

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: P257051

Luminaire Tested: **HGL-S-UF-40L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257051
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-40L835-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH FROSTED LENS WITH UPLIGHT
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4022.4 lumens
Efficiency: N/A
Efficacy: 135.9 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

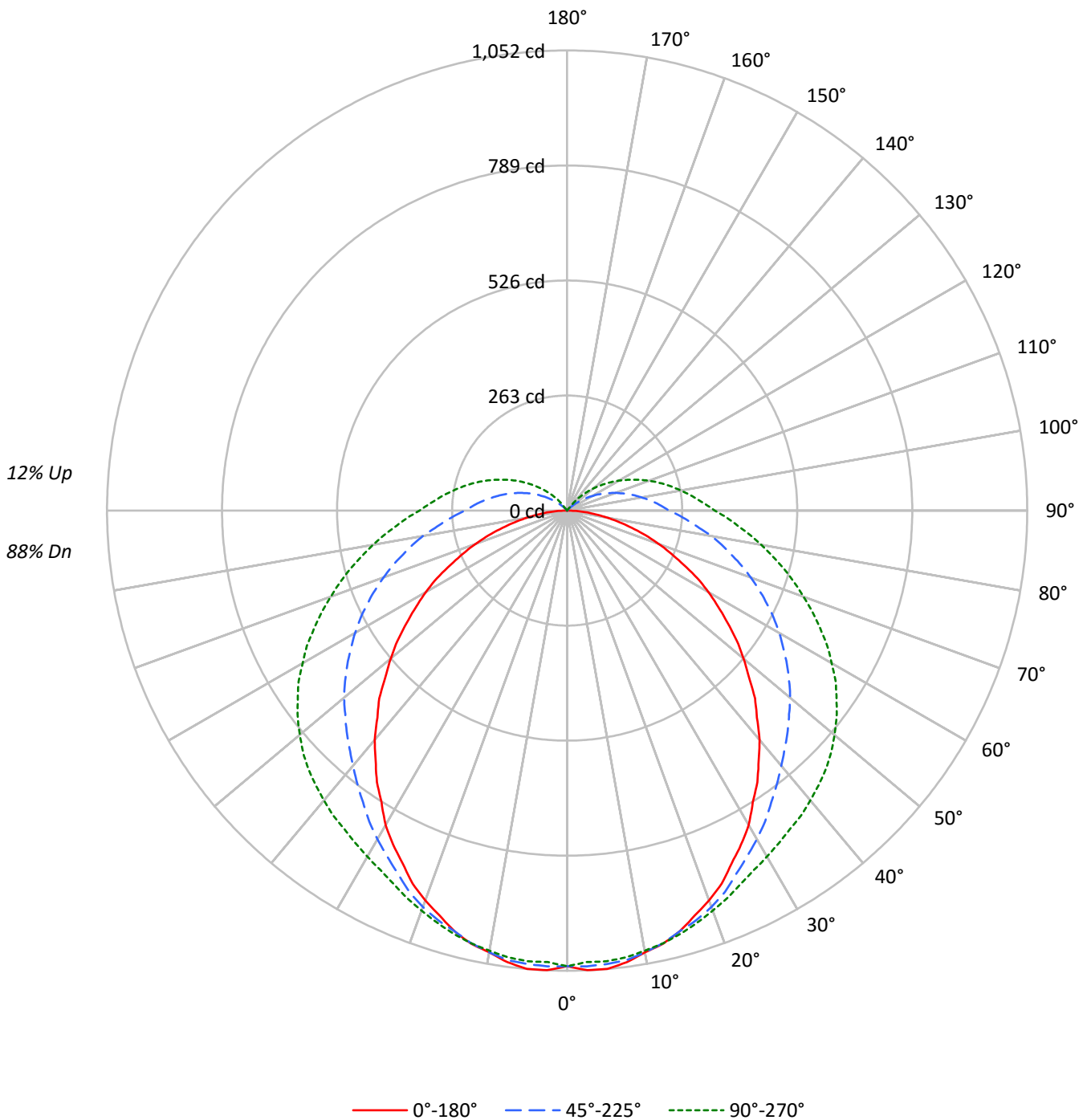
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P257051

CATALOG NUMBER: HGL-S-UF-40L835-UNV-4

Luminous Intensity Polar Plot





TEST NUMBER: P257051

CATALOG NUMBER: HGL-S-UF-40L835-UNV-4

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°	12231	12231	12231
5°	12367	11909	11724
10°	12172	11536	11278
15°	12019	11093	10856
20°	11739	10726	10435
25°	11390	10243	10058
30°	11089	9832	9811
35°	10670	9425	9663
40°	10268	9084	9597
45°	9829	8838	9548
50°	9327	8657	9452
55°	8843	8456	9331
60°	8389	8279	9174
65°	7729	8100	8982
70°	7139	7933	8778
75°	6331	7767	8627
80°	5427	7734	8515
85°	4267	7724	8498



