

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: P257067

Luminaire Tested: **HGL-S-UF-30L940-UNV-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257067  
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-30L940-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: 2439.6 lumens  
Efficiency: N/A  
Efficacy: 104.7 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

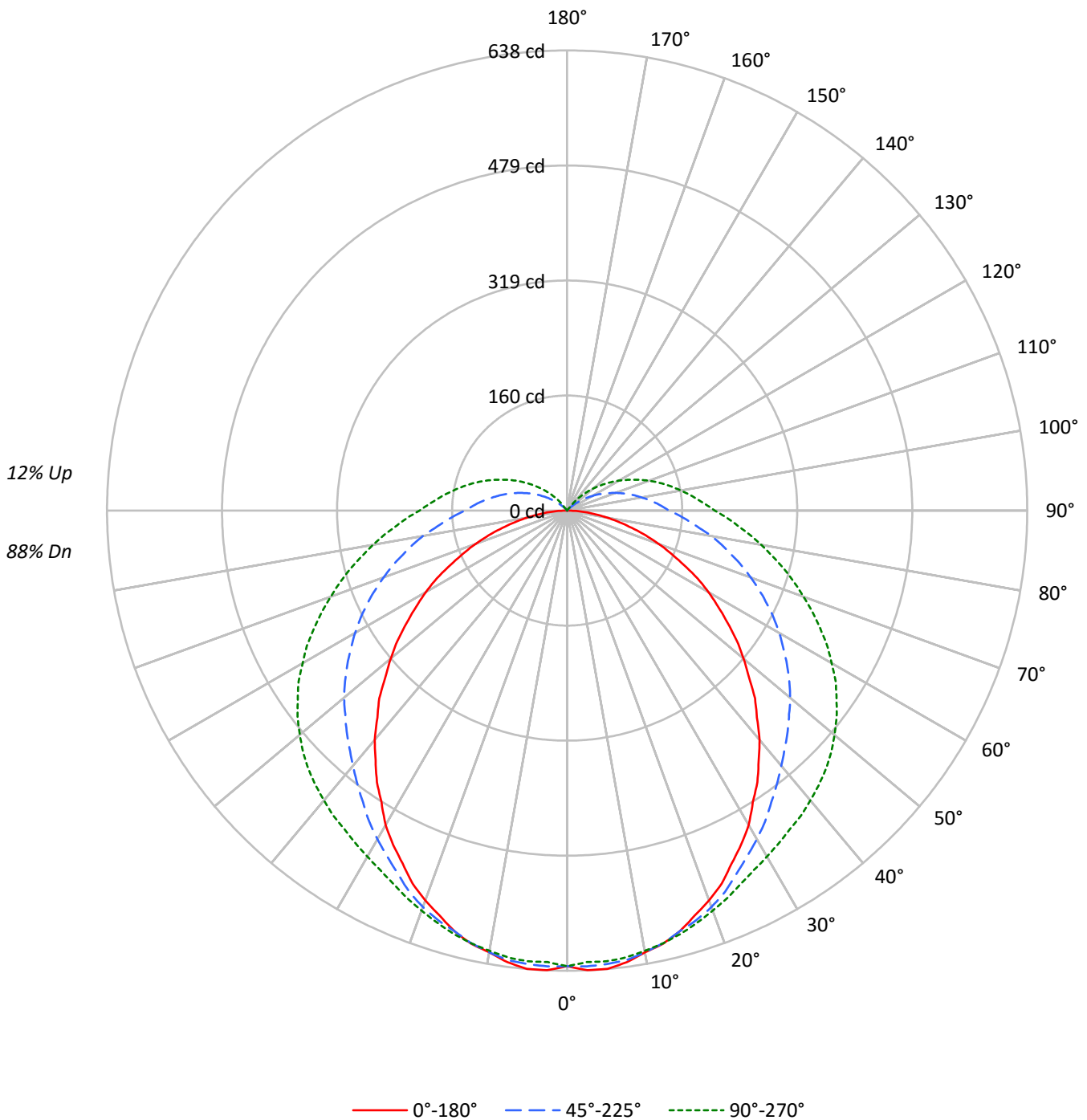
Input Watts (W): 23.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	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°	7418	7418	7418
5°	7501	7223	7110
10°	7381	6996	6841
15°	7289	6728	6584
20°	7119	6506	6328
25°	6909	6213	6100
30°	6724	5963	5950
35°	6472	5716	5860
40°	6227	5509	5821
45°	5961	5361	5791
50°	5657	5250	5733
55°	5363	5129	5659
60°	5087	5020	5563
65°	4687	4913	5448
70°	4329	4812	5323
75°	3837	4710	5233
80°	3294	4689	5164
85°	2585	4684	5154



