

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: P257061

Luminaire Tested: **HGL-S-UF-30L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257061
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-30L930-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2358.7 lumens
Efficiency: N/A
Efficacy: 101.2 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

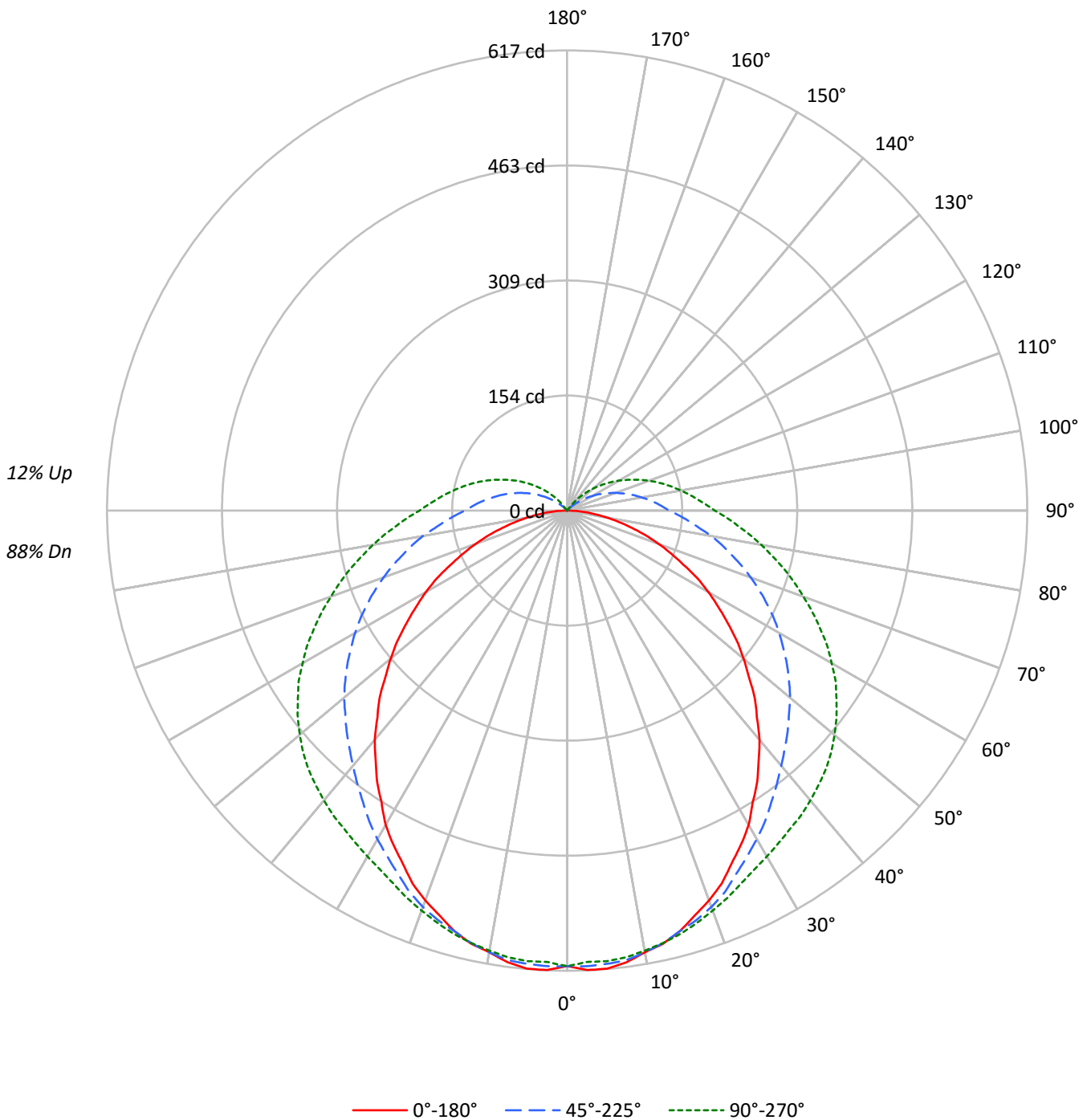
Input Watts (W): 23.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	7172	7172	7172
5°	7252	6984	6874
10°	7137	6764	6613
15°	7048	6505	6367
20°	6884	6290	6119
25°	6680	6007	5898
30°	6501	5765	5753
35°	6256	5527	5665
40°	6021	5327	5628
45°	5763	5183	5599
50°	5470	5076	5543
55°	5185	4959	5472
60°	4919	4855	5379
65°	4532	4751	5268
70°	4184	4652	5146
75°	3713	4554	5060
80°	3182	4535	4993
85°	2502	4529	4982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	2.5
10°-20°	164.5	7.0
20°-30°	246.8	10.5
30°-40°	299.7	12.7
40°-50°	323.7	13.7
50°-60°	317.0	13.4
60°-70°	281.2	11.9
70°-80°	225.2	9.5
80°-90°	163.2	6.9
90°-100°	115.0	4.9
100°-110°	80.2	3.4
110°-120°	49.7	2.1
120°-130°	25.3	1.1
130°-140°	8.8	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°	469.2	19.9
0°-40°	768.9	32.6
0°-60°	1409.6	59.8
0°-90°	2079.3	88.2
90°-120°	245.0	10.4
90°-150°	279.4	11.8
90°-180°	279.0	11.8
0°-180°	2358.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	617	611	610	607	606	58
15°	584	579	584	589	588	164
25°	522	523	537	546	552	241
35°	444	447	477	506	521	278
45°	356	366	418	470	490	274
55°	263	285	360	419	441	235
65°	172	213	296	352	374	172
75°	90	147	228	282	301	96
85°	24	90	164	213	229	26
90°	1	66	136	182	198	2
95°	0	52	119	161	175	0
105°	0	28	85	123	136	0
115°	0	9	54	87	98	0
125°	0	0	26	53	63	0
135°	0	0	4	23	31	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8
2.5°	616.6	615.9	613.7	611.5	610.8	610.8	610.1	609.3	609.3	608.6	611.5
5°	616.6	615.9	613.7	610.8	610.1	610.8	610.1	608.6	608.6	607.9	610.1
7.5°	610.8	609.3	607.9	605.7	605.0	605.0	604.2	604.2	604.2	604.2	607.9
10°	601.3	600.6	599.1	596.9	596.9	596.2	596.2	596.9	596.9	597.7	601.3
12.5°	594.8	593.3	591.1	588.9	588.2	588.2	587.5	586.7	587.5	588.2	594.0
15°	583.8	583.1	581.6	579.4	579.4	579.4	579.4	578.7	578.7	579.4	583.8
17.5°	569.2	567.8	567.0	565.6	566.3	567.0	567.8	567.0	568.5	570.7	575.8