TEST NUMBER: P257051

CATALOG NUMBER: HGL-S-UF-40L835-UNV-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	2.5
10°-20°	280.5	7.0
20°-30°	420.9	10.5
30°-40°	511.1	12.7
40°-50°	552.0	13.7
50°-60°	540.6	13.4
60°-70°	479.5	11.9
70°-80°	384.1	9.5
80°-90°	278.4	6.9
90°-100°	196.2	4.9
100°-110°	136.9	3.4
110°-120°	84.7	2.1
120°-130°	43.1	1.1
130°-140°	14.9	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°	800.1	19.9
0°-40°	1311.2	32.6
0°-60°	2403.8	59.8
0°-90°	3545.9	88.2
90°-120°	417.8	10.4
90°-150°	476.5	11.8
90°-180°	476.0	11.8
0°-180°	4022.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1042	1042	1042	1042	1042	
5°	1052	1042	1040	1035	1034	99
15°	996	988	996	1004	1002	280
25°	890	892	916	931	941	411
35°	758	763	814	862	889	473
45°	607	624	713	801	836	467
55°	448	485	614	714	752	402
65°	294	363	504	601	638	293
75°	153	250	388	482	513	164
85°	41	153	280	363	391	44
90°	1	112	233	310	337	3
95°	0	88	203	275	299	0
105°	0	47	146	210	232	0
115°	0	15	92	148	167	0
125°	0	0	45	91	107	0
135°	0	0	8	40	52	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



TEST NUMBER: P257051

CATALOG NUMBER: HGL-S-UF-40L835-UNV-4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6
2.5°	1051.6	1050.3	1046.6	1042.9	1041.6	1041.6	1040.4	1039.1	1039.1	1037.9	1042.9
5°	1051.6	1050.3	1046.6	1041.6	1040.4	1041.6	1040.4	1037.9	1037.9	1036.7	1040.4
7.5°	1041.6	1039.1	1036.7	1032.9	1031.7	1031.7	1030.4	1030.4	1030.4	1030.4	1036.7
10°	1025.5	1024.2	1021.7	1018.0	1018.0	1016.7	1016.7	1018.0	1018.0	1019.2	1025.5
12.5°	1014.3	1011.8	1008.0	1004.3	1003.1	1003.1	1001.8	1000.6	1001.8	1003.1	1013.0
15°	995.6	994.3	991.9	988.1	988.1	988.1	988.1	986.9	986.9	988.1	995.6
17.5°	970.7	968.2	967.0	964.5	965.7	967.0	968.2	967.0	969.5	973.2	981.9
20°	948.3	945.8	943.3	939.6	939.6	940.8	942.1	942.1	948.3	953.3	964.5
22.5°	923.4	922.2	919.7	918.4	918.4	919.7	919.7	917.2	920.9	928.4	943.3
25°	889.8	888.6	887.3	887.3	889.8	892.3	893.5	894.8	898.5	903.5	915.9
27.5°	861.2	859.9	857.4	855.0	857.4	859.9	861.2	863.7	871.1	881.1	891.1
30°	830.1	828.8	827.6	827.6	830.1	831.3	832.6	831.3	841.3	856.2	867.4
32.5°	790.2	789.0	790.2	790.2	796.5	800.2	802.7	803.9	812.6	826.3	842.5
35°	757.9	757.9	756.6	759.1	760.4	762.9	765.4	771.6	784.0	797.7	813.9
37.5°	719.3	719.3	719.3	725.5	730.5	731.8	733.0	740.5	756.6	770.3	787.8
40°	684.5	684.5	684.5	687.0	690.7	694.4	699.4	708.1	724.3	744.2	761.6
42.5°	642.2	643.4	645.9	652.1	657.1	659.6	663.3	677.0	694.4	718.1	736.7
45°	607.3	606.1	608.6	613.5	618.5	623.5	629.7	644.6	665.8	691.9	713.1
47.5°	563.8	565.0	567.5	576.2	582.4	588.6	596.1	613.5	638.4	664.6	688.2
50°	526.4	527.7	533.9	538.9	545.1	552.6	561.3	583.7	611.0	637.2	665.8
52.5°	489.1	490.3	495.3	499.0	509.0	517.7	528.9	553.8	582.4	611.0	639.7
55°	448.0	450.5	454.2	462.9	475.4	485.3	497.8	525.2	553.8	584.9	613.5
57.5°	409.4	410.7	416.9	425.6	440.5	453.0	467.9	496.5	527.7	557.5	586.2
60°	373.3	375.8	379.6	390.8	410.7	423.1	438.1	467.9	500.3	530.2	560.0
62.5°	336.0	338.5	343.5	355.9	379.6	393.3	409.4	440.5	472.9	502.8	532.6
65°	293.7	296.2	303.7	319.8	348.5	363.4	379.6	411.9	443.0	474.1	504.0
67.5°	257.6	258.9	268.8	286.2	316.1	334.8	352.2	383.3	414.4	445.5	475.4
70°	222.8	225.3	232.7	256.4	288.7	303.7	322.3	355.9	387.0	418.1	446.8
72.5°	187.9	190.4	201.6	227.7	261.3	277.5	292.5	328.5	359.7	389.5	418.1
75°	153.1	156.8	171.7	201.6	234.0	250.1	266.3	298.7	332.3	360.9	388.3
77.5°	122.0	125.7	144.4	175.5	207.8	224.0	240.2	271.3	302.4	333.5	362.1
80°	92.1	97.1	119.5	150.6	182.9	199.1	214.1	246.4	276.3	304.9	334.8
82.5°	66.0	72.2	98.3	128.2	160.5	175.5	190.4	221.5	251.4	278.8	304.9
85°	41.1	52.3	78.4	107.0	138.1	153.1	168.0	199.1	227.7	255.1	280.0
87.5°	19.9	34.8	59.7	87.1	117.0	131.9	146.8	176.7	204.1	231.5	256.4
90°	1.2	19.9	42.3	68.4	98.3	112.0	126.9	155.6	182.9	209.1	232.7
92.5°	0.0	12.4	33.6	58.5	85.9	100.8	114.5	143.1	169.2	195.4	217.8
95°	0.0	6.2	26.1	49.8	75.9	88.4	102.0	129.4	155.6	180.5	202.9
97.5°	0.0	1.2	18.7	39.8	64.7	78.4	90.8	117.0	143.1	166.8	187.9
100°	0.0	0.0	12.4	32.4	54.8	67.2	79.6	104.5	129.4	151.8	173.0
102.5°	0.0	0.0	6.2	24.9	46.0	57.2	68.4	93.3	117.0	139.4	159.3
105°	0.0	0.0	1.2	17.4	37.3	47.3	58.5	80.9	104.5	125.7	145.6
107.5°	0.0	0.0	0.0	10.0	28.6	38.6	48.5	69.7	92.1	112.0	130.7
110°	0.0	0.0	0.0	5.0	21.2	29.9	39.8	59.7	79.6	99.6	118.2