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CATALOG NUMBER: HGL-S-UF-30L940-UNV-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.8	2.5
10°-20°	170.2	7.0
20°-30°	255.3	10.5
30°-40°	310.0	12.7
40°-50°	334.8	13.7
50°-60°	327.9	13.4
60°-70°	290.8	11.9
70°-80°	233.0	9.5
80°-90°	168.8	6.9
90°-100°	119.0	4.9
100°-110°	83.0	3.4
110°-120°	51.4	2.1
120°-130°	26.1	1.1
130°-140°	9.1	0.4
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	485.3	19.9
0°-40°	795.2	32.6
0°-60°	1457.9	59.8
0°-90°	2150.6	88.2
90°-120°	253.4	10.4
90°-150°	289.0	11.8
90°-180°	289.0	11.8
0°-180°	2439.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	632	632	632	632	632	
5°	638	632	631	628	627	60
15°	604	599	604	609	608	170
25°	540	541	556	565	571	249
35°	460	463	494	523	539	287
45°	368	378	432	486	507	283
55°	272	294	372	433	456	244
65°	178	220	306	365	387	178
75°	93	152	236	292	311	99
85°	25	93	170	220	237	27
90°	1	68	141	188	204	2
95°	0	54	123	167	181	0
105°	0	29	88	128	140	0
115°	0	9	56	90	101	0
125°	0	0	27	55	65	0
135°	0	0	4	24	32	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: P257067

CATALOG NUMBER: HGL-S-UF-30L940-UNV-4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
2.5°	637.8	637.0	634.8	632.5	631.7	631.7	631.0	630.2	630.2	629.5	632.5
5°	637.8	637.0	634.8	631.7	631.0	631.7	631.0	629.5	629.5	628.7	631.0
7.5°	631.7	630.2	628.7	626.5	625.7	625.7	625.0	625.0	625.0	625.0	628.7
10°	621.9	621.2	619.7	617.4	617.4	616.7	616.7	617.4	617.4	618.2	621.9
12.5°	615.1	613.6	611.4	609.1	608.4	608.4	607.6	606.8	607.6	608.4	614.4
15°	603.8	603.1	601.6	599.3	599.3	599.3	599.3	598.5	598.5	599.3	603.8
17.5°	588.7	587.2	586.5	585.0	585.7	586.5	587.2	586.5	588.0	590.2	595.5
20°	575.1	573.6	572.1	569.9	569.9	570.6	571.4	571.4	575.1	578.2	585.0
22.5°	560.0	559.3	557.8	557.0	557.0	557.8	557.8	556.3	558.5	563.1	572.1
25°	539.7	538.9	538.2	538.2	539.7	541.2	541.9	542.7	544.9	548.0	555.5
27.5°	522.3	521.6	520.0	518.5	520.0	521.6	522.3	523.8	528.3	534.4	540.4
30°	503.4	502.7	501.9	501.9	503.4	504.2	504.9	504.2	510.2	519.3	526.1
32.5°	479.3	478.5	479.3	479.3	483.1	485.3	486.8	487.6	492.9	501.2	511.0
35°	459.7	459.7	458.9	460.4	461.2	462.7	464.2	468.0	475.5	483.8	493.6
37.5°	436.3	436.3	436.3	440.0	443.1	443.8	444.6	449.1	458.9	467.2	477.8
40°	415.1	415.1	415.1	416.6	418.9	421.2	424.2	429.5	439.3	451.4	461.9
42.5°	389.5	390.2	391.7	395.5	398.5	400.0	402.3	410.6	421.2	435.5	446.8
45°	368.3	367.6	369.1	372.1	375.1	378.1	381.9	391.0	403.8	419.7	432.5
47.5°	341.9	342.7	344.2	349.5	353.2	357.0	361.5	372.1	387.2	403.1	417.4
50°	319.3	320.0	323.8	326.8	330.6	335.1	340.4	354.0	370.6	386.4	403.8
52.5°	296.6	297.4	300.4	302.7	308.7	314.0	320.8	335.9	353.2	370.6	388.0
55°	271.7	273.2	275.5	280.8	288.3	294.4	301.9	318.5	335.9	354.7	372.1
57.5°	248.3	249.1	252.9	258.1	267.2	274.7	283.8	301.2	320.0	338.1	355.5
60°	226.4	227.9	230.2	237.0	249.1	256.6	265.7	283.8	303.4	321.5	339.6
62.5°	203.8	205.3	208.3	215.9	230.2	238.5	248.3	267.2	286.8	304.9	323.0
65°	178.1	179.6	184.2	194.0	211.3	220.4	230.2	249.8	268.7	287.6	305.7
67.5°	156.2	157.0	163.0	173.6	191.7	203.0	213.6	232.5	251.3	270.2	288.3
70°	135.1	136.6	141.1	155.5	175.1	184.2	195.5	215.9	234.7	253.6	271.0
72.5°	114.0	115.5	122.3	138.1	158.5	168.3	177.4	199.3	218.1	236.2	253.6
75°	92.8	95.1	104.2	122.3	141.9	151.7	161.5	181.1	201.5	218.9	235.5
77.5°	74.0	76.2	87.6	106.4	126.0	135.9	145.7	164.5	183.4	202.3	219.6
80°	55.9	58.9	72.5	91.3	111.0	120.8	129.8	149.4	167.6	184.9	203.0
82.5°	40.0	43.8	59.6	77.7	97.4	106.4	115.5	134.4	152.5	169.1	184.9
85°	24.9	31.7	47.6	64.9	83.8	92.8	101.9	120.8	138.1	154.7	169.8
87.5°	12.1	21.1	36.2	52.8	70.9	80.0	89.1	107.2	123.8	140.4	155.5
90°	0.8	12.1	25.7	41.5	59.6	67.9	77.0	94.3	111.0	126.8	141.1
92.5°	0.0	7.5	20.4	35.5	52.1	61.1	69.4	86.8	102.6	118.5	132.1
95°	0.0	3.8	15.9	30.2	46.0	53.6	61.9	78.5	94.3	109.4	123.0
97.5°	0.0	0.8	11.3	24.2	39.2	47.6	55.1	70.9	86.8	101.1	114.0
100°	0.0	0.0	7.5	19.6	33.2	40.8	48.3	63.4	78.5	92.1	104.9
102.5°	0.0	0.0	3.8	15.1	27.9	34.7	41.5	56.6	70.9	84.5	96.6
105°	0.0	0.0	0.8	10.6	22.6	28.7	35.5	49.1	63.4	76.2	88.3
107.5°	0.0	0.0	0.0	6.0	17.4	23.4	29.4	42.3	55.9	67.9	79.3
110°	0.0	0.0	0.0	3.0	12.8	18.1	24.2	36.2	48.3	60.4	71.7



