

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: P257062

Luminaire Tested: **HGL-S-UF-40L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257062
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-40L930-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: 2979.1 lumens
Efficiency: N/A
Efficacy: 100.6 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

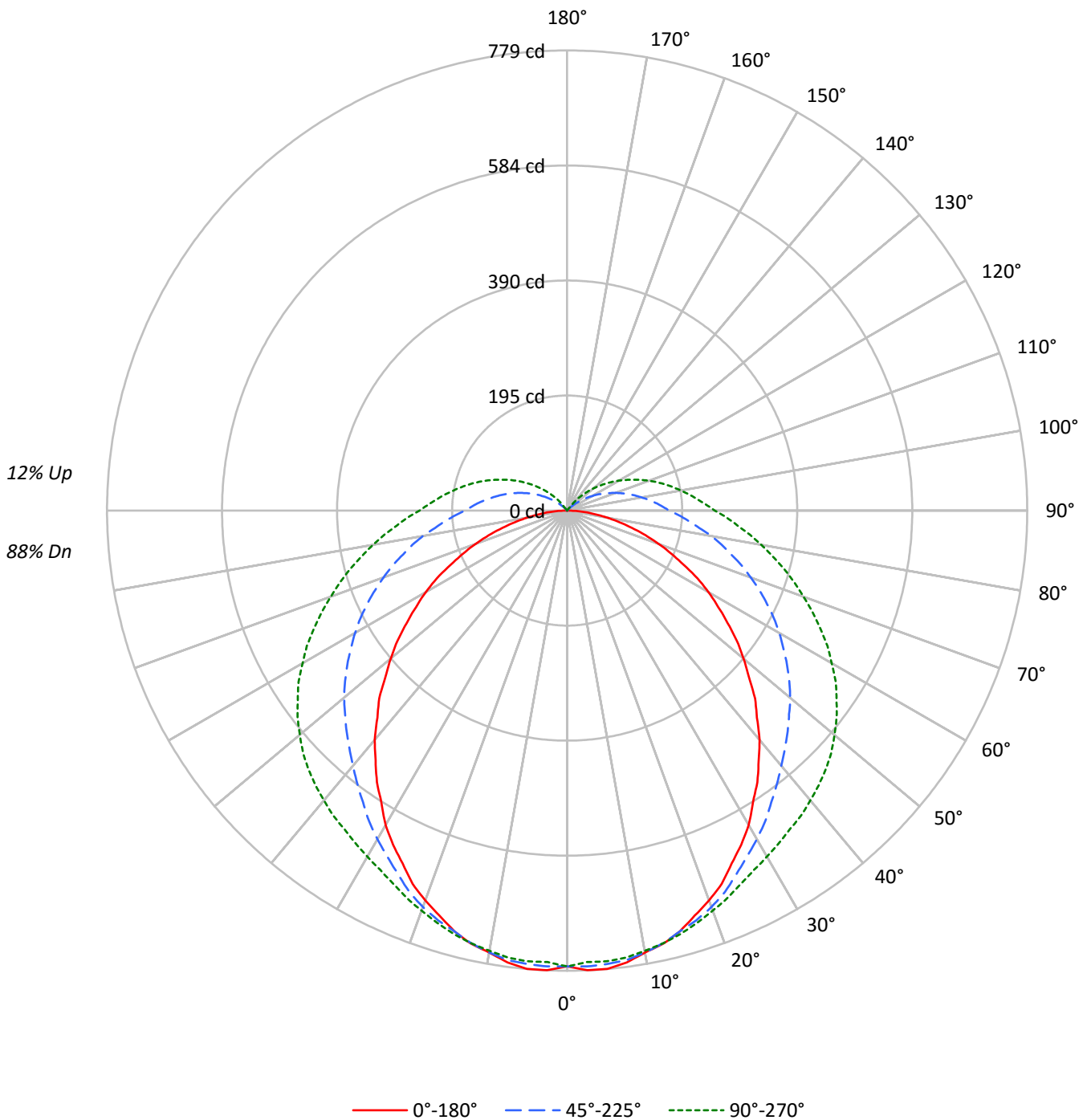
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9059	9059	9059
5°	9159	8820	8683
10°	9015	8544	8353
15°	8902	8216	8041
20°	8694	7943	7729
25°	8436	7587	7449
30°	8213	7282	7266
35°	7902	6980	7156
40°	7604	6728	7108
45°	7280	6545	7072
50°	6908	6411	7001
55°	6549	6263	6911
60°	6213	6132	6795
65°	5724	6000	6652
70°	5287	5875	6501
75°	4689	5753	6389
80°	4018	5727	6307
85°	3156	5721	6293