TEST NUMBER: P257051

CATALOG NUMBER: HGL-S-UF-40L835-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	1.2	13.7	22.4	31.1	49.8	68.4	87.1	104.5
115°	0.0	0.0	0.0	0.0	7.5	14.9	22.4	39.8	57.2	75.9	92.1
117.5°	0.0	0.0	0.0	0.0	2.5	8.7	14.9	31.1	47.3	63.5	79.6
120°	0.0	0.0	0.0	0.0	0.0	3.7	8.7	22.4	37.3	52.3	67.2
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	13.7	27.4	42.3	56.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	18.7	32.4	44.8
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	11.2	22.4	33.6
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	13.7	23.6
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	7.5	14.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.5
137.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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



TEST NUMBER: P257051

CATALOG NUMBER: HGL-S-UF-40L835-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6	1041.6
2.5°	1046.6	1041.6	1041.6	1040.4	1039.1	1037.9	1035.4	1034.2	1031.7	1032.9
5°	1044.1	1039.1	1039.1	1036.7	1035.4	1035.4	1034.2	1034.2	1032.9	1034.2
7.5°	1040.4	1034.2	1034.2	1031.7	1030.4	1029.2	1029.2	1029.2	1029.2	1030.4
10°	1030.4	1026.7	1026.7	1025.5	1024.2	1021.7	1020.5	1021.7	1020.5	1021.7
12.5°	1016.7	1013.0	1015.5	1015.5	1015.5	1013.0	1011.8	1013.0	1011.8	1013.0
15°	999.3	998.1	1001.8	1003.1	1004.3	1003.1	1001.8	1001.8	1001.8	1001.8
17.5°	981.9	980.7	985.6	988.1	988.1	988.1	988.1	986.9	986.9	988.1
20°	967.0	962.0	964.5	969.5	970.7	970.7	971.9	973.2	973.2	973.2
22.5°	945.8	943.3	944.6	948.3	950.8	952.0	955.8	955.8	957.0	958.3
25°	920.9	924.7	925.9	929.6	930.9	933.4	938.3	940.8	940.8	940.8
27.5°	894.8	902.3	907.2	909.7	912.2	914.7	920.9	925.9	925.9	925.9
30°	869.9	877.4	887.3	892.3	894.8	897.3	906.0	912.2	913.5	913.5
32.5°	843.8	853.7	868.6	876.1	877.4	881.1	892.3	899.8	901.0	901.0
35°	821.4	833.8	850.0	859.9	862.4	866.2	878.6	887.3	888.6	888.6
37.5°	801.4	813.9	831.3	845.0	847.5	852.5	864.9	876.1	877.4	878.6
40°	779.0	794.0	811.4	827.6	832.6	837.5	851.2	862.4	864.9	864.9
42.5°	756.6	775.3	792.7	811.4	817.6	822.6	837.5	848.7	851.2	851.2
45°	733.0	756.6	774.1	794.0	801.4	806.4	820.1	832.6	836.3	836.3
47.5°	711.8	736.7	754.2	774.1	781.5	789.0	801.4	813.9	817.6	818.9
50°	688.2	715.6	733.0	751.7	761.6	769.1	781.5	795.2	799.0	797.7
52.5°	664.6	690.7	709.4	729.3	739.2	746.7	757.9	772.8	776.6	776.6