TEST NUMBER: P257067

CATALOG NUMBER: HGL-S-UF-30L940-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	0.8	8.3	13.6	18.9	30.2	41.5	52.8	63.4
115°	0.0	0.0	0.0	0.0	4.5	9.1	13.6	24.2	34.7	46.0	55.9
117.5°	0.0	0.0	0.0	0.0	1.5	5.3	9.1	18.9	28.7	38.5	48.3
120°	0.0	0.0	0.0	0.0	0.0	2.3	5.3	13.6	22.6	31.7	40.8
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	8.3	16.6	25.7	34.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	11.3	19.6	27.2
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	6.8	13.6	20.4
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	8.3	14.3
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.5	9.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5
137.5°	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
140°	0.8	0.8	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: P257067

CATALOG NUMBER: HGL-S-UF-30L940-UNV-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7	631.7
2.5°	634.8	631.7	631.7	631.0	630.2	629.5	628.0	627.2	625.7	626.5
5°	633.3	630.2	630.2	628.7	628.0	628.0	627.2	627.2	626.5	627.2
7.5°	631.0	627.2	627.2	625.7	625.0	624.2	624.2	624.2	624.2	625.0
10°	625.0	622.7	622.7	621.9	621.2	619.7	618.9	619.7	618.9	619.7
12.5°	616.7	614.4	615.9	615.9	615.9	614.4	613.6	614.4	613.6	614.4
15°	606.1	605.3	607.6	608.4	609.1	608.4	607.6	607.6	607.6	607.6
17.5°	595.5	594.8	597.8	599.3	599.3	599.3	599.3	598.5	598.5	599.3
20°	586.5	583.4	585.0	588.0	588.7	588.7	589.5	590.2	590.2	590.2
22.5°	573.6	572.1	572.9	575.1	576.7	577.4	579.7	579.7	580.4	581.2
25°	558.5	560.8	561.6	563.8	564.6	566.1	569.1	570.6	570.6	570.6
27.5°	542.7	547.2	550.2	551.7	553.3	554.8	558.5	561.6	561.6	561.6
30°	527.6	532.1	538.2	541.2	542.7	544.2	549.5	553.3	554.0	554.0
32.5°	511.7	517.8	526.8	531.4	532.1	534.4	541.2	545.7	546.5	546.5
35°	498.2	505.7	515.5	521.6	523.1	525.3	532.9	538.2	538.9	538.9
37.5°	486.1	493.6	504.2	512.5	514.0	517.0	524.6	531.4	532.1	532.9
40°	472.5	481.5	492.1	501.9	504.9	508.0	516.3	523.1	524.6	524.6
42.5°	458.9	470.2	480.8	492.1	495.9	498.9	508.0	514.8	516.3	516.3
45°	444.6	458.9	469.5	481.5	486.1	489.1	497.4	504.9	507.2	507.2
47.5°	431.7	446.8	457.4	469.5	474.0	478.5	486.1	493.6	495.9	496.6
50°	417.4	434.0	444.6	455.9	461.9	466.5	474.0	482.3	484.6	483.8
52.5°	403.1	418.9	430.2	442.3	448.3	452.9	459.7	468.7	471.0	471.0
