

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: P257063

Luminaire Tested: **HGL-S-UF-50L930-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257063
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-50L930-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: 3728.1 lumens
Efficiency: N/A
Efficacy: 96.8 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

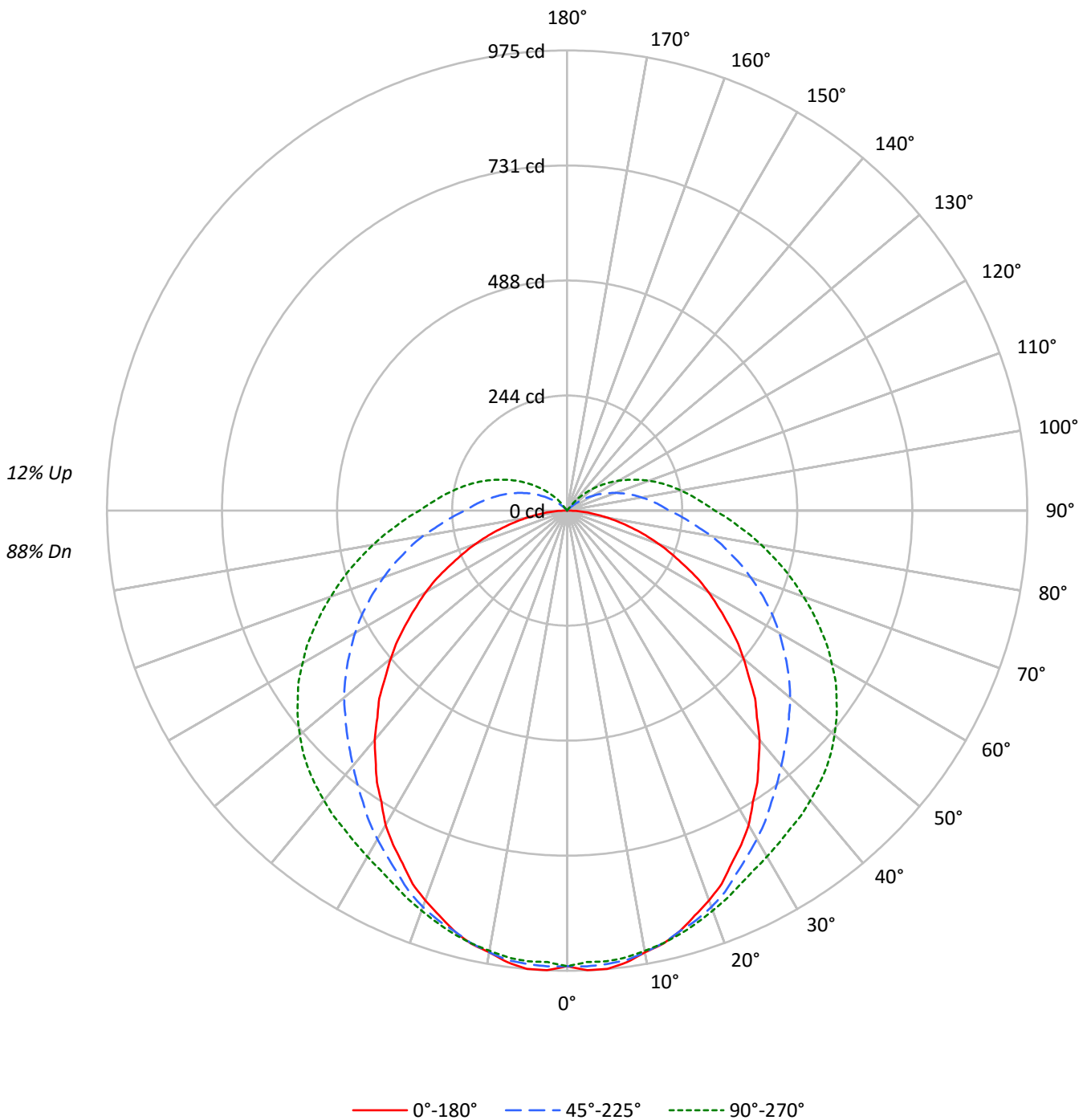
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	11336	11336	11336
5°	11463	11038	10866
10°	11280	10692	10454
15°	11140	10282	10062
20°	10880	9941	9671
25°	10557	9494	9322
30°	10276	9113	9093
35°	9888	8736	8956
40°	9517	8420	8895
45°	9110	8191	8849
50°	8645	8024	8761
55°	8195	7837	8649
60°	7775	7674	8503
65°	7163	7507	8325
70°	6616	7352	8136
75°	5868	7199	7996
80°	5032	7168	7891
85°	3956	7158	7877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	2.5
10°-20°	260.0	7.0
20°-30°	390.1	10.5
30°-40°	473.7	12.7
40°-50°	511.6	13.7
50°-60°	501.1	13.4
60°-70°	444.5	11.9
70°-80°	356.0	9.5
80°-90°	258.0	6.9
90°-100°	181.8	4.9
100°-110°	126.8	3.4
110°-120°	78.5	2.1
120°-130°	39.9	1.1
130°-140°	13.8	0.4
140°-150°	0.7	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	741.6	19.9
0°-40°	1215.3	32.6
0°-60°	2228.0	59.8
0°-90°	3286.5	88.2
90°-120°	387.2	10.4
90°-150°	441.7	11.8
90°-180°	442.0	11.9
0°-180°	3728.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	965	965	965	965	965	
5°	975	965	964	960	958	92
15°	923	916	923	931	928	260
25°	825	827	849	863	872	381
35°	702	707	754	799	824	439
45°	563	578	661	743	775	432
55°	415	450	569	662	697	372
65°	272	337	467	557	592	272
75°	142	232	360	446	475	152
85°	38	142	260	337	362	41
90°	1	104	216	287	313	3
95°	0	82	188	255	277	0
105°	0	44	135	195	214	0
115°	0	14	85	137	155	0
125°	0	0	42	84	99	0
135°	0	0	7	37	48	1
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°	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4
2.5°	974.7	973.5	970.0	966.6	965.4	965.4	964.3	963.1	963.1	962.0	966.6
5°	974.7	973.5	970.0	965.4	964.3	965.4	964.3	962.0	962.0	960.8	964.3
7.5°	965.4	963.1	960.8	957.4	956.2	956.2	955.1	955.1	955.1	955.1	960.8
10°	950.4	949.3	947.0	943.5	943.5	942.4	942.4	943.5	943.5	944.7	950.4
12.5°	940.1	937.8	934.3	930.8	929.7	929.7	928.5	927.4	928.5	929.7	938.9
15°	922.8	921.6	919.3	915.8	915.8	915.8	915.8	914.7	914.7	915.8	922.8
17.5°	899.7	897.4	896.2	893.9	895.1	896.2	897.4	896.2	898.5	902.0	910.1