55°	639.7	665.8	685.7	704.4	714.3	724.3	735.5	747.9	752.9	751.7
57.5°	614.8	638.4	659.6	679.5	688.2	698.2	709.4	721.8	725.5	728.0
60°	588.6	609.8	633.4	652.1	660.8	670.8	682.0	693.2	699.4	698.2
62.5°	560.0	583.7	606.1	623.5	632.2	642.2	653.4	663.3	668.3	670.8
65°	531.4	553.8	575.0	593.6	601.1	611.0	623.5	631.0	637.2	638.4
67.5°	501.5	523.9	545.1	565.0	572.5	581.2	592.4	599.8	606.1	607.3
70°	471.7	495.3	516.5	535.1	542.6	550.1	561.3	568.7	575.0	575.0
72.5°	443.0	466.7	486.6	505.3	512.7	518.9	530.2	537.6	542.6	543.8
75°	414.4	436.8	456.7	475.4	481.6	489.1	499.0	506.5	511.5	512.7
77.5°	385.8	409.4	428.1	445.5	451.7	458.0	469.2	475.4	480.4	480.4
80°	358.4	380.8	399.5	415.7	420.6	428.1	438.1	444.3	448.0	450.5
82.5°	332.3	353.4	370.9	385.8	393.3	398.2	408.2	414.4	418.1	420.6
85°	303.7	326.1	343.5	358.4	363.4	370.9	379.6	385.8	389.5	390.8
87.5°	277.5	297.4	314.9	332.3	338.5	343.5	352.2	358.4	362.1	364.6
90°	255.1	273.8	290.0	303.7	309.9	316.1	326.1	332.3	336.0	337.3
92.5°	238.9	257.6	272.5	286.2	292.5	297.4	306.1	312.4	316.1	317.3
95°	224.0	241.4	256.4	270.1	275.0	280.0	288.7	293.7	296.2	298.7
97.5°	207.8	226.5	240.2	252.6	258.9	262.6	271.3	276.3	280.0	281.3
100°	192.9	210.3	224.0	237.7	242.7	246.4	255.1	260.1	262.6	263.8
102.5°	178.0	195.4	209.1	221.5	226.5	230.2	237.7	242.7	246.4	247.7
105°	163.0	179.2	192.9	205.3	210.3	214.1	221.5	226.5	230.2	231.5
107.5°	149.3	164.3	178.0	189.2	194.1	197.9	205.3	210.3	214.1	215.3
110°	135.6	149.3	163.0	174.2	179.2	182.9	190.4	194.1	197.9	199.1



TEST NUMBER: P257051

CATALOG NUMBER: HGL-S-UF-40L835-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	120.7	135.6	148.1	159.3	163.0	168.0	174.2	179.2	181.7	182.9
115°	108.3	122.0	133.2	144.4	148.1	151.8	159.3	163.0	166.8	166.8
117.5°	94.6	107.0	119.5	129.4	133.2	136.9	144.4	148.1	150.6	151.8
120°	82.1	93.3	104.5	114.5	119.5	122.0	129.4	133.2	135.6	136.9
122.5°	69.7	80.9	92.1	100.8	104.5	108.3	114.5	118.2	120.7	122.0
125°	57.2	68.4	78.4	87.1	90.8	94.6	99.6	103.3	105.8	107.0
127.5°	46.0	56.0	66.0	73.4	77.2	80.9	85.9	89.6	92.1	93.3
130°	34.8	43.6	53.5	61.0	64.7	67.2	72.2	75.9	78.4	79.6
132.5°	23.6	32.4	41.1	48.5	52.3	54.8	59.7	62.2	64.7	66.0
135°	14.9	22.4	29.9	36.1	39.8	42.3	47.3	49.8	52.3	52.3
137.5°	7.5	13.7	19.9	24.9	27.4	31.1	34.8	37.3	38.6	39.8
140°	2.5	6.2	11.2	14.9	17.4	19.9	23.6	26.1	27.4	28.6
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)