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	2.5
10°-20°	207.8	7.0
20°-30°	311.8	10.5
30°-40°	378.5	12.7
40°-50°	408.8	13.7
50°-60°	400.4	13.4
60°-70°	355.2	11.9
70°-80°	284.5	9.5
80°-90°	206.2	6.9
90°-100°	145.3	4.9
100°-110°	101.4	3.4
110°-120°	62.7	2.1
120°-130°	31.9	1.1
130°-140°	11.0	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°	592.6	19.9
0°-40°	971.1	32.6
0°-60°	1780.3	59.8
0°-90°	2626.2	88.2
90°-120°	309.4	10.4
90°-150°	352.9	11.8
90°-180°	353.0	11.8
0°-180°	2979.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	779	772	770	767	766	74
15°	737	732	737	744	742	207
25°	659	661	678	689	697	304
35°	561	565	603	639	658	351
45°	450	462	528	594	619	346
55°	332	360	454	529	557	297
65°	218	269	373	445	473	217
75°	113	185	288	357	380	121
85°	30	113	207	269	289	33
90°	1	83	172	230	250	2
95°	0	65	150	204	221	0
105°	0	35	108	156	171	0
115°	0	11	68	110	124	0
125°	0	0	33	67	79	0
135°	0	0	6	30	39	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°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5
2.5°	778.8	777.9	775.1	772.4	771.5	771.5	770.5	769.6	769.6	768.7	772.4
5°	778.8	777.9	775.1	771.5	770.5	771.5	770.5	768.7	768.7	767.8	770.5
7.5°	771.5	769.6	767.8	765.0	764.1	764.1	763.2	763.2	763.2	763.2	767.8
10°	759.5	758.6	756.7	753.9	753.9	753.0	753.0	753.9	753.9	754.9	759.5
12.5°	751.2	749.3	746.6	743.8	742.9	742.9	742.0	741.0	742.0	742.9	750.3
15°	737.4	736.4	734.6	731.8	731.8	731.8	731.8	730.9	730.9	731.8	737.4
17.5°	718.9	717.1	716.2	714.3	715.2	716.2	717.1	716.2	718.0	720.8	727.2
20°	702.3	700.5	698.6	695.9	695.9	696.8	697.7	697.7	702.3	706.0	714.3
22.5°	683.9	683.0	681.1	680.2	680.2	681.1	681.1	679.3	682.1	687.6	698.6
25°	659.0	658.1	657.2	657.2	659.0	660.9	661.8	662.7	665.5	669.2	678.4
27.5°	637.8	636.9	635.0	633.2	635.0	636.9	637.8	639.7	645.2	652.6	659.9
30°	614.8	613.8	612.9	612.9	614.8	615.7	616.6	615.7	623.1	634.1	642.4
32.5°	585.3	584.4	585.3	585.3	589.9	592.7	594.5	595.4	601.9	612.0	624.0
35°	561.3	561.3	560.4	562.2	563.2	565.0	566.8	571.5	580.7	590.8	602.8
37.5°	532.7	532.7	532.7	537.3	541.0	542.0	542.9	548.4	560.4	570.5	583.4
40°	506.9	506.9	506.9	508.8	511.5	514.3	518.0	524.4	536.4	551.2	564.1
42.5°	475.6	476.5	478.4	483.0	486.7	488.5	491.3	501.4	514.3	531.8	545.6
45°	449.8	448.9	450.7	454.4	458.1	461.8	466.4	477.4	493.1	512.5	528.1
47.5°	417.5	418.4	420.3	426.7	431.4	436.0	441.5	454.4	472.8	492.2	509.7
50°	389.9	390.8	395.4	399.1	403.7	409.2	415.7	432.3	452.6	471.9	493.1
52.5°	362.2	363.1	366.8	369.6	377.0	383.4	391.7	410.2	431.4	452.6	473.8
55°	331.8	333.7	336.4	342.9	352.1	359.5	368.7	389.0	410.2	433.2	454.4
57.5°	303.2	304.2	308.8	315.2	326.3	335.5	346.6	367.8	390.8	412.9	434.1
60°	276.5	278.4	281.1	289.4	304.2	313.4	324.4	346.6	370.5	392.6	414.8
62.5°	248.9	250.7	254.4	263.6	281.1	291.3	303.2	326.3	350.2	372.4	394.5
65°	217.5	219.4	224.9	236.9	258.1	269.1	281.1	305.1	328.1	351.2	373.3
67.5°	190.8	191.7	199.1	212.0	234.1	247.9	260.8	283.9	306.9	330.0	352.1
70°	165.0	166.8	172.4	189.9	213.8	224.9	238.7	263.6	286.6	309.7	330.9
72.5°	139.2	141.0	149.3	168.7	193.6	205.5	216.6	243.3	266.4	288.5	309.7
75°	113.4	116.1	127.2	149.3	173.3	185.3	197.2	221.2	246.1	267.3	287.6
77.5°	90.3	93.1	106.9	130.0	153.9	165.9	177.9	200.9	224.0	247.0	268.2
80°	68.2	71.9	88.5	111.5	135.5	147.5	158.5	182.5	204.6	225.8	247.9
82.5°	48.8	53.5	72.8	94.9	118.9	130.0	141.0	164.1	186.2	206.5	225.8
85°	30.4	38.7	58.1	79.3	102.3	113.4	124.4	147.5	168.7	188.9	207.4
87.5°	14.7	25.8	44.2	64.5	86.6	97.7	108.8	130.9	151.2	171.4	189.9
90°	0.9	14.7	31.3	50.7	72.8	83.0	94.0	115.2	135.5	154.8	172.4
92.5°	0.0	9.2	24.9	43.3	63.6	74.7	84.8	106.0	125.4	144.7	161.3
95°	0.0	4.6	19.4	36.9	56.2	65.4	75.6	95.9	115.2	133.6	150.2
97.5°	0.0	0.9	13.8	29.5	47.9	58.1	67.3	86.6	106.0	123.5	139.2
100°	0.0	0.0	9.2	24.0	40.6	49.8	59.0	77.4	95.9	112.4	128.1
102.5°	0.0	0.0	4.6	18.4	34.1	42.4	50.7	69.1	86.6	103.2	118.0
105°	0.0	0.0	0.9	12.9	27.7	35.0	43.3	59.9	77.4	93.1	107.8
107.5°	0.0	0.0	0.0	7.4	21.2	28.6	35.9	51.6	68.2	83.0	96.8
110°	0.0	0.0	0.0	3.7	15.7	22.1	29.5	44.2	59.0	73.7	87.6