20°	556.1	554.6	553.2	551.0	551.0	551.7	552.4	552.4	556.1	559.0	565.6
22.5°	541.5	540.7	539.3	538.6	538.6	539.3	539.3	537.8	540.0	544.4	553.2
25°	521.8	521.0	520.3	520.3	521.8	523.2	524.0	524.7	526.9	529.8	537.1
27.5°	505.0	504.3	502.8	501.3	502.8	504.3	505.0	506.5	510.8	516.7	522.5
30°	486.7	486.0	485.3	485.3	486.7	487.5	488.2	487.5	493.3	502.1	508.6
32.5°	463.4	462.7	463.4	463.4	467.0	469.2	470.7	471.4	476.5	484.6	494.0
35°	444.4	444.4	443.7	445.2	445.9	447.3	448.8	452.4	459.7	467.8	477.3
37.5°	421.8	421.8	421.8	425.4	428.4	429.1	429.8	434.2	443.7	451.7	461.9
40°	401.4	401.4	401.4	402.8	405.0	407.2	410.1	415.2	424.7	436.4	446.6
42.5°	376.6	377.3	378.7	382.4	385.3	386.8	389.0	397.0	407.2	421.1	432.0
45°	356.1	355.4	356.9	359.8	362.7	365.6	369.3	378.0	390.4	405.7	418.2
47.5°	330.6	331.3	332.8	337.9	341.5	345.2	349.6	359.8	374.4	389.7	403.6
50°	308.7	309.4	313.1	316.0	319.6	324.0	329.1	342.3	358.3	373.6	390.4
52.5°	286.8	287.5	290.4	292.6	298.5	303.6	310.1	324.7	341.5	358.3	375.1
55°	262.7	264.2	266.4	271.5	278.8	284.6	291.9	308.0	324.7	343.0	359.8
57.5°	240.1	240.8	244.5	249.6	258.3	265.6	274.4	291.2	309.4	326.9	343.7
60°	218.9	220.4	222.6	229.1	240.8	248.1	256.9	274.4	293.4	310.9	328.4
62.5°	197.0	198.5	201.4	208.7	222.6	230.6	240.1	258.3	277.3	294.8	312.3
65°	172.2	173.7	178.1	187.5	204.3	213.1	222.6	241.5	259.8	278.0	295.6
67.5°	151.1	151.8	157.6	167.8	185.4	196.3	206.5	224.8	243.0	261.3	278.8
70°	130.6	132.1	136.5	150.3	169.3	178.1	189.0	208.7	227.0	245.2	262.0
72.5°	110.2	111.7	118.2	133.5	153.2	162.7	171.5	192.7	210.9	228.4	245.2
75°	89.8	91.9	100.7	118.2	137.2	146.7	156.2	175.1	194.8	211.6	227.7
77.5°	71.5	73.7	84.7	102.9	121.9	131.4	140.8	159.1	177.3	195.6	212.4
80°	54.0	56.9	70.1	88.3	107.3	116.8	125.5	144.5	162.0	178.8	196.3
82.5°	38.7	42.3	57.7	75.2	94.1	102.9	111.7	129.9	147.4	163.5	178.8
85°	24.1	30.6	46.0	62.8	81.0	89.8	98.5	116.8	133.5	149.6	164.2
87.5°	11.7	20.4	35.0	51.1	68.6	77.4	86.1	103.6	119.7	135.7	150.3
90°	0.7	11.7	24.8	40.1	57.7	65.7	74.4	91.2	107.3	122.6	136.5
92.5°	0.0	7.3	19.7	34.3	50.4	59.1	67.1	83.9	99.2	114.6	127.7
95°	0.0	3.6	15.3	29.2	44.5	51.8	59.8	75.9	91.2	105.8	119.0
97.5°	0.0	0.7	10.9	23.4	37.9	46.0	53.3	68.6	83.9	97.8	110.2
100°	0.0	0.0	7.3	19.0	32.1	39.4	46.7	61.3	75.9	89.0	101.4
102.5°	0.0	0.0	3.6	14.6	27.0	33.6	40.1	54.7	68.6	81.7	93.4
