

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: CORELITE

Report Number: P257068

Luminaire Tested: **HGL-S-UF-40L940-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-13)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-UF-40L940-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3081.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.32 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

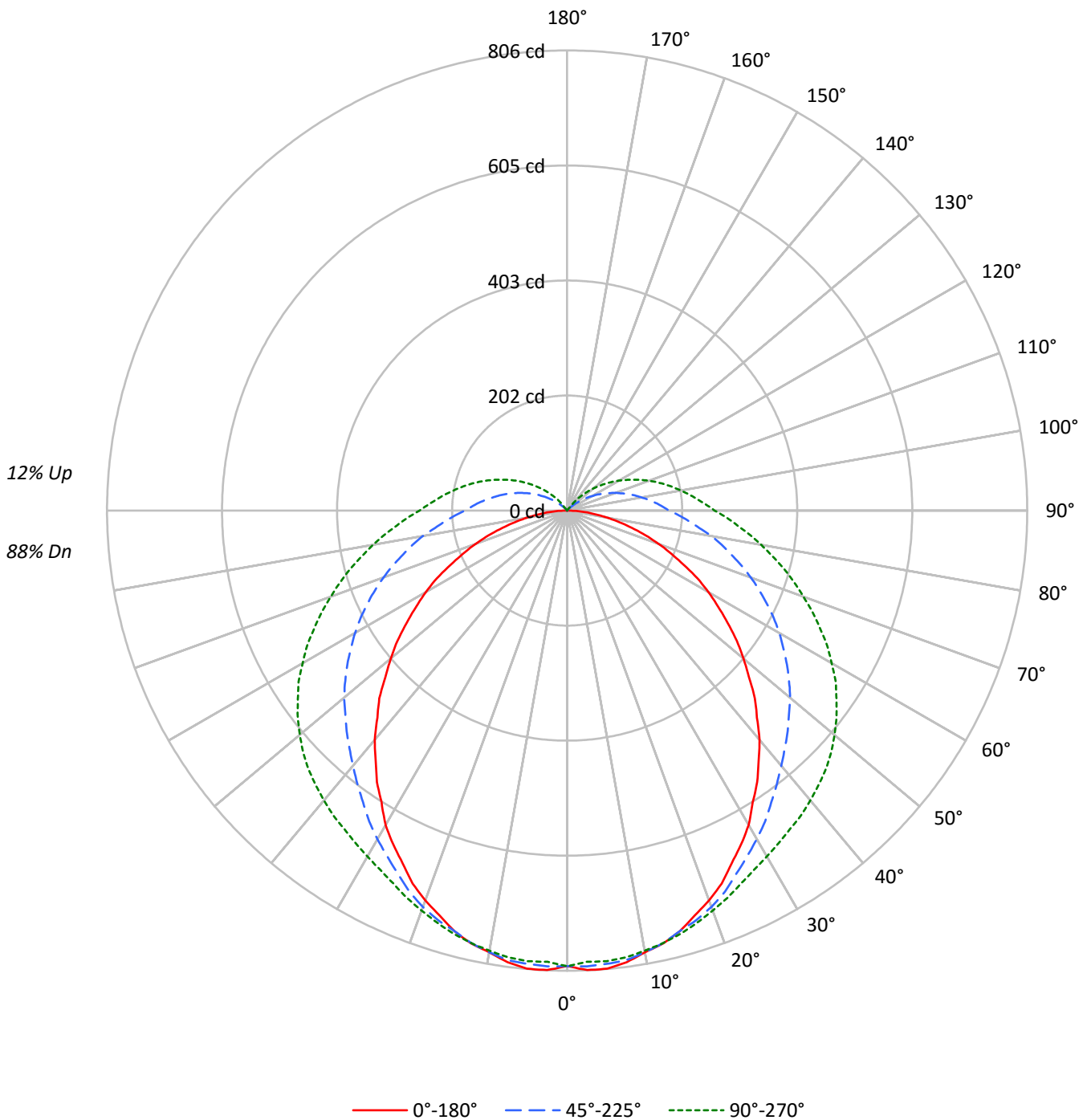
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257068