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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	0.9	10.1	16.6	23.0	36.9	50.7	64.5	77.4
115°	0.0	0.0	0.0	0.0	5.5	11.1	16.6	29.5	42.4	56.2	68.2
117.5°	0.0	0.0	0.0	0.0	1.8	6.5	11.1	23.0	35.0	47.0	59.0
120°	0.0	0.0	0.0	0.0	0.0	2.8	6.5	16.6	27.7	38.7	49.8
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	10.1	20.3	31.3	41.5
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	13.8	24.0	33.2
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.3	16.6	24.9
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	10.1	17.5
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	5.5	11.1
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.5
137.5°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
140°	0.9	0.9	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°	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5	771.5
2.5°	775.1	771.5	771.5	770.5	769.6	768.7	766.9	765.9	764.1	765.0
5°	773.3	769.6	769.6	767.8	766.9	766.9	765.9	765.9	765.0	765.9
7.5°	770.5	765.9	765.9	764.1	763.2	762.2	762.2	762.2	762.2	763.2
10°	763.2	760.4	760.4	759.5	758.6	756.7	755.8	756.7	755.8	756.7
12.5°	753.0	750.3	752.1	752.1	752.1	750.3	749.3	750.3	749.3	750.3
15°	740.1	739.2	742.0	742.9	743.8	742.9	742.0	742.0	742.0	742.0
17.5°	727.2	726.3	730.0	731.8	731.8	731.8	731.8	730.9	730.9	731.8
20°	716.2	712.5	714.3	718.0	718.9	718.9	719.8	720.8	720.8	720.8
22.5°	700.5	698.6	699.6	702.3	704.2	705.1	707.9	707.9	708.8	709.7
25°	682.1	684.8	685.7	688.5	689.4	691.3	695.0	696.8	696.8	696.8
27.5°	662.7	668.2	671.9	673.8	675.6	677.4	682.1	685.7	685.7	685.7
30°	644.3	649.8	657.2	660.9	662.7	664.5	671.0	675.6	676.5	676.5
32.5°	624.9	632.3	643.3	648.9	649.8	652.6	660.9	666.4	667.3	667.3
35°	608.3	617.5	629.5	636.9	638.7	641.5	650.7	657.2	658.1	658.1
37.5°	593.6	602.8	615.7	625.8	627.7	631.4	640.6	648.9	649.8	650.7
40°	577.0	588.0	600.9	612.9	616.6	620.3	630.4	638.7	640.6	640.6
42.5°	560.4	574.2	587.1	600.9	605.6	609.2	620.3	628.6	630.4	630.4
45°	542.9	560.4	573.3	588.0	593.6	597.3	607.4	616.6	619.4	619.4
47.5°	527.2	545.6	558.5	573.3	578.8	584.4	593.6	602.8	605.6	606.5
50°	509.7	530.0	542.9	556.7	564.1	569.6	578.8	589.0	591.7	590.8
52.5°	492.2	511.5	525.4	540.1	547.5	553.0	561.3	572.4	575.1	575.1
55°	473.8	493.1	507.9	521.7	529.1	536.4	544.7	553.9	557.6	556.7
57.5°	455.3	472.8	488.5	503.2	509.7	517.1	525.4	534.6	537.3	539.2
60°	436.0	451.6	469.1	483.0	489.4	496.8	505.1	513.4	518.0	517.1
62.5°	414.8	432.3	448.9	461.8	468.2	475.6	483.9	491.3	495.0	496.8
65°	393.6	410.2	425.8	439.6	445.2	452.6	461.8	467.3	471.9	472.8
67.5°	371.4	388.0	403.7	418.4	424.0	430.4	438.7	444.3	448.9	449.8
70°	349.3	366.8	382.5	396.3	401.9	407.4	415.7	421.2	425.8	425.8
72.5°	328.1	345.6	360.4	374.2	379.7	384.3	392.6	398.2	401.9	402.8
75°	306.9	323.5	338.3	352.1	356.7	362.2	369.6	375.1	378.8	379.7
77.5°	285.7	303.2	317.1	330.0	334.6	339.2	347.5	352.1	355.8	355.8
80°	265.4	282.0	295.9	307.8	311.5	317.1	324.4	329.0	331.8	333.7
82.5°	246.1	261.8	274.7	285.7	291.3	294.9	302.3	306.9	309.7	311.5
85°	224.9	241.5	254.4	265.4	269.1	274.7	281.1	285.7	288.5	289.4
87.5°	205.5	220.3	233.2	246.1	250.7	254.4	260.8	265.4	268.2	270.1
90°	188.9	202.8	214.8	224.9	229.5	234.1	241.5	246.1	248.9	249.8
92.5°	177.0	190.8	201.9	212.0	216.6	220.3	226.7	231.3	234.1	235.0
95°	165.9	178.8	189.9	200.0	203.7	207.4	213.8	217.5	219.4	221.2
97.5°	153.9	167.7	177.9	187.1	191.7	194.5	200.9	204.6	207.4	208.3
100°	142.9	155.8	165.9	176.0	179.7	182.5	188.9	192.6	194.5	195.4
102.5°	131.8	144.7	154.8	164.1	167.7	170.5	176.0	179.7	182.5	183.4
105°	120.7	132.7	142.9	152.1	155.8	158.5	164.1	167.7	170.5	171.4
107.5°	110.6	121.7	131.8	140.1	143.8	146.5	152.1	155.8	158.5	159.5
110°	100.5	110.6	120.7	129.0	132.7	135.5	141.0	143.8	146.5	147.5