105°	0.0	0.0	0.7	10.2	21.9	27.7	34.3	47.4	61.3	73.7	85.4
107.5°	0.0	0.0	0.0	5.8	16.8	22.6	28.5	40.9	54.0	65.7	76.6
110°	0.0	0.0	0.0	2.9	12.4	17.5	23.4	35.0	46.7	58.4	69.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.7	8.0	13.1	18.2	29.2	40.1	51.1	61.3
115°	0.0	0.0	0.0	0.0	4.4	8.8	13.1	23.4	33.6	44.5	54.0
117.5°	0.0	0.0	0.0	0.0	1.5	5.1	8.8	18.2	27.7	37.2	46.7
120°	0.0	0.0	0.0	0.0	0.0	2.2	5.1	13.1	21.9	30.6	39.4
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	8.0	16.1	24.8	32.8
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	10.9	19.0	26.3
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	6.6	13.1	19.7
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	8.0	13.9
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	4.4	8.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.4
137.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
140°	0.7	0.7	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8	610.8
2.5°	613.7	610.8	610.8	610.1	609.3	608.6	607.2	606.4	605.0	605.7
5°	612.3	609.3	609.3	607.9	607.2	607.2	606.4	606.4	605.7	606.4
7.5°	610.1	606.4	606.4	605.0	604.2	603.5	603.5	603.5	603.5	604.2
10°	604.2	602.0	602.0	601.3	600.6	599.1	598.4	599.1	598.4	599.1
12.5°	596.2	594.0	595.5	595.5	595.5	594.0	593.3	594.0	593.3	594.0
15°	586.0	585.3	587.5	588.2	588.9	588.2	587.5	587.5	587.5	587.5
17.5°	575.8	575.0	578.0	579.4	579.4	579.4	579.4	578.7	578.7	579.4
20°	567.0	564.1	565.6	568.5	569.2	569.2	569.9	570.7	570.7	570.7
22.5°	554.6	553.2	553.9	556.1	557.5	558.3	560.5	560.5	561.2	561.9
25°	540.0	542.2	542.9	545.1	545.9	547.3	550.2	551.7	551.7	551.7
27.5°	524.7	529.1	532.0	533.5	534.9	536.4	540.0	542.9	542.9	542.9
30°	510.1	514.5	520.3	523.2	524.7	526.2	531.3	534.9	535.6	535.6
32.5°	494.8	500.6	509.4	513.7	514.5	516.7	523.2	527.6	528.3	528.3
35°	481.6	488.9	498.4	504.3	505.7	507.9	515.2	520.3	521.0	521.0
37.5°	470.0	477.3	487.5	495.5	497.0	499.9	507.2	513.7	514.5	515.2
40°	456.8	465.6	475.8	485.3	488.2	491.1	499.2	505.7	507.2	507.2
42.5°	443.7	454.6	464.9	475.8	479.4	482.4	491.1	497.7	499.2	499.2
45°	429.8	443.7	453.9	465.6	470.0	472.9	480.9	488.2	490.4	490.4
47.5°	417.4	432.0	442.2	453.9	458.3	462.7	470.0	477.3	479.4	480.2
50°	403.6	419.6	429.8	440.8	446.6	451.0	458.3	466.3	468.5	467.8
52.5°	389.7	405.0	416.0	427.6	433.5	437.9	444.4	453.2	455.4	455.4