CATALOG NUMBER: HGL-S-UF-40L940-UNV-4

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	91	91	91	88																				
1	103	97	92	87	99	94	89	85	87	84	80	81	78	75	76	73	71	68																				
2	93	84	76	69	89	81	73	67	75	69	64	70	65	61	65	61	58	55																				
3	84	73	64	56	81	70	62	55	65	58	53	61	55	50	57	52	48	45																				
4	77	64	54	47	73	62	53	46	58	50	44	54	48	42	50	45	41	38																				
5	70	57	47	40	67	55	46	39	51	44	38	48	42	36	45	39	35	32																				
6	65	51	42	35	62	49	41	34	46	39	33	43	37	32	41	35	31	28																				
7	60	46	37	31	58	45	36	30	42	34	29	39	33	28	37	31	27	25																				
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	28	24	22																				
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	31	26	22	20																				
10	49	35	27	22	47	34	27	22	33	26	21	31	25	20	29	24	20	18																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9369	9369	9369
5°	9473	9123	8981
10°	9323	8836	8640
15°	9206	8497	8316
20°	8992	8216	7993
25°	8725	7847	7705
30°	8494	7531	7515
35°	8174	7220	7402
40°	7865	6959	7351
45°	7529	6770	7314
50°	7144	6631	7241
55°	6774	6478	7148
60°	6427	6342	7027
65°	5921	6205	6880
70°	5466	6076	6723
75°	4850	5949	6609
80°	4154	5923	6522
85°	3270	5917	6509



TEST NUMBER: P257068

CATALOG NUMBER: HGL-S-UF-40L940-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	2.5
10°-20°	214.9	7.0
20°-30°	322.4	10.5
30°-40°	391.5	12.7
40°-50°	422.9	13.7
50°-60°	414.1	13.4
60°-70°	367.3	11.9
70°-80°	294.2	9.5
80°-90°	213.2	6.9
90°-100°	150.3	4.9
100°-110°	104.8	3.4
110°-120°	64.9	2.1
120°-130°	33.0	1.1
130°-140°	11.4	0.4
140°-150°	0.5	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	612.9	19.9
0°-40°	1004.4	32.6
0°-60°	1841.4	59.8
0°-90°	2716.2	88.2
90°-120°	320.0	10.4
90°-150°	365.0	11.8
90°-180°	365.0	11.8
0°-180°	3081.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	798	798	798	798	798	
5°	806	798	797	793	792	76
15°	763	757	763	769	767	214
25°	682	684	702	713	721	315
35°	581	584	624	661	681	363
45°	465	478	546	614	641	357
55°	343	372	470	547	576	308
65°	225	278	386	460	489	225
75°	117	192	297	369	393	125
85°	32	117	214	278	299	34
90°	1	86	178	237	258	2
95°	0	68	155	211	229	0
105°	0	36	112	161	177	0
115°	0	11	70	113	128	0
125°	0	0	34	70	82	0
135°	0	0	6	30	40	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P257068