55°	388.0	403.8	415.9	427.2	433.2	439.3	446.1	453.6	456.6	455.9
57.5°	372.9	387.2	400.0	412.1	417.4	423.4	430.2	437.8	440.0	441.5
60°	357.0	369.8	384.2	395.5	400.8	406.8	413.6	420.4	424.2	423.4
62.5°	339.6	354.0	367.6	378.1	383.4	389.5	396.3	402.3	405.3	406.8
65°	322.3	335.9	348.7	360.0	364.6	370.6	378.1	382.7	386.4	387.2
67.5°	304.2	317.8	330.6	342.7	347.2	352.5	359.3	363.8	367.6	368.3
70°	286.1	300.4	313.2	324.6	329.1	333.6	340.4	344.9	348.7	348.7
72.5°	268.7	283.0	295.1	306.4	311.0	314.7	321.5	326.1	329.1	329.8
75°	251.3	264.9	277.0	288.3	292.1	296.6	302.7	307.2	310.2	311.0
77.5°	234.0	248.3	259.6	270.2	274.0	277.8	284.6	288.3	291.3	291.3
80°	217.4	231.0	242.3	252.1	255.1	259.6	265.7	269.5	271.7	273.2
82.5°	201.5	214.4	224.9	234.0	238.5	241.5	247.6	251.3	253.6	255.1
85°	184.2	197.8	208.3	217.4	220.4	224.9	230.2	234.0	236.2	237.0
87.5°	168.3	180.4	191.0	201.5	205.3	208.3	213.6	217.4	219.6	221.1
90°	154.7	166.1	175.9	184.2	187.9	191.7	197.8	201.5	203.8	204.5
92.5°	144.9	156.2	165.3	173.6	177.4	180.4	185.7	189.4	191.7	192.5
95°	135.9	146.4	155.5	163.8	166.8	169.8	175.1	178.1	179.6	181.1
97.5°	126.0	137.4	145.7	153.2	157.0	159.3	164.5	167.6	169.8	170.6
100°	117.0	127.6	135.9	144.2	147.2	149.4	154.7	157.7	159.3	160.0
102.5°	107.9	118.5	126.8	134.4	137.4	139.6	144.2	147.2	149.4	150.2
105°	98.9	108.7	117.0	124.5	127.6	129.8	134.4	137.4	139.6	140.4
107.5°	90.6	99.6	107.9	114.7	117.7	120.0	124.5	127.6	129.8	130.6
110°	82.3	90.6	98.9	105.7	108.7	111.0	115.5	117.7	120.0	120.8





TEST NUMBER: P257067

CATALOG NUMBER: HGL-S-UF-30L940-UNV-4

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	73.2	82.3	89.8	96.6	98.9	101.9	105.7	108.7	110.2	111.0
115°	65.7	74.0	80.8	87.6	89.8	92.1	96.6	98.9	101.1	101.1
117.5°	57.4	64.9	72.5	78.5	80.8	83.0	87.6	89.8	91.3	92.1
120°	49.8	56.6	63.4	69.4	72.5	74.0	78.5	80.8	82.3	83.0
122.5°	42.3	49.1	55.9	61.1	63.4	65.7	69.4	71.7	73.2	74.0
125°	34.7	41.5	47.6	52.8	55.1	57.4	60.4	62.6	64.2	64.9
127.5°	27.9	34.0	40.0	44.5	46.8	49.1	52.1	54.3	55.9	56.6
130°	21.1	26.4	32.5	37.0	39.2	40.8	43.8	46.0	47.6	48.3
132.5°	14.3	19.6	24.9	29.4	31.7	33.2	36.2	37.7	39.2	40.0
135°	9.1	13.6	18.1	21.9	24.2	25.7	28.7	30.2	31.7	31.7
137.5°	4.5	8.3	12.1	15.1	16.6	18.9	21.1	22.6	23.4	24.2
140°	1.5	3.8	6.8	9.1	10.6	12.1	14.3	15.9	16.6	17.4
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)