20°	878.9	876.6	874.3	870.9	870.9	872.0	873.2	873.2	878.9	883.5	893.9
22.5°	855.9	854.7	852.4	851.2	851.2	852.4	852.4	850.1	853.5	860.5	874.3
25°	824.7	823.6	822.4	822.4	824.7	827.0	828.2	829.3	832.8	837.4	848.9
27.5°	798.2	797.0	794.7	792.4	794.7	797.0	798.2	800.5	807.4	816.6	825.9
30°	769.3	768.2	767.0	767.0	769.3	770.5	771.7	770.5	779.7	793.6	804.0
32.5°	732.4	731.3	732.4	732.4	738.2	741.7	744.0	745.1	753.2	765.9	780.9
35°	702.4	702.4	701.3	703.6	704.8	707.1	709.4	715.1	726.7	739.4	754.4
37.5°	666.7	666.7	666.7	672.5	677.1	678.2	679.4	686.3	701.3	714.0	730.1
40°	634.4	634.4	634.4	636.7	640.2	643.6	648.2	656.3	671.3	689.8	705.9
42.5°	595.2	596.3	598.6	604.4	609.0	611.3	614.8	627.5	643.6	665.5	682.8
45°	562.9	561.7	564.0	568.6	573.3	577.9	583.6	597.5	617.1	641.3	660.9
47.5°	522.5	523.7	526.0	534.0	539.8	545.6	552.5	568.6	591.7	615.9	637.9
50°	487.9	489.1	494.8	499.4	505.2	512.1	520.2	541.0	566.3	590.6	617.1
52.5°	453.3	454.5	459.1	462.5	471.8	479.8	490.2	513.3	539.8	566.3	592.9
55°	415.2	417.5	421.0	429.1	440.6	449.8	461.4	486.8	513.3	542.1	568.6
57.5°	379.5	380.6	386.4	394.5	408.3	419.9	433.7	460.2	489.1	516.7	543.3
60°	346.0	348.3	351.8	362.2	380.6	392.2	406.0	433.7	463.7	491.4	519.1
62.5°	311.4	313.7	318.4	329.9	351.8	364.5	379.5	408.3	438.3	466.0	493.7
65°	272.2	274.5	281.4	296.4	323.0	336.8	351.8	381.8	410.6	439.5	467.1
67.5°	238.8	239.9	249.1	265.3	293.0	310.3	326.4	355.3	384.1	412.9	440.6
70°	206.5	208.8	215.7	237.6	267.6	281.4	298.7	329.9	358.7	387.6	414.1
72.5°	174.2	176.5	186.9	211.1	242.2	257.2	271.1	304.5	333.3	361.0	387.6
75°	141.9	145.3	159.2	186.9	216.8	231.8	246.8	276.8	308.0	334.5	359.9
77.5°	113.0	116.5	133.8	162.6	192.6	207.6	222.6	251.5	280.3	309.1	335.7
80°	85.4	90.0	110.7	139.6	169.6	184.6	198.4	228.4	256.1	282.6	310.3
82.5°	61.1	66.9	91.1	118.8	148.8	162.6	176.5	205.3	233.0	258.4	282.6
85°	38.1	48.4	72.7	99.2	128.0	141.9	155.7	184.6	211.1	236.5	259.5
87.5°	18.5	32.3	55.4	80.7	108.4	122.3	136.1	163.8	189.2	214.5	237.6
90°	1.2	18.5	39.2	63.4	91.1	103.8	117.7	144.2	169.6	193.8	215.7
92.5°	0.0	11.5	31.1	54.2	79.6	93.4	106.1	132.6	156.9	181.1	201.9
95°	0.0	5.8	24.2	46.1	70.4	81.9	94.6	120.0	144.2	167.2	188.0
97.5°	0.0	1.2	17.3	36.9	60.0	72.7	84.2	108.4	132.6	154.6	174.2
100°	0.0	0.0	11.5	30.0	50.8	62.3	73.8	96.9	120.0	140.7	160.3
102.5°	0.0	0.0	5.8	23.1	42.7	53.1	63.4	86.5	108.4	129.2	147.6