CATALOG NUMBER: HGL-S-UF-40L940-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9
2.5°	805.5	804.6	801.7	798.9	797.9	797.9	797.0	796.0	796.0	795.1	798.9
5°	805.5	804.6	801.7	797.9	797.0	797.9	797.0	795.1	795.1	794.1	797.0
7.5°	797.9	796.0	794.1	791.2	790.3	790.3	789.3	789.3	789.3	789.3	794.1
10°	785.5	784.6	782.7	779.8	779.8	778.8	778.8	779.8	779.8	780.8	785.5
12.5°	776.9	775.0	772.2	769.3	768.4	768.4	767.4	766.5	767.4	768.4	776.0
15°	762.6	761.7	759.8	756.9	756.9	756.9	756.9	756.0	756.0	756.9	762.6
17.5°	743.6	741.7	740.7	738.8	739.8	740.7	741.7	740.7	742.6	745.5	752.2
20°	726.4	724.5	722.6	719.7	719.7	720.7	721.6	721.6	726.4	730.2	738.8
22.5°	707.3	706.4	704.5	703.5	703.5	704.5	704.5	702.6	705.4	711.2	722.6
25°	681.6	680.7	679.7	679.7	681.6	683.5	684.5	685.4	688.3	692.1	701.6
27.5°	659.7	658.7	656.8	654.9	656.8	658.7	659.7	661.6	667.3	674.9	682.6
30°	635.9	634.9	633.9	633.9	635.9	636.8	637.8	636.8	644.4	655.9	664.4
32.5°	605.3	604.4	605.3	605.3	610.1	613.0	614.9	615.8	622.5	633.0	645.4
35°	580.6	580.6	579.6	581.5	582.5	584.4	586.3	591.0	600.6	611.1	623.5
37.5°	551.0	551.0	551.0	555.8	559.6	560.5	561.5	567.2	579.6	590.1	603.4
40°	524.3	524.3	524.3	526.2	529.1	531.9	535.8	542.4	554.8	570.1	583.4
42.5°	491.9	492.9	494.8	499.5	503.3	505.2	508.1	518.6	531.9	550.1	564.4
45°	465.2	464.3	466.2	470.0	473.8	477.6	482.4	493.8	510.0	530.0	546.2
47.5°	431.8	432.8	434.7	441.4	446.1	450.9	456.6	470.0	489.0	509.1	527.2
50°	403.2	404.2	409.0	412.8	417.5	423.3	429.9	447.1	468.1	488.1	510.0
52.5°	374.6	375.6	379.4	382.3	389.9	396.6	405.2	424.2	446.1	468.1	490.0
55°	343.2	345.1	348.0	354.6	364.2	371.8	381.3	402.3	424.2	448.1	470.0
57.5°	313.6	314.6	319.4	326.0	337.5	347.0	358.4	380.4	404.2	427.1	449.0
60°	286.0	287.9	290.8	299.3	314.6	324.1	335.6	358.4	383.2	406.1	429.0
62.5°	257.4	259.3	263.1	272.6	290.8	301.2	313.6	337.5	362.3	385.1	408.0
65°	225.0	226.9	232.6	245.0	266.9	278.4	290.8	315.5	339.4	363.2	386.1
67.5°	197.3	198.3	205.9	219.3	242.1	256.4	269.8	293.6	317.4	341.3	364.2
70°	170.6	172.5	178.3	196.4	221.2	232.6	246.9	272.6	296.5	320.3	342.2
72.5°	143.9	145.9	154.4	174.5	200.2	212.6	224.0	251.7	275.5	298.4	320.3
75°	117.3	120.1	131.6	154.4	179.2	191.6	204.0	228.8	254.5	276.5	297.4
77.5°	93.4	96.3	110.6	134.4	159.2	171.6	184.0	207.8	231.7	255.5	277.4
80°	70.5	74.4	91.5	115.3	140.1	152.5	164.0	188.8	211.6	233.6	256.4
82.5°	50.5	55.3	75.3	98.2	123.0	134.4	145.9	169.7	192.6	213.5	233.6
85°	31.5	40.0	60.1	82.0	105.8	117.3	128.7	152.5	174.5	195.4	214.5
87.5°	15.3	26.7	45.8	66.7	89.6	101.0	112.5	135.4	156.3	177.3	196.4
90°	1.0	15.3	32.4	52.4	75.3	85.8	97.2	119.2	140.1	160.2	178.3
92.5°	0.0	9.5	25.7	44.8	65.8	77.2	87.7	109.6	129.6	149.7	166.8
95°	0.0	4.8	20.0	38.1	58.2	67.7	78.2	99.1	119.2	138.2	155.4
97.5°	0.0	1.0	14.3	30.5	49.6	60.1	69.6	89.6	109.6	127.7	143.9
100°	0.0	0.0	9.5	24.8	41.9	51.5	61.0	80.1	99.1	116.3	132.5
102.5°	0.0	0.0	4.8	19.1	35.3	43.9	52.4	71.5	89.6	106.8	122.0
105°	0.0	0.0	1.0	13.3	28.6	36.2	44.8	62.0	80.1	96.3	111.5
107.5°	0.0	0.0	0.0	7.6	21.9	29.6	37.2	53.4	70.5	85.8	100.1
110°	0.0	0.0	0.0	3.8	16.2	22.9	30.5	45.8	61.0	76.3	90.6



