	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	123.7	45°
157.5°	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	127.0	47.5°
160°	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	130.3	50°
162.5°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	52.5°
165°	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	136.0	55°
167.5°	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	137.1	57.5°
170°	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	137.4	60°
172.5°	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	138.6	62.5°
175°	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	140.5	65°
177.5°	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	141.1	67.5°
180°	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	140.8	68°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°

NUMBER: P159897
 NUMBER: ENC-E02-LED-E1-GZW-ULG

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
1095.0	1095.0	1095.0	1095.0	1095.0
1095.0	1095.0	1094.0	1093.0	1091.0
1109.0	1109.0	1108.0	1107.0	1105.0
1124.0	1123.0	1122.0	1121.0	1119.0
1140.0	1138.0	1138.0	1139.0	1138.0
1156.0	1153.0	1150.0	1149.0	1152.0
1172.0	1166.0	1161.0	1160.0	1160.0
1181.0	1171.0	1162.0	1159.0	1159.0
1179.0	1161.0	1149.0	1143.0	1144.0
1160.0	1135.0	1119.0	1111.0	1108.0
1120.0	1090.0	1070.0	1059.0	1060.0
1060.0	1028.0	1006.0	1000.0	994.0
989.0	957.0	935.0	922.0	923.0
919.0	884.0	864.0	849.0	847.0
852.0	814.0	790.0	779.0	777.0
786.0	746.0	724.0	714.0	707.0
725.0	689.0	663.0	648.0	645.0
665.0	624.0	598.0	587.0	584.0
597.0	558.0	535.0	526.0	524.0
536.0	499.0	480.0	468.0	464.0
477.0	442.0	420.0	409.0	407.0
415.0	380.0	357.0	348.0	340.0
347.0	310.0	287.0	271.0	265.0
268.0	235.0	211.0	200.0	189.0
192.0	163.0	144.0	135.0	127.0
136.0	117.0	105.0	96.0	91.0
112.0	103.0	90.0	82.0	78.0
99.0	90.0	80.0	73.0	70.0
97.0	88.0	78.0	71.0	69.0
89.0	80.0	71.0	66.0	64.0
79.0	72.0	64.0	59.0	57.0
68.0	61.0	56.0	52.0	49.0
60.0	50.0	48.0	44.0	42.0
50.0	45.0	41.0	38.0	36.0
41.0	34.0	29.0	26.0	25.0
23.0	21.0	17.0	13.0	12.0
2.0	1.0	1.0	0.0	0.0
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
1.5	1.5	1.5	1.5	1.5
5.0	5.0	5.0	5.0	5.0
8.8	8.8	8.8	8.8	8.8
11.8	11.8	11.8	11.8	11.8
14.7	14.7	14.7	14.7	14.7

CANDELA DISTRIBUTION:

	160°
110°	17.8
112.5°	21.2
115°	25.0
117.5°	29.5
120°	34.8
122.5°	40.9
125°	47.8
127.5°	55.3
130°	63.0
132.5°	70.5
135°	77.9
137.5°	85.3
140°	92.5
142.5°	99.2
145°	104.9
147.5°	110.1
150°	115.1
152.5°	119.7
155°	123.7
157.5°	127.0
160°	130.3
162.5°	133.5
165°	136.0
167.5°	137.1
170°	137.4
172.5°	138.6
175°	140.5
177.5°	141.1
180°	140.8

'159897

ENC-E02-LED-E1-GZW-ULG

TION (continued):

165°	170°	175°	180°
17.8	17.8	17.8	17.8
21.2	21.2	21.2	21.2
25.0	25.0	25.0	25.0
29.5	29.5	29.5	29.5
34.8	34.8	34.8	34.8
40.9	40.9	40.9	40.9
47.8	47.8	47.8	47.8
55.3	55.3	55.3	55.3
63.0	63.0	63.0	63.0
70.5	70.5	70.5	70.5
77.9	77.9	77.9	77.9
85.3	85.3	85.3	85.3
92.5	92.5	92.5	92.5
99.2	99.2	99.2	99.2
104.9	104.9	104.9	104.9
110.1	110.1	110.1	110.1
115.1	115.1	115.1	115.1
119.7	119.7	119.7	119.7
123.7	123.7	123.7	123.7
127.0	127.0	127.0	127.0
130.3	130.3	130.3	130.3
133.5	133.5	133.5	133.5
136.0	136.0	136.0	136.0
137.1	137.1	137.1	137.1
137.4	137.4	137.4	137.4
138.6	138.6	138.6	138.6
140.5	140.5	140.5	140.5
141.1	141.1	141.1	141.1
140.8	140.8	140.8	140.8

(END OF REPORT)