105°	0.0	0.0	1.2	16.1	34.6	43.8	54.2	75.0	96.9	116.5	135.0
107.5°	0.0	0.0	0.0	9.2	26.5	35.8	45.0	64.6	85.4	103.8	121.1
110°	0.0	0.0	0.0	4.6	19.6	27.7	36.9	55.4	73.8	92.3	109.6



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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	1.2	12.7	20.8	28.8	46.1	63.4	80.7	96.9
115°	0.0	0.0	0.0	0.0	6.9	13.8	20.8	36.9	53.1	70.4	85.4
117.5°	0.0	0.0	0.0	0.0	2.3	8.1	13.8	28.8	43.8	58.8	73.8
120°	0.0	0.0	0.0	0.0	0.0	3.5	8.1	20.8	34.6	48.4	62.3
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.3	12.7	25.4	39.2	51.9
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	17.3	30.0	41.5
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	10.4	20.8	31.1
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	12.7	21.9
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	6.9	13.8
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	6.9
137.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
140°	1.2	1.2	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°	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4	965.4
2.5°	970.0	965.4	965.4	964.3	963.1	962.0	959.7	958.5	956.2	957.4
5°	967.7	963.1	963.1	960.8	959.7	959.7	958.5	958.5	957.4	958.5
7.5°	964.3	958.5	958.5	956.2	955.1	953.9	953.9	953.9	953.9	955.1
10°	955.1	951.6	951.6	950.4	949.3	947.0	945.8	947.0	945.8	947.0
12.5°	942.4	938.9	941.2	941.2	941.2	938.9	937.8	938.9	937.8	938.9
15°	926.2	925.1	928.5	929.7	930.8	929.7	928.5	928.5	928.5	928.5
17.5°	910.1	908.9	913.5	915.8	915.8	915.8	915.8	914.7	914.7	915.8
20°	896.2	891.6	893.9	898.5	899.7	899.7	900.8	902.0	902.0	902.0
22.5°	876.6	874.3	875.5	878.9	881.2	882.4	885.8	885.8	887.0	888.2
25°	853.5	857.0	858.2	861.6	862.8	865.1	869.7	872.0	872.0	872.0
27.5°	829.3	836.2	840.9	843.2	845.5	847.8	853.5	858.2	858.2	858.2
30°	806.3	813.2	822.4	827.0	829.3	831.6	839.7	845.5	846.6	846.6
32.5°	782.0	791.3	805.1	812.0	813.2	816.6	827.0	833.9	835.1	835.1
35°	761.3	772.8	787.8	797.0	799.3	802.8	814.3	822.4	823.6	823.6
37.5°	742.8	754.4	770.5	783.2	785.5	790.1	801.6	812.0	813.2	814.3
40°	722.1	735.9	752.0	767.0	771.7	776.3	789.0	799.3	801.6	801.6
42.5°	701.3	718.6	734.7	752.0	757.8	762.4	776.3	786.6	789.0	789.0
45°	679.4	701.3	717.4	735.9	742.8	747.4	760.1	771.7	775.1	775.1
47.5°	659.8	682.8	699.0	717.4	724.4	731.3	742.8	754.4	757.8	759.0
50°	637.9	663.2	679.4	696.7	705.9	712.8	724.4	737.1	740.5	739.4
52.5°	615.9	640.2	657.5	675.9	685.1	692.1	702.4	716.3	719.7	719.7