55°	375.1	390.4	402.1	413.0	418.9	424.7	431.3	438.6	441.5	440.8
57.5°	360.5	374.4	386.8	398.4	403.6	409.4	416.0	423.3	425.4	426.9
60°	345.2	357.6	371.4	382.4	387.5	393.3	399.9	406.5	410.1	409.4
62.5°	328.4	342.3	355.4	365.6	370.7	376.6	383.1	389.0	391.9	393.3
65°	311.6	324.7	337.1	348.1	352.5	358.3	365.6	370.0	373.6	374.4
67.5°	294.1	307.2	319.6	331.3	335.7	340.8	347.4	351.7	355.4	356.1
70°	276.6	290.4	302.8	313.8	318.2	322.6	329.1	333.5	337.1	337.1
72.5°	259.8	273.7	285.3	296.3	300.7	304.3	310.9	315.3	318.2	318.9
75°	243.0	256.1	267.8	278.8	282.4	286.8	292.6	297.0	299.9	300.7
77.5°	226.2	240.1	251.0	261.3	264.9	268.6	275.1	278.8	281.7	281.7
80°	210.2	223.3	234.3	243.7	246.7	251.0	256.9	260.5	262.7	264.2
82.5°	194.8	207.3	217.5	226.2	230.6	233.5	239.4	243.0	245.2	246.7
85°	178.1	191.2	201.4	210.2	213.1	217.5	222.6	226.2	228.4	229.1
87.5°	162.7	174.4	184.6	194.8	198.5	201.4	206.5	210.2	212.4	213.8
90°	149.6	160.5	170.0	178.1	181.7	185.4	191.2	194.8	197.0	197.8
92.5°	140.1	151.1	159.8	167.8	171.5	174.4	179.5	183.2	185.4	186.1
95°	131.4	141.6	150.3	158.4	161.3	164.2	169.3	172.2	173.7	175.1
97.5°	121.9	132.8	140.8	148.1	151.8	154.0	159.1	162.0	164.2	164.9
100°	113.1	123.3	131.4	139.4	142.3	144.5	149.6	152.5	154.0	154.7
102.5°	104.4	114.6	122.6	129.9	132.8	135.0	139.4	142.3	144.5	145.2
105°	95.6	105.1	113.1	120.4	123.3	125.5	129.9	132.8	135.0	135.7
107.5°	87.6	96.3	104.4	110.9	113.8	116.0	120.4	123.3	125.5	126.2
110°	79.5	87.6	95.6	102.2	105.1	107.3	111.7	113.8	116.0	116.8



TEST NUMBER: P257061

CATALOG NUMBER: HGL-S-UF-30L930-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	70.8	79.5	86.8	93.4	95.6	98.5	102.2	105.1	106.5	107.3
115°	63.5	71.5	78.1	84.7	86.8	89.0	93.4	95.6	97.8	97.8
117.5°	55.5	62.8	70.1	75.9	78.1	80.3	84.7	86.8	88.3	89.0
120°	48.2	54.7	61.3	67.1	70.1	71.5	75.9	78.1	79.5	80.3
122.5°	40.9	47.4	54.0	59.1	61.3	63.5	67.1	69.3	70.8	71.5
125°	33.6	40.1	46.0	51.1	53.3	55.5	58.4	60.6	62.0	62.8
127.5°	27.0	32.8	38.7	43.1	45.2	47.4	50.4	52.5	54.0	54.7
130°	20.4	25.5	31.4	35.8	37.9	39.4	42.3	44.5	46.0	46.7
132.5°	13.9	19.0	24.1	28.5	30.6	32.1	35.0	36.5	37.9	38.7
135°	8.8	13.1	17.5	21.2	23.4	24.8	27.7	29.2	30.6	30.6
137.5°	4.4	8.0	11.7	14.6	16.1	18.2	20.4	21.9	22.6	23.4
140°	1.5	3.6	6.6	8.8	10.2	11.7	13.9	15.3	16.1	16.8
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)