TEST NUMBER: P257062

CATALOG NUMBER: HGL-S-UF-40L930-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	89.4	100.5	109.7	118.0	120.7	124.4	129.0	132.7	134.6	135.5
115°	80.2	90.3	98.6	106.9	109.7	112.4	118.0	120.7	123.5	123.5
117.5°	70.0	79.3	88.5	95.9	98.6	101.4	106.9	109.7	111.5	112.4
120°	60.8	69.1	77.4	84.8	88.5	90.3	95.9	98.6	100.5	101.4
122.5°	51.6	59.9	68.2	74.7	77.4	80.2	84.8	87.6	89.4	90.3
125°	42.4	50.7	58.1	64.5	67.3	70.0	73.7	76.5	78.3	79.3
127.5°	34.1	41.5	48.8	54.4	57.1	59.9	63.6	66.4	68.2	69.1
130°	25.8	32.3	39.6	45.2	47.9	49.8	53.5	56.2	58.1	59.0
132.5°	17.5	24.0	30.4	35.9	38.7	40.6	44.2	46.1	47.9	48.8
135°	11.1	16.6	22.1	26.7	29.5	31.3	35.0	36.9	38.7	38.7
137.5°	5.5	10.1	14.7	18.4	20.3	23.0	25.8	27.7	28.6	29.5
140°	1.8	4.6	8.3	11.1	12.9	14.7	17.5	19.4	20.3	21.2
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)