55°	592.9	617.1	635.5	652.9	662.1	671.3	681.7	693.2	697.8	696.7
57.5°	569.8	591.7	611.3	629.8	637.9	647.1	657.5	669.0	672.5	674.8
60°	545.6	565.2	587.1	604.4	612.5	621.7	632.1	642.5	648.2	647.1
62.5°	519.1	541.0	561.7	577.9	586.0	595.2	605.6	614.8	619.4	621.7
65°	492.5	513.3	532.9	550.2	557.1	566.3	577.9	584.8	590.6	591.7
67.5°	464.8	485.6	505.2	523.7	530.6	538.7	549.0	556.0	561.7	562.9
70°	437.2	459.1	478.7	496.0	502.9	509.8	520.2	527.1	532.9	532.9
72.5°	410.6	432.5	451.0	468.3	475.2	481.0	491.4	498.3	502.9	504.1
75°	384.1	404.9	423.3	440.6	446.4	453.3	462.5	469.5	474.1	475.2
77.5°	357.6	379.5	396.8	412.9	418.7	424.5	434.8	440.6	445.2	445.2
80°	332.2	353.0	370.3	385.3	389.9	396.8	406.0	411.8	415.2	417.5
82.5°	308.0	327.6	343.7	357.6	364.5	369.1	378.3	384.1	387.6	389.9
85°	281.4	302.2	318.4	332.2	336.8	343.7	351.8	357.6	361.0	362.2
87.5°	257.2	275.7	291.8	308.0	313.7	318.4	326.4	332.2	335.7	338.0
90°	236.5	253.8	268.8	281.4	287.2	293.0	302.2	308.0	311.4	312.6
92.5°	221.5	238.8	252.6	265.3	271.1	275.7	283.7	289.5	293.0	294.1
95°	207.6	223.8	237.6	250.3	254.9	259.5	267.6	272.2	274.5	276.8
97.5°	192.6	209.9	222.6	234.1	239.9	243.4	251.5	256.1	259.5	260.7
100°	178.8	194.9	207.6	220.3	224.9	228.4	236.5	241.1	243.4	244.5
102.5°	164.9	181.1	193.8	205.3	209.9	213.4	220.3	224.9	228.4	229.5
105°	151.1	166.1	178.8	190.3	194.9	198.4	205.3	209.9	213.4	214.5
107.5°	138.4	152.3	164.9	175.3	179.9	183.4	190.3	194.9	198.4	199.5
110°	125.7	138.4	151.1	161.5	166.1	169.6	176.5	179.9	183.4	184.6



TEST NUMBER: P257063

CATALOG NUMBER: HGL-S-UF-50L930-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	111.9	125.7	137.3	147.6	151.1	155.7	161.5	166.1	168.4	169.6
115°	100.3	113.0	123.4	133.8	137.3	140.7	147.6	151.1	154.6	154.6
117.5°	87.7	99.2	110.7	120.0	123.4	126.9	133.8	137.3	139.6	140.7
120°	76.1	86.5	96.9	106.1	110.7	113.0	120.0	123.4	125.7	126.9
122.5°	64.6	75.0	85.4	93.4	96.9	100.3	106.1	109.6	111.9	113.0
125°	53.1	63.4	72.7	80.7	84.2	87.7	92.3	95.7	98.0	99.2
127.5°	42.7	51.9	61.1	68.1	71.5	75.0	79.6	83.0	85.4	86.5
130°	32.3	40.4	49.6	56.5	60.0	62.3	66.9	70.4	72.7	73.8
132.5°	21.9	30.0	38.1	45.0	48.4	50.8	55.4	57.7	60.0	61.1
135°	13.8	20.8	27.7	33.4	36.9	39.2	43.8	46.1	48.4	48.4
137.5°	6.9	12.7	18.5	23.1	25.4	28.8	32.3	34.6	35.8	36.9
140°	2.3	5.8	10.4	13.8	16.1	18.5	21.9	24.2	25.4	26.5
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)