TEST NUMBER: P257068

CATALOG NUMBER: HGL-S-UF-40L940-UNV-4

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	1.0	10.5	17.2	23.8	38.1	52.4	66.7	80.1
115°	0.0	0.0	0.0	0.0	5.7	11.4	17.2	30.5	43.9	58.2	70.5
117.5°	0.0	0.0	0.0	0.0	1.9	6.7	11.4	23.8	36.2	48.6	61.0
120°	0.0	0.0	0.0	0.0	0.0	2.9	6.7	17.2	28.6	40.0	51.5
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.9	10.5	21.0	32.4	42.9
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	14.3	24.8	34.3
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	8.6	17.2	25.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	10.5	18.1
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	5.7	11.4
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.7
137.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
140°	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P257068

CATALOG NUMBER: HGL-S-UF-40L940-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9	797.9
2.5°	801.7	797.9	797.9	797.0	796.0	795.1	793.1	792.2	790.3	791.2
5°	799.8	796.0	796.0	794.1	793.1	793.1	792.2	792.2	791.2	792.2
7.5°	797.0	792.2	792.2	790.3	789.3	788.4	788.4	788.4	788.4	789.3
10°	789.3	786.5	786.5	785.5	784.6	782.7	781.7	782.7	781.7	782.7
12.5°	778.8	776.0	777.9	777.9	777.9	776.0	775.0	776.0	775.0	776.0
15°	765.5	764.5	767.4	768.4	769.3	768.4	767.4	767.4	767.4	767.4
17.5°	752.2	751.2	755.0	756.9	756.9	756.9	756.9	756.0	756.0	756.9
20°	740.7	736.9	738.8	742.6	743.6	743.6	744.5	745.5	745.5	745.5
22.5°	724.5	722.6	723.6	726.4	728.3	729.3	732.1	732.1	733.1	734.0
25°	705.4	708.3	709.3	712.1	713.1	715.0	718.8	720.7	720.7	720.7
27.5°	685.4	691.1	695.0	696.9	698.8	700.7	705.4	709.3	709.3	709.3
30°	666.4	672.1	679.7	683.5	685.4	687.3	694.0	698.8	699.7	699.7
32.5°	646.3	654.0	665.4	671.1	672.1	674.9	683.5	689.2	690.2	690.2
35°	629.2	638.7	651.1	658.7	660.6	663.5	673.0	679.7	680.7	680.7
37.5°	613.9	623.5	636.8	647.3	649.2	653.0	662.5	671.1	672.1	673.0
40°	596.8	608.2	621.6	633.9	637.8	641.6	652.1	660.6	662.5	662.5
42.5°	579.6	593.9	607.3	621.6	626.3	630.1	641.6	650.1	652.1	652.1
45°	561.5	579.6	593.0	608.2	613.9	617.7	628.2	637.8	640.6	640.6
47.5°	545.3	564.4	577.7	593.0	598.7	604.4	613.9	623.5	626.3	627.3
50°	527.2	548.1	561.5	575.8	583.4	589.1	598.7	609.2	612.0	611.1
52.5°	509.1	529.1	543.4	558.6	566.3	572.0	580.6	592.0	594.9	594.9
55°	490.0	510.0	525.3	539.6	547.2	554.8	563.4	572.9	576.7	575.8
57.5°	470.9	489.0	505.2	520.5	527.2	534.8	543.4	552.9	555.8	557.7
60°	450.9	467.1	485.2	499.5	506.2	513.8	522.4	531.0	535.8	534.8
62.5°	429.0	447.1	464.3	477.6	484.3	491.9	500.5	508.1	511.9	513.8
65°	407.1	424.2	440.4	454.7	460.4	468.1	477.6	483.3	488.1	489.0
67.5°	384.2	401.3	417.5	432.8	438.5	445.2	453.8	459.5	464.3	465.2
70°	361.3	379.4	395.6	409.9	415.6	421.4	429.9	435.7	440.4	440.4
72.5°	339.4	357.5	372.7	387.0	392.8	397.5	406.1	411.8	415.6	416.6
75°	317.4	334.6	349.9	364.2	368.9	374.6	382.3	388.0	391.8	392.8
77.5°	295.5	313.6	327.9	341.3	346.0	350.8	359.4	364.2	368.0	368.0
80°	274.6	291.7	306.0	318.4	322.2	327.9	335.6	340.3	343.2	345.1
82.5°	254.5	270.7	284.1	295.5	301.2	305.1	312.7	317.4	320.3	322.2
85°	232.6	249.8	263.1	274.6	278.4	284.1	290.8	295.5	298.4	299.3
87.5°	212.6	227.8	241.2	254.5	259.3	263.1	269.8	274.6	277.4	279.3
90°	195.4	209.7	222.1	232.6	237.4	242.1	249.8	254.5	257.4	258.3
92.5°	183.0	197.3	208.8	219.3	224.0	227.8	234.5	239.3	242.1	243.1
95°	171.6	184.9	196.4	206.9	210.7	214.5	221.2	225.0	226.9	228.8
97.5°	159.2	173.5	184.0	193.5	198.3	201.1	207.8	211.6	214.5	215.4
100°	147.8	161.1	171.6	182.1	185.9	188.8	195.4	199.2	201.1	202.1
102.5°	136.3	149.7	160.2	169.7	173.5	176.4	182.1	185.9	188.8	189.7
105°	124.9	137.3	147.8	157.3	161.1	164.0	169.7	173.5	176.4	177.3
107.5°	114.4	125.8	136.3	144.9	148.7	151.6	157.3	161.1	164.0	164.9
110°	103.9	114.4	124.9	133.5	137.3	140.1	145.9	148.7	151.6	152.5



TEST NUMBER: P257068

CATALOG NUMBER: HGL-S-UF-40L940-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	92.5	103.9	113.4	122.0	124.9	128.7	133.5	137.3	139.2	140.1
115°	82.9	93.4	102.0	110.6	113.4	116.3	122.0	124.9	127.7	127.7
117.5°	72.5	82.0	91.5	99.1	102.0	104.9	110.6	113.4	115.3	116.3
120°	62.9	71.5	80.1	87.7	91.5	93.4	99.1	102.0	103.9	104.9
122.5°	53.4	62.0	70.5	77.2	80.1	82.9	87.7	90.6	92.5	93.4
125°	43.9	52.4	60.1	66.7	69.6	72.5	76.3	79.1	81.0	82.0
127.5°	35.3	42.9	50.5	56.2	59.1	62.0	65.8	68.6	70.5	71.5
130°	26.7	33.4	41.0	46.7	49.6	51.5	55.3	58.2	60.1	61.0
132.5°	18.1	24.8	31.5	37.2	40.0	41.9	45.8	47.7	49.6	50.5
135°	11.4	17.2	22.9	27.6	30.5	32.4	36.2	38.1	40.0	40.0
137.5°	5.7	10.5	15.3	19.1	21.0	23.8	26.7	28.6	29.6	30.5
140°	1.9	4.8	8.6	11.4	13.3	15.3	18.1	20.0	21.0	21.9
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)